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April 7th, 2025

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 2025

Mr. Wein:

Please find enclosed a copy of quarterly water analysis reports for the 1st quarter of 2025 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 505.286.6081 or skretz@gcc.com if you have any questions or require any additional information.

Sincerely,

A handwritten signature in black ink that reads 'Samantha Kretz' in a cursive script.

Samantha Kretz
Environmental Manager, South Region
Energy, LLC

GCC Energy Hydrologic Monitoring Data

Hay Gulch Ditch Upgradient																															
Year	2018				2019				2020				2021				2022				2023				2024				2025		
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	Q2	Q3	Q4	Q1		
Month	2	5	8	11	2	5	8	11	2	5	8	12	2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2		
Sample Date	2/22	5/14	8/9	11/8	2/28	5/23	8/16	11/13	2/13	5/13	8/13	12/3	2/22	6/3	9/1	11/15	3/24	6/20	9/13	12/20	3/27	5/18	8/24	11/29	2/26	6/20	8/20	11/25	2/8		
Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																															
Flow Rate	cfs	NM	0.60	0.70	0.70	0.25	3.63	1.17	NM	NM	0.92	0.13	1.02	0.06	0.16	NM	0.67	0.16	0.07	0.01	0.07	NM	0.74	0.89	0.64	0.44	0.66	1.85	0.11	0.03	
Temperature	deg C	4.7	11.3	22.1	1.1	5.9	5.9	16.9	5.7	1.5	16.5	18.1	2.0	5.8	11.3	15.5	7.1	8.6	17.8	15.0	2.7	0.1	17.8	16.0	3.2	5.5	13.6	16.6	5.9	6.5	
pH	SU	7.9	7.58	9.07	7.16	6.4	7.53	8.03	7.33	7.75	8.39	8.65	8.08	7.83	7.75	8.07	6.94	7.11	7.94	7.15	6.19	7.85	8.01	7.7	7.76	7.68	7.73	8.05	7.68	7.58	
Specific Conductance	µS/cm	1041	304	307	307	752	306	275	682	902	314	528	434	1024	189	280	252	553	832	570	708	1508	442	764	1013	1058	532	306	989	1237	
Oxygen Reduction Potential	mV	-164.1	111.4	-181.3	13.9	103.7	-24.0	24.4	-22.4	-4.5	81.7	118.9	120.3	51.6	86.6	58.3	109.2	3.2	97.8	-108.9	-148.2	13.3	-8.6	-27.5	-76.4	-117.6	-9.7	21.4	-121.4	-91.3	
Dissolved Oxygen	mg/L	9.4	8.5	6.4	10.2	8.0	8.9	7.8	7.9	7.0	7.5	8.4	10.4	8.7	8.5	7.1	9.2	8.5	8.5	8.1	10.4	9.0	7.3	6.0	8.0	6.7	6.1	6.7	8.6	7.8	
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	489	101	153	149	393	136	125	372	405	150	287	213	588	92.6	131	120	280	383	273	336	697	293	342	434	458	245	141	460	532	
pH (Lab)	SU	8.39	7.99	9.07	7.86	7.45	7.69	7.83	7.4	7.22	7.6	8.01	7.92	7.57	7.72	7.44	7.52	7.81	7.87	7.81	7.98	7.56	7.91	7.56	7.85	7.96	7.76	7.96	7.70	7.7	
Total Dissolved Solids (Lab)	mg/L	700	140	215	175	535	205	225	635	587	255	340	160	685	210	185	140	380	520	355	410	955	380	480	600	615	295	150	600	685	
Total Suspended Solids	mg/L	6.01	106	6.25	14.8	22	113	20	5.38	<4.0	140	19.5	13.2	55	133	51	13.2	13.4	5.07	45.4	<2.5	121	38	9.79	< 2.50	10	57.3	4.92	26.7	12.4	
Calcium	mg/L	87.3	26.3	39.1	40.3	79.8	34.6	32.4	79.3	81.5	36.1	63.2	49.9	113	25.8	35.8	34.2	61.7	70.8	55	69.9	124	63.5	70.2	86.3	90.2	50	37	90.1	102	
Magnesium	mg/L	65.9	8.61	13.5	11.9	47	12.1	10.8	42.2	49	14.5	31.3	21.5	74.3	6.87	10.1	8.35	30.5	50.1	33.1	39.2	93.9	32.6	40.5	53	56.6	29.1	11.8	57.1	67.5	
Sodium	mg/L	34.6	3.31	5.33	5	19.1	7.24	5.81	25.4	30.9	7.67	10.9	8.39	34.3	2.71	3.97	3.53	13.8	19.3	12.4	15.1	36.8	18.1	20.6	31.6	30.5	16.9	5.13	21.8	25.5	
Potassium	mg/L	3.52	1.18	1.24	<1.00	3.89	1.57	1.07	3.25	3.65	1.86	1.85	1.53	4.74	<1.00	3.28	<1.00	3.39	3.58	2.18	2.82	6.2	2.79	2.97	6.33	4.89	3.32	1.3	4.39	6.08	
Alkalinity, Total	mg/L	244	67	111	120	260	390	103	233	315	102	220	137	340	68	98	87	162	330	209	231	365	179	247	300	326	175	111	301	425	
Alkalinity, Bicarbonate	mg/L	244	67	107	120	260	390	103	233	295	102	220	131	340	68	98	87	162	330	209	231	365	179	247	300	326	175	111	301	425	
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L	46.7	3.12	6.7	5.58	48.1	7.75	6.04	22.8	31.6	9.64	24.5	14.8	85.9	3.17	5.23	3.44	32.3	33.6	21.9	29.2	108	36.1	41.7	45.8	51.2	21.6	7.84	55.7	65.8	
Fluoride	mg/L	0.285	0.224	0.272	0.224	0.252	0.208	0.214	<0.500	0.239	<0.500	0.226	0.226	0.235	0.188	0.227	0.179	0.178	0.26	0.238	0.227	0.266	0.185	0.235	0.189	< 0.200	0.223	0.215	0.271	0.303	
Sulfate as SO4	mg/L	229	34	49.7	45	128	47.2	35.6	107	151	44	86.3	64.4	211	26.4	42.2	40	95.5	121	85.1	99.4	314	116	114	152	159	76.6	38.8	146	179	
Total Organic Carbon (TOC)	mg/L	1.81	2.31	1.61	1.09	4.94	3.08	1.84	4.54	5.45	2.93	1.65	1.22	2.69	1.39	2.80	0.83	1.86	5.18	1.74	0.90	3.93	6.04	4.35	6.45	8.35	8.72	1.41	2.59	4.03	
Oil & Grease	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Nitrate/Nitrite as N	mg/L	0.105	0.026	<0.020	<0.020	0.263	0.05	0.072	0.104	0.044	0.302	0.042	0.026	0.282	0.049	0.026	<0.02	0.118	0.165	<0.02	0.066	0.85	0.133	0.298	0.113	0.038	0.085	0.024	0.07	0.082	
Sodium Adsorption Ratio (SAR)	no unit	0.68	0.14	0.18	0.16	0.42	0.26	0.22	0.55	0.65	0.26	0.29	0.25	0.62	0.12	0.15	0.14	0.36	0.43	0.33	0.37	0.61	0.46	0.48	0.66	0.63	0.47	0.19	0.44	0.48	
Ammonia as N ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	<0.050	< 0.050	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050	< 0.050	
Arsenic	mg/L	<0.0025	<0.0005	0.0009	<0.0005	0.0007	0.0006	0.0007	0.0005	0.0006	<0.0005	0.0007	<0.0005	0.0012	<0.0005	0.001	<0.0005	0.0005	0.001	0.0007	0.0009	<0.0025	0.0006	0.0008	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	0.0011	
Cadmium	mg/L	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	< 0.0005	< 0.0010	< 0.0005	< 0				

GCC Energy Hydrologic Monitoring Data

Hay Gulch Ditch Downgradient																														
Year	2018				2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1	
Month	2	5	8	11	2	5	8	11	2	6	8	12	2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2	
Sample Date	2/22	5/7	8/9	11/7	2/28	5/23	8/16	11/13	2/6	6/1	8/13	12/3	2/22	6/3	9/1	11/15	3/24	6/20	9/13	12/20	3/27	5/18	8/18	11/21	2/26	6/20	8/20	11/25	2/8	
Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Flow Rate	cfs	NM	NM	NM	0.50	0.25	0.30	1.05	NM	NM	1.50	0.13	NM	0.001	0.40	NM	0.67	0.06	0.04	0.01	0.07	0.10	1.34	0.20	0.08	0.06	0.57	0.43	0.02	0.02
Temperature	deg C	6.3	11.3	20.6	4.7	6.88	8.23	15.15	3.51	3.73	14.21	20.4	6.83	10.37	13.35	10.47	4.00	9.21	17.71	18.02	4.05	4.52	15.48	14.54	7.36	5.85	15.03	14.51	8.37	6.83
pH	SU	8.33	7.58	7.43	7.48	6.42	7.77	7.61	8.38	7.94	8.24	8.00	7.7	7.76	8.12	8.26	7.00	7.22	7.53	6.50	6.42	8.43	8.30	7.68	8.29	8.23	8.35	8.14	8.00	8.01
Specific Conductance	µS/cm	742	304	356	309	577	202	295	554	882	137	237	478	815	131	184	311	636	150	248	292	891	762	835	976	984	358	378	845	1044
Oxygen Reduction Potential	mV	51.6	111.4	-10.0	-88.9	125.6	50.6	111.6	-108.1	124.2	104.8	103.0	127.8	-26.5	85.1	119.5	122.7	-85.2	136.1	39.9	-132.7	66.9	79.6	-148.0	-29.4	-12.0	47.6	79.7	-28.0	21.1
Dissolved Oxygen	mg/L	9.8	8.5	6.3	9.1	7.6	8.8	7.2	9.6	9.5	8.0	6.4	9.6	6.8	7.8	6.7	9.8	NM	7.2	7.0	9.7	10.2	6.8	7.3	9.0	9.8	7.2	6.8	7.7	9.3
Lab Analytical Results:																														
Hardness as CaCO3	mg/L	329	140	182	167	281	91.9	137	295	416	63.6	120	232	419	64.8	90.7	143	346	65.7	95.9	138	433	337	497	467	439	180	184	411	461
pH (Lab)	SU	8.17	8.05	8.09	7.95	7.84	7.68	7.73	7.73	7.8	7.49	7.59	7.85	7.83	7.74	7.58	7.39	8.01	7.86	7.68	7.97	7.95	8.09	8.28	8.07	8.04	8.20	8.04	8.00	8.04
Total Dissolved Solids (Lab)	mg/L	420	220	260	185	390	185	195	355	573	120	135	370	435	175	90	120	410	30	90	225	555	475	625	575	570	195	225	545	565
Total Suspended Solids	mg/L	49.5	<2.00	5.7	4.4	18.4	153.0	22.5	<4.00	4.2	17.5	28.6	10.5	28.0	8.4	4.8	5.4	18.3	29.2	3.7	8.0	17.8	62.0	16.0	3.4	25.7	31.3	9.2	6.4	11.0
Calcium	mg/L	75.4	37.5	49	44.7	61.6	26	34.5	67.2	85.6	20.3	34.2	55.6	98.2	21.2	29.8	39.3	82.1	21.4	30.2	39	101	75.8	114	110	99.9	42.9	47	97.9	108
Magnesium	mg/L	34.2	11.2	14.4	13.4	31	6.54	12.3	30.8	49	3.15	8.38	22.7	42.2	2.86	3.94	11	34.2	2.96	5.01	9.73	43.8	35.8	51.9	47.1	46	17.6	16.3	40.4	46.7
Sodium	mg/L	18.10	5.42	6.49	5.15	16.50	5.03	6.62	17.00	28.50	1.90	3.68	9.03	15.80	1.14	1.75	4.71	16.40	1.58	2.04	4.08	18.60	18.50	29.60	21.70	21.60	8.83	6.83	19.90	23.00
Potassium	mg/L	2.84	1.14	1.58	1.34	3.13	1.31	1.27	2.6	3.81	<1.00	1.36	1.89	3.75	<1.00	1.02	1.3	2.89	<1.00	<1.00	1.07	2.94	2.77	6.45	4.82	3.73	1.36	1.53	3.62	3.74
Alkalinity, Total	mg/L	265	112	170	140	150	340	140	194	297	48	110	158	315	52	72	116	282	46	73	103	303	218	293	325	312	129	139	345	360
Alkalinity, Bicarbonate	mg/L	259	104	170	140	150	340	140	188	283	48	110	154	315	52	72	116	282	46	73	103	293	218	265	325	296	129	139	345	360
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	14	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	28	< 10.0	16	< 10.0	< 10.0	< 10.0	< 10.0
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L	23.1	7.54	7.47	5.69	40.2	16.9	7.65	14.8	30.7	1.87	4.42	17.1	59	1.16	1.21	5.07	15	1.23	1.69	6.57	39.6	39.4	50.5	42.7	51.6	12.7	11.9	46.3	53.9
Fluoride	mg/L	0.308	0.228	0.295	0.228	0.232	0.205	0.218	0.252	0.272	0.185	0.224	0.244	0.246	0.195	0.216	0.185	0.257	0.191	0.221	0.213	0.274	0.202	0.231	0.201	0.201	0.216	0.223	0.273	0.287
Sulfate as SO4	mg/L	86.5	40.2	46.8	45	91.4	18.5	42.7	83.3	143	14.2	32.4	70.2	90.1	17.3	25.7	46.3	74.7	18.8	26.4	42.2	138	127	168	138	142	47.6	48.6	125	148
Total Organic Carbon (TOC)	mg/L	1.56	1.28	1.33	1.76	2.90	2.37	2.10	3.26	4.53	1.39	1.47	1.55	2.31	1.18	1.48	1.12	1.42	1.10	1.13	1.01	<5.00	6.19	6.17	4.04	3.74	2.01	2.35	2.43	2.13
Oil & Grease	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	< 5.00	< 5.00 ~	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	<0.020	<0.020	0.17	0.146	0.09	<0.020	0.056	0.031	0.053	<0.020	0.148	0.021	<0.020	<0.020	0.041	<0.02	<0.02	<0.02	0.361	0.17	0.078	< 0.020	0.072	0.056	0.025	0.099	0.065
Sodium Adsorption Ratio (SAR)	no unit	0.43	0.2	0.2	0.17	0.43	0.22	0.24	0.41	0.61	0.1	0.14	0.26	0.34	0.06	0.08	0.17	0.38	0.08	0.9	0.15	0.39	0.44	0.58	0.44	0.46	0.29	0.22	0.42	0.47
Ammonia as N ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.100	<0.050	< 0.100	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Arsenic	mg/L	0.0005	0.0005	0.0008	<0.0005	0.0006	0.0006	0.0006	0.0005	0.0006	<0.0005	0.0007	<0.0005	0.0013	<0.0005	0.0007	<0.0005	<0.0005	0.001	0.0007	0.0005	<0.001	0.0009	< 0.0010	< 0.0005	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	< 0.0010	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper	mg/L	0.0005	0.0008	0.0008	0.0008	<0.0010	0.0021	0.0009	0.0007	0.0006	0.0014	0.0009	0.0005	0.0006	0.0011	0.001	0.0007	0.0009	0.0034	0.001	0.0045	0.007	0.0026	0.0029	0.0025	0.0028	0.0022	0.0194	0.0058	0.0051
Iron	mg/L	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	< 0.100	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.250	< 0.050
Lead	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	< 0.0010	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0016	< 0.0005	0.0006
Manganese	mg/L	0.0962	0.0038	0.0445	0.0102	0.048	0.0125	0.0033	0.0102	0.0286	0.0012	0.0046	0.0116	0.133	0.0011	0.0021	0.0124	0.0082	0.0024	0.0175	0.0315	0.0552	0.0233	0.0156	0.049	0.0844	0.0055	0.0153	0.0428	0.022
Mercury (total)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00002														
Mercury (total low-level)	ng/L														<10.0	<10.0	<10.0	<100	<100	<100	<100	<100	<100	<100	<100	<10.0	<10.0	< 10.0	< 10.0	< 10.0
Molybdenum	mg/L	0.001	0.0011	0.0012	0.001	0.001	0.0011	0.0012	0.0007	0.0006	0.0008	0.0012	0.0009	0.0009	0.0009	0.001	0.0009	0.001	0.001	0.0011	0.0009	<0.001	0.0009	0.001	0.0008	0.0009	0.001	0.0009	0.0008	0.0008
Selenium	mg/L	0.0011	<0.0010	<0.0010	<0.001	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010	0.001	0.0011	<0.0010	<0.0010	< 0.0020	0.001	< 0.0020	0.0013	0.0014	0.0014	< 0.0010	0.0014	0.0012
Silica (SiO2)	mg/L	10.7	8.41	8.77	8.66	8.46	5.7	8.86																						

Notes & Definitions:

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

~ re-sample on 12/19/23 following detection of 9.10 mg/L on 11/21/23

^ one-time analysis

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

Well #1 Upgradient																														
Year	2018				2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1	
Month	2	5	8	11	2	5	8	11	2	6	8	12	2	5	8	11	3	6	8	12	3	5	8	11	2	6	8	11	2	
Sample Date	2/22	5/14	8/9	11/7	2/25	5/23	8/16	11/14	2/13	6/1	8/31	12/14	2/11	5/19	8/12	11/12	3/1	6/2	8/17	12/16	3/29	5/19	8/21	11/21	2/26	6/20	8/20	11/25	2/8	
Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Purge Flow Rate	gpm	7.2	7.2	10.0	7.2	10.0	8.3	11.0	6.5	8.0	10.0	8.0	8.0	8.0	8.0	8.0	4.0	8.0	5.0	9.0	6.0	7.1	10.2	8.8	6.1	8.1	8.7	4.8	6.5	6.4
Total Purged	gal	268	280	267	305	300	321	327	293	314	300	291	280	302	324	300	400	300	300	400	350	270	280	304	264	270	265	263	262	265
Depth to Water	ft bgs	5.40	5.77	5.65	6.50	5.98	4.50	5.68	6.08	5.55	4.17	6.25	3.72	6.48	5.82	7.25	6.55	6.47	6.80	6.80	6.30	4.92	4.42	6.15	6.40	5.70	6.10	6.40	6.70	6.00
Temperature	deg C	11.5	11.7	12.0	12.5	11.7	11.5	11.8	12.9	11.6	12.1	12.3	11.5	11.6	12.2	12.3	12.0	12.0	12.3	12.0	11.7	11.8	11.7	12.7	12.3	12.3	11.7	12.7	11.8	11.4
pH	SU	7.56	7.49	7.35	7.34	7.44	7.39	7.37	7.32	7.37	7.38	7.57	7.6	7.54	7.56	7.59	7.57	7.46	7.54	7.49	6.84	7.67	7.53	7.67	7.52	7.59	7.36	7.46	7.47	7.41
Specific Conductance	µS/cm	1278	1218	1289	1204	1235	1308	1253	1232	1277	1268	1067	1190	1142	1235	1212	1301	1235	1301	1235	1282	1313	1375	1201	1287	1312	1238	1265	1225	1361
Oxygen Reduction Potential	mV	-185.3	-219.3	-251.6	-273.0	-232.0	-194.0	-192.0	-159.9	-193.0	-221.7	-187.2	-138.1	-153.4	-208.9	-202.5	-272.2	-306.3	-231.9	-351.0	-306.7	-162.0	-126.9	-157.9	-238.5	-260.6	-174.9	-212.8	-300.6	-211.5
Lab Analytical Results:																														
Hardness as CaCO3	mg/L	274	275	369	287	252	350	303	263	290	319	255	247	298	313	236	286	271	311	281	317	334	561	301	303	330	304	321	301	316
pH (Lab)	SU	7.75	7.95	7.48	7.5	7.77	7.56	7.23	7.35	7.12	7.26	7.53	7.72	7.39	7.33	7.47	7.23	7.51	7.67	7.46	7.39	7.43	NA*	7.62	7.44	7.67	7.52	7.57	7.54	7.55
Total Dissolved Solids (Lab)	mg/L	745	770	835	730	735	860	780	705	700	775	710	690	755	785	750	745	725	790	735	745	765	835	740	755	745	750	730	730	640
Calcium	mg/L	53.4	53.8	71.5	56.7	49.1	67.8	58.2	51.5	56.5	61.6	49.6	47.4	58.1	60.9	45.4	54.8	53.3	60.3	52.1	60.2	64.2	107	58.1	58.1	61.3	58.9	61.4	57.6	59.3
Magnesium	mg/L	34.2	34.1	46.4	35.4	31.4	43.8	38.3	32.7	36.1	40	31.7	31.1	37.2	39.1	29.8	36.1	33.5	39	36.6	40.5	42.2	71.2	37.7	38.4	43	38.1	40.7	38.3	40.7
Sodium	mg/L	183	191	154	212	196	172	167	198	183	178	193	196	204	172	177	182	185	172	179	166	168	106	192	174	158	173	177	182	164
Potassium	mg/L	3.09	3.03	3.16	3.15	3.01	3.32	3.01	3.01	<5	3.05	3.05	3.02	<5.00	3.00	<5.00	<5.00	2.93	3.09	2.94	<5.00	<5.00	3.04	<5.00	2.89	2.8	3	3.03	2.97	2.99
Alkalinity, Total	mg/L	620	595	630	640	610	615	615	590	600	576	520	605	570	620	600	770	640	650	570	615	640	590	602	610	590	625	630	635	635
Alkalinity, Bicarbonate	mg/L	620	595	630	640	610	615	615	590	600	576	520	587	570	620	600	770	640	590	570	615	640	590	602	610	590	625	630	635	635
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	18	<10.0	<10.0	<10.0	<10.0	<10.0	60	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Chloride	mg/L	4.3	4.35	4.34	4.23	4.35	4.59	4.36	6.19	4.76	4.76	4.62	4.34	4.27	4.91	4.89	4.93	4.46	4.5	4.75	4.78	4.77	6.43	4.76	4.83	5.05	5.38	4.84	4.71	4.87
Fluoride	mg/L	0.354	0.335	0.390	0.359	0.355	0.349	0.335	<0.500	0.348	0.366	0.356	0.342	0.311	0.338	0.350	0.284	0.349	0.268	0.332	0.334	0.340	0.320	0.304	0.268	0.266	0.352	0.340	0.436	0.389
Sulfate as SO4	mg/L	106	97.2	147	89.9	91.4	131	112	92.1	104	110	79.6	87.9	102	110	98.5	122	96.4	114	103	114	122	174	90.8	102	117	108	112	101	120
Total Organic Carbon (TOC)	mg/L	3.37	3.50	3.94	3.35	3.31	3.70	3.53	3.14	3.29	3.37	3.32	3.17	3.26	3.27	3.23	3.23	3.04	3.46	3.45	1.82	3.36	4.62	3.17	2.99	5.09	3.46	3.44	3.46	3.59
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ammonia as N ^	mg/L	NA	NA	NA	NA	NA	NA	NA	0.931	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA	NA	NA	NA	NA	NA	NA	0.059	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.250	<0.050	<0.150	<0.050	<0.250	<0.050	<0.250	<0.250	<0.050	<0.050	<0.050	<0.250	<0.250	<0.100	<0.250	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050
Arsenic	mg/L	0.0005	0.0005	0.0005	<0.0005	0.0005	0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0010	0.0008	<0.0025	0.0005	<0.0005	<0.0025	<0.0005	0.0006	<0.0005	<0.0025	<0.0025	0.0013	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0050
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0005	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0025	
Copper	mg/L	0.0035	0.0030	0.0022	0.0025	0.0042	0.0015	0.0019	0.0012	0.0017	0.0017	0.0021	0.0007	<0.0025	0.0039	0.0038	0.0059	0.0053	0.0067	0.0069	0.0067	0.0031	0.0022	0.0016	0.0035	0.0055	0.0067	0.0052	0.0112	0.0056
Iron	mg/L	1.44	1.39	1.98	1.52	1.26	1.74	1.58	1.41	1.49	1.53	1.24	1.7	1.66	1.69	1.19	1.43	1.25	1.65	1.32	2.07	1.7	4.63	1.56	1.81	2.03	1.65	2.01	1.69	1.88
Lead																														

GCC Energy Hydrologic Monitoring Data

Well #2 Downgradient																															
Year	2018					2019				2020				2021				2022				2023				2024				2025	
Quarter	Q1	Q2	Q3	Q4	Q4	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	2	5	8	8	11	2	5	8	11	2	6	8	12	2	5	8	11	2	5	8	12	3	5	8	11	2	6	8	11	2	
Sample Date	2/22	5/7	8/8	8/9	11/7	2/27	5/22	8/16	11/13	2/6	6/1	8/26	12/14	2/11	5/19	8/12	11/10	2/28	5/9	8/9	12/13	3/28	5/19	8/18	11/21	2/26	6/20	8/20	11/24	2/8	
Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	0.1	1.00	0.10	1.00	0.50	0.25	0.50	0.25	0.50	0.25	0.25	0.25	0.13	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.04	0.33	0.60	0.34	0.19	0.23	0.38	0.23	0.35	0.16
Total Purged	gal	6	11	2	6.5	7.5	13.0	10.0	9.0	7.5	12.0	8.0	7.0	12.0	9.0	7.0	12.0	6.0	9.0	19.0	0.4	5.4	8.0	5.2	4.6	4.8	4.4	3.6	3.3	3.3	
Depth to Water	ft bgs	6.68	7.4	6.65	6.59	5.17	5.85	0.92	3.60	5.20	5.60	4.00	6.29	7.48	8.10	8.70	8.32	8.75	9.14	9.70	10.25	9.65	8.55	8.65	8.95	10.07	9.70	10.50	11.75	12.78	12.70
Temperature	deg C	9.8	8.9	14.0	11.1	11.9	9.1	8.1	10.5	11.5	10.4	9.1	11.5	11.0	9.8	9.4	11.2	12.1	10.1	9.5	11.1	11.2	9.2	8.7	11.3	11.4	9.8	9.2	10.3	11.2	9.9
pH	SU	7.59	7.48	7.84	7.20	7.15	7.41	7.34	7.23	7.19	7.32	7.41	7.44	7.56	7.50	7.54	7.57	7.53	7.53	7.50	7.45	7.79	7.72	7.52	7.59	7.47	7.57	7.32	7.42	7.40	7.35
Specific Conductance	µS/cm	887	847	828	895	955	960	1091	1051	1083	1083	1134	1017	1099	964	939	1038	1073	1050	1019	1063	1201	1193	1253	1184	1202	1139	1093	1109	1119	1184
Oxygen Reduction Potential	mV	-44.9	-34	-75.6	-127	-91.9	48.4	-57.8	-30.1	-5.5	25.3	-51.3	19.9	3.2	-4.8	-48.3	-26.0	-33.5	-94.0	-13.3	-207.6	-266.7	15.1	2.1	-18.4	-115.3	-112.5	-67.6	-39.7	-78.7	34.8
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	412	415	422	415	465	488	537	513	603	540	575	560	569	624	529	503	521	500	527	551	557	503	641	646	582	500	540	553	555	532
pH (Lab)	SU	7.62	7.6	7.61	7.45	7.50	7.50	7.40	7.04	7.12	7.20	7.09	7.30	7.20	7.17	7.15	7.32	7.24	7.57	7.53	7.71	7.54	7.40	NA*	7.40	7.45	7.57	7.51	7.61	7.50	7.56
Total Dissolved Solids (Lab)	mg/L	515	545	545	575	550	575	695	655	690	695	730	665	685	660	655	685	655	605	645	680	695	770	775	855	745	660	670	680	690	660
Calcium	mg/L	70.1	70.2	72.7	70.4	78.7	81.3	87.1	83.3	99.4	87.2	92.2	90.1	90	97.9	81.2	76.8	80.1	76	79.1	84.6	84.1	76.4	101	98.9	88.3	73.4	80.4	84.3	82.6	78.6
Magnesium	mg/L	57.4	58.2	58.4	58.2	65.2	69.2	77.6	74	86.3	78.2	83.7	81.3	83.7	92.2	79.2	75.6	77.9	75.3	80	82.5	84.3	75.8	94.7	97	87.8	76.8	82.3	83.2	84.7	81.4
Sodium	mg/L	19.4	19.2	19.6	19.1	21.3	22.1	23.4	21.4	25.5	23.3	24.5	23.8	24.5	26.9	23.4	23.1	23.3	23.3	24.9	26.1	62.7	24.6	30.7	33.8	29.3	27	28.6	30.1	30.7	29.1
Potassium	mg/L	1.76	1.68	2.00	1.82	2.08	1.97	1.94	2.06	2.4	2.04	2	2.06	2.22	<5.00	1.94	<5.00	2.12	2.01	1.99	2.28	2.42	<2.00	2.51	2.8	2.26	2.02	2.07	2.3	2.39	2.27
Alkalinity, Total	mg/L	333	350	380	328	340	395	460	365	348	324	324	345	341	385	375	380	540	372	385	288	358	379	395	379	390	372	385	400	420	415
Alkalinity, Bicarbonate	mg/L	333	350	380	328	340	395	460	365	348	324	324	345	333	385	375	380	540	372	385	288	358	379	395	379	390	372	385	400	420	415
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Chloride	mg/L	24.7	27.2	34.5	34.1	39.3	40.1	42.9	45.2	47.2	48.9	50.3	44.8	44.6	46	45.9	37	44.3	41.1	38.1	41.9	53.1	49.2	54.4	52	46.9	43	44.1	43.4	41.3	46.1
Fluoride	mg/L	0.244	0.224	0.259	0.281	0.263	0.244	0.246	0.221	<0.500	<0.500	<0.500	0.254	0.248	0.216	0.236	<0.500	0.21	0.251	0.217	0.229	0.268	0.262	0.21	0.22	< 0.200	< 0.200	0.236	0.234	0.244	0.268
Sulfate as SO4	mg/L	104	102	112	111	137	138	196	189	182	199	230	204	219	190	199	186	176	187	160	190	235	224	258	239	214	195	199	196	185	193
Total Organic Carbon (TOC)	mg/L	2.10	2.02	2.06	1.93	2.08	1.87	2.69	2.28	1.99	1.80	1.84	1.87	1.74	2.18	1.74	1.77	1.73	1.73	1.56	1.68	1.04	1.77	3.14	1.88	1.65	1.79	1.71	1.93	1.65	1.59
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.029	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ammonia as N ^	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	<0.250	<0.050	<0.250	<0.050	<0.050	<0.050	<0.050	<0.100	<0.100	<0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Arsenic	mg/L	0.0010	0.0009	0.0012	0.0012	0.0010	0.0012	0.0011	0.0012	0.0012	0.0011	0.0009	<0.001	0.0013	<0.0025	0.0009	0.0012	<0.0025	0.0007	0.0005	0.0009	0.0015	<0.001	<0.001	< 0.0010	< 0.0010	0.0011	< 0.0020	< 0.0010	< 0.0010	< 0.0010
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	< 0.0010	< 0.0010	< 0.0005	< 0.0010	< 0.0005	< 0.0005	< 0.0005
Copper	mg/L	0.0056	0.0002	0.0006	0.0004	0.0003	0.001	0.0016	0.0003	0.0002	<0.0005	<0.0005	<0.0010	<0.0005	<0.0025	0.0006	0.0005	<0.0025	<0.0005	0.0006	0.0006	0.0032	0.005	0.0017	0.0215	0.0023	0.0025	< 0.0020	0.0096	0.0044	0.0018
Iron	mg/L	0.060																													

GCC Energy Hydrologic Monitoring Data

Wiltse Well																														
Year	2018				2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1	
Month	2	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	3	6	8	11	3	5	8	11	2	6	8	11	2	
Sample Date	2/22	5/16	8/9	11/8	2/28	5/23	8/19	11/11	2/17	5/13	8/12	12/15	2/24	5/21	8/11	11/3	3/1	6/1	8/10	11/26	3/28	5/19	8/18	11/29	2/23	6/21	8/20	11/25	2/11	
Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Purge Flow Rate	gpm	11.9	12.0	18.5	12.3	28.0	38.0	18.0	17.0	35.0	24.4	16.0	18.0	15.0	12.5	8.5	24.0	18.0	25.0	25.0	16.7	34.8	38.5	46.9	14.3	19.2	11.5	11.8	10.8	19.4
Total Purged	gal	2700	2890	2783	2747	3017	3200	3010	3058	3825	3495	3200	3030	2920	3000	1800	2800	2900	2950	3000	3000	4000	4000	3100	2612	3753	3100	3199	3861	3678
Depth to Water	ft bgs	3.35	3.93	4.13	3.78	2.40	0.05	2.47	2.68	0.43	1.60	3.18	5.65	3.64	3.70	4.55	4.10	4.70	3.70	2.82	1.60	0.30	0.20	3.35	3.10	0.80	3.30	2.65	0.30	0.95
Temperature	deg C	8.0	10.2	11.7	10.4	8.0	9.3	10.7	9.9	6.7	9.8	11.7	8.7	8.9	9.9	11.3	10.8	9.5	10.8	12.4	9.7	7.2	9.0	11.3	11.9	7.3	10.5	11.9	8.5	7.7
pH	SU	7.26	7.13	7.04	7.07	7.17	7.08	7.09	7.09	7.01	7.12	7.22	7.26	7.25	7.23	7.33	7.23	7.17	7.21	7.14	7.07	7.46	7.26	7.22	7.12	7.20	6.96	6.99	7.07	6.87
Specific Conductance	µS/cm	2232	2144	2072	2167	2170	2151	1964	1970	2171	2017	1450	1984	1739	1789	2012	2038	1965	2039	2285	2268	2518	2449	2332	2571	2651	2336	2542	2368	2490
Oxygen Reduction Potential	mV	14.3	29.9	-52.7	-18.8	22.7	-10.6	-23.7	51.9	49.33	71.9	72.2	73.7	6.9	31.2	41.5	50.5	-26.1	32.4	-76.3	41.4	34.4	39.9	5.5	45.5	-30.9	12.7	10.7	-51.8	41.8
Lab Analytical Results:																														
Hardness as CaCO3	mg/L	1090	1160	1130	1180	1150	1080	1080	1060	982	1060	1070	1130	1090	1070	1080	1080	1070	1070	1300	1200	1330	1340	1380	1320	1340	1320	1350	1280	1210
pH (Lab)	SU	7.70	8.35	7.22	7.42	7.38	7.35	7.11	7.09	7.12	7.09	7.29	6.86	7.27	6.98	7.25	7.52	7.25	7.15	7.39	7.42	7.17	NA*	7.03	7.45	7.18	7.1	7.15	7.11	7.12
Total Dissolved Solids (Lab)	mg/L	1740	1740	1750	1720	1710	1670	1520	1480	1600	1560	1580	1540	1550	1500	1580	1640	1520	1580	1850	1740	2120	1980	1920	2050	2080	1900	2070	1880	1900
Calcium	mg/L	211	216	221	230	226	214	214	208	191	206	206	215	208	199	206	209	208	206	255	232	261	269	273	251	255	259	265	252	229
Magnesium	mg/L	136	150	139	147	143	132	132	132	123	132	136	144	138	140	136	136	133	135	160	151	164	162	170	168	170	163	167	157	155
Sodium	mg/L	80.4	82.3	79.1	81.2	83.2	89.4	72.4	67.3	68.1	69.1	64	67.5	65.1	61.1	61.6	63.6	61	60.1	77.8	71.6	99	94.2	82.4	78.9	87.4	66.5	73.9	72.9	63.1
Potassium	mg/L	4.73	4.98	5.01	5.00	5.01	4.77	4.92	4.85	4.33	<5.00	4.48	4.54	<5.00	4.35	<5.00	4.41	4.42	4.41	4.92	4.2	5.43	5.12	5.74	5.31	4.52	4.98	5.29	4.85	< 5.00
Alkalinity, Total	mg/L	445	435	463	505	515	469	474	460	460	431	475	470	480	480	480	520	505	485	530	468	485	435	460	465	480	495	530	525	457
Alkalinity, Bicarbonate	mg/L	445	435	463	505	515	469	474	460	460	431	475	470	480	480	480	520	505	485	530	468	485	435	460	465	480	495	530	525	457
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L	66.7	60	57.2	57.5	67.2	67.8	49.9	48.2	57.7	51.8	58.1	57.9	54.8	52.3	49	52.4	49.8	45.7	57.5	52.2	79	73	59	62.2	70.5	57.2	59.1	48.6	48.3
Fluoride	mg/L	<0.500	<0.500	<0.500	0.298	0.324	0.306	<0.500	<0.500	<0.500	<0.500	0.304	0.292	0.276	0.28	<0.500	0.28	0.286	0.24	0.288	0.288	<0.500	<0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.356	0.338
Sulfate as SO4	mg/L	832	714	733	741	801	709	627	627	711	633	704	728	683	661	679	697	688	702	818	873	1070	1060	960	1020	1140	947	1040	930	1050
Total Organic Carbon (TOC)	mg/L	3.37	3.5	3.51	3.63	3.82	4.87	4.27	3.30	4.22	3.80	3.69	3.43	3.29	3.33	3.48	3.37	3.21	3.19	3.72	1.95	5.38	5.82	6.11	3.96	4.72	3.76	3.87	4.11	3.64
Nitrate/Nitrite as N	mg/L	2.26	2.48	2.26	1.99	1.95	0.651	0.896	1.31	1.05	0.865	1.25	1.48	1.82	1.49	2.06	1.87	1.69	1.53	1.16	1.01	0.469	0.619	2.32	2.85	2.09	0.469	1.53	1.1	1.47
Ammonia as N ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.100	<0.050	<0.050	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.250	<0.100	<0.050	<0.250	<0.050	<0.250	<0.100	<0.050	<0.100	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.250	< 0.150	< 0.100	< 0.050	< 0.050	< 0.250
Arsenic	mg/L	0.0009	0.0006	<0.0025	<0.001	<0.0010	0.0006	<0.0010	<0.0010	<0.0010	<0.0025	<0.0010	0.0005	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	0.0007	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0050	< 0.0020	< 0.0010	< 0.0020	< 0.0050
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0001	<0.0005	<0.0025	<0.0025	<0.001	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0010	< 0.0005	< 0.0010	< 0.0025
Copper	mg/L	0.0020	0.0019	0.0018	0.0030	0.0020	0.0021	0.0021	0.0012	0.0020	<0.0025	0.0013	0.0006	0.0028	<0.0025	<0.0025	0.0033	0.0031	0.0049	0.0038	0.0060	0.0119	0.0043	0.0035	< 0.0100	0.0090	0.0052	0.0190	0.0216	< 0.0050
Iron	mg/L	0.132	0.151	0.125	0.121	0.151	0.379	0.287	0.209	0.285	<0.250	<0.100	0.216	<0.250	0.304	<0.250	0.154	0.129	0.212	0.161	0.178	0.255	0.252	< 0.250						

GCC Energy Hydrologic Monitoring Data

MW-HGA-4																																				
Year	2018					2019					2020					2021					2022					2023					2024					2025
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	Q2	Q3	Q4	Q1						
Month	1	2	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	8	12	3	5	8	11	2	6	8	11	2						
Sample Date	1/3	2/22	5/15	8/9	11/8	2/28	5/23	8/16	11/13	2/13	5/13	8/26	12/14	2/22	5/19	8/12	11/12	2/28	5/9	8/9	12/16	3/28	5/18	8/18	11/29	2/26	6/20	8/20	11/24	2/8						
Lab Analysis (Y/N)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y						
Field Parameters:																																				
Purge Flow Rate	gpm	NM	0.10	1.50	2.00	1.00	1.12	1.00	1.00	0.25	1.00	0.25	0.25	0.13	0.25	0.13	0.25	0.25	0.25	0.25	0.50	0.08	0.23	0.10	0.05	0.08	0.08	0.06	0.05	0.08						
Total Purged	gal	19	21	21	19	21	24	22	21	21	22	21	20	21	21	20	22	21	21	22	0.5	0.4	0.5	0.25	0.2	0.2	0.2	0.2	0.2	0.2						
Depth to Water	ft bgs	1.37	0.55	2.60	3.98	1.90	0.49	0.42	1.95	1.15	0.38	2.36	3.80	1.75	0.90	2.91	3.95	2.33	0.95	2.02	1.61	0.92	0.47	1.03	4.05	0.85	0.35	3.05	0.65	1.29	0.85					
Temperature	deg C	8.8	7.8	8.1	8.7	8.8	7.6	7.7	8.5	8.8	7.9	7.4	9.2	8.6	7.8	8.2	8.9	9.2	8.3	8.1	9.2	9.1	8.2	10.0	11.5	8.3	8.8	10.0	13.5	8.9	9.0					
pH	SU	7.33	7.30	7.18	7.27	7.05	7.15	7.18	7.16	7.09	7.12	7.23	7.28	7.31	7.29	7.34	7.37	7.31	7.25	7.28	7.19	6.93	7.62	7.45	7.53	7.49	7.49	7.26	7.29	7.32	7.21					
Specific Conductance	µS/cm	1141	1154	1098	1057	1167	1183	1102	1083	1127	1122	1093	1022	1158	975	1093	1108	1160	1197	1102	1198	970	1003	955	908	993	970	917	909	955	1005					
Oxygen Reduction Potential	mV	-96.6	-157.3	-130.9	-230.8	-190.9	-128.3	-140.7	-130.9	-104.9	-107.8	-86.7	-61.1	-64.7	-67.9	-116.8	-104.9	-105.8	-185.5	-113.0	-273.0	-198.3	-129.2	-125.2	-165.3	-212.7	-216.3	-155.2	-167.8	-219.3	-156.2					
Lab Analytical Results:																																				
Hardness as CaCO3	mg/L		561	555	524	625	613	563	544	624	563	528	571	612	630	582	515	627	598	574	653	328	423	448	467	424	410	430	438	446	432					
pH (Lab)	SU		7.58	8.15	7.33	7.12	7.2	8.17	6.95	6.88	6.78	6.89	7.07	6.95	7.38	6.89	7.05	7.03	7.22	7.26	7.2	7.63	7.08	7.37	7.33	7.41	7.39	7.38	7.34	7.36	7.31					
Total Dissolved Solids (Lab)	mg/L		740	730	695	770	795	695	695	715	705	685	700	665	685	680	735	790	790	785	745	400	555	545	525	555	570	525	575	535	505					
Calcium	mg/L		110	108	102	124	122	110	106	123	112	101	111	122	126	114	98.7	125	119	110	130	65.8	78.5	84.9	88.1	79.3	75.3	81.1	81.7	83.6	81.2					
Magnesium	mg/L		69.3	69	65.4	76.5	74.7	70.3	67.9	76.8	68.9	67	71.7	74.9	76.8	72	65.2	76.6	72.9	72.5	79.9	39.7	55.1	57.2	59.9	54.9	54	55.3	56.8	57.7	55.6					
Sodium	mg/L		26.5	30.4	29.9	27.6	27	28.6	28.3	31.9	27.9	30.3	30.5	26.8	28.4	27.4	26.4	23.1	23.9	28.1	27.1	14.9	36.9	39.4	41.5	38	37.3	38.1	38.5	40.4	38.6					
Potassium	mg/L		2.17	2.22	2.33	2.13	2.16	2	2.1	2.38	2.05	2.06	2.08	2.11	2.24	2.03	<5.00	<5.00	1.82	2.02	2.13	3.07	2.16	2.4	2.56	2.21	2.14	2.17	2.22	2.24	2.21					
Alkalinity, Total	mg/L		460	425	410	460	455	445	455	432	435	416	485	457	475	465	470	580	470	435	500	245	460	420	361	370	390	410	425	410	415					
Alkalinity, Bicarbonate	mg/L		460	425	410	460	455	445	455	432	435	416	485	457	475	465	470	580	470	435	500	245	460	420	361	370	390	410	425	410	415					
Alkalinity, Carbonate	mg/L		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0					
Alkalinity, Hydroxide	mg/L		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0					
Chloride	mg/L		8.43	7.57	6.47	9.40	10.50	8.06	8.44	9.46	8.39	7.64	8.78	10.10	9.65	9.41	11.10	13.90	12.00	10.20	14.60	28.70	3.40	3.41	3.62	3.56	3.63	3.72	3.58	3.45	3.55					
Fluoride	mg/L		0.496	0.459	0.482	0.487	0.484	0.456	0.443	0.52	0.447	0.449	0.431	0.473	0.424	0.434	<0.500	0.42	0.472	0.413	0.45	0.231	0.397	0.357	0.374	0.331	0.342	0.403	0.403	0.408	0.469					
Sulfate as SO4	mg/L		222	190	169	201	221	186	212	190	193	181	179	187	191	184	194	199	216	183	215	99.5	150	161	158	143	142	146	145	151	155					
Total Organic Carbon (TOC)	mg/L		4.56	4.57	4.30	4.72	4.82	4.45	4.58	4.35	4.80	4.30	4.56	4.67	4.31	4.36	4.55	4.84	5.47	4.21	4.64	0.96	4.32	6.87	4.55	3.84	4.98	4.00	4.52	4.12	4.72					
Nitrate/Nitrite as N	mg/L		<0.020	<0.020	<0.020	<0.020	0.173	<0.020	<0.020	<0.020	<0.020	<0.100	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.073	<0.020	<5.00	<0.100	<0.020	<0.020	0.423	<0.020	<0.100	<0.020					
Ammonia as N ^	mg/L		NA	NA	NA	NA	NA	NA	NA	0.528	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Ortho-Phosphate as P ^	mg/L		NA	NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Aluminum	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.250	<0.250	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	<0.100	<0.100	<0.050	<0.100	<0.050	<0.050	<0.050					
Arsenic	mg/L		0.0037	0.0034	0.0036	0.0032	0.0031	0.0029	0.0028	0.0033	0.0022	0.0025	0.0026	0.0038	0.0036	0.0033	0.0034	0.0027	0.0036	0.0031	0.0034	0.0005	0.0041	0.004	0.004	0.0039	0.004	0.0027	0.0039	0.0033	0.0031					
Cadmium	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0005	<0.0010	<0.0005	<0.0010	<0.0005	<0.0005					
Copper	mg/L		0.0006	0.0008	0.0004	0.0008	<0.0010	0.0003	0.0004	0.0002	0.0005	<0.0010	<0.0010	<0.0005	0.0006	0.0007	0.0009	<0.0025	<0.0005	0.001	0.0005	0.0068	<0.0010	0.0027	<0.0010	<0.0040	0.0018	<0.0020	0.0013	0.0023	0.0012					
Iron	mg/L		7.6	7.92	8.55	8.44	8.35	7.98	8.38	9.76	8.59	8.22	8.95	9.31	9.6	9.29	8.52	8.44	8.25	9.41	9.73	<0.05	9.76	10.5	9.39	9.53	9.07	9.6	10.4	9.06	9.53					
Lead	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050</																									

GCC Energy Hydrologic Monitoring Data

MW-1-A																																			
Year	2018									2019				2020				2021				2022				2023				2024				2025	
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	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	6	8	11	1	
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	6/19	8/6	11/18	1/25	
Lab Analysis (Y/N)	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																			
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	***	0.12	0.10	0.09	0.12	0.12	0.06	0.25	0.25	0.25	0.13	0.13	0.13	0.13	0.25	0.25	0.25	0.25	0.08	0.10	0.10	0.18	0.10	0.11	0.10	0.09	0.17		
Total Purged	gal	1.5	2.0	1.5	1.0	1.3		1.5	1.5	1.6	1.0	1.5	1.1	1.5	1.0	1.0	1.0	1.3	1.0	2.0	1.0	1.3	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Depth to Water	ft bgs	216.21	216.47	216.47	216.54	216.54		216.63	216.63	216.65	216.55	216.43	216.33	216.13	216.05	215.85	215.56	215.80	215.60	215.53	215.71	215.65	215.70	215.55	216.15	215.65	215.70	215.30	215.25	215.15	215.55	215.23	215.22		
Temperature	deg C	9.5	9.0	8.7	9.6	9.2		9.9	10.0	8.9	7.5	10.3	9.6	9.7	8.1	9.1	9.6	9.4	8.4	9.6	10.1	9.2	9.5	10.2	10.5	9.0	8.6	10.8	11.0	9.0	7.8	10.4	10.0	8.8	8.1
pH	SU	7.19	7.37	7.28	6.80	6.97		6.99	7.05	7.01	7.13	6.96	7.05	7.00	7.13	7.18	7.22	7.24	7.19	7.30	7.35	7.17	7.22	7.31	7.29	6.82	7.34	7.49	7.37	7.54	7.60	6.97	7.14	7.05	7.15
Specific Conductance	µS/cm	1700	1723	1735	1647	1761		1734	1815	1781	1776	1681	1757	1737	1797	1855	1664	1670	1550	1647	1691	1792	1707	1717	1770	1733	1780	1676	1745	1738	1754	1656	1722	1710	1785
Oxygen Reduction Potential	mV	-44.6	-52.8	-37.5	142.4	0.4		-26.4	-33.2	101.4	-11.8	25.4	-18.7	3.6	12.7	4.2	-20.1	111.4	23.8	-13.4	-6.5	38.2	-110.5	-51.9	-159.7	-29.9	4.8	93.8	4.0	-32.1	-63.1	-27.3	-59.6	-64.5	-11.5
Lab Analytical Results:																																			
Hardness as CaCO3	mg/L		159			156			160	174	159	153	148	150	159	165	161	168	168	150	158	157	152	149	146	172	174	158	150	166	160	171	161	154	163
pH (Lab)	SU		7.22			7.45			7.17	7.27	7.13	7.03	7.14	6.92	7.19	6.91	7.23	7.17	7.22	7.13	7.1	7.05	7.3	7.15	7.36	7.37	7.01	7.2	7.38	7.39	6.95	7.24	7.32	7.27	7.34
Total Dissolved Solids (Lab)	mg/L		1100			1150			1040	1130	1160	1150	1150	1140	1190	1150	1150	1170	1250	1150	1190	1150	1140	1140	1150	1050	1150	1180	1200	1110	1120	1110	1100	1060	1100
Calcium	mg/L		30.5			29.7			30.9	34	31.2	29.8	27.9	29	30.9	31.6	30.6	32.8	32.1	28.3	29.9	30	28.5	28	27.4	32.6	33.2	29.9	27.7	31.2	30.4	33	30.6	28.8	30.8
Magnesium	mg/L		20.1			19.9			20.1	21.5	19.7	19.1	18.9	18.8	19.9	20.8	20.6	20.9	21.4	19.2	20.3	20	19.7	19.2	18.7	21.9	22	20.2	19.6	21.3	20.3	21.5	20.6	19.9	20.9
Sodium	mg/L		348			327			333	358	357	319	348	333	337	349	348	353	357	314	333	340	321	319	318	361	351	345	333	324	336	358	327	341	331
Potassium	mg/L		<5.00			2.12			2.23	2.47	2.34	2.18	2.29	2.12	2.13	<5.00	2.29	<3.00	<5.00	2.18	<5.00	2.34	2.23	2.01	2.12	2.11	<5.00	2.15	< 5.00	< 2.00	2.14	2.22	2.35	2.15	< 5.00
Alkalinity, Total	mg/L		415			353			385	395	375	355	368	420	360	340	325	366	400	400	370	440	405	425	410	361	372	391	368	375	370	385	410	420	425
Alkalinity, Bicarbonate	mg/L		415			353			385	395	375	355	368	420	360	340	325	366	400	400	370	440	405	425	410	361	372	391	368	375	370	385	410	420	425
Alkalinity, Carbonate	mg/L		<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L		<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L		2.19			<5.00			2.12	2.2	2.74	2.33	2.72	2.66	2.74	2.71	2.74	2.88	2.73	2.34	2.78	<5.00	2.8	2.46	2.59	2.4	2.49	2.71	2.55	2.5	2.57	2.59	< 5.00	2.52	< 5.00
Fluoride	mg/L		0.24			<0.5			0.26	0.24	0.266	0.242	0.252	0.246	0.234	0.228	0.24	0.264	0.212	0.223	0.24	<0.5	<0.200	0.25	0.254	0.246	0.262	0.198	0.224	< 0.200	0.25	0.248	< 0.500	0.29	< 0.500
Sulfate as SO4	mg/L		518			522			515	511	508	494	537	495	506	532	510	508	553	531	507	458	503	516	532	517	562	607	587	510	557	552	493	477	537
Total Organic Carbon (TOC)	mg/L		1.51			1.54			1.60	1.75	1.61	1.67	1.59	1.50	1.55	1.55	1.49	1.57	1.58	1.49	1.57	1.51	1.56	1.41	1.39	1.41	1.63	1.76	1.55	1.55	1.66	1.53	1.49	1.61	1.83
Nitrate/Nitrite as N	mg/L		<0.020			<0.020			<0.020	0.028	<0.020	<0.020	<0.020	0.02	<0.020	0.046	<0.020	<0.020	<0.020	<0.020	0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.722	< 0.020	< 0.020
Ammonia as N ^	mg/L		NA			NA			NA	NA	NA	NA	NA	0.387	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L		NA			NA			NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L		<0.250			<0.050			<0.050	<0.100	<0.100	<0.050	<0.050	<0.050	<0.100	<0.250	<0.050	<0.050	<0.250	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.100	< 0.100	< 0.050	< 0.050	< 0.250
Arsenic	mg/L		<0.0025			<0.0005			<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	<0.0025	<0.0005	<0.0015	<0.0015	<0.0025	<0.001	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0020	< 0.0020	< 0.0010	< 0.0010	< 0.0050
Cadmium	mg/L		<0.0005			<0.0001			<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0001	<0.0003	<0.0015	<0.0025	<0.001	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0025	
Copper	mg/L		0.0066			0.0041			0.0048	0.0048	0.0075	0.0064	0.004	0.0147	0.0034	0.0012	0.004	0.0024	0.0026	0.0059	0.0068	0.0086	0.0145	0.0112	0.0096	0.0078	0.0121	0.0193	0.0046	0.0079	0.013	0.0149	0.0142		

GCC Energy Hydrologic Monitoring Data

MW-1-MI																																		
Year	2018									2019				2020				2021				2022				2023				2024				2025
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	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	6	8	11	1
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	6/19	8/6	11/18	1/25
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	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	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																																	
pH (Lab)	SU																																	
Total Dissolved Solids (Lab)	mg/L																																	
Calcium	mg/L																																	
Magnesium	mg/L																																	
Sodium	mg/L																																	
Potassium	mg/L																																	
Alkalinity, Total	mg/L																																	
Alkalinity, Bicarbonate	mg/L																																	
Alkalinity, Carbonate	mg/L																																	
Alkalinity, Hydroxide	mg/L																																	
Chloride	mg/L																																	
Fluoride	mg/L																																	
Sulfate as SO4	mg/L																																	
Total Organic Carbon (TOC)	mg/L																																	
Nitrate/Nitrite as N	mg/L																																	
Aluminum	mg/L																																	
Arsenic	mg/L																																	
Cadmium	mg/L																																	
Copper	mg/L																																	
Iron	mg/L																																	
Lead	mg/L																																	
Manganese	mg/L																																	
Mercury (dissolved)	mg/L																																	
Mercury (dissolved low-level)	ng/L																																	
Molybdenum	mg/L																																	
Selenium	mg/L																																	
Silica (SiO2)	mg/L																																	
Silicon	mg/L																																	
Uranium	mg/L																																	
Zinc	mg/L																																	

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/cmicrosiemens 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-1-C																																			
Year	2018									2019				2020				2021				2022				2023				2024				2025	
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	6	8	11	1	
Sample Date	1/2	2/9	3/22	4/11	5/10	--	7/23	8/7	11/18	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	3/19	6/14	8/16	11/14	3/17	6/19	8/6	11/18	1/25	
Lab Analysis (Y/N)	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N		
Field Parameters:																																			
Purge Flow Rate	gpm	MM	0.1	NM	0.1	0.1	***	0.05	0.1	0.10	0.06	0.02	0.03	0.01	0.01	0.10	0.05	0.05	0.05	0.05	0.01	0.13	0.13	0.13	0.13	dry	dry	dry	dry	dry	dry	dry	dry	dry	
Total Purged	gal	1	1	1	1	1.25		1	1	1.10	1.00	1.10	1.00	1.00	1.00	0.75	0.80	1.00	1.00	2.00	1.00	1.25	1.00	1.00	1.00										
Depth to Water	ft bgs	216.38	216.38	216.37	216.35	216.41		216.41	216.05	216.04	216.41	216.20	216.02	216.04	216.12	216.10	216.41	216.66	216.66	216.66	216.66	216.66	216.66	216.66	216.04										
Temperature	deg C	9.7	9.6	6.7	9.2	10.5		20.0	14.1	9.7	5.4	9.8	10.4	11.1	6.4	9.5	11.2	9.7	7.0	10.7	12.1	10.1	7.7	12.3	12.7										7.4
pH	SU	7.11	7.19	7.32	7.03	7.05		6.91	6.97	6.93	7.09	6.80	6.65	6.70	6.79	6.85	6.93	6.99	7.40	7.18	7.16	7.15	7.12	7.20	7.23										6.67
Specific Conductance	µS/cm	2778	2738	2751	2700	2749		2693	2675	2751	2621	3139	3172	3080	3005	3002	2653	2709	2410	2249	2290	2554	2223	2362	2278	2104									
Oxygen Reduction Potential	mV	6.2	-4.3	-29.6	-15.3	-42.3		-41.8	-32.5	-110.0	-23.4	27.6	10.5	51.0	50.7	-57.7	21.8	49.6	57.5	-16.8	0.0	-7.0	-92.9	-49.3	-191.8	-77.0									
Lab Analytical Results:																																			
Hardness as CaCO3	mg/L		1190			1130			1120	1180	1010	1820	1840	1700	1600	1590	1400	1420	1320	953	975	920	750	766	638	640									
pH (Lab)	SU		7.22			7.2			7.20	7.02	7.24	6.93	6.67	6.63	6.80	6.62	6.83	7.12	7.08	6.86	7.04	6.89	7.22	7.06	7.40	6.98									
Total Dissolved Solids (Lab)	mg/L		2360			2340			2170	2200	1960	2880	2890	2750	2610	2460	2420	2450	2330	1910	1850	1840	1680	1770	1640	1490									
Calcium	mg/L		219			203			203	219	188	340	342	318	301	294	248	265	241	175	178	168	142	137	113	117									
Magnesium	mg/L		156			150			148	154	131	237	240	219	207	207	189	183	173	126	129	122	95.7	103	86.6	84.4									
Sodium	mg/L		260			239			239	255	265	146	119	119	143	155	168	194	206	196	214	234	229	240	261	266									
Potassium	mg/L		<5.00			3.07			3.04	2.65	3.13	<5.00	<5.00	<5.00	3.05	<5.00	2.82	<5.00	<5.00	2.68	<5.00	<3.00	2.68	2.48	<5.00	2.27									
Alkalinity, Total	mg/L		570			580			560	410	525	530	518	505	515	490	445	520	580	480	485	640	510	530	570	454									
Alkalinity, Bicarbonate	mg/L		570			580			560	410	525	530	518	505	515	490	445	520	580	480	485	640	510	530	570	454									
Alkalinity, Carbonate	mg/L		<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0										
Alkalinity, Hydroxide	mg/L		<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0										
Chloride	mg/L		7.78			7.75			5.97	6.22	6.36	10.2	9.31	8.78	8.54	8.20	8.15	7.14	7.13	5.3	5.04	7.12	4.87	5.55	5.59	4.32									
Fluoride	mg/L		1.03			0.96			0.888	0.924	0.975	0.67	0.525	0.565	0.615	0.695	0.705	0.750	0.804	0.654	0.716	0.755	0.712	1.04	1.24	0.916									
Sulfate as SO4	mg/L		1160			1210			1090	1080	1070	1630	1730	1520	1400	1370	1280	1180	1150	940	872	886	805	908	821	728									
Total Organic Carbon (TOC)	mg/L		2.21			2.2			2.35	2.37	2.32	2.62	2.52	2.30	2.30	2.32	2.2	2.13	2.26	1.92	1.93	1.91	1.79	1.80	1.74	1.77									
Nitrate/Nitrite as N	mg/L		<0.020			<0.020			0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020										
Ammonia as N ^	mg/L		NA			NA			NA	NA	NA	NA	NA	0.140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
Ortho-Phosphate as P ^	mg/L		NA			NA			NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
Aluminum	mg/L		<0.250			<0.05			<0.05	<0.100	<0.100	<0.250	<0.250	<0.250	<0.150	<0.250	<0.050	<0.050	<0.250	<0.100	<0.250	<0.150	<0.050	<0.100	<0.250	<0.100									
Arsenic	mg/L		<0.0025			0.0051			0.0052	0.0035	0.0038	0.0034	<0.0025	<0.0025	<0.0025	0.0019	<0.0025	<0.0005	<0.0025	<0.0025	<0.0025	<0.0010	0.0009	0.0024	0.0028	<0.0010									
Cadmium	mg/L		<0.0005			<0.0001			<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0005	<0.0005	<0.0003	<0.0005	<0.0001	<0.0005	<0.0025	<0.0025	<0.0010	<0.0005	<0.001	<0.0025	<0.0010									
Copper	mg/L		0.0052			0.003			0.0049	0.0033	0.0054	0.0057	0.0014	0.0096	<0.0025	<0.0015	<0.0025	<0.0005	<0.0025	0.0042	0.0043	0.0064	0.0093	0.0086	0.0104	0.0120									
Iron	mg/L		<0.250			0.643			1.01	1.12	0.988	2.3	0.819	0.543	0.570	0.606	0.619	0.855	0.769	0.552	0.573	0.724	0.630	0.671	0.679	<0.100									
Lead	mg/L		<0.0025			<0.0005			<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0025	<0.0025	<0.0015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010									
Manganese	mg/L		0.0989			0.153			0.140	0.106	0.0807	0.075	0.0562	0.0512	0.0537	0.0473	0.0445	0.0496	0.0482	0.0419	0.0383	0.0346	0.0362	0.0342	0.0304	0.0295									
Mercury (dissolved)	mg/L		<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002										
Mercury (dissolved low-level)	ng/L																							<5.00	<100	<100									
Molybdenum	mg/L		<0.0025			0.0006			<0.0025	<0.0005	<0.0010	<0.0005	<0.0010	<0.0025	<0.0025	<0.0015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010									
Selenium	mg/L		<0.0050			<0.001			<0.0050	0.0011	<0.0020	0.0016	0.0023	<0.0050	<0.0050	<0.0030	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020	<0.005	<0.002									
Silica (SiO2)	mg/L		14.8			15.2			14.7	1																									

GCC Energy Hydrologic Monitoring Data

MW-2-A																																	
Year		2018						2019				2020				2021				2022				2023				2024				2025	
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	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	6	8	11	1
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	6/19	8/6	11/18	1/25
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	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	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																																
pH (Lab)	SU																																
Total Dissolved Solids (Lab)	mg/L																																
Calcium	mg/L																																
Magnesium	mg/L																																
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Alkalinity, Bicarbonate	mg/L																																
Alkalinity, Carbonate	mg/L																																
Alkalinity, Hydroxide	mg/L																																
Chloride	mg/L																																
Fluoride	mg/L																																
Sulfate as SO4	mg/L																																
Total Organic Carbon (TOC)	mg/L																																
Nitrate/Nitrite as N	mg/L																																
Aluminum	mg/L																																
Arsenic	mg/L																																
Cadmium	mg/L																																
Copper	mg/L																																
Iron	mg/L																																
Lead	mg/L																																
Manganese	mg/L																																
Mercury (dissolved)	mg/L																																
Mercury (dissolved low-level)	ng/L																																
Molybdenum	mg/L																																
Selenium	mg/L																																
Silica (SiO2)	mg/L																																
Silicon	mg/L																																
Uranium	mg/L																																
Zinc	mg/L																																
Notes & Definitions:																																	
Historical data prior to 2018 can be found in earlier posted versions of this table 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

[illegible]

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 CaCO ₃ .
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	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.
NM	not measured (field)	
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

MW-2-C																																
Year	2018							2019				2020				2021				2022				2023				2024				2025
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	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	6	8	11	1
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	6/19	8/6	11/18	1/25
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	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	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																															
pH (Lab)	SU																															
Total Dissolved Solids (Lab)	mg/L																															
Calcium	mg/L																															
Magnesium	mg/L																															
Sodium	mg/L																															
Potassium	mg/L																															
Alkalinity, Total	mg/L																															
Alkalinity, Bicarbonate	mg/L																															
Alkalinity, Carbonate	mg/L																															
Alkalinity, Hydroxide	mg/L																															
Chloride	mg/L																															
Fluoride	mg/L																															
Sulfate as SO4	mg/L																															
Total Organic Carbon (TOC)	mg/L																															
Nitrate/Nitrite as N	mg/L																															
Aluminum	mg/L																															
Arsenic	mg/L																															
Cadmium	mg/L																															
Copper	mg/L																															
Iron	mg/L																															
Lead	mg/L																															
Manganese	mg/L																															
Mercury (dissolved)	mg/L																															
Mercury (dissolved low-level)	ng/L																															
Molybdenum	mg/L																															
Selenium	mg/L																															
Silica (SiO2)	mg/L																															
Silicon	mg/L																															
Uranium	mg/L																															
Zinc	mg/L																															
Notes & Definitions:																																
Historical data prior to 2018 can be found in earlier posted versions of this table																																
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																															

GCC Energy Hydrologic Monitoring Data

MW-3-A																																		
Year		2018						2019				2020				2021				2022				2023				2024				2025		
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	Q2	Q3	Q4	Q1		
Month		1	2	3	4	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	
Sample Date		1/3	2/21	3/23	4/12	5/7	8/8	11/6	2/27	5/21	8/14	11/12	2/4	5/26	8/31	12/1	2/10	5/18	8/10	11/9	2/24	5/11	9/6	11/18	3/16	6/15	8/8	11/16	2/21	6/20	8/13	11/24	2/7	
Lab Analysis (Y/N)		N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.10	0.12	0.15	0.06	0.25	0.12	0.13	0.13	0.13	0.05	0.13	0.15	0.13	0.25	0.25	0.13	0.04	0.13	0.11	0.15	0.15	0.22	0.31	0.33	0.17	0.20	
Total Purged	gal	1.3	1.5	1.5	1.0	1.3	1.0	1.1	1.5	1.3	1.3	1.5	1.1	1.2	1.5	1.3	1.3	1.5	1.5	1.5	1.5	2.0	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Depth to Water	ft bgs	298.37	298.04	297.86	297.76	298.17	298.55	298.27	297.85	296.79	297.27	297.33	296.47	296.87	297.21	297.02	296.97	296.72	297.47	297.46	296.67	296.74	296.96	296.62	295.59	295.32	295.97	295.81	295.22	295.07	295.12	294.87	294.57	
Temperature	deg C	11.8	11.7	12.2	11.9	13.5	13.5	11.9	11.8	12.1	NM	13.1	11.5	13.2	13.1	11.9	12.1	12.4	13.6	12.2	11.4	13.0	15.6	12.2	11.8	12.7	15.2	11.8	11.8	14.0	13.3	11.7	12.3	
pH	SU	8.54	8.52	8.61	8.21	8.38	8.30	8.31	8.28	8.31	8.13	8.51	8.11	8.26	8.23	8.39	8.53	8.46	8.42	8.47	8.35	8.21	8.12	8.66	8.06	7.97	8.63	8.50	8.48	8.37	8.48	8.58	8.60	
Specific Conductance	µS/cm	2528	2506	2458	2415	2253	2336	2391	2355	2309	NM	2204	2211	2249	2112	2192	1930	1525	2091	2127	2121	2055	2066	2057	2094	2050	1374	903	937	560	748	899	1670	
Oxygen Reduction Potential	mV	-120.3	-125.2	-181.6	-135.8	-138.2	-155.8	-164.6	-145.9	-132.3	-138.6	-120.1	-65.7	-156.8	-98.8	-89.3	-101.3	-157.1	-149.0	-156.8	-221.2	-124.2	-269.9	-199.6	-43.5	-91.0	-162.4	-256.7	-162.8	-151.5	-172.6	-267.5	-198.5	
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L		11.5			11.2	12.6	14.1	11.9	10.7	10.4	11.1	10.8	10.3	11.1	9.41	10.5	8.14	8.89	8.68	8.56	9.01	9.33	7.59	8.38	8.76	5.89	9.3	8.16	8.68	9.42	8.11	6.88	
pH (Lab)	SU		8.45			8.36	8.37	8.24	8.28	8.29	8.27	8.39	8.09	7.68	8.16	8.13	8.13	8.22	8.21	8.19	8.17	8.28	8.09	8.15	7.63	7.97	8.4	8.37	8.2	8.44	8.5	8.23	8.42	
Total Dissolved Solids (Lab)	mg/L		1680			1670	1600	1540	1500	1530	1520	1510	1500	1460	1380	1460	1410	1350	1420	1360	1220	1400	1320	1280	1390	1310	1300	1290	1320	1280	1340	1190	1260	
Calcium	mg/L		3.33			3.2	3.71	4.15	3.55	3.16	3.08	3.34	3.14	3.07	3.02	2.83	3.07	2.48	2.59	2.53	2.42	2.63	2.59	2.21	2.42	2.51	2.36	2.57	2.25	2.48	2.61	2.26	1.9	
Magnesium	mg/L		0.776			0.774	0.811	0.913	0.739	0.692	0.655	0.68	0.723	0.645	0.866	0.568	0.698	0.475	0.586	0.577	0.61	0.594	0.694	0.503	0.57	0.603	< 0.500	0.702	0.619	0.605	0.705	0.595	0.517	
Sodium	mg/L		562			542	562	605	543	525	553	528	520	507	510	505	536	471	462	448	462	473	476	420	440	456	450	459	436	458	454	455	454	
Potassium	mg/L		<2.00			1.8	<2.00	2.17	<2.00	1.92	<2.00	<5.00	<3.00	<5.00	<5.00	<5.00	<5.00	<3.00	<5.00	<6.00	<2.00	1.34	<2.00	<2.00	<5.00	<5.00	<5.00	< 3.00	< 3.00	< 3.00	< 2.00	1.36	1.34	< 5.00
Alkalinity, Total	mg/L		430			480	480	475	540	450	459	420	460	430	440	470	520	530	465	485	495	560	500	400	454	458	447	465	465	510	580	520	525	
Alkalinity, Bicarbonate	mg/L		360			480	420	385	330	430	423	420	460	400	440	450	520	530	465	435	455	480	500	400	454	458	415	455	465	510	580	520	485	
Alkalinity, Carbonate	mg/L		70			<10.0	60	90	210	20	36	<10.0	<10.0	30	<10.0	20	<10.0	<10.0	<10.0	50	80	<10.0	<10.0	<10.0	<10.0	<10.0	32	< 10.0	< 10.0	< 10.0	< 10.0	40		
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Chloride	mg/L		16.4			16.1	15.1	16	15.2	15	15	14.7	13.9	13.9	13.5	14	13.5	14	14.1	14.6	14.2	14.2	15.9	15.4	16	16.1	16.9	16.2	17.3	17.5	18.2	17.6	20.1	
Fluoride	mg/L		<0.500			<0.5	NA	0.383	0.406	0.404	0.396	<0.500	0.37	0.374	0.366	0.372	0.336	0.352	0.366	0.314	0.356	0.324	0.362	<0.500	<0.500	0.316	< 0.500	0.284	< 0.500	0.368	0.39	0.388	0.446	
Sulfate as SO4	mg/L		812			756	706	682	716	699	724	633	637	656	624	644	600	601	599	515	584	555	557	565	571	573	560	552	545	545	525	520	512	
Total Organic Carbon (TOC)	mg/L		5.32			4.70	4.62	4.52	4.15	4.10	3.84	3.81	3.42	3.48	3.39	3.15	3.16	3.18	3.01	3.02	2.96	2.84	3.02	1.54	3.04	<2.5	4.44	2.93	3.25	2.96	3.93	2.94	2.89	
Nitrate/Nitrite as N	mg/L		<0.020			<0.020	<0.020	<0.020	0.266	<0.020	<0.020	<0.020	0.024	0.026	0.039	0.032	<0.020	0.024	<0.020	<0.020	0.022	0.03	<0.020	<0.020	0.117	0.061	< 0.020	< 0.020	< 0.020	< 0.020	0.060	< 0.020	< 0.020	
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.354	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.073	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aluminum	mg/L		<0.100			<0.050	<0.050	<0.100	<0.100	<0.050	<0.100	<0.250	<0.150	<0.250	<0.250	<0.250	<0.250	<0.150	<0.250	<0.100	<0.050	<0.100	<0.100	<0.250	<0.250	<0.250	< 0.250	< 0.150	< 0.150	< 0.100	< 0.050	< 0.050	< 0.250	
Arsenic	mg/L		<0.0025			0.0006	<0.0025	<0.0010	<0.0010	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	0.0026	0.0006	0.001	0.0018	0.0009	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0020	< 0.0020	< 0.0010	< 0.0010	0.001	
Cadmium	mg/L		<0.0005			<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0005	
Copper	mg/L		0.0236			0.0063	0.0117	0.0086	0.0137	0.0078	0.0067	0.0039	0.0037	0.0021	0.0051	0.0055	0.0037	0.0157	0.0156	0.0113	0.0088	0.0114	0.0189	0.0106	0.0155	0.0196	0.0065	0.0096	0.0159	0.018	0.0255	0.0203	0.0176	
Iron	mg/L		<0.100			<0.05	<0.05	<0.100	<0.100	<0.050	<0.100	<0.250	<0.150	<0.250	<0.250	<0.250	<0.250	<0.150	<0.250	<0.100	<0.050	<0.100	<0.250	<0.250	<0.250	<0.250	< 0.250	< 0.150	< 0.150	< 0.100	< 0.050	< 0.050	< 0.250	
Lead	mg/L		<0.0025			<0.0005	<0.0005	<0.0010	<0.0010	<0.0025	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.001	<0.0010	<0.0010	<0.0005	<0.001	<0.002	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0010	< 0.0005	< 0.0005	< 0.0010	
Manganese	mg/L		0.0232			0.018	0.0222	0.0187	0.0172	0.0185	0.0166	0.014	0.0162	0.0136	0.012	0.0125	0.0128	0.0121	0.0096	0.0101	0.0113	0.01	0.0097	0.0108	0.0119	0.0096	0.0098	0.0091	< 0.0010	0.0091	0.0076	0.0069	0.0071	
Mercury (dissolved)	mg/L		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0050	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002														
Mercury (dissolved low-level)	ng/L																				<5.00	<100	<100		<100	<100	< 100	< 100	< 100	< 100	< 100	< 100		
Molybdenum	mg/L		0.0065			0.0046	0.0043	0.0033	0.003	0.003	0.0018	0.0027	0.0022	0.0015	<0.0025	<0.0025	<0.0025	0.0015	0.0013	<0.001	0.0012	<0.001	0.0017	0.0012	<0.0025	<0.0025	< 0.0025	< 0.0025	0.0018	0.0016	0.0009	0.0024	0.0009	
Selenium	mg/L		<0.0050			0.0109	<0.0050	0.0028	0.0039	<0.005	0.002	<0.0020	<0.0020	0.0033	0.0086	<0.0050	0.129	0.0276	0.0167	0.0855	0.0162	0.0029	0.0106	<0.0020	0.0236	0.0174	< 0.0050	0.0094	0.0063</					

Notes & Definitions.

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

- ^ one-time analysis

Y/N yes or no

gpm gallons per minute

deg C degrees Celsius

SU standard pH units

$\mu\text{S}/\text{cm}$ microsiemens per centimeter

mV milliv

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 CaCO_3 .
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-3-MI																																	
Year	2018							2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4		
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	
Sample Date	1/3	2/21	3/23	4/12	5/7	8/8	11/6	2/27	5/21	8/21	11/12	2/4	5/26	8/31	12/1	2/10	5/18	8/10	11/9	2/24	5/11	9/6	11/18	3/16	6/15	8/8	11/16	2/21	6/20	8/13	11/24	2/7	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																	
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.12	0.12	0.06	0.25	0.50	0.25	0.13	0.13	0.10	0.13	0.13	0.25	0.25	0.25	0.15	0.10	0.11	0.12	0.26	0.33	0.09	0.17	0.17	0.17	0.19	
Total Purged	gal	1.3	1.5	1.5	1.0	1.3	1.0	1.1	1.5	1.3	2.0	1.5	1.3	1.8	1.3	1.3	1.5	1.5	1.3	1.5	2.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.3	1.1	1.1	1.1	
Depth to Water	ft bgs	240.73	240.55	240.65	240.84	241.04	241.97	242.13	242.15	242.32	246.55	243.07	242.85	243.05	243.6	243.9	243.93	244.25	244.28	244.15	242.90	244.05	244.65	244.3	243.83	249.55	242.86	242.65	242.35	242.40	242.35	242.9	242.27
Temperature	deg C	11.9	11.3	11.9	11.8	12.6	13.0	12.4	11.6	11.3	13.2	12.3	11.6	12.6	12.8	11.7	11.5	12.8	13.0	11.9	11.4	13.2	13.7	11.6	11.7	12.5	13.1	12.3	11.7	13.1	12.5	11.6	11.9
pH	SU	8.84	8.83	8.84	8.51	8.48	8.49	8.46	8.51	8.55	8.71	8.75	8.71	8.92	9.01	9.09	9.03	9.06	9.13	9.11	9.07	9.04	9.03	8.81	9.06	9.03	9.00	8.89	8.97	8.80	8.73	8.89	8.91
Specific Conductance	µS/cm	1790	1810	1771	1772	1727	1709	1746	1753	1739	1691	1739	1758	1737	1560	1555	1519	1232	1647	1765	1705	1686	1720	1739	1609	1737	1702	1784	1788	1704	1753	1764	1860
Oxygen Reduction Potential	mV	-136.0	-131.4	-160.7	-99.9	-103.9	-127.8	-176.5	-113.0	-84.5	43.9	-130.8	-104.3	-174.5	-111.0	-132.4	-94.6	-120.4	-142.9	-163.3	-207.2	-104.2	-184.3	-158.9	-186.8	-192.3	-213.0	-263.6	-279.2	-222.1	-156.7	-213.9	-136.5
Lab Analytical Results:																																	
Hardness as CaCO3	mg/L		9.92			8.65	8.63	8.88	7.63	6.84	7.98	6.64	6.5	7.25	6.39	5.94	6.63	5.06	5.39	5.21	5.28	5.13	<3.31	<3.31	<3.31	<3.31	< 3.31	5.2	4.21	5.2	5.63	4.96	4.88
pH (Lab)	SU		8.66			8.56	8.58	8.34	8.5	8.45	8.58	8.62	8.61	8.59	8.87	8.77	8.72	8.84	8.81	8.88	8.78	8.87	8.76	8.78	8.63	8.71	8.84	8.85	8.76	8.76	8.71	8.79	8.87
Total Dissolved Solids (Lab)	mg/L		1170			1210	1110	1120	1120	1170	1010	1130	1130	1130	1060	1160	1120	1110	1180	1130	1070	1140	1080	1070	1140	1100	1070	1050	1120	1060	1120	1100	1060
Calcium	mg/L		2.22			1.91	1.95	2.03	1.87	1.7	2.04	1.73	1.63	1.76	1.62	1.42	1.66	1.28	1.34	1.25	1.3	1.32	1.14	1.15	1.24	1.11	1.1	1.34	1.14	1.26	1.39	1.22	1.25
Magnesium	mg/L		1.07			0.945	0.911	0.926	0.715	0.629	0.703	0.561	0.591	0.694	0.57	0.579	0.606	0.454	0.5	0.508	0.496	0.442	<0.500	<0.500	<0.500	<0.500	< 0.500	0.449	0.332	0.501	0.522	0.463	0.429
Sodium	mg/L		459			417	446	476	434	419	454	437	437	427	431	431	468	410	403	390	413	415	374	389	397	408	398	405	388	413	411	413	436
Potassium	mg/L		<2.00			1.63	<2.00	<2.00	1.39	1.65	<2.00	<5.00	<2.00	<5.00	<3.00	<4.00	<5.00	<2.00	<2.00	<2.00	1.27	<2.00	<5.00	<5.00	<5.00	<5.00	< 5.00	< 2.00	< 2.00	< 2.00	1.23	1.25	1.49
Alkalinity, Total	mg/L		700			680	730	720	685	755	720	690	705	680	625	770	690	690	705	705	740	740	780	760	680	700	660	630	670	730	700	685	720
Alkalinity, Bicarbonate	mg/L		600			500	630	610	485	605	590	610	645	550	465	690	450	550	555	565	580	580	480	540	620	572	590	510	590	630	670	555	600
Alkalinity, Carbonate	mg/L		100			180	100	110	200	150	130	80	60	130	160	80	240	140	150	140	160	160	300	220	60	128	70	120	80	100	30	130	120
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L		10.7			10.7	8.54	8.83	9.21	9.25	10.2	9.13	9.21	9.61	9.45	10	9.84	10.5	10.4	10.4	10.6	10.2	11.2	10.7	10.9	10.8	10.8	10.7	10.7	10.6	10.3	9.63	10.2
Fluoride	mg/L		1.3			1.2	1.16	1.19	1.21	1.22	1.19	1.19	1.13	1.13	1.09	1.12	1.03	1.09	1.07	0.98	1.1	0.982	1.11	1.08	1.1	1.02	0.862	0.924	0.94	1.12	1.09	1.11	1.18
Sulfate as SO4	mg/L		245			250	226	230	232	229	236	224	227	231	222	110	223	227	228	230	233	213	240	238	240	243	242	241	245	255	247	239	256
Total Organic Carbon (TOC)	mg/L		9.24			8.67	7.83	7.28	6.73	6.56	6.17	5.78	5.58	6.07	5.79	5.46	5.34	5.33	5.40	5.26	5.14	4.94	5.06	2.89	5.14	4.22	4.72	4.52	5.37	4.49	4.50	4.32	4.33
Nitrate/Nitrite as N	mg/L		<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.034	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	2.42	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.317	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.348	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L		<0.100			<0.050	<0.050	<0.10	<0.050	<0.050	0.167	<0.250	<0.100	<0.250	<0.150	<0.200	<0.250	<0.100	<0.100	<0.100	<0.100	<0.050	<0.100	<0.250	<0.250	<0.250	< 0.100	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050	
Arsenic	mg/L		0.016			0.0152	0.0127	0.0104	0.0149	0.0107	0.0142	0.0099	0.0093	0.0086	0.0061	0.007	0.0083	0.0091	0.0091	0.0078	0.0095	0.0082	0.0084	0.0085	0.0078	0.0094	0.0076	0.0084	0.0067	0.0049	0.004	0.0041	0.0044
Cadmium	mg/L		<0.0001			<0.0001	<0.0001	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0005	<0.0005	<0.0004	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0005
Copper	mg/L		0.0122			0.0048	0.0071	0.0073	0.0068	0.0063	0.0049	0.0037	0.0024	<0.0025	0.0046	0.0045	0.0031	0.0131	0.0143	0.0097	0.0072	0.0126	0.017	0.0089	0.0143	0.0187	0.008	0.0081	0.0136	0.0167	0.0243	0.0197	0.0181
Iron	mg/L		<0.100			<0.05	<0.05	<0.1	<0.050	<0.050	<0.100	<0.250	<0.100	<0.250	<0.150	<0.200	<0.250	<0.100	<0.100	<0.100	<0.050	<0.100	<0.250	<0.250	<0.250	<0.250	< 0.100	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050	
Lead	mg/L		<0.0005			<0.0005	<0.0005	<0.0010	<0.0005	<0.0025	<0.0005	<0.0010	<0.0010	<0.0025	<0.0025	<0.0020	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0020	<0.0010	<0.0025	< 0.0025	< 0.0010	< 0.0025	< 0.0010	< 0.0005	< 0.0005	< 0.0010	
Manganese	mg/L		0.0049			0.006	0.0054	0.0072	0.0078	0.0082	0.0079	0.0099	0.0095	0.0102	0.0072	0.007	0.0069	0.0057	0.0058	0.0054	0.0051	0.0049	0.0047	0.0058	0.0063	0.0058	0.0055	0.0059	0.0057	0.0066	0.0064	0.0058	0.0061
Mercury (dissolved)	mg/L		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0050	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002												
Mercury (dissolved low-level)	ng/L																																
Molybdenum	mg/L		0.017			0.016	0.0149	0.0158	0.0157	0.0167	0.0277	0.0372	0.0204	0.0195	0.0149	0.0163	0.0162	0.016	0.0149	0.014	0.0148	0.0143	0.015	0.015	0.0136	0.0143	0.0125	0.0139	0.013	0.0135	0.0126	0.0117	0.0117
Selenium	mg/L		0.001			0.0019	<0.0050	<0.002	0.0034	<0.005	<0.0010	<0.0020	<0.0020	<0.0050	<0.0050	<0.004	0.0462	0.0033	<0.0020	0.0091	0.0018	<0.0020	<0.0020	<0.0020	<0.0050	<0.005	< 0.0050	0.0032	0.0023	0.0155	< 0.0010	< 0.0010	0.0049
Silica (SiO2)	mg/L		9.33			8.83	9.49	10.2	8.95	8.85	9.73	9.46	8.8	8.24	8.84	9.11	9.64	8.11	8.77														

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- ^ one-time analysis

Y/N yes or no

gpm gallons per minute

deg C degrees Celsius

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$\mu\text{S}/\text{cm}$ microsiemens per centimeter

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mg/L milligram per liter

pCi/L picocuries per liter

NM not measured (field)

NA not analyzed (lab)

ng/L nanogram per liter

1. "c" 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 CaCO_3 .
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-3-C																																		
Year		2018							2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1		
Month		1	2	3	4	5	8	11	2	5	9	11	3	5	8	12	2	5	8	11	2	5	9	12	3	6	8	11	2	6	8	11	2	
Sample Date		1/3	2/21	3/23	4/12	5/7	8/8	11/6	2/27	5/21	9/17	11/12	3/13	5/26	8/31	12/1	2/10	5/18	8/10	11/10	2/24	5/11	9/6	12/13	3/29	6/15	8/8	11/16	2/21	6/20	8/13	11/24	2/7	
Lab Analysis (Y/N)		N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.10	0.06	0.06	0.13	0.13	0.10	0.03	0.08	0.13	0.13	0.13	0.13	0.15	0.10	0.15	0.03	0.24	0.09	0.11	0.10	0.12	0.08	0.11	0.17	0.17		
Total Purged	gal	1.5	1.5	1.5	1.0	1.3	1.3	1.1	1.3	1.5	10.0	1.5	11.0	1.1	1.3	1.5	1.3	1.5	1.3	1.5	1.5	1.5	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Depth to Water	ft bgs	297.01	296.66	296.57	296.62	296.78	297.12	296.80	296.39	295.56	295.70	295.50	299.35	294.99	294.60	295.26	295.97	295.25	295.70	295.68	294.45	295.11	295.45	295.10	294.25	293.70	294.46	294.41	293.85	293.66	293.60	293.43	293.15	
Temperature	deg C	11.7	11.4	11.6	12.2	13.0	13.3	11.5	11.0	11.4	13.5	12.5	11.3	13.4	15.0	14.0	9.9	12.3	15.6	9.6	9.4	13.2	14.4	1.9	13.2	12.9	14.6	11.7	12.7	13.8	12.1	11.7	11.9	
pH	SU	8.43	8.43	8.45	8.25	8.28	8.26	8.17	8.28	8.29	8.31	8.20	7.98	8.44	8.45	8.73	8.71	8.50	8.71	8.85	8.62	8.43	8.29	9.15	8.44	8.42	8.37	8.26	8.24	8.17	8.24	8.25	8.24	
Specific Conductance	µS/cm	4923	4864	5063	5019	4916	4953	5127	5155	5184	5144	5144	4921	3143	5039	4251	4426	3755	4571	5244	4564	4694	5306	2397	5300	5353	5283	5584	2560	5377	5484	5498	5799	
Oxygen Reduction Potential	mV	-187.9	-183.5	-155.4	-154.7	-161.4	-180.5	-217.6	-185.4	-188.5	-151.8	-184.4	-155.0	-240.5	-174.4	-150.0	-202.7	-149.6	-255.3	-227.4	-325.6	-223.4	-307.9	-277.2	57.8	-199.5	-202.4	-275.0	-231.2	-199.2	-210.9	-266.8	-206.2	
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L		16.1			40.3	17.9	21.7	17.3	16.8	18.6	18.6	18.3	16	18.1	16.9	18.5	14.8	16.9	16.7	16	17.4	20.4	16.4	17.1	13.7	16.1	17.7	16.3	18.7	19	19.3	18.2	
pH (Lab)	SU		8.35			8.34	8.31	8.24	8.2	8.23	8.31	8.12	7.98	8.41	8.36	8.36	8.43	8.38	8.47	8.87	8.44	8.47	8.18	8.49	8.81	8.29	8.21	8.27	8.39	8.2	8.26	8.23	8.30	
Total Dissolved Solids (Lab)	mg/L		3540			3610	3520	3360	3300	3440	3500	3390	3220	3180	3170	3280	3200	3230	3300	3200	3270	3250	3280	3140	3150	2310	3220	3300	3360	3270	3390	3340	3350	
Calcium	mg/L		3.81			7.28	4.01	4.7	4.05	3.74	4.3	4.23	4.26	3.81	3.97	3.72	4.25	3.59	3.84	3.76	3.66	4.1	4.49	3.68	3.91	3.32	3.63	3.97	3.74	4.26	4.28	4.43	4.07	
Magnesium	mg/L		1.59			5.38	1.92	2.41	1.75	1.8	1.91	1.94	1.86	1.58	1.98	1.84	1.92	1.42	1.77	1.78	1.67	1.74	2.23	1.75	1.77	1.33	1.7	1.89	1.7	1.97	2.03	2.00	1.94	
Sodium	mg/L		1200			1350	1220	1460	1270	1100	1360	1300	1280	1240	1250	1250	1360	1220	1220	1170	1200	1260	1360	1170	1260	906	1240	1270	1240	1300	1320	1310	1360	
Potassium	mg/L		<10.0			<5.00	<5.00	<5.00	<5.00	5.24	<5.00	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<6.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<10.0	<10.0	<10.0	<6.00	<10.0	3.97	4.42	<5.00	
Alkalinity, Total	mg/L		1910			1760	1730	2050	2000	2110	2190	2130	2160	2050	1820	2090	2170	2130	2140	2230	2180	2170	2110	2120	2220	1410	2140	2140	2180	2280	2160	2190	2170	
Alkalinity, Bicarbonate	mg/L		1810			1600	1670	1900	1830	2000	2020	2070	2000	1800	1690	1970	1710	1910	1950	1950	1820	1870	1990	2120	1920	1410	2070	2060	2060	2040	2000	1930	1970	
Alkalinity, Carbonate	mg/L		100			160	60	150	170	110	170	60	160	250	130	120	460	220	190	280	360	300	120	<10.0	300	<10.0	70	80	120	240	160	260	200	
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L		549			544	524	561	577	575	620	542	549	555	552	578	574	577	582	462	608	605	613	604	622	360	639	644	646	649	634	628	664	
Fluoride	mg/L		4.15			3.52	3.84	4.04	4.04	3.91	3.78	3.66	3.61	3.51	3.47	3.53	3.37	3.34	3.36	3.16	3.37	3.06	3.51	3.25	3.38	1.96	2.59	2.91	3.14	3.59	3.39	3.57	3.93	
Sulfate as SO4	mg/L		<10.0			<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	252	<10.0	<10.0	<5.00	2.37	<10.0	<5.00	<5.00		
Total Organic Carbon (TOC)	mg/L		337			343	306	141	122	129	132	107	81.9	23.4	17.1	15.7	15.7	16.3	15.7	16.4	17.9	16.2	16.1	10.4	19.2	5.72	18.9	19.2	20.5	19.9	19.9	21.4	19.6	
Nitrate/Nitrite as N	mg/L		<0.020			<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.100	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.212	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aluminum	mg/L		<0.500			1.47	<0.500	<0.250	<0.250	<0.500	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.300	<0.250	<0.250	<0.250	<0.250	<0.250	<0.500	<0.250	<0.500	<0.500	<0.500	<0.300	<0.500	<0.050	<0.050	<0.250	
Arsenic	mg/L		0.0194			0.0168	0.0148	0.0155	0.0218	0.0171	0.0192	0.0188	0.0087	0.0133	0.0106	0.0125	0.0113	0.0163	0.0195	0.017	0.0157	0.013	0.0151	0.0146	0.0194	0.0206	0.0149	0.017	0.0171	0.0211	0.0204	0.0205	0.0193	
Cadmium	mg/L		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.001	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0035	<0.0050	<0.0050	<0.0025	<0.0050	0.0007	<0.0015	<0.0025	
Copper	mg/L		0.0409			0.0183	0.0257	0.0227	0.0223	0.0168	0.0102	0.0109	0.0069	0.0064	0.0136	0.0156	0.0102	0.0499	0.0434	0.0323	0.0287	0.0347	0.0555	0.0268	0.022	0.0571	0.0185	0.0293	0.046	0.0522	0.0742	0.0784	0.0534	
Iron	mg/L		<0.500			0.252	<0.500	<0.250	<0.250	0.344	0.328	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.300	0.464	0.31	0.26	0.305	0.427	<0.250	<0.500	<0.25	<0.500	<0.500	<0.300	<0.500	0.293	0.238	<0.250	
Lead	mg/L		<0.0025			<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0050	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0035	<0.0050	<0.0050	<0.0050	<0.0050	0.0016	<0.0015	<0.0025	
Manganese	mg/L		0.0307			0.0275	0.0243	0.0252	0.0483	0.063	0.0378	0.0266	0.0245	0.0175	0.0102	0.0079	0.0052	0.0046	0.0034	0.0032	0.0028	0.004	0.0025	0.0034	0.0054	0.0065	<0.0050	<0.0050	<0.0025	<0.0050	0.0023	0.0027	<0.0025	
Mercury (dissolved)	mg/L		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0050	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002													
Mercury (dissolved low-level)	ng/L																																	
Molybdenum	mg/L		0.0221			0.0189	0.0155	0.014	0.0134	0.0121	0.0081	0.0075	0.0082	0.0085	0.0076	0.0075	0.008	0.0069	0.0061	0.0061	0.0059	0.0065	0.0058	0.0056	0.0111	0.0093	0.0065	0.0059	0.0057	<0.0050	0.0052	0.0042	0.0043	
Selenium	mg/L		0.0383			0.0268	0.0232	0.0261	0.0464	0.0203	0.0203	0.0173	0.0125	0.0129	0.0135	0.0191	0.027	0.0411	0.0372	0.0319	0.0335	0.0185	0.0247	0.0199	0.0259	0.0396	0.0242	0.0282	0.0241	0.058	0.0355	0.0305	0.0368	
Silica (SiO2)	mg/L		<10.7			9.69	8.68	10.70	8.24	8.35	9.06	<1																						

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

^	one-time analysis	
Y/N	yes or no	1. " <i><</i> " 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 CaCO ₃ .
S/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	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.
NM	not measured (field)	
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

MW-4-A																																	
Year	2018							2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1	
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	
Sample Date	1/3	2/21	3/23	4/12	5/14	8/8	11/5	2/27	5/22	8/15	11/12	2/6	5/26	8/27	11/25	2/10	5/18	8/10	11/10	2/23	5/11	9/1	11/17	3/9	6/15	8/7	11/16	2/12	6/20	8/13	11/22	2/7	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																	
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.06	0.06	0.06	0.13	0.03	0.03	0.13	0.13	0.05	0.13	0.25	0.20	0.22	0.13	0.13	0.06	0.05	0.03	0.08	0.05	0.06	0.04	0.05	0.07	0.08	
Total Purged	gal	1.3	1.5	1.5	1.0	1.5	1.5	1.1	1.5	1.3	1.1	1.0	1.5	1.2	1.3	1.3	1.3	1.5	1.3	1.8	1.5	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Depth to Water	ft bgs	334.31	334.73	334.81	335.07	335.58	336.06	336.73	335.6	335.07	335.21	335.16	336.35	337.16	336.88	336.13	335.46	335.72	335.93	336.16	336.01	336.31	336.74	337.16	337.66	330.46	335.36	335.49	335.38	335.96	335.81	337.98	337.81
Temperature	deg C	10.9	9.8	11.4	10.9	17.8	12.9	11.6	11.1	10.4	13.6	11.6	10.3	12.5	14.0	12.3	10.3	11.2	12.1	11.6	9.4	12.4	15.6	12.4	11.6	15.0	15.2	12.4	10.9	14.1	12.8	12.3	11.4
pH	SU	8.33	8.37	8.41	8.19	8.20	8.10	8.12	8.15	8.08	8.02	8.11	8.07	8.19	8.27	8.30	8.25	8.30	8.38	8.38	8.35	8.34	8.33	8.77	8.41	8.38	8.33	8.25	8.25	8.12	7.18	7.43	8.01
Specific Conductance	µS/cm	2259	2267	2207	2214	2183	2192	2246	2205	2237	2201	2211	2271	2273	2165	2249	2052	1618	2205	2268	2294	2244	2236	2236	2090	2246	2171	2298	2291	2212	2249	2261	2394
Oxygen Reduction Potential	mV	-35.2	-75.9	-117.3	-77.9	-81.8	-137.5	-157.6	-92.3	-89.3	-54.3	-19.8	15.3	-71.3	-11.5	-10.6	29.0	-63.4	-48.7	-77.3	-153.2	-78.6	-203.9	-66.6	35.8	-41.9	-76.5	-167.0	-207.3	-80.1	4.7	-93.1	-37.0
Lab Analytical Results:																																	
Hardness as CaCO3	mg/L		7.73			7.84	7.69	8.81	7.76	7.31	8.62	8	8.19	7.46	7.87	7.77	8.87	7.02	5.81	7.54	8.32	7.88	8.44	7.41	7.78	8.02	6.5	7.47	7.88	8.97	8.43	8.1	7.35
pH (Lab)	SU		8.28			8.31	8.21	8.24	8.05	8.08	8.15	8.02	8.11	7.9	8.19	8.16	8.04	8.15	8.09	8.21	8.24	8.24	8.5	8.29	8.1	8.12	8.23	8.3	8.07	8.21	7.62	7.92	8.03
Total Dissolved Solids (Lab)	mg/L		1490			1470	1430	1350	1450	1410	1540	1490	1500	1480	1460	1560	1370	1430	1510	1470	1400	1540	1480	1430	1390	1480	1480	1400	1350	1430	1500	1470	1420
Calcium	mg/L		1.81			1.75	1.71	1.92	1.77	1.68	1.94	1.82	1.88	1.67	1.79	1.73	2.04	1.65	1.41	1.76	1.87	1.88	1.95	1.67	1.73	1.83	1.58	1.75	1.83	2.11	1.97	1.85	1.63
Magnesium	mg/L		0.778			0.846	0.832	0.973	0.809	0.756	0.914	0.837	0.85	0.798	0.826	0.836	0.917	0.704	0.555	0.765	0.89	0.771	0.868	0.783	0.842	0.839	0.616	0.751	0.803	0.897	0.853	0.846	0.795
Sodium	mg/L		507			528	531	568	535	515	548	529	551	498	533	531	565	507	411	488	504	523	520	482	559	535	503	509	538	520	564	513	525
Potassium	mg/L		<2.00			1.5	<2.00	<2.00	<2.00	<2.00	4.75	<5.00	<3.00	<5.00	<5.00	<5.00	<5.00	<3.00	<5.00	<2.00	<2.00	<2.00	<5.00	<5.00	1.24	< 5.00	< 5.00	< 3.00	< 2.00	1.53	1.53	< 5.00	
Alkalinity, Total	mg/L		530			560	575	575	545	565	575	544	560	585	605	538	620	590	580	670	535	605	590	480	569	579	562	515	555	585	615	590	590
Alkalinity, Bicarbonate	mg/L		490			560	555	575	505	544	535	528	560	545	565	530	620	530	580	670	485	455	590	480	531	579	524	515	545	585	615	590	590
Alkalinity, Carbonate	mg/L		40			<10.0	20	<10.0	40	32	40	16	<10.0	40	40	<10.0	<10.0	60	<10.0	<10.0	50	150	<10.0	<10.0	38	<10.0	38	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L		10			9.94	9.55	8.6	8.93	8.99	8.91	8.76	8.83	8.89	10.1	9.15	8.79	9.15	9.17	9.04	9.04	8.97	9.89	9.61	9.72	10.3	10.6	10.3	11.3	< 25.0	10.1	10.1	10.0
Fluoride	mg/L		<0.500			<0.500	<0.500	0.143	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.500	<0.500	0.165	< 0.500	< 0.500	< 1.00	< 2.50	< 0.500	< 0.500	< 0.200	
Sulfate as SO4	mg/L		579			561	522	450	567	584	615	559	557	580	542	607	561	577	593	551	581	525	580	590	602	594	571	583	586	576	586	570	592
Total Organic Carbon (TOC)	mg/L		3.46			3.59	3.60	3.59	3.47	3.40	3.33	3.25	3.10	3.49	3.48	3.27	3.42	3.42	3.23	3.28	3.31	3.32	3.40	1.99	3.78	3.35	3.44	2.86	3.69	3.34	3.53	3.47	3.34
Nitrate/Nitrite as N	mg/L		<0.020			<0.02	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.255	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.025	< 0.020	< 0.020	< 0.020
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L		<0.100			<0.05	<0.05	<0.100	<0.100	<0.100	<0.100	<0.250	<0.150	<0.250	<0.250	<0.250	<0.250	<0.150	<0.250	<0.100	<0.100	<0.100	<0.100	<0.250	<0.250	<0.250	< 0.250	< 0.250	< 0.150	< 0.100	< 0.050	< 0.050	< 0.250
Arsenic	mg/L		0.0019			0.0005	<0.0025	<0.0010	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	0.0005	<0.0010	<0.0010	0.0008	<0.0010	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0050	< 0.0020	< 0.0010	< 0.0020	< 0.0020
Cadmium	mg/L		<0.0001			<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.001	<0.001	<0.0025	<0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0010	< 0.0005	< 0.0010	< 0.0010
Copper	mg/L		0.0124			0.0077	0.0105	0.0084	0.0081	0.0061	0.012	0.0037	0.0034	0.002	0.0056	0.0053	0.0036	0.0135	0.0161	0.0126	0.0097												

GCC Energy Hydrologic Monitoring Data

MW-4-MI																																
Year	2018							2019				2020				2021				2022				2023				2024				2025
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	Q2	Q3	Q4	Q1
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2
Sample Date	1/3	2/21	3/23	4/12	5/14	8/8	11/5	2/27	5/22	8/15	11/12	2/6	5/26	8/27	11/25	2/10	5/18	8/10	11/10	2/23	5/11	9/1	11/17	3/9	5/31	8/7	11/16	2/12	6/20	8/13	11/22	2/7
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																																
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.06	0.06	0.13	0.25	0.13	0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.25	0.25	0.15	0.09	0.22	0.13	0.91	0.12	0.12	0.14	0.12	0.12	
Total Purged	gal	1.3	1.5	1.5	1.0	1.3	1.8	1.6	2.0	1.3	1.1	1.0	1.3	1.2	1.3	1.3	1.5	1.3	1.5	1.5	1.3	1.5	1.0	1.3	1.1	1.1	1.1	1.2	1.2	1.2	1.2	
Depth to Water	ft bgs	330.52	330.42	330.53	330.50	329.62	331.10	336.57	331.10	331.06	331.92	332.10	332.50	332.87	332.45	333.29	333.22	329.27	333.57	333.65	333.45	333.80	334.22	334.15	334.35	334.85	335.30	335.55	335.18	335.80	335.72	335.30
Temperature	deg C	11.2	11.0	10.5	10.9	10.1	11.8	11.3	11.1	10.8	13.3	11.6	11.8	12.2	12.9	11.8	10.8	11.6	12.1	11.7	11.0	12.0	13.0	11.5	11.5	12.9	12.5	12.1	10.9	12.5	12.7	
pH	SU	8.62	8.48	8.53	8.01	8.50	8.14	8.25	8.38	8.23	8.14	8.26	8.18	8.42	8.45	8.57	8.57	8.60	8.59	8.59	8.46	8.56	8.51	7.87	8.62	8.62	8.62	8.53	8.08	7.63	7.61	
Specific Conductance	µS/cm	1848	1856	1841	1816	1739	1756	1808	1716	1800	1830	1776	1795	1794	1730	1777	1605	1258	1711	1761	1745	1727	1718	1749	1673	1728	1710	1791	1784	1695	1712	
Oxygen Reduction Potential	mV	-112.5	-151.3	-145.7	-117.7	-130.0	-178.2	-202.3	-140.4	-154.7	-127.3	-76.8	-50.6	-131.2	-92.0	-87.7	-53.9	-105.9	-97.8	-118.1	-141.5	-128.8	-247.1	-131.9	85.0	-139.7	-81.2	-267.6	-266.9	-140.8	-93.9	
Lab Analytical Results:																																
Hardness as CaCO3	mg/L		6.01			5.88	6.06	6.39	5.35	4.93	5.65	3.31	4.70	<3.31	5.19	2.84	4.91	3.79	4.59	4.53	4.17	4.15	4.59	<3.31	3.84	4.11	< 3.31	3.91	3.70	4.92	4.90	
pH (Lab)	SU		8.47			8.48	8.31	8.47	8.35	8.3	8.44	8.08	8.33	8.02	8.28	8.38	8.21	8.38	8.28	8.59	8.35	8.42	8.68	8.48	8.25	8.41	8.44	8.59	7.39	8.23	8.26	
Total Dissolved Solids (Lab)	mg/L		1220			1140	1120	1100	1130	1130	1140	1120	1110	1110	1070	1170	1130	1100	1130	1090	1100	1140	1070	1060	1030	1030	1060	1050	1000	1030	1120	
Calcium	mg/L		1.640			1.550	1.560	1.600	1.440	1.300	1.510	1.320	1.210	1.220	1.320	1.140	1.970	1.050	1.230	1.090	1.050	1.130	1.130	0.971	0.979	1.020	0.838	0.982	0.989	1.350		
Magnesium	mg/L		0.465			0.490	0.524	0.580	0.428	0.408	0.458	<0.500	0.406	<0.500	0.459	<0.400	<0.500	0.285	0.370	0.441	0.372	0.321	0.431	<0.500	0.338	0.381	< 0.500	0.354	0.299	0.380		
Sodium	mg/L		447			471	470	500	462	458	496	477	441	460	459	458	476	431	427	418	430	443	448	384	468	427	428	424	439	427	440	
Potassium	mg/L		<2.00			1.39	<2.00	<2.00	1.43	1.77	2.03	<5.00	<2.00	<5.00	<3.00	<4.00	<5.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<5.00	<2.00	<2.00	< 5.00	< 2.00	< 2.00	< 2.00	1.39	
Alkalinity, Total	mg/L		965			955	968	995	510	890	970	978	985	1030	1020	1010	990	1020	985	1140	935	1020	1180	920	1040	965	955	985	975	1040	1070	
Alkalinity, Bicarbonate	mg/L		875			865	896	885	420	650	880	886	895	935	940	965	910	900	865	1020	825	870	1040	720	980	865	907	945	975	995	1020	
Alkalinity, Carbonate	mg/L		90			90	72	110	90	240	90	92	90	90	80	40	80	120	120	120	110	150	140	200	60	100	48	40	< 10.0	40	50	
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L		8.74			7.99	5.68	5.38	5.98	5.98	5.83	5.47	5.37	5.11	5.02	4.97	4.89	4.85	4.91	4.98	4.55	4.36	4.29	<5.00	25.4	3.91	< 5.00	3.62	< 5.00	3.46	3.36	
Fluoride	mg/L		5.02			4.82	4.84	4.94	5.49	5.44	5.38	5.31	5.11	5.16	5	5.27	4.92	5.03	5.2	4.78	5.16	4.73	5.42	5.13	5.42	5.31	4.32	4.83	5.08	5.66	5.57	
Sulfate as SO4	mg/L		68.6			54.4	48.3	47.6	38.7	34.4	31.9	28.2	24.6	21.9	20	18.7	17.1	16.1	16.4	13.7	13.4	12.4	12.7	11.7	21.8	10.1	< 5.00	8.16	8.52	8.99	8.9	
Total Organic Carbon (TOC)	mg/L		9.54			9.25	8.94	8.48	8.37	8.25	7.81	6.42	6.63	6.55	5.93	5.77	5.78	5.36	5.29	5.09	4.80	4.28	4.73	2.31	4.82	4.52	4.06	4.05	4.07	3.57	3.53	
Nitrate/Nitrite as N	mg/L		<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L		<0.100			<0.050	<0.100	<0.100	<0.050	<0.050	<0.100	<0.250	<0.100	<0.250	<0.150	<0.200	<0.250	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.250	<0.100	<0.100	< 0.250	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050
Arsenic	mg/L		0.0139			0.0153	0.014	0.0119	0.0164	0.0111	0.0116	0.0107	0.0127	0.0139	0.0084	0.0092	0.0088	0.011	0.0099	0.0093	0.012	0.0092	0.0094	0.009	0.01	0.0074	0.009	0.0101	0.0079	0.0082	0.0078	
Cadmium	mg/L		<0.0001			<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0005	<0.0004	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010	< 0.0005	< 0.0005
Copper	mg/L		0.0079			0.0063	0.0071	0.0078	0.0087	0.0153	0.0051	0.0027	0.0028	0.002	0.0052	0.0045	0.004	0.0103	0.0134	0.0107	0.0116	0.0107	0.0177	0.0196	0.0049	0.0039	0.0086	0.0159	0.0165	0.0258	0.0191	
Iron	mg/L		<0.100			<0.050	<0.100	<0.100	<0.050	<0.050	<0.100	<0.250	<0.100	<0.250	<0.150	<0.200	<0.250	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.250	<0.100	<0.100	< 0.250	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050
Lead	mg/L		<0.0005																													

GCC Energy Hydrologic Monitoring Data

MW-4-C																																	
Year	2018							2019				2020				2021				2022				2023				2024				2025	
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	Q2	Q3	Q4	Q1	
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2	
Sample Date	1/3	2/21	3/23	4/12	5/14	8/8	11/5	2/27	5/22	8/15	11/12	2/4	5/26	8/27	SQI inst	2/10	5/18	8/10	11/10	2/23	5/11	9/1	11/17	3/9	5/31	8/18	11/16	2/12	6/20	8/13	11/22	2/7	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																																	
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.20	0.12	0.06	0.13	0.13	0.13	0.13	0.13	0.10	0.13	0.13	0.13	0.25	0.25	0.18	0.08	0.09	0.16	0.08	0.08	0.12	0.11	0.08	0.09	0.10	
Total Purged	gal	1.5	1.5	1.5	1.0	1.5	1.0	1.3	1.5	1.3	1.1	1.0	1.5	1.2	1.5	1.3	1.5	1.5	1.5	1.5	1.5	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Depth to Water	ft bgs	282.35	281.30	303.30	304.05	NM	302.55	302.17	302.45	303.93	304.93	305.73	306.44	304.90	307.80	308.05	308.65	308.58	309.32	309.90	309.80	311.45	310.88	311.37	310.15	311.45	311.85	311.55	311.35	310.24	311.74	311.77	312.30
Temperature	deg C	11.7	10.8	12.5	11.4	12.4	12.9	11.5	11.3	11.2	12.5	11.7	11.2	12.7	13.0	11.4	10.0	11.4	12.3	11.7	10.3	12.2	13.8	12.1	11.1	13.8	13.7	12.4	11.0	12.8	12.7	11.3	11.1
pH	SU	7.80	7.88	7.94	7.75	7.79	7.76	7.79	7.87	7.86	7.81	7.85	7.87	7.97	8.00	8.05	8.02	8.05	8.12	8.11	8.06	8.05	8.06	8.28	8.15	8.09	8.17	8.02	8.00	7.91	7.98	7.96	7.90
Specific Conductance	µS/cm	5834	5903	5628	5792	5592	5583	5775	5710	5712	5930	5636	5729	5636	5429	5665	5106	4047	5454	5687	5698	5645	5589	5649	5116	5678	5560	5842	5792	5580	5751	5761	6075
Oxygen Reduction Potential	mV	-123.8	-154.3	-131.3	-134.9	-129.3	-157.6	-209.0	-160.1	-180.1	-156.8	-148.7	-135.9	-147.7	-132.1	-128.7	-106.2	-100.6	-142.3	-173.0	-255.6	-178.7	-278.7	-161.3	-158.1	-168.9	-182.7	-255.3	-250.2	-190.4	-194.8	-231.9	-182.9
Lab Analytical Results:																																	
Hardness as CaCO3	mg/L		26.5			26.2	25.9	28.6	23.6	22.5	25.2	24.4	24	22.7	23	21.8	25.6	19.6	21.9	20.9	22.2	21.4	26	20.1	21.1	21	24.3	22.1	23.5	20.9	23.7	23.6	22
pH (Lab)	SU		7.84			7.97	7.96	8.27	7.9	7.92	7.95	7.85	7.95	7.76	7.92	7.94	7.96	7.97	7.96	8.08	8.01	8.07	8.19	8.15	7.98	8.12	8.04	8.13	7.65	8.01	8.05	7.94	7.99
Total Dissolved Solids (Lab)	mg/L		3730			3660	3650	3590	3580	3590	3610	3610	3580	3570	3510	3610	3720	3540	3600	3630	3520	3580	3670	3530	3620	3450	3390	3560	3420	3490	3590	3510	3500
Calcium	mg/L		6.32			6.15	5.9	6.6	5.5	5.21	5.83	5.61	5.57	5.31	5.3	5.15	5.98	4.64	5.07	4.77	5.04	5.14	6.01	4.65	4.78	4.78	5.69	5.15	5.54	4.89	5.49	5.57	5.24
Magnesium	mg/L		2.61			2.62	2.72	2.94	2.39	2.3	2.57	2.53	2.44	2.3	2.36	2.18	2.58	1.95	2.25	2.19	2.33	2.07	2.68	2.07	2.22	2.2	2.45	2.23	2.36	2.11	2.42	2.35	2.16
Sodium	mg/L		1410			1400	1410	1590	1410	1370	1440	1430	1440	1390	1400	1400	1520	1310	1340	1270	1360	1350	1530	1290	1410	1360	1440	1360	1410	1370	1480	1370	1440
Potassium	mg/L		<10.0			<5.00	<5.00	5.36	<5.00	<5.00	5.42	<10.0	<5.00	<10.0	<10.0	<10.0	<10.0	<6.00	<5.00	<5.00	<5.00	<5.00	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<6.00	4.13	4.32	4.71	<5.00
Alkalinity, Total	mg/L		2600			2410	2480	2450	2470	2550	2500	2470	2480	2460	2500	2950	2470	2500	2410	2630	2360	2500	2430	2250	2580	2240	2460	2460	2350	2580	2620	2410	2460
Alkalinity, Bicarbonate	mg/L		2600			2330	2480	2450	2470	2350	2390	2410	2420	2340	2390	2880	2430	2360	2290	2410	2180	2300	2430	2250	2490	2240	2330	2420	2330	2380	2280	2410	2320
Alkalinity, Carbonate	mg/L		<10.0			80	<10.0	<10.0	<10.0	<10.0	200	110	60	120	110	70	40	140	120	220	180	200	<10.0	<10.0	90	<10.0	130	40	20	200	340	<10.0	140
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L		592			573	533	590	575	554	580	525	528	555	543	565	557	553	572	561	562	563	570	583	576	581	566	586	575	579	573	548	597
Fluoride	mg/L		2.53			2.52	2.48	2.54	2.64	2.62	2.59	2.51	2.41	2.36	2.34	2.37	2.21	2.16	2.28	2.04	2.26	2.02	2.34	2.22	2.23	2.15	2.1	2.02	1.75	2.74	2.37	3.2	2.73
Sulfate as SO4	mg/L		34.5			27	18.7	11.2	5.07	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<10.0	<5.00	<10.0	<10.0	11.1	<10.0	<10.0	<2.00	<5.00	
Total Organic Carbon (TOC)	mg/L		3.23			3.23	2.80	3.46	3.24	2.62	2.63	4.18	2.23	2.50	2.31	3.72	4.57	4.92	4.81	4.70	5.93	4.91	4.39	3.19	4.75	5.54	7.10	19.60	6.25	5.89	6.08	6.76	6.52
Nitrate/Nitrite as N	mg/L		<0.020			<0.020	<0.020	<0.020	0.061	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.100	<0.020	<0.020	<0.02	<0.020	<0.020	0.252	<0.020	<0.020	<0.020	<0.020
Ammonia as N ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.424	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L		NA			NA	NA	NA	NA	NA	NA	0.182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L		<0.500			<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.500	<0.250	<0.500	<0.500	<0.500	<0.500	<0.300	<0.250	<0.250	<0.250	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.300	<0.100	<0.050	<0.050	<0.250
Arsenic	mg/L		0.0246			0.0195	0.0202	0.0164	0.0211	0.0171	0.0178	0.0179	0.0203	0.0195	0.015	0.0182	0.0177	0.0212	0.0248	0.0213	0.0213	0.0172	0.0219	0.0207	0.0218	0.0155	0.0237	0.0179	0.0181	0.0221	0.0215	0.0211	0.0221
Cadmium	mg/L		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0008	<0.0015	<0.0025	
Copper	mg/L		0.0482			0.0389	0.028	0.023	0.0249	0.0382	0.0198	0.0107	0.0111	0.0069	0.0151	0.0148	0.0111	0.0464	0.0499	0.037	0.0302	0.0371	0.0618	0.0573	0.0606	0.016	0.0731						

GCC Energy Hydrologic Monitoring Data

MW-6-A																																	
Year	2018	2019										2020				2021				2022				2023				2024				2025	
Quarter	Q4	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	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	6	8	11	2	
Sample Date	12/28	1/31	2/21	3/21	4/23	5/20	6/19	7/23	8/15	9/24	11/7	2/5	5/14	8/11	11/25	2/9	5/17	8/9	11/9	2/15	5/10	8/31	11/25	3/13	5/18	8/8	11/16	2/5	6/19	8/13	11/21	2/7	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	
Field Parameters:																																	
Purge Flow Rate	gpm	NM	NM	0.10	2.00	0.03	0.03	0.03	0.06	0.03	0.02	0.01	0.05	0.13	0.05	0.05	0.02	0.13	0.02	0.05	0.10	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry		
Total Purged	gal	36.3	0.5	0.5	2.0	2.0	1.3	1.0	1.3	1.1	1.3	1.5	1.1	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0												
Depth to Water	ft bgs	304.33	306.41	307.40	309.60	311.05	312.50	314.20	315.75	316.43	NM	318.70	315.46	319.63	319.64	319.65	319.66	319.66	319.64	319.66	320.30											320.68	
Temperature	deg C	7.4	10.7	8.1	7.5	9.6	7.3	12.5	12.3	11.9	10.4	10.4	7.8	9.8	19.5	8.0	9.7	12.6	19.4	10.7	11.5											17.3	
pH	SU	7.32	6.64	6.66	6.74	6.65	6.73	6.76	6.75	6.76	6.80	6.79	6.89	6.95	6.97	7.10	7.03	7.10	7.11	7.11	7.02											7.05	
Specific Conductance	µS/cm	6573	6053	6072	6107	6012	6057	5725	5598	5562	5451	5108	5043	4779	4339	4656	4051	3198	4238	4465	4486											4477	
Oxygen Reduction Potential	mV	-22.8	19.4	24.6	12.6	11.8	34.8	86.6	25.8	6.5	29.2	20.5	36.7	51.7	62.3	55.2	73.5	83.5	5.2	26.5	-56.1	2.4											
Lab Analytical Results:																																	
Hardness as CaCO3	mg/L	4360		4190			3920			3540		3070	3200	2780	2690	2710	2660	2550	2740	2510	2440	2490											
pH (Lab)	SU	7.10		6.85			6.77			6.85		6.87	6.90	6.93	6.66	7.04	7.20	6.93	7.10	6.98	7.19	7.26											
Total Dissolved Solids (Lab)	mg/L	6520		6520			120*			6080		5210	4980	4670	4490	4570	4480	4390	4440	4310	4440	4450											
Calcium	mg/L	615		559			553			492		431	467	400	398	406	398	378	415	370	359	365											
Magnesium	mg/L	687		678			617			560		484	495	431	411	413	404	390	413	385	374	383											
Sodium	mg/L	294		283			296			304		276	296	274	261	273	272	266	263	254	257	268											
Potassium	mg/L	15		14.4			12.4			12.8		11.1	<20.0	10.6	10.3	10.5	11.1	10.7	11	10.4	10.7	10.6											
Alkalinity, Total	mg/L	160		160			143			183		220	215	233	236	246	245	290	255	295	285	270											
Alkalinity, Bicarbonate	mg/L	160		160			143			183		220	215	233	236	246	245	290	255	295	285	270											
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0											
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0											
Chloride	mg/L	97.4		28.6			27.3			29.9		29.6	28.4	29	26	26.6	24.9	25.8	26	26.6	26.2	26.1											
Fluoride	mg/L	2.83		<0.500			<0.500			<0.500		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500											
Sulfate as SO4	mg/L	205		4300			4280			4260		3460	3080	3020	3160	2890	2620	2740	2780	2790	2870	2820											
Total Organic Carbon (TOC)	mg/L	3.45		3.08			2.91			3.57		3.1	3.16	3.39	3.31	3.26	1.71	3.82	3.33	3.25	3.26	3.14											
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020		<0.020	0.049	0.154	0.117	0.093	0.039	0.156	0.118	0.096	0.131	0.103											
Ammonia as N ^	mg/L	NA		NA			NA			NA		2.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA		<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Aluminum	mg/L	<0.500		<0.250			<0.250			<0.250		<0.250	<1.00	<0.500	<0.250	<0.500	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250											
Arsenic	mg/L	<0.0025		<0.0025			0.0009			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025											
Cadmium	mg/L	<0.0005		<0.0005			0.0001			<0.0005		<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0005	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025											
Copper	mg/L	0.0116		0.0081			0.0035			0.0039		0.0017	0.0028	<0.0050	<0.0025	<0.0050	<0.0025	0.0068	0.0082	0.0063	0.0065	0.0093											
Iron	mg/L	1.37		3.75			3.93			3.22		2.72	1.95	1.38	1.1	1.24	1.17	0.89	1.48	1.15	1.41	1.37											
Lead	mg/L	<0.0025		<0.0025			<0.0005			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025											
Manganese	mg/L	0.788		0.802			0.724			0.69		0.585	0.551	0.526	0.52	0.454	0.437	0.397	0.407	0.391	0.42	0.431											
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002											
Mercury (dissolved low-level)	ng/L																				<5.00												
Molybdenum	mg/L	<0.0025		<0.0025			<0.0005			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025											
Selenium	mg/L	<0.0050		<0.0050			0.0028			<0.0050		<0.0050	<0.005	<0.0100	<0.0050	<0.0100	<0.0050	<0.0050	<0.0050	<0.0100	<0.0040	<0.0050											
Silica (SiO2)	mg/L	12.3		11.9			14.3			13.4		12.5	<21.4	11	11.4	12.3	11.9	13.2	14.3	13.6	12.7	12.3											
Silicon	mg/L	5.77		5.57			6.69			6.28		5.83	<10.00	5.17	5.35	5.76	5.58	6.17	6.67	6.36	5.96	5.73											
Uranium	mg/L	<0.0005		<0.0005			<0.0001			<0.0005		<0.0005	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025											
Zinc	mg/L	0.0689		<0.0100			0.0082			0.0108		0.0117	0.0107	<0.0200	0.0159	<0.0200	<0.0100	<0.0100	<0.0100	<0.0100	<0.0080	<0.0100											

Notes & Definitions:

- * Anomalous value under review

^ one-time analysis

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

GCC Energy Hydrologic Monitoring Data

[illegible]

Notes & Definitions:

#	No sample collected, due to low yield, insufficient volume for lab sample after field parameters we measured	
Y/N	yes or no	1. " <i><</i> " 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 CaCO ₃ .
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	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.
NM	not measured (field)	
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

[illegible]

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. 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.
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	

GCC Energy Hydrologic Monitoring Data

MW-6-LM																																		
Year	2018	2019											2020				2021				2022				2023				2024				2025	
Quarter	Q4	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	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	6	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	11/9	2/15	5/10	8/31	11/25	3/13	5/31	8/8	11/16	2/12	6/19	8/13	11/21	2/7	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	NM	NM	0.06	2.00	0.03	0.03	0.10	0.06	0.03	0.02	0.01	0.03	0.01	0.13	0.01	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.20	0.06	0.03	0.05	0.05	0.19	0.03	0.02	0.05	0.05	
Total Purged	gal	0.5	0.5	1.5	2.0	2.0	2.3	1.3	1.3	1.8	2.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.5	1.0	1.2	1.0	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
Depth to Water	ft bgs	535.72	538.73	539.34	540.64	539.98	537.58	540.00	540.35	540.24	540.17	539.80	540.18	539.70	539.45	539.98	540.30	539.78	540.20	541.25	541.34	541.00	541.30	542.20	541.30	541.37	541.50	541.88	541.85	541.65	541.65	541.97	542.05	541.85
Temperature	deg C	7.9	14.3	7.8	8.1	9.1	9.3	11.7	14.0	13.4	11.6	10.1	12.4	10.5	11.3	14.8	11.4	10.2	11.6	14.4	11.1	11.0	11.8	13.1	10.4	8.7	14.4	13.5	10.9	8.7	12.2	16.0	9.3	11.0
pH	SU	7.64	7.38	7.51	7.54	7.49	7.54	7.67	7.80	7.65	7.43	7.45	7.37	7.39	7.54	7.44	7.47	7.44	7.54	7.52	7.49	7.46	7.56	7.64	7.70	7.77	7.58	7.67	7.55	7.65	7.36	7.49	7.48	7.57
Specific Conductance	µS/cm	6011	3784	3503	1461	1164	1296	1400	1272	1532	2104	2267	2113	2283	2287	2442	2495	2136	1629	2531	2478	2362	2297	2053	1889	1599	1321	1525	1655	1498	1153	1030	997	886
Oxygen Reduction Potential	mV	185.3	10.7	40.9	-32.8	-35.8	-111.0	-194.5	-163.6	-67.2	6.4	-48.0	19.9	-128.9	-222.9	32.1	21.8	3.5	-188.8	-2.6	-36.6	-135.8	-112.6	-181.6	-132.5	-80.3	-41.7	-75.3	-173.0	-249.9	-122.1	-77.2	-229.4	-157.6
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L	2260		1270			431			621			843	1060	965	1130	1160	1120	1010	1280	1130	1030	954	971	870	687	456	573	621	535	414	335	282	213
pH (Lab)	SU	7.60		7.52			7.47			7.59			7.32	7.43	7.18	6.95	7.45	7.49	7.45	7.37	7.57	7.54	7.60	7.90	7.60	7.75	7.58	7.79	7.76	7.48	7.24	7.73	7.54	7.65
Total Dissolved Solids (Lab)	mg/L	5100		2840			875			1150			1630	1840	1840	2040	2020	1990	1830	2290	2050	1990	1840	1870	1620	1290	940	1030	1060	940	755	680	575	440
Calcium	mg/L	367		216			75.9			103			136	173	150	179	184	176	154	201	174	159	145	152	133	109	76.8	91.5	99.1	86.9	70.5	58.1	49.2	39.8
Magnesium	mg/L	325		177			58.7			88.3			122	153	143	165	171	166	152	189	170	154	144	143	131	101	64.2	83.5	90.6	77.2	57.8	46.2	38.6	27.5
Sodium	mg/L	459		248			129			153			172	203	188	194	194	188	169	177	166	162	158	163	150	139	125	128	132	131	123	122	119	115
Potassium	mg/L	173		64.5			14			13.7			11.3	11	7.82	7.2	6.04	5.96	5.22	5.69	4.99	5.22	<5.00	4.84	4.34	4.04	3.14	< 5.00	3.34	3.47	3.11	2.89	2.63	2.48
Alkalinity, Total	mg/L	205		315			371			381			355	320	353	335	329	336	346	330	380	365	365	337	310	368	470	390	355	355	360	430	410	440
Alkalinity, Bicarbonate	mg/L	205		315			371			381			355	320	353	335	329	336	346	330	380	365	365	337	310	368	470	390	355	355	360	430	410	440
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	256		43.7			5.73			8.7			11.4	11	11.7	12.2	12.4	11	10.5	12.6	11.1	10.5	10.9	10.7	9.29	6.75	5.09	5.75	6.09	6.04	4.47	3.61	3.06	2.18
Fluoride	mg/L	0.53		<0.500			0.324			<0.500			<0.500	0.352	<0.500	0.346	0.356	0.318	0.34	0.418	0.306	0.328	<0.500	0.31	0.322	0.328	0.254	< 0.200	0.24	< 0.500	0.306	0.316	0.335	0.344
Sulfate as SO4	mg/L	3050		1790			338			492			830	951	904	1260	1170	1020	978	1300	1100	555	931	1010	848	563	366	500	534	451	298	209	144	63
Total Organic Carbon (TOC)	mg/L	3.46		2.61			1.57			1.78			1.85	1.76	1.84	1.87	1.93	3.17	1.81	1.91	1.94	1.83	1.74	2.08	1.29	2.13	<2.5	1.66	0.764	1.7	1.74	1.36	1.36	1.13
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA			NA			1.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.250		<0.250			<0.050			<0.050			<0.100	<0.250	<0.150	<0.250	<0.250	<0.150	<0.100	<0.100	<0.250	<0.250	<0.100	<0.100	<0.100	<0.100	<0.100	< 0.250	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050	
Arsenic	mg/L	0.0039		0.0049			0.0036			0.0038			0.0035	0.0044	0.0034	0.0038	0.0036	0.0038	0.0039	0.0038	0.0042	0.0034	0.0034	0.0043	0.0054	0.003	< 0.0025	0.004	0.0052	0.003	0.003	0.003	0.0027	
Cadmium	mg/L	<0.0005		<0.0005			<0.0001			<0.0001			<0.0002	<0.0002	<0.0005	<0.0003	<0.0005	<0.0005	<0.0015	<0.0010	<0.0010	<0.0010	<0.0025	<0.001	<0.0010	<0.0025	<0.0010	< 0.0025	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0005	
Copper	mg/L	0.0135		0.0064			0.0017			0.0018			0.0069	0.0014	<0.0025	<0.0015	<0.0025	<0.0025	0.0042	0.0046	0.004	0.0044	0.0038	0.0054	0.003	0.01	0.0016	< 0.0025	0.0032	0.006	0.005	0.0135	0.0088	0.0106
Iron	mg/L	<0.250		<0.250			<0.050			<0.050			<0.100	<0.250	<0.150	<0.250	<0.250	<0.150	<0.100	<0.100	<0.250	<0.250	<0.100	<0.100	0.152	<0.1	< 0.250	< 0.100	< 0.100	< 0.100	< 0.050	< 0.050	< 0.050	
Lead	mg/L	<0.0025		<0.0025			<0.0005			<0.0005			<0.0010	<0.001	<0.0025	<0.0015	<0.0025	<0.0015	<0.0010	<0.0010	<0.0010	<0.0025	<0.001	<0.0010	<0.0025	<0.001	< 0.0025	< 0.0010	< 0.0025	< 0.0010	< 0.0005	0.0008	0.0011	
Manganese	mg/L	0.383		0.223			0.0692			0.148			0.166	0.184	0.171	0.267	0.292	0.253	0.203	0.257	0.263	0.339	0.249	0.174	0.22	0.221	0.0961	0.111	0.0727	0.215	0.082	0.0359	0.0719	0.0411
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002												
Mercury (dissolved low-level)	ng/L																																	
Molybdenum	mg/L	0.049		0.0169			0.0037			0.0025			0.0022	0.002	<0.0025	0.0023	<0.0025	<0.0025	0.0016	0.0013	0.0013	<0.0025	<0.0014	<0.0011	<0.0025	<0.0010	< 0.0025	< 0.0010	< 0.0010	< 0.0010	0.0007	0.0005	< 0.0005	
Selenium	mg/L	0.008		<0.0050			<0.0010			<0.0010			<0.0020	<0.002	<0.0050	<0.0030	<0.0050	0.0151	<0.0030	<0.0020	<0.0040	<0.0020	<0.0050	0.0028	0.0026	0.006	0.0028	< 0.0050	0.0031	< 0.0020	0.0241	< 0.0010	< 0.0010	0.0132
Silica (SiO2)	mg/L	10.5		13.5			17.0			17.4			15.9	17.1	15.1	14.7	16.0	15.6	16.4	16.8	16.6	16.0	15.5	17.3	16.7	16.8	17.4	16.3	17.2	16.4	17.2	18.2	16.9	17.7
Silicon	mg/L	4.91		6.29			7.96			8.12			7.43	7.97	7.07	6.88	7.47	7.3	7.68	7.85	7.75	7.49	7.24	7.8	7.84	8.12	7.64	8.06	7.68	8.02	8.52	7.92	8.27	

Notes & Definitions:

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|---|--|
| <p>^ one-time analysis</p> <p>Y/N yes or no</p> <p>gpm gallons per minute</p> <p>deg C degrees Celsius</p> <p>SU standard pH units</p> <p>µS/cm microsiemens per centimeter</p> <p>mV millivolts</p> <p>mg/L milligram per liter</p> <p>pCi/L picocuries per liter</p> <p>NM not measured (field)</p> <p>NA not analyzed (lab)</p> <p>ng/L nanogram per liter</p> | <ol style="list-style-type: none"> 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. |
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GCC Energy Hydrologic Monitoring Data

MW-7-EAA																																		
Year	2018	2019											2020				2021				2022				2023				2024				2025	
Quarter	Q4	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	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	8/6	11/18	1/25	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	1.10	1.10	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.25	0.13	0.25	0.25	0.13	0.25	0.25	0.25	0.25	0.25	0.25	0.20	0.11	0.16	0.17	0.10	0.07	0.06	0.01	0.15	
Total Purged	gal	15.0	18.0	15.0	3.0	15.0	16.0	15.3	15.3	17.0	15.0	15.0	36.5	15.0	16.0	17.0	15.0	17.0	17.0	18.0	18.0	17.0	17.0	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
Depth to Water	ft bgs	36.13	36.27	36.45	36.52	36.70	36.25	36.22	36.48	36.49	36.88	36.85	36.72	35.40	36.35	37.10	36.20	35.33	36.91	35.92	35.90	35.70	36.71	36.40	35.85	29.10	28.40	25.60	27.45	25.40	26.30	25.00	25.00	
Temperature	deg C	10.0	10.0	10.0	9.9	10.1	10.4	10.4	10.6	10.5	10.3	10.4	10.6	10.4	12.1	10.3	10.3	10.1	10.5	10.9	10.6	10.5	10.7	10.8	11.1	13.1	11.7	11.8	11.4	10.1	12.9	11.6	9.0	9.8
pH	SU	6.99	7.01	7.04	6.93	7.00	7.06	7.07	6.28	6.95	7.06	7.03	7.06	6.91	7.17	7.09	7.12	7.14	7.19	7.24	7.23	7.12	7.15	7.14	6.28	7.28	7.16	7.11	7.16	7.24	6.90	6.89	6.94	6.88
Specific Conductance	µS/cm	2001	1910	1910	1926	1912	1767	1836	1885	1890	1913	1936	1922	1993	1890	1772	1628	1672	1805	1814	1878	1882	1896	1880	1808	1754	1785	1831	1966	2082	1905	1932	2069	2062
Oxygen Reduction Potential	mV	-68.0	-36.7	-41.4	-38.1	-48.8	14.1	-13.8	-33.9	-37.8	-29.5	-25.6	-21.3	0.9	-49.2	17.6	-8.6	2.2	-55.8	-41.9	-20.4	-133.6	-73.8	-196.7	-86.9	-10.9	-32.4	-60.3	-117.9	-133.9	-102.0	-59.0	-160.4	-70.9
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L	936		1030			982			997			1020	963	1020	1080	939	1090	958	986	957	1040	958	916	962	1020	952	902	1010	1080	1080	1030	997	993
pH (Lab)	SU	7.2		7.37			7.17			7.09			6.99	6.92	6.89	7.23	7.06	6.99	6.92	7.03	7.01	7.11	7.12	7.24	7.18	6.95	6.95	7.25	7.16	6.84	7.07	7.1	7.13	7.09
Total Dissolved Solids (Lab)	mg/L	1460		1480			1490			1480			1530	1520	1430	1480	1450	1590	1460	1510	1580	1500	1500	1490	1420	1500	1400	1450	1560	1570	1550	1550	1650	1540
Calcium	mg/L	170		179			171			173			162	165	175	183	157	186	167	167	164	173	166	154	165	174	161	151	173	184	186	177	170	169
Magnesium	mg/L	124		142			135			137			144	134	142	150	133	152	131	138	133	149	132	129	134	143	134	127	141	150	149	141	139	139
Sodium	mg/L	75.3		81.3			75			75.2			74.9	73.7	76	80.9	73.4	81.4	75	74.6	72	77.8	71.9	71.6	72.3	76.3	75.6	69.2	77.1	80.6	80.5	77.1	78.1	75.6
Potassium	mg/L	3.87		3.9			<5.00			3.74			3.74	3.82	<5.00	<5.00	<5.00	4.25	<5.00	<5.00	3.69	3.88	3.59	3.71	3.66	<5.00	3.63	< 5.00	3.46	3.62	3.84	3.78	3.65	< 5.00
Alkalinity, Total	mg/L	380		367			405			392			350	357	355	268	430	420	395	340	440	425	425	400	310	378	410	437	425	440	455	437	460	440
Alkalinity, Bicarbonate	mg/L	380		367			405			392			425	357	355	268	430	420	395	340	440	425	425	400	310	378	410	437	425	440	455	437	460	440
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	11.9		10.7			10.8			10.9			11.6	10.3	10.7	10.2	10.1	10.4	10.1	10.5	10.3	10.1	10.3	11.2	11	11.1	10.8	11.8	11.9	11.5	11.4	11.6	11.2	12.8
Fluoride	mg/L	<0.500		0.332			0.322			0.322			<0.500	0.354	0.33	0.322	0.322	0.300	0.304	0.312	0.26	0.292	<0.200	0.31	0.306	0.340	0.262	< 0.200	0.238	0.282	0.298	< 0.500	0.314	< 0.500
Sulfate as SO4	mg/L	732		736			733			844			746	774	803	767	742	757	746	796	751	755	743	759	761	827	709	719	828	842	821	790	747	867
Total Organic Carbon (TOC)	mg/L	3.72		3.57			3.73			3.70			3.45	3.42	3.63	4.01	3.39	3.00	3.42	3.63	3.38	3.50	3.42	3.38	2.12	3.68	3.31	5.57	4.24	5.38	5.12	4.40	4.99	5.11
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.100	
Ammonia as N ^	mg/L	NA		NA			NA			NA			0.178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aluminum	mg/L	<0.050		<0.100			<0.250			<0.100			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.250	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.150	< 0.100	< 0.050	0.197	< 0.250
Arsenic	mg/L	0.0014		0.0015			0.0013			0.0016			0.0013	0.0013	0.0011	<0.0015	<0.0025	0.0016	<0.0025	<0.0025	0.0011	0.0009	0.0014	<0.0025	0.0013	<0.0025	<0.0025	< 0.0025	0.001	< 0.0020	< 0.0020	< 0.0010	< 0.0010	< 0.0050
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0002	<0.0002	<0.0002	<0.0003	<0.0005	<0.0001	<0.0025	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0025	
Copper	mg/L	0.0003		0.0018			0.0011			0.0008			0.0006	<0.0010	<0.0010	<0.0015	<0.0025	0.0007	<0.0025	<0.0025	0.0018	0.0021	0.0036	<0.0025	0.003	<0.0025	0.0028	0.0032	0.0018	0.0048	0.0044	0.0045	0.0186	< 0.0050
Iron	mg/L	1.82		1.95			1.81			2.12			2	1.84	1.71	2.16	2.15	2.08	1.92	1.75	1.63	2.05	1.69	1.75	1.57	1.99	0.265	< 0.250	0.251	0.259	0.421	0.379	0.404	1.75
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0010	<0.001	<0.0																			

GCC Energy Hydrologic Monitoring Data

MW-8-EAA																																		
Year	2018	2019											2020				2021				2022				2023				2024				2025	
Quarter	Q4	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	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	8/6	11/21	1/25	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																																		
Purge Flow Rate	gpm	0.85	1.10	0.50	3.00	0.50	0.75	1.00	1.00	0.75	0.50	1.00	0.25	1.00	0.25	0.13	0.13	0.13	0.13	0.25	0.25	0.25	0.25	0.25	0.33	0.11	0.09	0.38	0.15	0.60	0.06	0.09	0.11	
Total Purged	gal	18.0	14.0	15.0	3.0	15.0	17.0	15.3	15.3	18.0	15.3	15.5	15.0	15.2	15.0	16.0	15.0	15.0	16.0	15.0	15.0	16.0	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Depth to Water	ft bgs	40.00	39.95	40.10	43.45	40.44	40.05	39.94	40.10	40.08	40.25	40.31	40.22	40.40	40.45	34.50	40.83	41.22	41.00	40.98	48.04	40.95	41.00	41.30	41.30	41.50	37.19	37.40	34.90	36.45	31.78	32.91	33.00	32.52
Temperature	deg C	10.3	10.2	10.0	9.9	10.3	10.5	10.6	10.5	10.6	10.3	10.2	11.2	10.5	11.0	11.1	11.0	10.9	11.0	11.2	10.7	10.7	10.8	10.7	9.7	11.0	11.6	12.2	12.3	9.8	11.7	12.2	10.9	9.9
pH	SU	7.12	7.09	7.13	7.17	7.09	7.02	7.17	7.09	7.05	7.03	6.99	6.99	6.99	7.14	7.19	7.19	7.20	7.27	7.31	7.30	7.18	7.23	7.23	6.59	7.20	7.27	7.23	7.07	7.35	6.97	7.02	7.06	6.92
Specific Conductance	µS/cm	1781	1696	1720	1725	1729	1628	1676	1699	172	1739	1774	1739	1758	1760	1675	1716	1570	1642	1671	1746	1750	1763	1763	1793	1665	1766	1742	1761	1955	1849	1851	1848	1971
Oxygen Reduction Potential	mV	-65.0	-52.8	-51.8	-53.0	-59.7	11.0	-29.5	-46.6	-44.8	-33.5	-38.8	-39.2	-18.2	-72.4	1.4	-14.7	-20.2	-63.3	-57.4	-37.2	-156.9	-111.7	-230.9	-23.9	182.6	-81.5	-86.6	-103.6	-175.8	-96.2	-99.4	-147.0	-73.2
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L	870		861			864						867	861	907	937	810	914	838	859	859	937	867	831	871	940	932	887	901	962	975	957	936	918
pH (Lab)	SU	7.28		7.36			7.13						7.01	7.11	6.96	7.18	7.1	7.03	6.97	7.06	6.81	7.19	7.16	7.27	7.25	7.05	7.03	7.33	7.43	7.02	7.2	7.17	7.3	7.19
Total Dissolved Solids (Lab)	mg/L	1220		1290			1240						1380	1290	1260	1280	1310	1400	1320	1320	1340	1380	1330	1360	1300	1320	1350	1400	1430	1480	1420	1460	1470	1460
Calcium	mg/L	152		151			148						143	149	153	160	134	156	146	146	149	158	150	143	149	163	159	152	156	168	169	167	162	158
Magnesium	mg/L	119		118			120						124	119	127	130	115	127	115	120	118	131	119	115	121	130	130	123	125	132	134	131	129	127
Sodium	mg/L	81.7		82.6			77.2						77.1	77.2	77.7	82.9	74.3	80.9	76.1	75.8	74.9	81.2	75	75	75.3	80.5	79.8	75.5	77.4	79.4	80.3	78.8	81.2	77.7
Potassium	mg/L	3.8		3.27			3.55						3.52	3.8	<5.00	<5.00	<5.00	3.63	3.49	<5.00	3.36	3.65	3.35	3.45	3.42	<5.00	3.73	< 5.00	3.24	3.58	3.61	3.69	3.7	< 5.00
Alkalinity, Total	mg/L	400		435			450						445	404	385	288	480	450	445	385	490	460	465	480	430	417	448	417	415	435	475	480	470	465
Alkalinity, Bicarbonate	mg/L	400		435			450						445	404	385	288	480	450	445	385	490	460	465	480	430	417	448	417	415	435	475	480	470	465
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	9.83		10.5			10.3						11	10.2	10.3	10.1	11.3	10.4	10.2	10.3	10.5	10.6	11.7	11.4	11.6	11.8	12.2	12.2	12.3	11.8	12.2	12.5	12.6	
Fluoride	mg/L	0.38		0.37			0.338						<0.500	0.33	0.346	0.336	0.334	0.292	0.306	0.35	0.272	0.304	0.204	0.332	0.316	0.358	0.284	< 0.200	0.266	0.33	0.312	< 0.500	< 0.500	< 0.500
Sulfate as SO4	mg/L	533		559			606						577	602	625	605	582	609	595	615	599	608	597	627	619	686	675	685	748	768	731	713	697	732
Total Organic Carbon (TOC)	mg/L	3.77		3.59			3.77						3.52	3.49	3.56	3.82	3.54	3.04	3.65	3.71	3.48	3.49	3.56	3.64	1.82	3.63	3.25	5.64	3.64	4.76	4	4.2	5.82	5.25
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020						<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.493	<0.020	< 0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.100		<0.100			<0.050						<0.050	<0.100	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.100	< 0.050	< 0.050	< 0.250		
Arsenic	mg/L	0.002		0.0018			0.0018						0.0018	0.0017	0.0017	0.0018	<0.0025	0.0018	0.0018	<0.0025	0.0017	0.0015	0.0019	<0.0025	0.002	0.0027	<0.0025	< 0.0025	0.002	< 0.0020	< 0.0020	0.0015	0.0016	< 0.0050
Cadmium	mg/L	<0.0001		<0.0002			<0.0001						<0.0001	<0.0002	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0005	< 0.0005	< 0.0025	
Copper	mg/L	0.0004		0.0024			0.0023						0.001	0.001	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	0.0017	0.0021	0.0031	<0.0025	0.0021	<0.0025	0.0084	< 0.0025	0.002	0.0048	0.003	0.0033	0.016	< 0.0050
Iron	mg/L	2.12		2.13			2.42						2.3	2.28	2.29	2.31	0.762	2.33	2.25	2.2	2.22	2.52	2.22	2.28	2.27	2.43	2.43	2.19	2.24	2.34	2.37	2.32	2.23	2.23
Lead	mg/L	<0.0005		<0.0010			<0.0005						<0.0005	<0.001	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0					

GCC Energy Hydrologic Monitoring Data

MW-8-MI																																		
Year	2018	2019											2020				2021				2022				2023				2024				2025	
Quarter	Q4	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	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	8/6	11/21	1/25	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	1.10	1.00	0.50	3.00	0.50	0.50	0.25	0.50	0.75	0.50	1.00	0.25	0.25	0.13	0.10	0.25	0.25	0.13	0.25	0.25	0.25	0.13	0.15	0.50	0.12	0.13	0.23	0.19	0.11	0.18	0.17	0.19	0.09
Total Purged	gal	27.5	18.0	1.0	3.0	1.5	2.5	2.5	2.3	3.0	2.0	2.5	1.0	1.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0	0.8	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
Depth to Water	ft bgs	45.75	43.48	43.50	44.30	44.47	44.10	44.24	44.45	44.59	44.90	45.12	45.10	45.20	45.42	45.84	46.24	46.38	46.54	47.27	46.84	47.69	48.00	48.00	48.25	47.75	44.65	44.52	42.85	43.51	39.90	40.52	40.62	40.25
Temperature	deg C	10.8	10.8	10.6	11.2	10.4	11.1	11.4	11.0	11.4	10.9	10.3	11.4	10.2	11.3	13.1	11.3	10.0	11.6	11.9	11.1	10.9	12.5	14.3	9.9	11.7	11.5	11.9	12.1	10.3	12.3	12.6	11.2	10.4
pH	SU	7.57	7.50	7.48	7.47	7.34	7.31	7.48	7.42	7.38	7.30	7.23	7.15	7.08	7.44	7.44	7.43	7.47	7.59	7.55	7.56	7.41	7.54	7.59	6.92	7.52	7.54	7.51	7.52	7.66	7.33	7.28	7.35	7.21
Specific Conductance	µS/cm	1786	1667	1651	1658	1643	1595	1639	1645	1658	1637	1689	1642	1651	1659	1598	1628	1468	1616	1554	1629	1596	1575	1505	1631	1632	1607	1538	1544	1642	1526	1580	1578	1673
Oxygen Reduction Potential	mV	-84.4	-177.1	-122.1	-113.3	-87.2	-54.4	-97.1	-116.4	-119.4	-88.4	-82.0	-59.3	-136.6	-184.9	-107.0	-112.2	-72.0	-131.9	-123.1	-115.9	-195.3	-150.6	-262.2	-172.4	-79.7	-134.6	-148.3	-178.2	-22.8	-160.5	-118.0	-249.6	-122.3
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L	167		249			273						267	254	309	355	339	376	288	377	317	406	378	374	390	405	388	363	361	366	388	389	386	389
pH (Lab)	SU	7.73		7.54			7.24						7.44	7.53	7.25	7.34	7.27	7.33	7.36	7.31	7.06	7.36	7.38	7.7	7.45	7.3	7.36	7.67	7.66	7.11	7.47	7.44	7.48	7.42
Total Dissolved Solids (Lab)	mg/L	1050		1030			1100						1050	1060	1040	1010	1040	1060	1040	1000	1100	1050	1040	1050	990	1050	995	1060	1050	995	985	1030	995	1040
Calcium	mg/L	34		48.5			52.4						51.3	48.7	58.5	65.9	62.6	69.7	54	70.3	59.8	75.5	71.2	69.2	72.3	76	72.1	67.4	66.3	68.4	72.9	73.5	71.3	70.3
Magnesium	mg/L	19.9		31			34.5						33.8	32.1	39.6	46.2	44.4	49.1	37.2	48.9	40.8	52.7	48.7	48.8	50.8	52.3	50.4	47.1	47.5	47.4	50.1	50	50.6	51.9
Sodium	mg/L	344		312			289						275	269	272	260	232	237	256	229	238	226	220	213	210	230	236	216	215	219	221	228	217	207
Potassium	mg/L	4.47		5.25			<5.00						5.07	4.71	5	5.56	5.22	5.88	5.05	5.69	5.14	5.98	5.47	5.59	5.63	5.44	6.18	5.09	5.12	5.38	5.65	5.73	5.73	5.70
Alkalinity, Total	mg/L	500		565			560						585	543	545	448	590	590	575	570	605	590	590	500	540	550	568	553	560	555	595	580	610	585
Alkalinity, Bicarbonate	mg/L	500		565			560						585	543	545	448	590	590	575	570	605	590	590	500	540	550	568	553	560	555	595	580	610	585
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	12.7		10			9.33						9.66	8.19	8.23	8.12	7.91	7.96	8.07	7.85	7.91	7.7	8.36	8.88	8.6	8.56	8.39	8.8	8.35	8.67	8.73	9.13	8.77	9.71
Fluoride	mg/L	<0.500		<0.200			<0.200						<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.112	<0.200	<0.200	<0.200	<0.500	<0.500	<0.500	
Sulfate as SO4	mg/L	347		353			343						317	314	316	335	319	326	314	324	312	325	322	352	351	335	327	323	320	329	329	356	319	378
Total Organic Carbon (TOC)	mg/L	2.73		2.83			2.81						2.65	2.60	2.94	2.87	2.76	2.60	2.74	2.97	2.66	2.77	2.77	2.96	1.66	2.75	2.62	4.25	2.76	3.44	2.70	2.80	2.93	3.02
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020						<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Ammonia as N ^	mg/L	NA		NA			NA						1.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA						<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250						<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	<0.250	<0.100	<0.100	<0.100	<0.050	<0.050	
Arsenic	mg/L	0.0008		<0.0010			0.0006						0.0005	<0.0010	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	0.0006	<0.0025	0.001	<0.0025	<0.0025	<0.0025	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	
Cadmium	mg/L	<0.0001		<0.0002			<0.0001						<0.0001	<0.0002	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Copper	mg/L	0.0031		0.0066			0.0036						0.0037	0.0027	<0.0010	<0.0015	<0.0025	0.0015	0.0046	0.0047	0.0054	0.0055	0.0087	0.0038	0.0044	0.0025	0.0104	0.0031	0.0044	0.0088	0.0083	0.0081	0.0086	
Iron	mg/L	0.137		0.162			<0.250						0.13	0.108	<0.250	<0.250	<0.250	<0.150	0.113	<0.250	0.168	0.113	0.09	<0.100	<0.100	<0.250	0.082	<0.250	<0.100	0.135	0.127	0.078	0.051	
Lead	mg/L	<0.0005		<0.0010			<0.0005						<0.0005	<0.0010	<0.0025	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<									

GCC Energy Hydrologic Monitoring Data

MW-8-LM																																		
Year	2018	2019												2020				2021				2022				2023				2024				2025
Quarter	Q4	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	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	
Sample Date	12/28	1/29	2/19	3/21	4/16	5/29	6/18	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	8/6	11/21	1/25	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																																		
Purge Flow Rate	gpm	NM	1.00	0.25	1.00	0.50	0.10	0.25	0.25	0.50	0.25	0.12	0.25	0.25	0.25	0.13	0.13	0.13	0.25	0.25	0.25	0.15	NM	0.14	0.03	0.16	0.20	0.15	0.20	0.18	0.14	0.19		
Total Purged	gal	30.0	4.0	1.5	1.0	2.0	1.3	6.8	2.0	2.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7		
Depth to Water	ft bgs	136.39	130.52	134.30	144.03	140.03	137.48	142.23	144.15	138.06	137.50	137.60	137.34	139.15	129.70	127.90	125.75	126.72	126.13	125.25	123.55	124.10	123.75	126.81	NM	126.10	125.80	126.12	125.92	124.95	125.05	125.12	125.05	126.05
Temperature	deg C	4.1	13.9	13.2	8.7	13.6	13.9	12.8	13.7	13.4	13.0	11.7	13.3	11.4	13.4	13.6	8.8	12.1	12.8	13.5	12.5	12.3	14.1	13.4	11.9	12.7	13.0	13.1	13.2	11.5	12.8	13.8	12.3	10.4
pH	SU	8.37	8.70	8.71	8.41	8.70	8.50	8.66	8.64	8.58	8.44	8.44	8.47	7.98	8.76	8.83	8.81	8.82	8.90	8.90	8.91	8.79	8.84	8.82	8.29	8.88	8.88	8.83	8.84	8.94	8.66	8.67	8.44	8.62
Specific Conductance	µS/cm	2306	1274	1265	1310	1262	1234	1264	1226	1269	1252	1299	1255	1294	1282	1055	1117	1132	1121	1196	1262	1260	1232	1255	1276	1233	1252	1241	1224	1305	1229	1227	1261	1365
Oxygen Reduction Potential	mV	37.5	-114.3	112.8	77.0	-36.2	33.2	-63.9	-93.5	-103.0	-115.9	-94.4	-47.4	-106.6	-204.5	-106.9	-93.6	-87.8	-164.1	-106.1	-99.3	-241.3	-149.4	-247.4	-66.9	-58.6	-137.0	-147.9	-210.0	-26.4	-149.5	-106.3	-179.2	-77.9
Lab Analytical Results:																																		
Hardness as CaCO3	mg/L	45.00		7.29		16.90			6.67			6.38	6.79	7.76	7.53	6.35	6.93	7.23	4.65	7.11	7.29	6.61	6.43	6.29	4.01	6.22	4.01	7.08	6.62	6.92	7.96	6.78	6.16	
pH (Lab)	SU	8.57		8.63		8.02			8.56			8.52	8.55	8.41	8.45	8.48	8.54	8.57	8.48	8.31	8.61	8.63	8.99	8.59	8.47	8.51	8.71	8.84	8.42	8.66	8.7	8.73	8.64	
Total Dissolved Solids (Lab)	mg/L	1420		770		780			785			780	840	730	740	700	795	720	740	760	740	795	755	685	765	745	805	755	755	760	760	750	775	
Calcium	mg/L	10.8		1.93		3.84			1.78			1.68	1.77	2.09	2.05	1.71	1.87	1.92	1.86	1.88	1.96	1.77	1.7	1.65	1.61	1.71	1.61	1.87	1.77	1.84	2.11	1.84	1.63	
Magnesium	mg/L	4.390		0.600		1.770			0.541			0.528	0.574	0.620	0.587	0.502	0.550	0.592	<0.500	0.587	0.580	0.530	0.532	0.524	<0.500	0.473	<0.500	0.583	0.534	0.563	0.655	0.532	0.509	
Sodium	mg/L	382		341		317			306			305	309	315	337	304	319	315	308	291	316	298	298	301	287	315	289	299	304	311	304	310	300	
Potassium	mg/L	45.7		3.49		<5.00			2.27			2.18	2.06	<5.00	<5.00	<5.00	<3.00	2.24	<5.00	2.12	2.31	2.06	<2.00	2.12	<5.00	1.85	<5.00	2.07	2	2.13	2.22	2.07	<5.00	
Alkalinity, Total	mg/L	615		720		745			731			745	685	630	675	780	730	755	750	770	780	765	760	750	714	732	714	700	690	760	745	765	740	
Alkalinity, Bicarbonate	mg/L	535		610		645			645			685	595	530	585	680	630	645	650	620	640	655	580	510	666	732	646	620	640	640	665	665	670	
Alkalinity, Carbonate	mg/L	80		110		100			86			60	90	100	90	100	100	110	100	150	140	110	180	240	48	<10.0	68	80	50	120	80	100	70	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0		<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		
Chloride	mg/L	175		5.11		6.8			2.63			2.48	3.04	3.01	2.98	2.47	2.5	2.48	2.55	2.47	2.47	2.49	2.64	2.65	2.66	2.76	2.67	2.75	2.66	2.64	2.57	<5.00	<5.00	
Fluoride	mg/L	2.06		3.91		3.95			3.97			3.88	3.61	3.63	3.53	3.66	3.58	3.48	3.67	3.4	3.44	3.25	3.79	3.73	3.84	3.65	3.15	3.42	3.93	3.94	3.86	3.92	4.13	
Sulfate as SO4	mg/L	190		3.79		9.58			1.02			<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	0.886	<2.00	<2.00	<2.00	<2.00	<2.00	<5.00	<5.00	
Total Organic Carbon (TOC)	mg/L	2.80		1.80		3.33			1.94			1.69	1.69	1.92	1.82	1.66	1.20	1.71	1.79	1.60	1.70	1.72	1.77	1.13	1.73	1.43	1.89	1.70	2.43	1.70	1.72	1.61	1.94	
Nitrate/Nitrite as N	mg/L	<0.020		<0.020		<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020		
Ammonia as N ^	mg/L	NA		NA		NA			NA			0.282	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ortho-Phosphate as P ^	mg/L	NA		NA		NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aluminum	mg/L	<0.050		<0.100		<0.250			<0.050			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.050	<0.250	<0.250	<0.250	<0.050	<0.050	<0.100	<0.050	<0.250		
Arsenic	mg/L	0.0106		<0.0010		0.0006			0.0007			0.0006	<0.0005	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	0.0008	0.0008	<0.0025	<0.0005	<0.0025	<0.0015	<0.0025	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010		
Cadmium	mg/L	<0.0001		<0.0002		<0.0001			<0.0001			<0.0001	<0.0001	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0005	<0.0025	<0.0015	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005		
Copper	mg/L	0.0337		0.0077		0.0047			0.0041			0.0051	0.0033	0.0012	0.0017	<0.0025	0.0025	0.0057	0.0068	0.0065	0.0075	0.0167	0.0052	0.0079	0.0043	0.0155	0.004	0.0068	0.0128	0.0132	0.013	0.0143	0.013	
Iron	mg/L	<0.050		<0.100		<0.250			<0.050			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.050	<0.250	<0.250	<0.250	<0.050	<0.100	<0.100	<0.050	<0.050		
Lead	mg/L	<0.0005		<0.0010		<0.0005			<0.0005			<0.0010	<0.0005	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0005	<0.0025	0.0002	<0.0025	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005		
Manganese	mg/L	0.0258		0.0038		0.015			0.002			0.0026	0.0025	0.0029	0.0026	0.0028	0.0024	0.0021	0.0025	0.0023	0.0022	0.0027	<0.0025	0.0027	0.0028	0.0027	0.0028	0.0027	0.0034	0.0031	0.0029	0.0027	0.0022	
Mercury (dissolved)	mg/L	<0.0002		<0.0002		<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002										
Mercury (dissolved low-level)	ng/L																																	
Molybdenum	mg/L	0.0142		<0.0010		0.0009			<0.0005			<0.0005	<0.0005	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0005	<0.0025	<0.0015	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005		
Selenium	mg/L	0.002		<0.0020		<0.0010			<0.0010			<0.0010	<0.0010	<0.0020	<0.0030	<0.0050	0.0031	<0.0030	<0.0050	<0.0020	<0.0010	<0.0010	<0.0050	<0.0010	<0.0050	<0.0030	<0.0050	<0.0020	<0.0020	<0.0020	0.0013	<0.0010		
Silica (SiO2)	mg/L	9.09		8.45		8.68			8.28			7.77	7.62	7.4	7.84	7.4	8.17	8.21	7.82	8.28	8.44	8.13	7.63	8.45	6.83	7.53	6.17	8.14	7.52	7.8	7.8	8.31	8.23	
Silicon	mg/L	4.25		3.95		4.06			3.87			3.63	3.56	3.46	3.67	3.46	3.82	3.84	3.66	3.87	3.95	3.8	3.56	3.95	3.19	3.52	2.89	3.8	3.51	3.65	3.65	3.89	3.85	
Uranium	mg																																	

Notes & Definitions:

- | | | |
|-------|-----------------------------|---|
| ^ | one-time analysis | |
| Y/N | yes or no | 1. " <i><</i> " 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 CaCO ₃ . |
| μS/cm | microsiemens per centimeter | |
| mV | millivolts | |
| mg/L | milligram per liter | |
| pCi/L | picocuries per liter | 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. |
| NM | not measured (field) | |
| NA | not analyzed (lab) | |
| ng/L | nanogram per liter | |

GCC Energy Hydrologic Monitoring Data

MW-8-PL																																			
Year	2018	2019											2020				2021				2022				2023				2024				2025		
Quarter	Q4	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	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1		
Sample Date	12/27	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	8/6	11/21	1/25		
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
Field Parameters:																																			
Purge Flow Rate	gpm	0.25	1.00	0.50	3.00	0.50	0.25	0.50	1.00	0.50	0.50	0.75	0.25	0.25	0.25	0.25	0.75	0.25	0.25	0.25	0.25	0.25	0.13	1.00	0.22	0.18	0.13	0.16	0.22	0.13	0.13	0.13	0.13		
Total Purged	gal	20.0	5.0	2.0	3.0	2.0	3.0	2.5	2.3	2.5	2.0	2.5	1.3	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Depth to Water	ft bgs	125.97	126.29	126.40	127.10	126.98	126.70	126.82	127.25	127.38	127.42	127.48	127.59	127.32	127.34	128.00	127.31	127.50	127.83	127.89	127.90	128.30	128.40	128.53	128.75	128.10	128.05	128.48	128.50	128.25	128.19	128.36	128.10	127.75	
Temperature	deg C	10.3	14.2	13.4	12.9	13.2	14.2	14.8	14.7	14.9	14.0	13.2	14.9	13.8	14.8	14.9	14.1	12.9	14.6	14.8	13.4	14.1	14.3	12.8	13.2	14.2	13.4	13.3	12.2	13.1	13.5	12.6	11.8		
pH	SU	7.50	7.30	7.49	7.30	7.29	7.31	7.57	7.56	7.52	7.45	7.47	7.52	7.55	7.47	7.52	7.53	7.58	7.55	7.57	7.43	7.49	7.44	7.67	7.61	7.56	7.53	7.57	7.69	7.33	7.34	7.38	7.24		
Specific Conductance	µS/cm	1690	1531	1571	1558	1554	1411	1326	1165	1083	947	940	900	862	844	792	827	760	813	816	836	817	826	822	848	853	825	814	815	854	813	824	830	880	
Oxygen Reduction Potential	mV	30.2	-116.5	97.9	-108.7	-110.6	34.2	-57.6	-74.0	-79.5	-51.3	-52.5	-30.8	-59.9	-101.9	-38.0	-37.3	-11.5	-76.6	-64.4	-53.5	-161.9	-94.6	-215.9	-104.0	-36.3	-87.6	-113.8	-140.3	-210.9	-141.2	-101.5	-189.8	-90.2	
Lab Analytical Results:																																			
Hardness as CaCO3	mg/L	617		644			596				411			294	278	298	292	268	281	283	280	272	292	276	275	274	303	282	274	269	279	282	296	281	268
pH (Lab)	SU	7.28		7.4			7.26				7.22			7.39	7.47	7.19	7.16	7.41	7.36	7.41	7.29	7.16	7.42	7.47	7.88	7.39	7.33	7.36	7.51	7.7	7.26	7.52	7.56	7.55	7.54
Total Dissolved Solids (Lab)	mg/L	1150		1090			995				705			620	500	490	525	465	525	505	475	465	485	505	500	430	500	465	540	505	460	490	480	490	450
Calcium	mg/L	112		120			105				73.1			52.1	49.3	53.8	53.3	49.1	52.2	53.3	53	51.1	55.7	53.1	52.4	52	57.9	53.3	52.4	51.4	53.5	55.1	57.7	53.4	50.6
Magnesium	mg/L	82.1		83.8			81.4				55.4			39.7	37.6	39.7	38.5	35.4	36.6	36.5	35.9	35	37.1	34.9	35.1	34.9	38.4	36.1	34.8	34.1	35.4	35.2	36.9	35.9	34.4
Sodium	mg/L	106		124			102				91.7			83.3	78.5	80.4	81.6	77.2	78.6	79.7	77.8	73.7	80.8	75.4	76.3	75	81.7	77.4	75.3	75.1	76	78.2	77.5	78.1	74
Potassium	mg/L	5.14		5.62			<5.00				2.8			2.35	2.32	2.11	<2.00	<2.00	1.78	1.73	<2.00	1.54	1.71	1.48	1.53	1.55	<2.00	1.59	< 2.00	1.46	1.54	< 2.00	1.67	1.61	< 5.00
Alkalinity, Total	mg/L	370		415			435				393			390	339	340	315	410	370	385	360	385	362	380	356	410	350	388	350	335	370	375	375	405	365
Alkalinity, Bicarbonate	mg/L	370		415			435				393			390	339	340	315	410	370	385	360	385	362	380	340	410	338	388	350	335	370	375	375	405	365
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0				<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0				<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	18.8		18.5			9.03				5.61			5.66	3.51	3.38	3.33	3.32	3.39	3.30	3.33	3.38	3.33	3.34	3.66	3.51	3.7	3.61	3.67	3.58	3.56	3.48	3.37	3.62	
Fluoride	mg/L	0.505		0.474			0.29				0.291			<0.500	0.258	0.24	0.233	0.224	0.219	0.200	0.222	0.196	0.195	0.159	0.198	0.187	0.218	0.175	0.126	0.159	0.206	0.201	0.211	0.233	0.215
Sulfate as SO4	mg/L	478		471			390				232			127	109	103	99.2	99	101	96.3	102	98.4	100	94.7	106	107	107	106	104	104	106	107	106	102	108
Total Organic Carbon (TOC)	mg/L	4.17		4.02			2.92				2.21			1.75	1.63	1.63	1.61	1.44	0.928	1.42	1.54	1.4	1.54	1.36	1.6	0.774	1.44	1.15	1.59	< 1.00	1.45	1.46	1.4	1.47	1.5
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020				<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.052	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA				NA			0.199	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA				NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250				<0.050			<0.050	<0.050	<0.100	<0.100	<0.100	<0.050	<0.050	<0.100	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	< 0.100	< 0.050	< 0.050	< 0.100	< 0.050	< 0.050	< 0.250	
Arsenic	mg/L	0.0074		0.0124			0.019				0.0156			0.0104	0.0073	0.0075	0.0064	0.0058	0.0074	0.0055	0.0017	0.0051	0.0046	0.0047	0.0042	0.0037	0.0033	0.0036	0.0029	0.003	0.0029	0.0029	0.0026	0.0026	
Cadmium	mg/L	<0.0001		<0.0002			<0.0001				<0.0001			<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0025	<0.0005	< 0.0010	< 0.0005	< 0.0005	< 0.0010	< 0.0005	< 0.0005	
Copper	mg/L	0.0016		0.0025			0.0017				0.0011			0.0004	0.001	<0.0025	<0.001	0.0014	0.0005	0.0013	<0.0010	0.0015	0.0023	0.004	0.0014	0.0015	0.0028	0.0027	0.002	0.0026	0.003	0.0038	0.0039	0.0052	0.0029
Iron	mg/L	<0.050		0.352			<0.250				0.129			0.075	0.054	<0.100	<0.100	<0.100	<0.050	<0.050	<0.100	0.07	0.079	<0.050	0.063	0.057	<0.100	0.062	< 0.100	0.051	0.066	< 0.100	0.064	0.051	



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10 February 2025

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 01/27/25 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, appearing to read 'M. Notah', is written in a cursive style.

Maryann Notah
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-C25-00012

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: TX-C24-00112

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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:
02/10/25 13:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-8-LM	2501191-01	Water	01/25/25 12:32	01/27/25 15:00	
MW-8-PL	2501191-02	Water	01/25/25 13:02	01/27/25 15:00	
MW-8-MI	2501191-03	Water	01/25/25 13:20	01/27/25 15:00	
MW-8-EAA	2501191-04	Water	01/25/25 13:37	01/27/25 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:10

MW-8-LM

2501191-01 (Ground Water)

Sampled Date: 01/25/25 12:32

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	740	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	70.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	670	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-4.76	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	<5.00	5.00	2.49	mg/L	5	02/06/25 02:07	EPA 300.0		AWG
Fluoride*	4.13	0.500	0.168	mg/L	5	02/06/25 02:07	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 15:57	EPA 353.2		CAI
pH*	8.64			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.4			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	<5.00	5.00	2.81	mg/L	5	02/06/25 02:07	EPA 300.0		AWG
Total Dissolved Solids*	775	10.0		mg/L	1	01/29/25 16:08	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.94	0.500	0.290	mg/L	1	01/31/25 00:37	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Calcium*	1.63	0.500	0.362	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Hardness as CaCO ₃	6.16	3.31	2.54	mg/L	5	02/03/25 16:47	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Magnesium*	0.509	0.500	0.397	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Silica (SiO ₂)	8.23	5.35	1.01	mg/L	5	02/03/25 16:47	Calculation		AWG
Silicon	3.85	2.50	0.470	mg/L	5	02/03/25 16:47	EPA 200.7		AWG
Sodium*	300	5.00	3.78	mg/L	5	02/03/25 16:47	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Copper*	0.0130	0.0010	0.0003	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Manganese*	0.0022	0.0005	0.0002	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Molybdenum*	<0.0005	0.0005	0.00005	mg/L	1	02/04/25 14:10	EPA 200.8		AES

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Maryann Notah, 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:
02/10/25 13:10

MW-8-LM

2501191-01 (Ground Water)

Sampled Date: 01/25/25 12:32

Sampled By: Brandon Waddell

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

Selenium*	<0.0010	0.0010	0.0003	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Uranium	<0.0005	0.0005	0.00004	mg/L	1	02/04/25 14:10	EPA 200.8		AES
Zinc*	0.0089	0.0020	0.0006	mg/L	1	02/04/25 14:10	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:40	EPA 245.7		CAI
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A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:10

MW-8-PL

2501191-02 (Ground Water)

Sampled Date: 01/25/25 13:02

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	365	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	365	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	1.13	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	3.62	1.00	0.497	mg/L	1	02/06/25 02:31	EPA 300.0		AWG
Fluoride*	0.215	0.100	0.0336	mg/L	1	02/06/25 02:31	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 15:59	EPA 353.2		CAI
pH*	7.54			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.2			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	108	1.00	0.563	mg/L	1	02/06/25 02:31	EPA 300.0		AWG
Total Dissolved Solids*	450	10.0		mg/L	1	01/29/25 16:10	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.50	0.500	0.290	mg/L	1	01/31/25 01:02	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Calcium*	50.6	0.500	0.362	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Hardness as CaCO ₃	268	3.31	2.54	mg/L	5	02/03/25 16:49	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Magnesium*	34.4	0.500	0.397	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Silica (SiO ₂)	18.9	5.35	1.01	mg/L	5	02/03/25 16:49	Calculation		AWG
Silicon	8.83	2.50	0.470	mg/L	5	02/03/25 16:49	EPA 200.7		AWG
Sodium*	74.0	5.00	3.78	mg/L	5	02/03/25 16:49	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0026	0.0010	0.0006	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Copper*	0.0029	0.0010	0.0003	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Manganese*	0.0822	0.0005	0.0002	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Molybdenum*	<0.0005	0.0005	0.00005	mg/L	1	02/04/25 14:11	EPA 200.8		AES

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Maryann Notah, 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:
02/10/25 13:10

MW-8-PL

2501191-02 (Ground Water)

Sampled Date: 01/25/25 13:02

Sampled By: Brandon Waddell

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

Selenium*	<0.0010	0.0010	0.0003	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Uranium	<0.0005	0.0005	0.00004	mg/L	1	02/04/25 14:11	EPA 200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	02/04/25 14:11	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:43	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:10

MW-8-MI

2501191-03 (Ground Water)

Sampled Date: 01/25/25 13:20

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	585	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	585	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-5.36	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	9.71	5.00	2.49	mg/L	5	02/06/25 02:56	EPA 300.0		AWG
Fluoride*	<0.500	0.500	0.168	mg/L	5	02/06/25 02:56	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 16:00	EPA 353.2		CAI
pH*	7.42			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.3			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	378	5.00	2.81	mg/L	5	02/06/25 02:56	EPA 300.0		AWG
Total Dissolved Solids*	1040	10.0		mg/L	1	01/29/25 16:12	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	3.02	0.500	0.290	mg/L	1	01/31/25 01:22	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Calcium*	70.3	0.500	0.362	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Hardness as CaCO ₃	389	3.31	2.54	mg/L	5	02/03/25 16:51	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Magnesium*	51.9	0.500	0.397	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Potassium*	5.70	5.00	0.910	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Silica (SiO ₂)	13.5	5.35	1.01	mg/L	5	02/03/25 16:51	Calculation		AWG
Silicon	6.29	2.50	0.470	mg/L	5	02/03/25 16:51	EPA 200.7		AWG
Sodium*	207	5.00	3.78	mg/L	5	02/03/25 16:51	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Copper*	0.0083	0.0050	0.0015	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Manganese*	0.0619	0.0025	0.0009	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:13	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

MW-8-MI

2501191-03 (Ground Water)

Sampled Date: 01/25/25 13:20

Sampled By: Brandon Waddell

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

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/04/25 14:13	EPA 200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/04/25 14:13	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:46	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:10

MW-8-EAA

2501191-04 (Ground Water)

Sampled Date: 01/25/25 13:37

Sampled By: Brandon Waddell

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	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	465	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-3.62	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	12.6	5.00	2.49	mg/L	5	02/06/25 03:20	EPA 300.0		AWG
Fluoride*	<0.500	0.500	0.168	mg/L	5	02/06/25 03:20	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 16:01	EPA 353.2		CAI
pH*	7.19			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.2			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	732	5.00	2.81	mg/L	5	02/06/25 03:20	EPA 300.0		AWG
Total Dissolved Solids*	1460	10.0		mg/L	1	01/29/25 16:14	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	5.25	0.500	0.290	mg/L	1	01/31/25 01:42	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Calcium*	158	0.500	0.362	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Hardness as CaCO ₃	918	3.31	2.54	mg/L	5	02/03/25 16:53	2340 B		AWG
Iron*	2.23	0.250	0.099	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Magnesium*	127	0.500	0.397	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Silica (SiO ₂)	14.9	5.35	1.01	mg/L	5	02/03/25 16:53	Calculation		AWG
Silicon	6.97	2.50	0.470	mg/L	5	02/03/25 16:53	EPA 200.7		AWG
Sodium*	77.7	5.00	3.78	mg/L	5	02/03/25 16:53	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Copper*	<0.0050	0.0050	0.0015	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Manganese*	4.04	0.0025	0.0009	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:15	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

MW-8-EAA

2501191-04 (Ground Water)

Sampled Date: 01/25/25 13:37

Sampled By: Brandon Waddell

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

Dissolved Metals by ICPMS

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/04/25 14:15	EPA 200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/04/25 14:15	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:49	EPA 245.7		CAI
---------	------	-----	------	------	---	----------------	-----------	--	-----

Green Analytical Laboratories

A blue ink signature of Maryann Notah.

Maryann Notah, 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:
02/10/25 13:10

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250233 - Lachat										
Blank (B250233-BLK1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250233-BS1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110			
LCS Dup (B250233-BSD1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110	0.0980	20	
Batch B250240 - General Prep - Wet Chem										
Blank (B250240-BLK1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250240-BS1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115			
LCS Dup (B250240-BSD1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115	0.0983	20	
Batch B250243 - General Prep - Wet Chem										
Blank (B250243-BLK1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250243-SRM1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	410	10.0	mg/L	400		103	85-115			
Batch B250244 - General Prep - Wet Chem										
Blank (B250244-BLK1)				Prepared: 01/29/25 Analyzed: 01/30/25						
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 (B250244-BS1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115			
LCS Dup (B250244-BSD1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115	0.930	20	

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

General Chemistry - Quality Control (Continued)

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

Batch B250244 - General Prep - Wet Chem (Continued)

Reference (B250244-SRM1)

Prepared: 01/29/25 Analyzed: 01/30/25

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115
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Batch B250248 - General Prep - Wet Chem

Reference (B250248-SRM1)

Prepared & Analyzed: 01/29/25

pH	6.95		pH Units	7.00	99.3	98.57-101.42
----	------	--	----------	------	------	--------------

Batch B250290 - IC- Ion Chromatograph

Blank (B250290-BLK1)

Prepared & Analyzed: 02/05/25

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

LCS (B250290-BS1)

Prepared & Analyzed: 02/05/25

Chloride	24.9	1.00	mg/L	25.0	99.7	90-110
Fluoride	2.66	0.100	mg/L	2.50	106	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B250290-BSD1)

Prepared & Analyzed: 02/05/25

Chloride	25.6	1.00	mg/L	25.0	102	90-110	2.48	20
Fluoride	2.72	0.100	mg/L	2.50	109	90-110	2.08	20
Sulfate	25.6	1.00	mg/L	25.0	103	90-110	2.34	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

Dissolved Metals by ICP - Quality Control

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

Batch B250277 - Dissolved ICP

Blank (B250277-BLK1)

Prepared: 02/03/25 Analyzed: 02/04/25

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 (B250277-BS1)

Prepared & Analyzed: 02/03/25

Aluminum	3.92	0.050	mg/L	4.00	98.0	85-115
Calcium	3.80	0.100	mg/L	4.00	95.0	85-115
Iron	3.79	0.050	mg/L	4.00	94.7	85-115
Magnesium	19.5	0.100	mg/L	20.0	97.5	85-115
Potassium	7.87	1.00	mg/L	8.00	98.3	85-115
Silicon	4.00	0.500	mg/L	4.00	100	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B250277-BSD1)

Prepared & Analyzed: 02/03/25

Aluminum	3.93	0.050	mg/L	4.00	98.3	85-115	0.341	20
Calcium	3.84	0.100	mg/L	4.00	96.0	85-115	1.14	20
Iron	3.83	0.050	mg/L	4.00	95.6	85-115	0.982	20
Magnesium	19.8	0.100	mg/L	20.0	98.8	85-115	1.31	20
Potassium	7.82	1.00	mg/L	8.00	97.7	85-115	0.611	20
Silicon	4.02	0.500	mg/L	4.00	101	85-115	0.501	20
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115	1.00	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

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 B250281 - Dissolved ICPMS

Blank (B250281-BLK1)

Prepared & Analyzed: 02/04/25

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 (B250281-BS1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.3	85-115				
Cadmium	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Copper	0.0500	0.0010	mg/L	0.0500	100	85-115				
Lead	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.5	85-115				
Molybdenum	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Selenium	0.243	0.0010	mg/L	0.250	97.2	85-115				
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0502	0.0020	mg/L	0.0500	100	85-115				

LCS Dup (B250281-BSD1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.4	85-115	0.127	20		
Cadmium	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.235	20		
Copper	0.0501	0.0010	mg/L	0.0500	100	85-115	0.114	20		
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115	1.59	20		
Manganese	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.453	20		
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115	0.458	20		
Selenium	0.244	0.0010	mg/L	0.250	97.4	85-115	0.228	20		
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.00379	20		
Zinc	0.0506	0.0020	mg/L	0.0500	101	85-115	0.707	20		

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:10

Dissolved Mercury by CVAFS - Quality Control

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

Batch B250265 - EPA 245.7

Blank (B250265-BLK1)

Prepared: 02/03/25 Analyzed: 02/07/25

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

LCS (B250265-BS1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	961	100	ng/L	1000	96.1	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B250265-BSD1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	979	100	ng/L	1000	97.9	76-113	1.79	20
---------	-----	-----	------	------	------	--------	------	----

Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

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

Maryann Notah, 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:
02/10/25 13:10

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2501191-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-02	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-02	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-03	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-03	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-04	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501191-04	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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

Table of Contents

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

Company or Client: GCC Energy

Address: 6473 CR 120

City: Hesperus

State: CO Zip: 81326

Phone #: 970.385.4528

Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical

Email Report to: michael@summitmining.co; lbeck@strconsulting.com; tom@hayguthservices.com

Project Name(optional):

Sampler Name (Print):

Brandon Waddell

Bill to (if different):

ANALYSIS REQUEST

P.O. #:

Rush?

Y (N)

Collected

Matrix (check one)

of containers

Lab I.D.

Sample Name or Location

2581-141

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

MW-8-LM

MW-8-PL

MW-8-MI

MW-8-EAA

1-25-25

1-25-25

1-25-25

1-25-25

12:32

13:02

13:20

13:37

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 SW Baseline

GCC S&S 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 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:

Date: 1-27-25

Received By:

Date: 1-27-25

ADDITIONAL REMARKS:

Relinquished By:

Date: 1-27-25

Received By:

Date: 1-27-25

Relinquished By:

Date:

Received By:

Date:

Temperature at receipt:

Checked by:

On Ice?

Therm. used:

* 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: 01/27/2025 4:39 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Jeremy D Allen

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Michael Dickson

Comments:

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

 Date/Initials of person examining contents: 1-27-25
CLW

 Labeled by initials: MPN
 (if different than above)
Client Name: GCCWork Order # 2501-191
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: H2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 2.5 °C Correction Factor: -0.9 °C Final Temp: 1.6 °C
Compliance: ☐ Yes ☒ No

*Temp should be above freezing 6°C

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4. <u>COH for PH</u>
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>D:SS</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>W</u> SL OT	☒ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



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

10 February 2025

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 01/27/25 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, appearing to read 'M. Notah', is positioned above the printed name.

Maryann Notah
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-C25-00012

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: TX-C24-00112

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Chain of Custody & Attachments	14



GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

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

Reported:
 02/10/25 13:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-5-MI	2501190-01	Water	01/25/25 11:03	01/27/25 15:00	
MW-5-C	2501190-02	Water	01/25/25 11:28	01/27/25 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M Notah', is written over a horizontal line.

Maryann Notah, 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:
02/10/25 13:02

MW-5-MI

2501190-01 (Ground Water)

Sampled Date: 01/25/25 11:03

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	935	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	935	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-2.44	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	6.04	5.00	2.49	mg/L	5	02/06/25 00:29	EPA 300.0		AWG
Fluoride*	<0.500	0.500	0.168	mg/L	5	02/06/25 00:29	EPA 300.0		AWG
Nitrate/Nitrite as N*	0.030	0.020	0.013	mg/L as N	1	01/29/25 15:50	EPA 353.2		CAI
pH*	8.17			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.0			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	7.67	5.00	2.81	mg/L	5	02/06/25 00:29	EPA 300.0		AWG
Total Dissolved Solids*	1060	10.0		mg/L	1	01/29/25 16:04	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	2.85	0.500	0.290	mg/L	1	01/30/25 23:11	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Calcium*	2.37	0.500	0.362	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Hardness as CaCO ₃	9.64	3.31	2.54	mg/L	5	02/03/25 16:43	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Magnesium*	0.904	0.500	0.397	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Silica (SiO ₂)	8.35	5.35	1.01	mg/L	5	02/03/25 16:43	Calculation		AWG
Silicon	3.91	2.50	0.470	mg/L	5	02/03/25 16:43	EPA 200.7		AWG
Sodium*	399	5.00	3.78	mg/L	5	02/03/25 16:43	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0090	0.0010	0.0006	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Copper*	0.0182	0.0010	0.0003	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Lead*	0.0006	0.0005	0.0001	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Manganese*	0.0230	0.0005	0.0002	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Molybdenum*	0.0016	0.0005	0.00005	mg/L	1	02/04/25 14:07	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:02

MW-5-MI

2501190-01 (Ground Water)

Sampled Date: 01/25/25 11:03

Sampled By: Brandon Waddell

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

Selenium*	<0.0010	0.0010	0.0003	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Uranium	0.0051	0.0005	0.00004	mg/L	1	02/04/25 14:07	EPA 200.8		AES
Zinc*	0.0767	0.0020	0.0006	mg/L	1	02/04/25 14:07	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:08	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:02

MW-5-C

2501190-02 (Ground Water)

Sampled Date: 01/25/25 11:28

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	1830	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	1830	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-4.82	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	<5.00	5.00	2.49	mg/L	5	02/06/25 00:54	EPA 300.0		AWG
Fluoride*	2.57	0.500	0.168	mg/L	5	02/06/25 00:54	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 15:56	EPA 353.2		CAI
pH*	7.62			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.3			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	523	5.00	2.81	mg/L	5	02/06/25 00:54	EPA 300.0		AWG
Total Dissolved Solids*	2590	10.0		mg/L	1	01/29/25 16:06	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	2.19	0.500	0.290	mg/L	1	01/30/25 23:38	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Calcium*	8.13	0.500	0.362	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Hardness as CaCO ₃	32.9	3.31	2.54	mg/L	5	02/03/25 16:45	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Magnesium*	3.07	0.500	0.397	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Silica (SiO ₂)	7.51	5.35	1.01	mg/L	5	02/03/25 16:45	Calculation		AWG
Silicon	3.51	2.50	0.470	mg/L	5	02/03/25 16:45	EPA 200.7		AWG
Sodium*	968	5.00	3.78	mg/L	5	02/03/25 16:45	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Copper*	0.0401	0.0050	0.0015	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Manganese*	0.0090	0.0025	0.0009	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:08	EPA 200.8		AES

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Maryann Notah, 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:
02/10/25 13:02

MW-5-C

2501190-02 (Ground Water)

Sampled Date: 01/25/25 11:28

Sampled By: Brandon Waddell

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

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/04/25 14:08	EPA 200.8		AES
Zinc*	0.0123	0.0100	0.0030	mg/L	5	02/04/25 14:08	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:10	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 13:02

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250233 - Lachat										
Blank (B250233-BLK1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250233-BS1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110			
LCS Dup (B250233-BSD1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110	0.0980	20	
Batch B250240 - General Prep - Wet Chem										
Blank (B250240-BLK1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250240-BS1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115			
LCS Dup (B250240-BSD1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115	0.0983	20	
Batch B250243 - General Prep - Wet Chem										
Blank (B250243-BLK1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250243-SRM1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	410	10.0	mg/L	400		103	85-115			
Batch B250244 - General Prep - Wet Chem										
Blank (B250244-BLK1)				Prepared: 01/29/25 Analyzed: 01/30/25						
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 (B250244-BS1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115			
LCS Dup (B250244-BSD1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115	0.930	20	

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:02

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 B250244 - General Prep - Wet Chem (Continued)

Reference (B250244-SRM1)

Prepared: 01/29/25 Analyzed: 01/30/25

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115
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Batch B250248 - General Prep - Wet Chem

Reference (B250248-SRM1)

Prepared & Analyzed: 01/29/25

pH	6.95		pH Units	7.00	99.3	98.57-101.42
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Batch B250290 - IC- Ion Chromatograph

Blank (B250290-BLK1)

Prepared & Analyzed: 02/05/25

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

LCS (B250290-BS1)

Prepared & Analyzed: 02/05/25

Chloride	24.9	1.00	mg/L	25.0	99.7	90-110
Fluoride	2.66	0.100	mg/L	2.50	106	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B250290-BSD1)

Prepared & Analyzed: 02/05/25

Chloride	25.6	1.00	mg/L	25.0	102	90-110	2.48	20
Fluoride	2.72	0.100	mg/L	2.50	109	90-110	2.08	20
Sulfate	25.6	1.00	mg/L	25.0	103	90-110	2.34	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:02

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 B250277 - Dissolved ICP

Blank (B250277-BLK1)

Prepared: 02/03/25 Analyzed: 02/04/25

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 (B250277-BS1)

Prepared & Analyzed: 02/03/25

Aluminum	3.92	0.050	mg/L	4.00	98.0	85-115
Calcium	3.80	0.100	mg/L	4.00	95.0	85-115
Iron	3.79	0.050	mg/L	4.00	94.7	85-115
Magnesium	19.5	0.100	mg/L	20.0	97.5	85-115
Potassium	7.87	1.00	mg/L	8.00	98.3	85-115
Silicon	4.00	0.500	mg/L	4.00	100	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B250277-BSD1)

Prepared & Analyzed: 02/03/25

Aluminum	3.93	0.050	mg/L	4.00	98.3	85-115	0.341	20
Calcium	3.84	0.100	mg/L	4.00	96.0	85-115	1.14	20
Iron	3.83	0.050	mg/L	4.00	95.6	85-115	0.982	20
Magnesium	19.8	0.100	mg/L	20.0	98.8	85-115	1.31	20
Potassium	7.82	1.00	mg/L	8.00	97.7	85-115	0.611	20
Silicon	4.02	0.500	mg/L	4.00	101	85-115	0.501	20
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115	1.00	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:02

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 B250281 - Dissolved ICPMS

Blank (B250281-BLK1)

Prepared & Analyzed: 02/04/25

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 (B250281-BS1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.3	85-115				
Cadmium	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Copper	0.0500	0.0010	mg/L	0.0500	100	85-115				
Lead	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.5	85-115				
Molybdenum	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Selenium	0.243	0.0010	mg/L	0.250	97.2	85-115				
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0502	0.0020	mg/L	0.0500	100	85-115				

LCS Dup (B250281-BSD1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.4	85-115	0.127	20		
Cadmium	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.235	20		
Copper	0.0501	0.0010	mg/L	0.0500	100	85-115	0.114	20		
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115	1.59	20		
Manganese	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.453	20		
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115	0.458	20		
Selenium	0.244	0.0010	mg/L	0.250	97.4	85-115	0.228	20		
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.00379	20		
Zinc	0.0506	0.0020	mg/L	0.0500	101	85-115	0.707	20		

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 13:02

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 B250265 - EPA 245.7

Blank (B250265-BLK1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	ND	100	ng/L
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LCS (B250265-BS1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	961	100	ng/L	1000	96.1	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B250265-BSD1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	979	100	ng/L	1000	97.9	76-113	1.79	20
---------	-----	-----	------	------	------	--------	------	----

Notes and Definitions

H1	Sample was received several days after collected and subsequently analyzed past hold time.
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

Maryann Notah, 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:
02/10/25 13:02

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2501190-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501190-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501190-02	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501190-02	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah', is written over a horizontal line.

Maryann Notah, 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

Table of Contents

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

Company or Client: GCC Energy

Address: 6473 CR 120

City: Hesperus

State: CO Zip: 81326

Phone #: 970.385.4528

Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical

Email Report to: michael@summitmining.co; lbeck@slrconsulting.com; tom@hayguthservices.com

Project Name(optional):

P.O. #:

Rush?

Y N

Sample Name (Print): Brandon Waddell

Collected

Matrix (check one)

of containers

Lab I.D.

Sample Name or Location

2501-140

01 MW-5-MI

07 MW-5-C

Date Time

1-25-25 11:03

1-25-25 11:28

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 SW Baseline
GCC S&S Baseline

Bill to (if different):

ANALYSIS REQUEST

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:

Date: 1.27.25

Received By:

Date: 1.30.25

ADDITIONAL REMARKS:

Relinquished By:

Date: 1.15.25

Received By:

Date: 1.15.25

Relinquished By:

Date:

Received By:

Date:

Temperature at receipt:

Checked by:

On Ice?

Therm. used:

† 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: 01/27/2025 4:39 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Jeremy D Allen

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Michael Dickson

Comments:

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

 Date/Initials of person examining contents: 1-27-25
CLW

 Labeled by initials: _____
 (if different than above)
Client Name: GCCWork Order # 2501-190
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: H2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 2.5 °C Correction Factor: -0.9 °C Final Temp: 1.6 °C
Compliance: ☐ Yes ☒ No

*Temp should be above freezing 6°C

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4. <u>COH for PH</u>
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>D:SS</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>W</u> SL OT	☒ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☒ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



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

10 February 2025

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 01/27/25 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, appearing to read 'M. Notah', is written in a cursive style.

Maryann Notah
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-C25-00012

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: TX-C24-00112

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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:
02/10/25 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-98	2501188-01	Water	01/25/25 13:32	01/27/25 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah', is written over a horizontal line.

Maryann Notah, 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:
02/10/25 12:32

MW-98

2501188-01 (Ground Water)

Sampled Date: 01/25/25 13:32

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	735	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	110	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	625	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-4.65	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	<5.00	5.00	2.49	mg/L	5	02/05/25 23:40	EPA 300.0		AWG
Fluoride*	4.11	0.500	0.168	mg/L	5	02/05/25 23:40	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 15:48	EPA 353.2		CAI
pH*	8.66			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.0			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	<5.00	5.00	2.81	mg/L	5	02/05/25 23:40	EPA 300.0		AWG
Total Dissolved Solids*	615	10.0		mg/L	1	01/29/25 16:00	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.81	0.500	0.290	mg/L	1	01/30/25 22:25	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Calcium*	1.63	0.500	0.362	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Hardness as CaCO ₃	6.75	3.31	2.54	mg/L	5	02/03/25 16:36	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Magnesium*	0.651	0.500	0.397	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Silica (SiO ₂)	8.19	5.35	1.01	mg/L	5	02/03/25 16:36	Calculation		AWG
Silicon	3.83	2.50	0.470	mg/L	5	02/03/25 16:36	EPA 200.7		AWG
Sodium*	298	5.00	3.78	mg/L	5	02/03/25 16:36	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Copper*	0.0139	0.0010	0.0003	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Manganese*	0.0020	0.0005	0.0002	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Molybdenum*	<0.0005	0.0005	0.00005	mg/L	1	02/04/25 14:00	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:32

MW-98

2501188-01 (Ground Water)

Sampled Date: 01/25/25 13:32

Sampled By: Brandon Waddell

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

Selenium*	<0.0010	0.0010	0.0003	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Uranium	<0.0005	0.0005	0.00004	mg/L	1	02/04/25 14:00	EPA 200.8		AES
Zinc*	0.0109	0.0020	0.0006	mg/L	1	02/04/25 14:00	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:02	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 12:32

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250233 - Lachat										
Blank (B250233-BLK1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250233-BS1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110			
LCS Dup (B250233-BSD1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110	0.0980	20	
Batch B250240 - General Prep - Wet Chem										
Blank (B250240-BLK1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250240-BS1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115			
LCS Dup (B250240-BSD1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115	0.0983	20	
Batch B250243 - General Prep - Wet Chem										
Blank (B250243-BLK1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250243-SRM1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	410	10.0	mg/L	400		103	85-115			
Batch B250244 - General Prep - Wet Chem										
Blank (B250244-BLK1)				Prepared: 01/29/25 Analyzed: 01/30/25						
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 (B250244-BS1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115			
LCS Dup (B250244-BSD1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115	0.930	20	

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:32

General Chemistry - Quality Control (Continued)

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

Batch B250244 - General Prep - Wet Chem (Continued)

Reference (B250244-SRM1)

Prepared: 01/29/25 Analyzed: 01/30/25

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115
--	-----	------	------	-----	-----	--------

Batch B250248 - General Prep - Wet Chem

Reference (B250248-SRM1)

Prepared & Analyzed: 01/29/25

pH	6.95		pH Units	7.00	99.3	98.57-101.42
----	------	--	----------	------	------	--------------

Batch B250290 - IC- Ion Chromatograph

Blank (B250290-BLK1)

Prepared & Analyzed: 02/05/25

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

LCS (B250290-BS1)

Prepared & Analyzed: 02/05/25

Chloride	24.9	1.00	mg/L	25.0	99.7	90-110
Fluoride	2.66	0.100	mg/L	2.50	106	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B250290-BSD1)

Prepared & Analyzed: 02/05/25

Chloride	25.6	1.00	mg/L	25.0	102	90-110	2.48	20
Fluoride	2.72	0.100	mg/L	2.50	109	90-110	2.08	20
Sulfate	25.6	1.00	mg/L	25.0	103	90-110	2.34	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:32

Dissolved Metals by ICP - Quality Control

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

Batch B250277 - Dissolved ICP

Blank (B250277-BLK1)

Prepared: 02/03/25 Analyzed: 02/04/25

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 (B250277-BS1)

Prepared & Analyzed: 02/03/25

Aluminum	3.92	0.050	mg/L	4.00	98.0	85-115
Calcium	3.80	0.100	mg/L	4.00	95.0	85-115
Iron	3.79	0.050	mg/L	4.00	94.7	85-115
Magnesium	19.5	0.100	mg/L	20.0	97.5	85-115
Potassium	7.87	1.00	mg/L	8.00	98.3	85-115
Silicon	4.00	0.500	mg/L	4.00	100	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B250277-BSD1)

Prepared & Analyzed: 02/03/25

Aluminum	3.93	0.050	mg/L	4.00	98.3	85-115	0.341	20
Calcium	3.84	0.100	mg/L	4.00	96.0	85-115	1.14	20
Iron	3.83	0.050	mg/L	4.00	95.6	85-115	0.982	20
Magnesium	19.8	0.100	mg/L	20.0	98.8	85-115	1.31	20
Potassium	7.82	1.00	mg/L	8.00	97.7	85-115	0.611	20
Silicon	4.02	0.500	mg/L	4.00	101	85-115	0.501	20
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115	1.00	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:32

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 B250281 - Dissolved ICPMS

Blank (B250281-BLK1)

Prepared & Analyzed: 02/04/25

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 (B250281-BS1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.3	85-115				
Cadmium	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Copper	0.0500	0.0010	mg/L	0.0500	100	85-115				
Lead	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.5	85-115				
Molybdenum	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Selenium	0.243	0.0010	mg/L	0.250	97.2	85-115				
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0502	0.0020	mg/L	0.0500	100	85-115				

LCS Dup (B250281-BSD1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.4	85-115	0.127	20		
Cadmium	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.235	20		
Copper	0.0501	0.0010	mg/L	0.0500	100	85-115	0.114	20		
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115	1.59	20		
Manganese	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.453	20		
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115	0.458	20		
Selenium	0.244	0.0010	mg/L	0.250	97.4	85-115	0.228	20		
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.00379	20		
Zinc	0.0506	0.0020	mg/L	0.0500	101	85-115	0.707	20		

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:32

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 B250265 - EPA 245.7

Blank (B250265-BLK1)

Prepared: 02/03/25 Analyzed: 02/07/25

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

LCS (B250265-BS1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	961	100	ng/L	1000	96.1	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B250265-BSD1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	979	100	ng/L	1000	97.9	76-113	1.79	20
---------	-----	-----	------	------	------	--------	------	----

Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

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

Maryann Notah, 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:
02/10/25 12:32

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2501188-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501188-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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

Table of Contents

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

Company or Client: GCC Energy

Address: 6473 CR 120

City: Hesperus

State: CO Zip: 81326

Phone #: 970.385.4528

Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical

Email Report to: michael@summitmining.co; lbeck@slrconsulting.com; tom@bayguldhservices.com

Project Name(optional):

Sampler Name (Print):

Brandon Waddell

Bill to (if different):

ANALYSIS REQUEST

P.O. #:

Rush?

Y N

Matrix (check one)

GROUNDWATER

SURFACE WATER

WASTEWATER

PRODUCED WATER

DRINKING WATER

SOIL

OTHER:

of containers

No preservation

Nitric Acid

Hydrochloric Acid

Sulfuric Acid

Sodium Hydroxide

OTHER:

GCC GW Baseline

GCC SW Baseline

GCC S&S Baseline

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)						# of containers					GCC GW Basel	GCC SW Basel	GCC S&S Basel																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Project Information

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Printed: 01/21/2025 4:39 pm

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Jeremy D Allen

GCC Energy

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

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments:

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

 Date/Initials of person examining contents: 1-27-25
CDW

 Labeled by initials: _____
 (if different than above)
Client Name: GCCWork Order # 2501-188
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: H2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 2.5 °C Correction Factor: -1.9 °C Final Temp: 1.6 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4. <u>COH for PH</u>
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☒ Yes ☐ No	10. <u>D: 55</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ W ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



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

10 February 2025

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 01/27/25 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, appearing to read 'M. Notah', is positioned above the printed name.

Maryann Notah
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-C25-00012

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: TX-C24-00112

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2501189-01: MW-1-A	4
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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:
 02/10/25 12:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-A	2501189-01	Water	01/25/25 09:27	01/27/25 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 12:43

MW-1-A

2501189-01 (Ground Water)

Sampled Date: 01/25/25 09:27

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	425	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	425	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-3.53	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	<5.00	5.00	2.49	mg/L	5	02/06/25 00:05	EPA 300.0		AWG
Fluoride*	<0.500	0.500	0.168	mg/L	5	02/06/25 00:05	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	01/29/25 15:49	EPA 353.2		CAI
pH*	7.34			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	20.2			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	537	5.00	2.81	mg/L	5	02/06/25 00:05	EPA 300.0		AWG
Total Dissolved Solids*	1100	10.0		mg/L	1	01/29/25 16:02	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.83	0.500	0.290	mg/L	1	01/30/25 22:51	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Calcium*	30.8	0.500	0.362	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Hardness as CaCO ₃	163	3.31	2.54	mg/L	5	02/03/25 16:38	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Magnesium*	20.9	0.500	0.397	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Silica (SiO ₂)	10.6	5.35	1.01	mg/L	5	02/03/25 16:38	Calculation		AWG
Silicon	4.94	2.50	0.470	mg/L	5	02/03/25 16:38	EPA 200.7		AWG
Sodium*	331	5.00	3.78	mg/L	5	02/03/25 16:38	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Copper*	0.0164	0.0050	0.0015	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Manganese*	0.0219	0.0025	0.0009	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 14:05	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:43

MW-1-A

2501189-01 (Ground Water)

Sampled Date: 01/25/25 09:27

Sampled By: Brandon Waddell

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

Dissolved Metals by ICPMS

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/04/25 14:05	EPA 200.8		AES
Zinc*	0.0143	0.0100	0.0030	mg/L	5	02/04/25 14:05	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 11:05	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 12:43

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250233 - Lachat										
Blank (B250233-BLK1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250233-BS1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110			
LCS Dup (B250233-BSD1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110	0.0980	20	
Batch B250240 - General Prep - Wet Chem										
Blank (B250240-BLK1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250240-BS1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115			
LCS Dup (B250240-BSD1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115	0.0983	20	
Batch B250243 - General Prep - Wet Chem										
Blank (B250243-BLK1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250243-SRM1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	410	10.0	mg/L	400		103	85-115			
Batch B250244 - General Prep - Wet Chem										
Blank (B250244-BLK1)				Prepared: 01/29/25 Analyzed: 01/30/25						
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 (B250244-BS1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115			
LCS Dup (B250244-BSD1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115	0.930	20	

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:43

General Chemistry - Quality Control (Continued)

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

Batch B250244 - General Prep - Wet Chem (Continued)

Reference (B250244-SRM1)

Prepared: 01/29/25 Analyzed: 01/30/25

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115
--	-----	------	------	-----	-----	--------

Batch B250248 - General Prep - Wet Chem

Reference (B250248-SRM1)

Prepared & Analyzed: 01/29/25

pH	6.95		pH Units	7.00	99.3	98.57-101.42
----	------	--	----------	------	------	--------------

Batch B250290 - IC- Ion Chromatograph

Blank (B250290-BLK1)

Prepared & Analyzed: 02/05/25

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

LCS (B250290-BS1)

Prepared & Analyzed: 02/05/25

Chloride	24.9	1.00	mg/L	25.0	99.7	90-110
Fluoride	2.66	0.100	mg/L	2.50	106	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B250290-BSD1)

Prepared & Analyzed: 02/05/25

Chloride	25.6	1.00	mg/L	25.0	102	90-110	2.48	20
Fluoride	2.72	0.100	mg/L	2.50	109	90-110	2.08	20
Sulfate	25.6	1.00	mg/L	25.0	103	90-110	2.34	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:43

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 B250277 - Dissolved ICP

Blank (B250277-BLK1)

Prepared: 02/03/25 Analyzed: 02/04/25

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 (B250277-BS1)

Prepared & Analyzed: 02/03/25

Aluminum	3.92	0.050	mg/L	4.00	98.0	85-115
Calcium	3.80	0.100	mg/L	4.00	95.0	85-115
Iron	3.79	0.050	mg/L	4.00	94.7	85-115
Magnesium	19.5	0.100	mg/L	20.0	97.5	85-115
Potassium	7.87	1.00	mg/L	8.00	98.3	85-115
Silicon	4.00	0.500	mg/L	4.00	100	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B250277-BSD1)

Prepared & Analyzed: 02/03/25

Aluminum	3.93	0.050	mg/L	4.00	98.3	85-115	0.341	20
Calcium	3.84	0.100	mg/L	4.00	96.0	85-115	1.14	20
Iron	3.83	0.050	mg/L	4.00	95.6	85-115	0.982	20
Magnesium	19.8	0.100	mg/L	20.0	98.8	85-115	1.31	20
Potassium	7.82	1.00	mg/L	8.00	97.7	85-115	0.611	20
Silicon	4.02	0.500	mg/L	4.00	101	85-115	0.501	20
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115	1.00	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:43

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 B250281 - Dissolved ICPMS

Blank (B250281-BLK1)

Prepared & Analyzed: 02/04/25

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 (B250281-BS1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.3	85-115				
Cadmium	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Copper	0.0500	0.0010	mg/L	0.0500	100	85-115				
Lead	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.5	85-115				
Molybdenum	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Selenium	0.243	0.0010	mg/L	0.250	97.2	85-115				
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0502	0.0020	mg/L	0.0500	100	85-115				

LCS Dup (B250281-BSD1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.4	85-115	0.127	20		
Cadmium	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.235	20		
Copper	0.0501	0.0010	mg/L	0.0500	100	85-115	0.114	20		
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115	1.59	20		
Manganese	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.453	20		
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115	0.458	20		
Selenium	0.244	0.0010	mg/L	0.250	97.4	85-115	0.228	20		
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.00379	20		
Zinc	0.0506	0.0020	mg/L	0.0500	101	85-115	0.707	20		

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:43

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 B250265 - EPA 245.7

Blank (B250265-BLK1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	ND	100	ng/L
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LCS (B250265-BS1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	961	100	ng/L	1000	96.1	76-113
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LCS Dup (B250265-BSD1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	979	100	ng/L	1000	97.9	76-113	1.79	20
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Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

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

Maryann Notah, 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:
02/10/25 12:43

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2501189-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501189-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, Project Manager

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Project Information

Table of Contents
Printed: 01/27/2025 4:33 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Jeremy D Allen

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Michael Dickson

Comments:

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

 Date/Initials of person examining contents: 1-27-25
CDW

 Labeled by initials: _____
 (if different than above)
Client Name: GCCWork Order # 2501-189
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: H2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 2.5 °C Correction Factor: -0.9 °C Final Temp: 1.6 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4. <u>COH for PH</u>
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>D:SS</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>(N)</u> SL OT	☐ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

10 February 2025

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 01/27/25 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, appearing to read 'M. Notah', is written in a cursive style.

Maryann Notah
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-C25-00012

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: TX-C24-00112

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2501187-01: MW-7-EAA	4
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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:
02/10/25 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-7-EAA	2501187-01	Water	01/25/25 13:59	01/27/25 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah', is written over a horizontal line.

Maryann Notah, 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:
02/10/25 12:07

MW-7-EAA

2501187-01 (Ground Water)

Sampled Date: 01/25/25 13:59

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	440	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	440	10.0	8.00	mg/L	5	01/30/25 12:30	2320 B		HIC
Cation/Anion Balance	-4.87	-100	-100	%	1	02/06/25 15:26	Calculation		JDA
Chloride*	12.8	5.00	2.49	mg/L	5	02/05/25 23:16	EPA 300.0		AWG
Fluoride*	<0.500	0.500	0.168	mg/L	5	02/05/25 23:16	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.100	0.100	0.065	mg/L as N	5	01/29/25 16:26	EPA 353.2		CAI
pH*	7.09			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
pH Temperature, degrees C	19.9			pH Units	1	01/29/25 10:20	EPA 150.1	H1	HIC
Sulfate*	867	5.00	2.81	mg/L	5	02/05/25 23:16	EPA 300.0		AWG
Total Dissolved Solids*	1540	10.0		mg/L	1	01/29/25 15:58	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	5.11	0.500	0.290	mg/L	1	01/30/25 21:17	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Calcium*	169	0.500	0.362	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Hardness as CaCO ₃	993	3.31	2.54	mg/L	5	02/03/25 16:34	2340 B		AWG
Iron*	1.75	0.250	0.099	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Magnesium*	139	0.500	0.397	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Silica (SiO ₂)	15.8	5.35	1.01	mg/L	5	02/03/25 16:34	Calculation		AWG
Silicon	7.41	2.50	0.470	mg/L	5	02/03/25 16:34	EPA 200.7		AWG
Sodium*	75.6	5.00	3.78	mg/L	5	02/03/25 16:34	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Copper*	<0.0050	0.0050	0.0015	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Manganese*	4.44	0.0025	0.0009	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/04/25 13:59	EPA 200.8		AES

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:07

MW-7-EAA

2501187-01 (Ground Water)

Sampled Date: 01/25/25 13:59

Sampled By: Brandon Waddell

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

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/04/25 13:59	EPA 200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/04/25 13:59	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/07/25 10:54	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, 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:
02/10/25 12:07

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250233 - Lachat										
Blank (B250233-BLK1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250233-BS1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110			
LCS Dup (B250233-BSD1)				Prepared & Analyzed: 01/29/25						
Nitrate/Nitrite as N	1.02	0.020	mg/L as N	1.00		102	90-110	0.0980	20	
Batch B250240 - General Prep - Wet Chem										
Blank (B250240-BLK1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250240-BS1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115			
LCS Dup (B250240-BSD1)				Prepared & Analyzed: 01/30/25						
Total Organic Carbon	10.2	0.500	mg/L	10.0		102	85-115	0.0983	20	
Batch B250243 - General Prep - Wet Chem										
Blank (B250243-BLK1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250243-SRM1)				Prepared & Analyzed: 01/29/25						
Total Dissolved Solids	410	10.0	mg/L	400		103	85-115			
Batch B250244 - General Prep - Wet Chem										
Blank (B250244-BLK1)				Prepared: 01/29/25 Analyzed: 01/30/25						
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 (B250244-BS1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115			
LCS Dup (B250244-BSD1)				Prepared: 01/29/25 Analyzed: 01/30/25						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115	0.930	20	

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:07

General Chemistry - Quality Control (Continued)

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

Batch B250244 - General Prep - Wet Chem (Continued)

Reference (B250244-SRM1)

Prepared: 01/29/25 Analyzed: 01/30/25

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115
--	-----	------	------	-----	-----	--------

Batch B250248 - General Prep - Wet Chem

Reference (B250248-SRM1)

Prepared & Analyzed: 01/29/25

pH	6.95		pH Units	7.00	99.3	98.57-101.42
----	------	--	----------	------	------	--------------

Batch B250290 - IC- Ion Chromatograph

Blank (B250290-BLK1)

Prepared & Analyzed: 02/05/25

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

LCS (B250290-BS1)

Prepared & Analyzed: 02/05/25

Chloride	24.9	1.00	mg/L	25.0	99.7	90-110
Fluoride	2.66	0.100	mg/L	2.50	106	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B250290-BSD1)

Prepared & Analyzed: 02/05/25

Chloride	25.6	1.00	mg/L	25.0	102	90-110	2.48	20
Fluoride	2.72	0.100	mg/L	2.50	109	90-110	2.08	20
Sulfate	25.6	1.00	mg/L	25.0	103	90-110	2.34	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:07

Dissolved Metals by ICP - Quality Control

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

Batch B250277 - Dissolved ICP

Blank (B250277-BLK1)

Prepared: 02/03/25 Analyzed: 02/04/25

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 (B250277-BS1)

Prepared & Analyzed: 02/03/25

Aluminum	3.92	0.050	mg/L	4.00	98.0	85-115
Calcium	3.80	0.100	mg/L	4.00	95.0	85-115
Iron	3.79	0.050	mg/L	4.00	94.7	85-115
Magnesium	19.5	0.100	mg/L	20.0	97.5	85-115
Potassium	7.87	1.00	mg/L	8.00	98.3	85-115
Silicon	4.00	0.500	mg/L	4.00	100	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B250277-BSD1)

Prepared & Analyzed: 02/03/25

Aluminum	3.93	0.050	mg/L	4.00	98.3	85-115	0.341	20
Calcium	3.84	0.100	mg/L	4.00	96.0	85-115	1.14	20
Iron	3.83	0.050	mg/L	4.00	95.6	85-115	0.982	20
Magnesium	19.8	0.100	mg/L	20.0	98.8	85-115	1.31	20
Potassium	7.82	1.00	mg/L	8.00	97.7	85-115	0.611	20
Silicon	4.02	0.500	mg/L	4.00	101	85-115	0.501	20
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115	1.00	20

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:07

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 B250281 - Dissolved ICPMS

Blank (B250281-BLK1)

Prepared & Analyzed: 02/04/25

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 (B250281-BS1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.3	85-115				
Cadmium	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Copper	0.0500	0.0010	mg/L	0.0500	100	85-115				
Lead	0.0494	0.0005	mg/L	0.0500	98.8	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.5	85-115				
Molybdenum	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Selenium	0.243	0.0010	mg/L	0.250	97.2	85-115				
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0502	0.0020	mg/L	0.0500	100	85-115				

LCS Dup (B250281-BSD1)

Prepared & Analyzed: 02/04/25

Arsenic	0.0497	0.0010	mg/L	0.0500	99.4	85-115	0.127	20		
Cadmium	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.235	20		
Copper	0.0501	0.0010	mg/L	0.0500	100	85-115	0.114	20		
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115	1.59	20		
Manganese	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.453	20		
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115	0.458	20		
Selenium	0.244	0.0010	mg/L	0.250	97.4	85-115	0.228	20		
Uranium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.00379	20		
Zinc	0.0506	0.0020	mg/L	0.0500	101	85-115	0.707	20		

Green Analytical Laboratories

Maryann Notah, 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:
02/10/25 12:07

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 B250265 - EPA 245.7

Blank (B250265-BLK1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	ND	100	ng/L
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LCS (B250265-BS1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	961	100	ng/L	1000	96.1	76-113
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LCS Dup (B250265-BSD1)

Prepared: 02/03/25 Analyzed: 02/07/25

Mercury	979	100	ng/L	1000	97.9	76-113	1.79	20
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Notes and Definitions

H1	Sample was received several days after collected and subsequently analyzed past hold time.
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

Maryann Notah, 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:
02/10/25 12:07

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2501187-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2501187-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M. Notah'.

Maryann Notah, Project Manager

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

Company or Client: GCC Energy

dress: 6473 CR 120

V: Hesperus State: CO Zip: 81326

Phone #: 970.385.4528

Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical

Email Report to: michael@summinining.co; lbeck@slrconsulting.com; tom@laygulchservices.com

Project Name(optional):

P.O.#:

Rush?

Brandon Waddell

人

Collected

Matrix (check one)

of containers

[illegible]

2501-187

α	¹⁾ MW-7-EAA
----------	------------------------

1-25-25	13:59
---------	-------

2

2

4

3

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	SW	Baseline
GCC	S&S	Baseline

PLEASE NOTE: GAL's liability and client's assent 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:

Date: 1-27-25

Received By:

Date: 25 Dec 2019

ADDITIONAL REMARKS:

Relinquished By:

Date: 11/22

Received By:

Date: 1500

Relinquished By:

Date:

Received By:

Date:	
-------	--

Temperature at receipt	
------------------------	--

Checked by _____

Q

James 1:1-4

† GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com

Project Information

Table of Contents
Printed: 01/27/2025 4:39 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Jeremy D Allen

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Michael Dickson

Comments:

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

 Date/Initials of person examining contents: 1-27-25
CDW

 Labeled by initials: _____
 (if different than above)
Client Name: GCCWork Order # 2501-187
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: #7 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: _____ Observed Temp: 2.5 °C Correction Factor: -0.9 °C Final Temp: 1.6 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4. <u>COH for PH</u>
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☒ Yes ☐ No	10. <u>D:SS</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix: <u>W</u> SL OT		
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



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

20 February 2025

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 02/07/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00012

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: TX-C24-00112

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2502083-01: MW-98	4
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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:
02/20/25 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-98	2502083-01	Water	02/07/25 12:21	02/07/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

MW-98

2502083-01 (Ground Water)

Sampled Date: 02/07/25 12:21

Sampled By: Brandon Waddell

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

General Chemistry

Alkalinity, Total as CaCO ₃ *	425	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	425	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	6.04	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	2.13	1.00	0.497	mg/L	1	02/17/25 21:41	EPA 300.0		AWG
Fluoride*	0.334	0.100	0.0336	mg/L	1	02/17/25 21:41	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:27	EPA 353.2		CAI
pH*	7.64			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	16.6			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	59.7	1.00	0.563	mg/L	1	02/17/25 21:41	EPA 300.0		AWG
Total Dissolved Solids*	370	10.0		mg/L	1	02/12/25 12:49	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.17	0.500	0.290	mg/L	1	02/19/25 20:27	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Calcium*	41.9	0.100	0.072	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Hardness as CaCO ₃	225	0.662	0.507	mg/L	1	02/13/25 14:31	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Magnesium*	29.2	0.100	0.079	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Potassium*	2.72	1.00	0.182	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Silica (SiO ₂)	18.8	1.07	0.201	mg/L	1	02/13/25 14:31	Calculation		AWG
Silicon	8.77	0.500	0.094	mg/L	1	02/13/25 14:31	EPA 200.7		AWG
Sodium*	121	1.00	0.756	mg/L	1	02/13/25 14:31	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0029	0.0010	0.0006	mg/L	1	02/11/25 17:34	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/11/25 17:34	EPA 200.8		AES
Copper*	0.0034	0.0010	0.0003	mg/L	1	02/11/25 17:34	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/18/25 15:46	EPA 200.8		AES
Manganese*	0.0387	0.0005	0.0002	mg/L	1	02/11/25 17:34	EPA 200.8		AES
Molybdenum*	<0.0005	0.0005	0.00005	mg/L	1	02/11/25 17:34	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

MW-98

2502083-01 (Ground Water)

Sampled Date: 02/07/25 12:21

Sampled By: Brandon Waddell

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

Selenium*	0.0111	0.0010	0.0003	mg/L	1	02/11/25 17:34	EPA 200.8		AES
Uranium	0.0005	0.0005	0.00004	mg/L	1	02/18/25 15:46	EPA 200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	02/11/25 17:34	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 13:40	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250322 - General Prep - Wet Chem										
Reference (B250322-SRM1)				Prepared & Analyzed: 02/07/25						
pH	7.05		pH Units	7.00		101	97.5-102.5			
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

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 B250334 - Dissolved ICP

Blank (B250334-BLK1)

Prepared: 02/10/25 Analyzed: 02/13/25

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 (B250334-BS1)

Prepared: 02/10/25 Analyzed: 02/13/25

Aluminum	4.19	0.050	mg/L	4.00	105	85-115
Calcium	4.26	0.100	mg/L	4.00	107	85-115
Iron	4.31	0.050	mg/L	4.00	108	85-115
Magnesium	21.7	0.100	mg/L	20.0	108	85-115
Potassium	8.70	1.00	mg/L	8.00	109	85-115
Silicon	4.30	0.500	mg/L	4.00	108	85-115
Sodium	3.43	1.00	mg/L	3.24	106	85-115

LCS Dup (B250334-BSD1)

Prepared: 02/10/25 Analyzed: 02/14/25

Aluminum	3.89	0.050	mg/L	4.00	97.2	85-115	7.45	20
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115	9.57	20
Iron	3.97	0.050	mg/L	4.00	99.4	85-115	8.14	20
Magnesium	19.7	0.100	mg/L	20.0	98.7	85-115	9.20	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	6.47	20
Silicon	3.54	0.500	mg/L	4.00	88.6	85-115	19.3	20
Sodium	3.20	1.00	mg/L	3.24	98.8	85-115	6.81	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

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 B250337 - Dissolved ICPMS

Blank (B250337-BLK1)

Prepared: 02/10/25 Analyzed: 02/11/25

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 (B250337-BS1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0509	0.0010	mg/L	0.0500	102	85-115				
Cadmium	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Copper	0.0498	0.0010	mg/L	0.0500	99.5	85-115				
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115				
Manganese	0.0511	0.0005	mg/L	0.0500	102	85-115				
Molybdenum	0.0512	0.0005	mg/L	0.0500	102	85-115				
Selenium	0.247	0.0010	mg/L	0.250	99.0	85-115				
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0498	0.0020	mg/L	0.0500	99.6	85-115				

LCS Dup (B250337-BSD1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115	0.592	20		
Cadmium	0.0501	0.0005	mg/L	0.0500	100	85-115	0.528	20		
Copper	0.0499	0.0010	mg/L	0.0500	99.9	85-115	0.357	20		
Lead	0.0507	0.0005	mg/L	0.0500	101	85-115	0.948	20		
Manganese	0.0517	0.0005	mg/L	0.0500	103	85-115	1.07	20		
Molybdenum	0.0507	0.0005	mg/L	0.0500	101	85-115	0.863	20		
Selenium	0.247	0.0010	mg/L	0.250	98.6	85-115	0.324	20		
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115	0.738	20		
Zinc	0.0505	0.0020	mg/L	0.0500	101	85-115	1.35	20		

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:22

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	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

Jeremy D Allen, Laboratory Director

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

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: Michael Dickson for billing; Landon Beck for logistical or technical					
Email Report to: mdickson@gcc.com; lbeck@slrconsulting.com; tom@haysulshservices.com					
Project Name(optional):		P.O. #:			

Sampler Name (Print):				Brandon Waddell		Rush?																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Lab I.D.		Sample Name or Location		Collected		Matrix (check one)						# of containers				GCC GW Baseline		GCC SW Baseline		GCC S&S Baseline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				Date	Time	GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:	No preservation	Nitric Acid	Hydrochloric Acid							Sulfuric Acid	Sodium Hydroxide	OTHER:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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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:	Date: 2-7-25	Received By:	Date: 2-2-25	ADDITIONAL REMARKS:			
	Time: 16:30		Time: 16:30				
Relinquished By:	Date:	Received By:	Date:				
	Time:		Time:				
Relinquished By:	Date:	Received By:	Date:	Temperature at receipt:	Checked by:	On Ice?	Therm. used:
	Time:		Time:	5.1/42 °C	COV	Blue	WTS



SAMPLE CONDITION RECEIPT FORM

Date/Initials of person
examining contents: 27.25
cbiLabeled by initials: _____
(if different than above)Client Name: GCC EnergyWork Order # 2502-083Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____Thermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☐ Wet ☒ Blue ☐ None Cooler Temp: Observed Temp: 5.1 °C Correction Factor: -9 °C Final Temp: 4.2 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>ass, i</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>WT</u> ☒ SL ☐ OT	☒ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☒ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☒ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

24 February 2025

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 02/11/25 15:45. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00012

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: TX-C24-00112

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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:
02/24/25 14:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WILTSE WELL	2502132-01	Water	02/11/25 14:00	02/11/25 15:45	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

WILTSE WELL

2502132-01 (Ground Water)

Sampled Date: 02/11/25 14:00

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	457	10.0	8.00	mg/L	1	02/19/25 13:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	02/19/25 13:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	02/19/25 13:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	457	10.0	8.00	mg/L	1	02/19/25 13:00	2320 B		HIC
Cation/Anion Balance	-7.33	-100	-100	%	1	02/24/25 08:14	Calculation		JDA
Chloride*	48.3	2.00	0.994	mg/L	2	02/20/25 18:39	EPA 300.0		AWG
Fluoride*	0.338	0.200	0.0673	mg/L	2	02/20/25 18:39	EPA 300.0		AWG
Nitrate/Nitrite as N*	1.47	0.020	0.013	mg/L as N	1	02/19/25 11:01	EPA 353.2		CAI
pH*	7.12			pH Units	1	02/12/25 09:25	EPA 150.1/9040C		HIC
pH Temperature, degrees C	20.2			pH Units	1	02/12/25 09:25	EPA 150.1/9040C		HIC
Sulfate*	1050	10.0	5.63	mg/L	10	02/20/25 19:04	EPA 300.0		AWG
Total Dissolved Solids*	1900	10.0		mg/L	1	02/17/25 16:09	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	3.64	0.500	0.290	mg/L	1	02/20/25 05:50	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/17/25 12:41	EPA 200.7		AWG
Calcium*	229	0.500	0.362	mg/L	5	02/17/25 12:41	EPA 200.7		AWG
Hardness as CaCO ₃	1210	3.31	2.54	mg/L	5	02/17/25 12:41	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/17/25 12:41	EPA 200.7		AWG
Magnesium*	155	0.500	0.397	mg/L	5	02/17/25 12:41	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/17/25 12:41	EPA 200.7		AWG
Silica (SiO ₂)	12.7	5.35	1.01	mg/L	5	02/20/25 12:11	Calculation		AWG
Silicon	5.94	2.50	0.470	mg/L	5	02/20/25 12:11	EPA 200.7		AWG
Sodium*	63.1	5.00	3.78	mg/L	5	02/17/25 12:41	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Copper*	<0.0050	0.0050	0.0036	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Manganese*	1.02	0.0025	0.0009	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/19/25 17:23	EPA 200.8		AES

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Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

WILTSE WELL

2502132-01 (Ground Water)

Sampled Date: 02/11/25 14:00

Sampled By: Brandon Waddell

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

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Uranium	0.0028	0.0025	0.0002	mg/L	5	02/19/25 17:23	EPA 200.8		AES
Zinc*	0.0232	0.0100	0.0030	mg/L	5	02/19/25 17:23	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 15:07	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250371 - General Prep - Wet Chem										
Reference (B250371-SRM1)				Prepared & Analyzed: 02/12/25						
pH	7.06		pH Units	7.00		101	97.5-102.5			
Batch B250376 - Lachat										
Blank (B250376-BLK1)				Prepared: 02/17/25 Analyzed: 02/19/25						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B250376-BS1)				Prepared: 02/17/25 Analyzed: 02/19/25						
Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
LCS Dup (B250376-BSD1)				Prepared: 02/17/25 Analyzed: 02/19/25						
Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
Batch B250391 - General Prep - Wet Chem										
Blank (B250391-BLK1)				Prepared & Analyzed: 02/17/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250391-SRM1)				Prepared & Analyzed: 02/17/25						
Total Dissolved Solids	375	10.0	mg/L	400		93.7	85-115			
Batch B250397 - General Prep - Wet Chem										
Blank (B250397-BLK1)				Prepared & Analyzed: 02/19/25						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B250397-BS1)				Prepared & Analyzed: 02/19/25						
Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
LCS Dup (B250397-BSD1)				Prepared & Analyzed: 02/19/25						
Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
Batch B250404 - IC- Ion Chromatograph										
Blank (B250404-BLK1)				Prepared: 02/19/25 Analyzed: 02/20/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250404-BS1)				Prepared: 02/19/25 Analyzed: 02/20/25						
Chloride	24.0	1.00	mg/L	25.0		95.8	90-110			

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Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

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 B250404 - IC- Ion Chromatograph (Continued)

LCS (B250404-BS1) (Continued)

Prepared: 02/19/25 Analyzed: 02/20/25

Fluoride	2.59	0.100	mg/L	2.50		104	90-110			
Sulfate	24.3	1.00	mg/L	25.0		97.1	90-110			

LCS Dup (B250404-BSD1)

Prepared: 02/19/25 Analyzed: 02/20/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	4.38	20	
Fluoride	2.70	0.100	mg/L	2.50		108	90-110	3.93	20	
Sulfate	25.3	1.00	mg/L	25.0		101	90-110	4.25	20	

Batch B250405 - General Prep - Wet Chem

Blank (B250405-BLK1)

Prepared & Analyzed: 02/19/25

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 (B250405-BS1)

Prepared & Analyzed: 02/19/25

Alkalinity, Total as CaCO ₃	112	10.0	mg/L	100		112	85-115			
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LCS Dup (B250405-BSD1)

Prepared & Analyzed: 02/19/25

Alkalinity, Total as CaCO ₃	109	10.0	mg/L	100		109	85-115	2.71	20	
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Reference (B250405-SRM1)

Prepared & Analyzed: 02/19/25

Alkalinity, Total as CaCO ₃	111	10.0	mg/L	100		111	85-115			
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Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

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 B250385 - Dissolved ICP

Blank (B250385-BLK1)

Prepared & Analyzed: 02/17/25

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 (B250385-BS1)

Prepared & Analyzed: 02/17/25

Aluminum	3.90	0.050	mg/L	4.00		97.5	85-115			
Calcium	3.88	0.100	mg/L	4.00		96.9	85-115			
Iron	3.97	0.050	mg/L	4.00		99.3	85-115			
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115			
Potassium	8.10	1.00	mg/L	8.00		101	85-115			
Silicon	3.90	0.500	mg/L	4.00		97.5	85-115			
Sodium	3.23	1.00	mg/L	3.24		99.8	85-115			

LCS Dup (B250385-BSD1)

Prepared & Analyzed: 02/17/25

Aluminum	3.88	0.050	mg/L	4.00		97.0	85-115	0.568	20	
Calcium	3.83	0.100	mg/L	4.00		95.8	85-115	1.18	20	
Iron	3.91	0.050	mg/L	4.00		97.8	85-115	1.52	20	
Magnesium	19.5	0.100	mg/L	20.0		97.6	85-115	1.72	20	
Potassium	8.03	1.00	mg/L	8.00		100	85-115	0.930	20	
Silicon	3.81	0.500	mg/L	4.00		95.2	85-115	2.43	20	
Sodium	3.17	1.00	mg/L	3.24		98.0	85-115	1.86	20	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

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 B250383 - Dissolved ICPMS

Blank (B250383-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

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 (B250383-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0521	0.0010	mg/L	0.0500	104	85-115				
Cadmium	0.0508	0.0005	mg/L	0.0500	102	85-115				
Copper	0.0482	0.0010	mg/L	0.0500	96.4	85-115				
Lead	0.0514	0.0005	mg/L	0.0500	103	85-115				
Manganese	0.0485	0.0005	mg/L	0.0500	96.9	85-115				
Molybdenum	0.0522	0.0005	mg/L	0.0500	104	85-115				
Selenium	0.254	0.0010	mg/L	0.250	101	85-115				
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0482	0.0020	mg/L	0.0500	96.4	85-115				

LCS Dup (B250383-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0520	0.0010	mg/L	0.0500	104	85-115	0.158	20		
Cadmium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.181	20		
Copper	0.0488	0.0010	mg/L	0.0500	97.6	85-115	1.25	20		
Lead	0.0519	0.0005	mg/L	0.0500	104	85-115	1.02	20		
Manganese	0.0491	0.0005	mg/L	0.0500	98.3	85-115	1.40	20		
Molybdenum	0.0532	0.0005	mg/L	0.0500	106	85-115	1.94	20		
Selenium	0.254	0.0010	mg/L	0.250	102	85-115	0.152	20		
Uranium	0.0516	0.0005	mg/L	0.0500	103	85-115	1.05	20		
Zinc	0.0491	0.0020	mg/L	0.0500	98.2	85-115	1.83	20		

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/24/25 14:31

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	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

Jeremy D Allen, Laboratory Director

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

Company or Client: GCC Energy Address: 6473 CR 120 City: Hesperus State: CO Zip: 81326 Phone #: 970.385.4528 Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical Email Report to: mdickson@gcc.com; lbeck@slrconsulting.com; tom@haygulchservices.com Project Name(optional): Sample Name (Print): Brandon Waddell				Bill to (if different): Rush? ☒ Y ☐ N P.O. #:				ANALYSIS REQUEST			
Lab I.D. 2502-132 09	Sample Name or Location Wilise Well	Collected Date: 2-11-25 Time: 14:00	Matrix (check one) ☒ GROUNDWATER ☐ SURFACE WATER ☐ WASTEWATER ☐ PRODUCED WATER ☐ DRINKING WATER ☐ SOIL ☐ OTHER:	# of containers No preservation: 2 Nitric Acid: 4 Hydrochloric Acid: 4 Sulfuric Acid: Sodium Hydroxide: OTHER:	☒ GCC GW Baseline ☐ GCC SW Baseline ☐ GCC S&S Baseline						

Relinquished By: **[Signature]** Date: **2-11-25** Time: **15:45** Received By: **[Signature]** Date: **2-11-25** Time: **15:45**
 Relinquished By: Date: Time: Received By: Date: Time:
 Relinquished By: Date: Time: Received By: Date: Time:

Relinquished By: Date: Time: Received By: Date: Time: Temperature at receipt: **45/42 °C** Checked by: **[Signature]** On Ice? **Y** Therm. used: **[Signature]**

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.

† 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.



SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 2.11.25
CMW

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-132
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: 81

 Thermometer Used: 42 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: _____ °C Observed Temp: 9.5 °C Correction Factor: 1.2 °C Final Temp: 9.7 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☐ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>D.35</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>WT</u> SL OT	☒ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

20 February 2025

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 02/07/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00012

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: TX-C24-00112

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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:
02/20/25 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-6-LM	2502086-01	Water	02/07/25 11:21	02/07/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

MW-6-LM

2502086-01 (Ground Water)

Sampled Date: 02/07/25 11:21

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	440	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	440	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	1.49	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	2.18	1.00	0.497	mg/L	1	02/18/25 03:47	EPA 300.0		AWG
Fluoride*	0.344	0.100	0.0336	mg/L	1	02/18/25 03:47	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:41	EPA 353.2		CAI
pH*	7.65			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	19.0			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	63.0	1.00	0.563	mg/L	1	02/18/25 03:47	EPA 300.0		AWG
Total Dissolved Solids*	440	10.0		mg/L	1	02/12/25 13:05	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.13	0.500	0.290	mg/L	1	02/20/25 00:36	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Calcium*	39.8	0.100	0.072	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Hardness as CaCO ₃	213	0.662	0.507	mg/L	1	02/13/25 14:52	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Magnesium*	27.5	0.100	0.079	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Potassium*	2.48	1.00	0.182	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Silica (SiO ₂)	17.7	1.07	0.201	mg/L	1	02/13/25 14:52	Calculation		AWG
Silicon	8.27	0.500	0.094	mg/L	1	02/13/25 14:52	EPA 200.7		AWG
Sodium*	115	1.00	0.756	mg/L	1	02/13/25 14:52	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0027	0.0010	0.0006	mg/L	1	02/11/25 17:45	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/11/25 17:45	EPA 200.8		AES
Copper*	0.0106	0.0010	0.0003	mg/L	1	02/11/25 17:45	EPA 200.8		AES
Lead*	0.0011	0.0010	0.0002	mg/L	2	02/19/25 17:28	EPA 200.8		AES
Manganese*	0.0411	0.0005	0.0002	mg/L	1	02/11/25 17:45	EPA 200.8		AES
Molybdenum*	<0.0005	0.0005	0.00005	mg/L	1	02/11/25 17:45	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

MW-6-LM

2502086-01 (Ground Water)

Sampled Date: 02/07/25 11:21

Sampled By: Brandon Waddell

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

Selenium*	0.0132	0.0010	0.0003	mg/L	1	02/11/25 17:45	EPA 200.8		AES
Uranium	<0.0010	0.0010	0.00008	mg/L	2	02/19/25 17:28	EPA 200.8		AES
Zinc*	0.0217	0.0020	0.0006	mg/L	1	02/11/25 17:45	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 14:50	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250322 - General Prep - Wet Chem										
Reference (B250322-SRM1)				Prepared & Analyzed: 02/07/25						
pH	7.05		pH Units	7.00		101	97.5-102.5			
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

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 B250334 - Dissolved ICP

Blank (B250334-BLK1)

Prepared: 02/10/25 Analyzed: 02/13/25

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 (B250334-BS1)

Prepared: 02/10/25 Analyzed: 02/13/25

Aluminum	4.19	0.050	mg/L	4.00	105	85-115
Calcium	4.26	0.100	mg/L	4.00	107	85-115
Iron	4.31	0.050	mg/L	4.00	108	85-115
Magnesium	21.7	0.100	mg/L	20.0	108	85-115
Potassium	8.70	1.00	mg/L	8.00	109	85-115
Silicon	4.30	0.500	mg/L	4.00	108	85-115
Sodium	3.43	1.00	mg/L	3.24	106	85-115

LCS Dup (B250334-BSD1)

Prepared: 02/10/25 Analyzed: 02/14/25

Aluminum	3.89	0.050	mg/L	4.00	97.2	85-115	7.45	20
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115	9.57	20
Iron	3.97	0.050	mg/L	4.00	99.4	85-115	8.14	20
Magnesium	19.7	0.100	mg/L	20.0	98.7	85-115	9.20	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	6.47	20
Silicon	3.54	0.500	mg/L	4.00	88.6	85-115	19.3	20
Sodium	3.20	1.00	mg/L	3.24	98.8	85-115	6.81	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

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 B250337 - Dissolved ICPMS

Blank (B250337-BLK1)

Prepared: 02/10/25 Analyzed: 02/11/25

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 (B250337-BS1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0509	0.0010	mg/L	0.0500	102	85-115				
Cadmium	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Copper	0.0498	0.0010	mg/L	0.0500	99.5	85-115				
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115				
Manganese	0.0511	0.0005	mg/L	0.0500	102	85-115				
Molybdenum	0.0512	0.0005	mg/L	0.0500	102	85-115				
Selenium	0.247	0.0010	mg/L	0.250	99.0	85-115				
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0498	0.0020	mg/L	0.0500	99.6	85-115				

LCS Dup (B250337-BSD1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115	0.592	20		
Cadmium	0.0501	0.0005	mg/L	0.0500	100	85-115	0.528	20		
Copper	0.0499	0.0010	mg/L	0.0500	99.9	85-115	0.357	20		
Lead	0.0507	0.0005	mg/L	0.0500	101	85-115	0.948	20		
Manganese	0.0517	0.0005	mg/L	0.0500	103	85-115	1.07	20		
Molybdenum	0.0507	0.0005	mg/L	0.0500	101	85-115	0.863	20		
Selenium	0.247	0.0010	mg/L	0.250	98.6	85-115	0.324	20		
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115	0.738	20		
Zinc	0.0505	0.0020	mg/L	0.0500	101	85-115	1.35	20		

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 12:27

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	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

Jeremy D Allen, Laboratory Director

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SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 27-25
CB

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-086
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: 42 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☐ Wet ☒ Blue ☐ None Cooler Temp: Observed Temp: 5.1 °C Correction Factor: -9 °C Final Temp: 4.2 °C
Compliance: ☐ Yes ☒ No

*Temp should be above freezing 6°C

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☒ Yes ☐ No	10. <u>250, 1</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

20 February 2025

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 02/07/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00012

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: TX-C24-00112

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Chain of Custody & Attachments	15



GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

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

Reported:
02/20/25 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-MI	2502085-01	Water	02/07/25 14:39	02/07/25 16:30	
MW-3-A	2502085-02	Water	02/07/25 15:07	02/07/25 16:30	
MW-3-C	2502085-03	Water	02/07/25 15:29	02/07/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-MI

2502085-01 (Ground Water)

Sampled Date: 02/07/25 14:39

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	720	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	120	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	600	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-0.840	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	10.2	2.00	0.994	mg/L	2	02/18/25 00:32	EPA 300.0		AWG
Fluoride*	1.18	0.200	0.0673	mg/L	2	02/18/25 00:32	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:35	EPA 353.2		CAI
pH*	8.87			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	18.7			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	256	2.00	1.13	mg/L	2	02/18/25 00:32	EPA 300.0		AWG
Total Dissolved Solids*	1060	10.0		mg/L	1	02/12/25 12:59	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	4.33	0.500	0.290	mg/L	1	02/19/25 23:21	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Calcium*	1.25	0.100	0.072	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Hardness as CaCO ₃	4.88	0.662	0.507	mg/L	1	02/13/25 14:42	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Magnesium*	0.429	0.100	0.079	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Potassium*	1.49	1.00	0.182	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Silica (SiO ₂)	9.59	1.07	0.201	mg/L	1	02/13/25 14:42	Calculation		AWG
Silicon	4.48	0.500	0.094	mg/L	1	02/13/25 14:42	EPA 200.7		AWG
Sodium*	436	1.00	0.756	mg/L	1	02/13/25 14:42	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0044	0.0010	0.0006	mg/L	1	02/11/25 17:40	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/11/25 17:40	EPA 200.8		AES
Copper*	0.0181	0.0010	0.0003	mg/L	1	02/11/25 17:40	EPA 200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	02/18/25 15:53	EPA 200.8		AES
Manganese*	0.0061	0.0005	0.0002	mg/L	1	02/11/25 17:40	EPA 200.8		AES
Molybdenum*	0.0117	0.0005	0.00005	mg/L	1	02/11/25 17:40	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-MI

2502085-01 (Ground Water)

Sampled Date: 02/07/25 14:39

Sampled By: Brandon Waddell

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

Selenium*	0.0049	0.0010	0.0003	mg/L	1	02/11/25 17:40	EPA 200.8		AES
Uranium	0.0023	0.0010	0.00008	mg/L	2	02/18/25 15:53	EPA 200.8		AES
Zinc*	0.0106	0.0020	0.0006	mg/L	1	02/11/25 17:40	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 13:57	EPA 245.7		CAI
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Green Analytical Laboratories

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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-A

2502085-02 (Ground Water)

Sampled Date: 02/07/25 15:07

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	525	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	40.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	485	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-2.71	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	20.1	2.00	0.994	mg/L	2	02/18/25 02:10	EPA 300.0		AWG
Fluoride*	0.446	0.200	0.0673	mg/L	2	02/18/25 02:10	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:39	EPA 353.2		CAI
pH*	8.42			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	18.9			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	512	10.0	5.63	mg/L	10	02/18/25 02:34	EPA 300.0		AWG
Total Dissolved Solids*	1260	10.0		mg/L	1	02/12/25 13:01	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	2.89	0.500	0.290	mg/L	1	02/19/25 23:40	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Calcium*	1.90	0.500	0.362	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Hardness as CaCO ₃	6.88	3.31	2.54	mg/L	5	02/13/25 14:46	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Magnesium*	0.517	0.500	0.397	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Silica (SiO ₂)	10.2	5.35	1.01	mg/L	5	02/13/25 14:46	Calculation		AWG
Silicon	4.78	2.50	0.470	mg/L	5	02/13/25 14:46	EPA 200.7		AWG
Sodium*	454	5.00	3.78	mg/L	5	02/13/25 14:46	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0010	0.0010	0.0006	mg/L	1	02/11/25 17:42	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/11/25 17:42	EPA 200.8		AES
Copper*	0.0176	0.0010	0.0003	mg/L	1	02/11/25 17:42	EPA 200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	02/18/25 15:54	EPA 200.8		AES
Manganese*	0.0071	0.0005	0.0002	mg/L	1	02/11/25 17:42	EPA 200.8		AES
Molybdenum*	0.0009	0.0005	0.00005	mg/L	1	02/11/25 17:42	EPA 200.8		AES

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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-A

2502085-02 (Ground Water)

Sampled Date: 02/07/25 15:07

Sampled By: Brandon Waddell

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

Selenium*	0.0194	0.0010	0.0003	mg/L	1	02/11/25 17:42	EPA 200.8		AES
Uranium	<0.0010	0.0010	0.00008	mg/L	2	02/18/25 15:54	EPA 200.8		AES
Zinc*	0.0032	0.0020	0.0006	mg/L	1	02/11/25 17:42	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 14:44	EPA 245.7		CAI
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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-C

2502085-03 (Ground Water)

Sampled Date: 02/07/25 15:29

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	2170	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	200	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	1970	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-1.72	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	664	5.00	2.49	mg/L	5	02/18/25 02:58	EPA 300.0		AWG
Fluoride*	3.93	0.500	0.168	mg/L	5	02/18/25 02:58	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:40	EPA 353.2		CAI
pH*	8.30			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	17.9			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	<5.00	5.00	2.81	mg/L	5	02/18/25 02:58	EPA 300.0		AWG
Total Dissolved Solids*	3350	10.0		mg/L	1	02/12/25 13:03	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	19.6	2.50	1.45	mg/L	5	02/20/25 10:37	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Calcium*	4.07	0.500	0.362	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Hardness as CaCO ₃	18.2	3.31	2.54	mg/L	5	02/13/25 14:48	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Magnesium*	1.94	0.500	0.397	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Silica (SiO ₂)	8.55	5.35	1.01	mg/L	5	02/13/25 14:48	Calculation		AWG
Silicon	4.00	2.50	0.470	mg/L	5	02/13/25 14:48	EPA 200.7		AWG
Sodium*	1360	5.00	3.78	mg/L	5	02/13/25 14:48	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0193	0.0050	0.0031	mg/L	5	02/11/25 17:44	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/11/25 17:44	EPA 200.8		AES
Copper*	0.0534	0.0050	0.0015	mg/L	5	02/11/25 17:44	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/18/25 15:56	EPA 200.8		AES
Manganese*	<0.0025	0.0025	0.0009	mg/L	5	02/11/25 17:44	EPA 200.8		AES
Molybdenum*	0.0043	0.0025	0.0003	mg/L	5	02/11/25 17:44	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

MW-3-C

2502085-03 (Ground Water)

Sampled Date: 02/07/25 15:29

Sampled By: Brandon Waddell

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

Selenium*	0.0368	0.0050	0.0014	mg/L	5	02/11/25 17:44	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/18/25 15:56	EPA 200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/11/25 17:44	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 14:47	EPA 245.7		CAI
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Green Analytical Laboratories

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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250322 - General Prep - Wet Chem										
Reference (B250322-SRM1)				Prepared & Analyzed: 02/07/25						
pH	7.05		pH Units	7.00		101	97.5-102.5			
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

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 B250334 - Dissolved ICP

Blank (B250334-BLK1)

Prepared: 02/10/25 Analyzed: 02/13/25

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 (B250334-BS1)

Prepared: 02/10/25 Analyzed: 02/13/25

Aluminum	4.19	0.050	mg/L	4.00	105	85-115
Calcium	4.26	0.100	mg/L	4.00	107	85-115
Iron	4.31	0.050	mg/L	4.00	108	85-115
Magnesium	21.7	0.100	mg/L	20.0	108	85-115
Potassium	8.70	1.00	mg/L	8.00	109	85-115
Silicon	4.30	0.500	mg/L	4.00	108	85-115
Sodium	3.43	1.00	mg/L	3.24	106	85-115

LCS Dup (B250334-BSD1)

Prepared: 02/10/25 Analyzed: 02/14/25

Aluminum	3.89	0.050	mg/L	4.00	97.2	85-115	7.45	20
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115	9.57	20
Iron	3.97	0.050	mg/L	4.00	99.4	85-115	8.14	20
Magnesium	19.7	0.100	mg/L	20.0	98.7	85-115	9.20	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	6.47	20
Silicon	3.54	0.500	mg/L	4.00	88.6	85-115	19.3	20
Sodium	3.20	1.00	mg/L	3.24	98.8	85-115	6.81	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

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 B250337 - Dissolved ICPMS

Blank (B250337-BLK1)

Prepared: 02/10/25 Analyzed: 02/11/25

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 (B250337-BS1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0509	0.0010	mg/L	0.0500	102	85-115
Cadmium	0.0498	0.0005	mg/L	0.0500	99.6	85-115
Copper	0.0498	0.0010	mg/L	0.0500	99.5	85-115
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115
Manganese	0.0511	0.0005	mg/L	0.0500	102	85-115
Molybdenum	0.0512	0.0005	mg/L	0.0500	102	85-115
Selenium	0.247	0.0010	mg/L	0.250	99.0	85-115
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115
Zinc	0.0498	0.0020	mg/L	0.0500	99.6	85-115

LCS Dup (B250337-BSD1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115	0.592	20
Cadmium	0.0501	0.0005	mg/L	0.0500	100	85-115	0.528	20
Copper	0.0499	0.0010	mg/L	0.0500	99.9	85-115	0.357	20
Lead	0.0507	0.0005	mg/L	0.0500	101	85-115	0.948	20
Manganese	0.0517	0.0005	mg/L	0.0500	103	85-115	1.07	20
Molybdenum	0.0507	0.0005	mg/L	0.0500	101	85-115	0.863	20
Selenium	0.247	0.0010	mg/L	0.250	98.6	85-115	0.324	20
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115	0.738	20
Zinc	0.0505	0.0020	mg/L	0.0500	101	85-115	1.35	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:44

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	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

Jeremy D Allen, Laboratory Director

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

Company or Client: GCC Energy

Address: 6473 CR 120

City: Hesperus State: CO Zip: 81326

Phone #: 970.385.4528

Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical

Email Report to: mdickson@gcc.com; lbeck@strconsulting.com; tom@haygulchservices.com

Project Name(optional):

Sampler Name (Print): Brandon Waddell

Bill to (if different):

ANALYSIS REQUEST

P.O. #: Rush?

Y N

Collected

Matrix (check one)

of containers

Lab I.D. Sample Name or Location

Lab I.D.	Sample Name or Location	Date	Time	Matrix (check one)							# of containers							ANALYSIS REQUEST						
				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 SW Baseline	GCC S&S Baseline					
2502-085																								
01	MW-3-MI	2-7-25	14:39	✓							2			4			✓							
02	MW-3-A	2-7-25	15:07	✓							2			4			✓							
03	MW-3-C	2-7-25	15:29	✓							2			4			✓							
4)																								
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:	Date: 2-7-25	Received By:	Date: 2-7-25	ADDITIONAL REMARKS:									
Relinquished By:	Date: 16:30	Received By:	Date: 16:14										
Relinquished By:	Date:	Received By:	Date:										
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SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 27.25
CBN

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-08 5
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: 42 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☐ Wet ☒ Blue ☐ None Cooler Temp: Observed Temp: 5.1 °C Correction Factor: 7.9 °C Final Temp: 4.2 °C
Compliance: ☐ Yes ☒ No

*Temp should be above freezing 6°C

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☐ Yes ☒ No	10. <u>Ass, 1</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

20 February 2025

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 02/07/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00012

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: TX-C24-00112

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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:
02/20/25 13:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-4-MI	2502084-01	Water	02/07/25 12:28	02/07/25 16:30	
MW-4-A	2502084-02	Water	02/07/25 13:08	02/07/25 16:30	
MW-4-C	2502084-03	Water	02/07/25 13:54	02/07/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-MI

2502084-01 (Ground Water)

Sampled Date: 02/07/25 12:28

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	1020	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	100	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	920	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	0.190	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	3.25	2.00	0.994	mg/L	2	02/17/25 22:05	EPA 300.0		AWG
Fluoride*	5.81	0.200	0.0673	mg/L	2	02/17/25 22:05	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:31	EPA 353.2		CAI
pH*	8.49			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	15.7			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	9.39	2.00	1.13	mg/L	2	02/17/25 22:05	EPA 300.0		AWG
Total Dissolved Solids*	1030	10.0		mg/L	1	02/12/25 12:53	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	3.51	0.500	0.290	mg/L	1	02/19/25 22:11	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Calcium*	1.32	0.100	0.072	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Hardness as CaCO ₃	4.80	0.662	0.507	mg/L	1	02/13/25 14:32	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Magnesium*	0.364	0.100	0.079	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Potassium*	1.81	1.00	0.182	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Silica (SiO ₂)	9.81	1.07	0.201	mg/L	1	02/13/25 14:32	Calculation		AWG
Silicon	4.59	0.500	0.094	mg/L	1	02/13/25 14:32	EPA 200.7		AWG
Sodium*	466	1.00	0.756	mg/L	1	02/13/25 14:32	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0093	0.0010	0.0006	mg/L	1	02/11/25 17:36	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/11/25 17:36	EPA 200.8		AES
Copper*	0.0147	0.0010	0.0003	mg/L	1	02/11/25 17:36	EPA 200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	02/18/25 15:48	EPA 200.8		AES
Manganese*	0.0093	0.0005	0.0002	mg/L	1	02/11/25 17:36	EPA 200.8		AES
Molybdenum*	0.0043	0.0005	0.00005	mg/L	1	02/11/25 17:36	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-MI

2502084-01 (Ground Water)

Sampled Date: 02/07/25 12:28

Sampled By: Brandon Waddell

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

Selenium*	0.0023	0.0010	0.0003	mg/L	1	02/11/25 17:36	EPA 200.8		AES
Uranium	0.0052	0.0010	0.00008	mg/L	2	02/18/25 15:48	EPA 200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	02/11/25 17:36	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 13:48	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-A

2502084-02 (Ground Water)

Sampled Date: 02/07/25 13:08

Sampled By: Brandon Waddell

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	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	590	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-1.53	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	10.0	2.00	0.994	mg/L	2	02/17/25 22:54	EPA 300.0		AWG
Fluoride*	<0.200	0.200	0.0673	mg/L	2	02/17/25 22:54	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:32	EPA 353.2		CAI
pH*	8.03			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	18.7			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	592	10.0	5.63	mg/L	10	02/17/25 23:18	EPA 300.0		AWG
Total Dissolved Solids*	1420	10.0		mg/L	1	02/12/25 12:55	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	3.34	0.500	0.290	mg/L	1	02/19/25 22:31	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Calcium*	1.63	0.500	0.362	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Hardness as CaCO ₃	7.35	3.31	2.54	mg/L	5	02/13/25 14:36	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Magnesium*	0.795	0.500	0.397	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Silica (SiO ₂)	9.94	5.35	1.01	mg/L	5	02/13/25 14:36	Calculation		AWG
Silicon	4.64	2.50	0.470	mg/L	5	02/13/25 14:36	EPA 200.7		AWG
Sodium*	525	5.00	3.78	mg/L	5	02/13/25 14:36	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	02/11/25 17:37	EPA 200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	02/11/25 17:37	EPA 200.8		AES
Copper*	0.0339	0.0020	0.0006	mg/L	2	02/11/25 17:37	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/18/25 15:49	EPA 200.8		AES
Manganese*	0.0029	0.0010	0.0004	mg/L	2	02/11/25 17:37	EPA 200.8		AES
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	02/11/25 17:37	EPA 200.8		AES

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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-A

2502084-02 (Ground Water)

Sampled Date: 02/07/25 13:08

Sampled By: Brandon Waddell

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

Selenium*	<0.0020	0.0020	0.0005	mg/L	2	02/11/25 17:37	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/18/25 15:49	EPA 200.8		AES
Zinc*	0.0323	0.0040	0.0012	mg/L	2	02/11/25 17:37	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 13:51	EPA 245.7		CAI
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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-C

2502084-03 (Ground Water)

Sampled Date: 02/07/25 13:54

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	2460	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	140	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	2320	10.0	8.00	mg/L	10	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-1.79	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	597	5.00	2.49	mg/L	5	02/17/25 23:43	EPA 300.0		AWG
Fluoride*	2.73	0.500	0.168	mg/L	5	02/17/25 23:43	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:34	EPA 353.2		CAI
pH*	7.99			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
pH Temperature, degrees C	18.8			pH Units	1	02/07/25 16:45	EPA 150.1/9040C		HIC
Sulfate*	<5.00	5.00	2.81	mg/L	5	02/17/25 23:43	EPA 300.0		AWG
Total Dissolved Solids*	3500	10.0		mg/L	1	02/12/25 12:57	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	6.52	2.50	1.45	mg/L	5	02/20/25 10:17	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Calcium*	5.24	0.500	0.362	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Hardness as CaCO ₃	22.0	3.31	2.54	mg/L	5	02/13/25 14:38	2340 B		AWG
Iron*	0.551	0.250	0.099	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Magnesium*	2.16	0.500	0.397	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Potassium*	<5.00	5.00	0.910	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Silica (SiO ₂)	9.77	5.35	1.01	mg/L	5	02/13/25 14:38	Calculation		AWG
Silicon	4.57	2.50	0.470	mg/L	5	02/13/25 14:38	EPA 200.7		AWG
Sodium*	1440	5.00	3.78	mg/L	5	02/13/25 14:38	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0221	0.0050	0.0031	mg/L	5	02/11/25 17:39	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/11/25 17:39	EPA 200.8		AES
Copper*	0.0656	0.0050	0.0015	mg/L	5	02/11/25 17:39	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/18/25 15:51	EPA 200.8		AES
Manganese*	0.0041	0.0025	0.0009	mg/L	5	02/11/25 17:39	EPA 200.8		AES
Molybdenum*	0.0027	0.0025	0.0003	mg/L	5	02/11/25 17:39	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

MW-4-C

2502084-03 (Ground Water)

Sampled Date: 02/07/25 13:54

Sampled By: Brandon Waddell

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

Selenium*	0.0250	0.0050	0.0014	mg/L	5	02/11/25 17:39	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/18/25 15:51	EPA 200.8		AES
Zinc*	0.0183	0.0100	0.0030	mg/L	5	02/11/25 17:39	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 13:54	EPA 245.7		CAI
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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250322 - General Prep - Wet Chem										
Reference (B250322-SRM1)				Prepared & Analyzed: 02/07/25						
pH	7.05		pH Units	7.00		101	97.5-102.5			
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

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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:
02/20/25 13:27

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

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 B250334 - Dissolved ICP

Blank (B250334-BLK1)

Prepared: 02/10/25 Analyzed: 02/13/25

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 (B250334-BS1)

Prepared: 02/10/25 Analyzed: 02/13/25

Aluminum	4.19	0.050	mg/L	4.00	105	85-115
Calcium	4.26	0.100	mg/L	4.00	107	85-115
Iron	4.31	0.050	mg/L	4.00	108	85-115
Magnesium	21.7	0.100	mg/L	20.0	108	85-115
Potassium	8.70	1.00	mg/L	8.00	109	85-115
Silicon	4.30	0.500	mg/L	4.00	108	85-115
Sodium	3.43	1.00	mg/L	3.24	106	85-115

LCS Dup (B250334-BSD1)

Prepared: 02/10/25 Analyzed: 02/14/25

Aluminum	3.89	0.050	mg/L	4.00	97.2	85-115	7.45	20
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115	9.57	20
Iron	3.97	0.050	mg/L	4.00	99.4	85-115	8.14	20
Magnesium	19.7	0.100	mg/L	20.0	98.7	85-115	9.20	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	6.47	20
Silicon	3.54	0.500	mg/L	4.00	88.6	85-115	19.3	20
Sodium	3.20	1.00	mg/L	3.24	98.8	85-115	6.81	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

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 B250337 - Dissolved ICPMS

Blank (B250337-BLK1)

Prepared: 02/10/25 Analyzed: 02/11/25

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 (B250337-BS1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0509	0.0010	mg/L	0.0500	102	85-115				
Cadmium	0.0498	0.0005	mg/L	0.0500	99.6	85-115				
Copper	0.0498	0.0010	mg/L	0.0500	99.5	85-115				
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115				
Manganese	0.0511	0.0005	mg/L	0.0500	102	85-115				
Molybdenum	0.0512	0.0005	mg/L	0.0500	102	85-115				
Selenium	0.247	0.0010	mg/L	0.250	99.0	85-115				
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115				
Zinc	0.0498	0.0020	mg/L	0.0500	99.6	85-115				

LCS Dup (B250337-BSD1)

Prepared: 02/10/25 Analyzed: 02/11/25

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115	0.592	20		
Cadmium	0.0501	0.0005	mg/L	0.0500	100	85-115	0.528	20		
Copper	0.0499	0.0010	mg/L	0.0500	99.9	85-115	0.357	20		
Lead	0.0507	0.0005	mg/L	0.0500	101	85-115	0.948	20		
Manganese	0.0517	0.0005	mg/L	0.0500	103	85-115	1.07	20		
Molybdenum	0.0507	0.0005	mg/L	0.0500	101	85-115	0.863	20		
Selenium	0.247	0.0010	mg/L	0.250	98.6	85-115	0.324	20		
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115	0.738	20		
Zinc	0.0505	0.0020	mg/L	0.0500	101	85-115	1.35	20		

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/20/25 13:27

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	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

Jeremy D Allen, Laboratory Director

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SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 27.75
CBN

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-084
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: 42 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☐ Wet ☒ Blue ☐ None Cooler Temp: Observed Temp: 5.1 °C Correction Factor: 2.9 °C Final Temp: 4.2 °C
Compliance: ☐ Yes ☒ No

*Temp should be above freezing 6°C

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☐ Yes ☒ No	10. <u>DSS, 1</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

07 April 2025

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 02/10/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00079

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: TX-C24-00112

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GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 02/21/25 15:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Hay Gulch Ditch Downgradient	2502097-01	Water	02/08/25 13:22	02/10/25 16:30	
Hay Gulch Ditch Upgradient	2502097-02	Water	02/08/25 13:53	02/10/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHG
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Hay Gulch Ditch Downgradient

2502097-01 (Surface Water)

Sampled Date: 02/08/25 13:22

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	360	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	360	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-2.98	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	53.9	1.00	0.497	mg/L	1	02/18/25 06:39	EPA 300.0		AWG
Fluoride*	0.287	0.100	0.0336	mg/L	1	02/18/25 06:39	EPA 300.0		AWG
Nitrate/Nitrite as N*	0.065	0.020	0.013	mg/L as N	1	02/19/25 10:46	EPA 353.2		CAI
Oil & Grease (HEM)	<5.00	5.00	2.54	mg/L	1	02/18/25 12:00	EPA 1664 A		HIC
pH*	8.04			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	17.8			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
SAR	0.47			No Unit	1	02/20/25 10:56	Calculation		AWG
Sulfate*	148	1.00	0.563	mg/L	1	02/18/25 06:39	EPA 300.0		AWG
Total Dissolved Solids*	565	10.0		mg/L	1	02/12/25 13:13	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	2.13	0.500	0.290	mg/L	1	02/20/25 03:15	5310C		CAI
Total Suspended Solids*	11.0	2.50		mg/L	1	02/13/25 09:20	2540 D		HIC

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/17/25 12:22	EPA 200.7		AWG
Calcium*	108	0.100	0.072	mg/L	1	02/17/25 12:22	EPA 200.7		AWG
Hardness as CaCO ₃	461	0.662	0.507	mg/L	1	02/17/25 12:22	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/17/25 12:22	EPA 200.7		AWG
Magnesium*	46.7	0.100	0.079	mg/L	1	02/17/25 12:22	EPA 200.7		AWG
Potassium*	3.74	1.00	0.182	mg/L	1	02/17/25 12:22	EPA 200.7		AWG
Silica (SiO ₂)	12.1	1.07	0.201	mg/L	1	02/20/25 11:54	Calculation		AWG
Silicon	5.64	0.500	0.094	mg/L	1	02/20/25 11:54	EPA 200.7		AWG
Sodium*	23.0	1.00	0.756	mg/L	1	02/17/25 12:22	EPA 200.7		AWG

Total Recoverable Metals by ICPMS (E200.8)

Mercury	<0.0100	0.0100	0.00430	ug/L	1	02/20/25 16:16	EPA 200.8		AES
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Hay Gulch Ditch Downgradient

2502097-01 (Surface Water)

Sampled Date: 02/08/25 13:22

Sampled By: Brandon Waddell

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

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Copper*	0.0051	0.0010	0.0007	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Lead*	0.0006	0.0005	0.0001	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Manganese*	0.0220	0.0005	0.0002	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Molybdenum*	0.0008	0.0005	0.00005	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Selenium*	0.0012	0.0010	0.0003	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Uranium	0.0013	0.0005	0.00004	mg/L	1	02/19/25 17:07	EPA 200.8		AES
Zinc*	0.0328	0.0020	0.0006	mg/L	1	02/19/25 17:07	EPA 200.8		AES

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Hay Gulch Ditch Upgradient

2502097-02 (Surface Water)

Sampled Date: 02/08/25 13:53

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	425	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	425	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-4.66	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	65.8	1.00	0.497	mg/L	1	02/18/25 07:03	EPA 300.0		AWG
Fluoride*	0.303	0.100	0.0336	mg/L	1	02/18/25 07:03	EPA 300.0		AWG
Nitrate/Nitrite as N*	0.082	0.020	0.013	mg/L as N	1	02/19/25 10:47	EPA 353.2		CAI
Oil & Grease (HEM)	<5.00	5.00	2.54	mg/L	1	02/18/25 12:00	EPA 1664 A		HIC
pH*	7.70			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	18.7			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
SAR	0.48			No Unit	1	02/20/25 10:56	Calculation		AWG
Sulfate*	179	1.00	0.563	mg/L	1	02/18/25 07:03	EPA 300.0		AWG
Total Dissolved Solids*	685	10.0		mg/L	1	02/12/25 13:15	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	4.03	0.500	0.290	mg/L	1	02/20/25 03:36	5310C		CAI
Total Suspended Solids*	12.4	2.50		mg/L	1	02/13/25 09:20	2540 D		HIC

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/17/25 12:34	EPA 200.7		AWG
Calcium*	102	0.100	0.072	mg/L	1	02/17/25 12:34	EPA 200.7		AWG
Hardness as CaCO ₃	532	0.662	0.507	mg/L	1	02/17/25 12:34	2340 B		AWG
Iron*	1.21	0.050	0.020	mg/L	1	02/17/25 12:34	EPA 200.7		AWG
Magnesium*	67.5	0.100	0.079	mg/L	1	02/17/25 12:34	EPA 200.7		AWG
Potassium*	6.08	1.00	0.182	mg/L	1	02/17/25 12:34	EPA 200.7		AWG
Silica (SiO ₂)	12.8	1.07	0.201	mg/L	1	02/20/25 12:07	Calculation		AWG
Silicon	5.99	0.500	0.094	mg/L	1	02/20/25 12:07	EPA 200.7		AWG
Sodium*	25.5	1.00	0.756	mg/L	1	02/17/25 12:34	EPA 200.7		AWG

Total Recoverable Metals by ICPMS (E200.8)

Mercury	<0.0100	0.0100	0.00430	ug/L	1	02/20/25 16:17	EPA 200.8		AES
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Hay Gulch Ditch Upgradient

2502097-02 (Surface Water)

Sampled Date: 02/08/25 13:53

Sampled By: Brandon Waddell

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

Arsenic*	0.0011	0.0010	0.0006	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Copper*	0.0186	0.0010	0.0007	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Lead*	0.0015	0.0005	0.0001	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Manganese*	0.500	0.0005	0.0002	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Molybdenum*	0.0010	0.0005	0.00005	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Selenium*	0.0016	0.0010	0.0003	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Uranium	0.0011	0.0005	0.00004	mg/L	1	02/19/25 17:15	EPA 200.8		AES
Zinc*	0.0243	0.0020	0.0006	mg/L	1	02/19/25 17:15	EPA 200.8		AES

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250317 - General Prep - Wet Chem										
Blank (B250317-BLK1)				Prepared & Analyzed: 02/10/25						
Oil & Grease (HEM)	ND	5.00	mg/L							
LCS (B250317-BS1)				Prepared & Analyzed: 02/10/25						
Oil & Grease (HEM)	36.6	5.00	mg/L	40.0		91.5	85-115			
LCS Dup (B250317-BSD1)				Prepared & Analyzed: 02/10/25						
Oil & Grease (HEM)	37.7	5.00	mg/L	40.0		94.3	85-115	2.96	20	
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250364 - Total Recoverable by ICP										
Blank (B250364-BLK1)				Prepared: 02/13/25 Analyzed: 02/14/25						
SAR	0.00		No Unit							
Batch B250367 - General Prep - Wet Chem										
Blank (B250367-BLK1)				Prepared & Analyzed: 02/13/25						

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

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 B250367 - General Prep - Wet Chem (Continued)

Blank (B250367-BLK1) (Continued)

Prepared & Analyzed: 02/13/25

Total Suspended Solids	ND	2.50	mg/L
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Reference (B250367-SRM1)

Prepared & Analyzed: 02/13/25

Total Suspended Solids	95.0	2.50	mg/L	100	95.0	85-115
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Batch B250371 - General Prep - Wet Chem

Reference (B250371-SRM1)

Prepared & Analyzed: 02/12/25

pH	7.06		pH Units	7.00	101	97.5-102.5
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Batch B250373 - IC- Ion Chromatograph

Blank (B250373-BLK1)

Prepared & Analyzed: 02/17/25

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

LCS (B250373-BS1)

Prepared & Analyzed: 02/17/25

Chloride	24.5	1.00	mg/L	25.0	98.0	90-110
Fluoride	2.69	0.100	mg/L	2.50	107	90-110
Sulfate	24.9	1.00	mg/L	25.0	99.7	90-110

LCS Dup (B250373-BSD1)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0	100	90-110	2.09	20
Fluoride	2.73	0.100	mg/L	2.50	109	90-110	1.62	20
Sulfate	25.4	1.00	mg/L	25.0	102	90-110	1.98	20

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00	99.9	90-110
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00	99.1	90-110	0.754	20
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

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 B250397 - General Prep - Wet Chem (Continued)

LCS (B250397-BS1) (Continued)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0	103	85-115
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0	103	85-115	0.777	20
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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 B250385 - Dissolved ICP

Blank (B250385-BLK1)

Prepared & Analyzed: 02/17/25

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 (B250385-BS1)

Prepared & Analyzed: 02/17/25

Aluminum	3.90	0.050	mg/L	4.00	97.5	85-115
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115
Iron	3.97	0.050	mg/L	4.00	99.3	85-115
Magnesium	19.9	0.100	mg/L	20.0	99.3	85-115
Potassium	8.10	1.00	mg/L	8.00	101	85-115
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115

LCS Dup (B250385-BSD1)

Prepared & Analyzed: 02/17/25

Aluminum	3.88	0.050	mg/L	4.00	97.0	85-115	0.568	20
Calcium	3.83	0.100	mg/L	4.00	95.8	85-115	1.18	20
Iron	3.91	0.050	mg/L	4.00	97.8	85-115	1.52	20
Magnesium	19.5	0.100	mg/L	20.0	97.6	85-115	1.72	20
Potassium	8.03	1.00	mg/L	8.00	100	85-115	0.930	20
Silicon	3.81	0.500	mg/L	4.00	95.2	85-115	2.43	20
Sodium	3.17	1.00	mg/L	3.24	98.0	85-115	1.86	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250410 - Mercury by 200.8

Blank (B250410-BLK1)

Prepared & Analyzed: 02/20/25

Mercury	ND	0.0100	ug/L							
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LCS (B250410-BS1)

Prepared & Analyzed: 02/20/25

Mercury	0.102	0.0100	ug/L	0.100		102	85-115			
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LCS Dup (B250410-BSD1)

Prepared & Analyzed: 02/20/25

Mercury	0.104	0.0100	ug/L	0.100		104	85-115	1.91	20	
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

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 B250383 - Dissolved ICPMS

Blank (B250383-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

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 (B250383-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0521	0.0010	mg/L	0.0500	104	85-115
Cadmium	0.0508	0.0005	mg/L	0.0500	102	85-115
Copper	0.0482	0.0010	mg/L	0.0500	96.4	85-115
Lead	0.0514	0.0005	mg/L	0.0500	103	85-115
Manganese	0.0485	0.0005	mg/L	0.0500	96.9	85-115
Molybdenum	0.0522	0.0005	mg/L	0.0500	104	85-115
Selenium	0.254	0.0010	mg/L	0.250	101	85-115
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115
Zinc	0.0482	0.0020	mg/L	0.0500	96.4	85-115

LCS Dup (B250383-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0520	0.0010	mg/L	0.0500	104	85-115	0.158	20
Cadmium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.181	20
Copper	0.0488	0.0010	mg/L	0.0500	97.6	85-115	1.25	20
Lead	0.0519	0.0005	mg/L	0.0500	104	85-115	1.02	20
Manganese	0.0491	0.0005	mg/L	0.0500	98.3	85-115	1.40	20
Molybdenum	0.0532	0.0005	mg/L	0.0500	106	85-115	1.94	20
Selenium	0.254	0.0010	mg/L	0.250	102	85-115	0.152	20
Uranium	0.0516	0.0005	mg/L	0.0500	103	85-115	1.05	20
Zinc	0.0491	0.0020	mg/L	0.0500	98.2	85-115	1.83	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Notes and Definitions

Q9 Sample analyzed for Mercury by EPA 200.8, however, the turbidity of the sample is not less than 1 NTU, as required by the method.

H1 Sample was received several days after collected and subsequently analyzed past hold time.

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

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/21/25 15:11

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2502097			Q9	Sample analyzed for Mercury by EPA 200.8, however, the turbidity of the sample is not less than 1 NTU, as required by the method.
2502097-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502097-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502097-02	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502097-02	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

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Jeremy D Allen, Laboratory Director

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

Company or Client: GCC Energy Address: 6473 CR 120 City: Hesperus State: CO Zip: 81326 Phone #: 970.385.4528 Contact Person: Michael Dickson for billing; Landon Beck for logistical or technical Email Report to: mdickson@gcc.com; lbeck@slrconsulting.com; tom@hayguleservices.com Project Name(optional):		Bill to (if different):		ANIMALS		NEEDS	
P.O. #:							

[illegible]

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:		Date: 2-10-25	Received By:		Date: 2/10/25	ADDITIONAL REMARKS:
		Time: 16:48			Time: 16:30	
Relinquished By:		Date:	Received By:		Date:	
		Time:			Time:	
Relinquished By:		Date:	Received By:		Date:	Temperature at receipt:
		Time:			Time:	
						Checked by:
						On Ice?
						Therm. used:

† GAL cannot accept verbal changes. Please email changes to receiving@greenanayltical.com



SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 2.11.25
CRW

 Labeled by initials: _____
 (If different than above)
Client Name: GCL EnergyWork Order # 2502-097
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: _____ Observed Temp: 4.7 °C Correction Factor: -0.9 °C Final Temp: 3.8 °C

* Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>pH, Turbidity</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>DSS</u>
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ WP ☐ SL ☐ OT	12.
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



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

07 April 2025

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 02/10/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00079

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: TX-C24-00112

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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:
02/21/25 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Well #1 Upgradient	2502096-01	Water	02/08/25 12:28	02/10/25 16:30	
Well #2 Downgradient	2502096-02	Water	02/08/25 10:47	02/10/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

Well #1 Upgradient

2502096-01 (Ground Water)

Sampled Date: 02/08/25 12:28

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	635	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	635	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-2.87	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	4.87	1.00	0.497	mg/L	1	02/18/25 05:01	EPA 300.0		AWG
Fluoride*	0.389	0.100	0.0336	mg/L	1	02/18/25 05:01	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:43	EPA 353.2		CAI
pH*	7.55			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	16.7			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
Sulfate*	120	1.00	0.563	mg/L	1	02/18/25 05:01	EPA 300.0		AWG
Total Dissolved Solids*	640	10.0		mg/L	1	02/12/25 13:09	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	3.59	0.500	0.290	mg/L	1	02/20/25 02:36	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/17/25 12:15	EPA 200.7		AWG
Calcium*	59.3	0.100	0.072	mg/L	1	02/17/25 12:15	EPA 200.7		AWG
Hardness as CaCO ₃	316	0.662	0.507	mg/L	1	02/17/25 12:15	2340 B		AWG
Iron*	1.88	0.050	0.020	mg/L	1	02/17/25 12:15	EPA 200.7		AWG
Magnesium*	40.7	0.100	0.079	mg/L	1	02/17/25 12:15	EPA 200.7		AWG
Potassium*	2.99	1.00	0.182	mg/L	1	02/17/25 12:15	EPA 200.7		AWG
Silica (SiO ₂)	13.1	1.07	0.201	mg/L	1	02/20/25 11:47	Calculation		AWG
Silicon	6.14	0.500	0.094	mg/L	1	02/20/25 11:47	EPA 200.7		AWG
Sodium*	164	1.00	0.756	mg/L	1	02/17/25 12:15	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Copper*	0.0056	0.0050	0.0036	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Manganese*	0.466	0.0025	0.0009	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/19/25 17:04	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

Well #1 Upgradient

2502096-01 (Ground Water)

Sampled Date: 02/08/25 12:28

Sampled By: Brandon Waddell

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

Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/19/25 17:04	EPA 200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/19/25 17:04	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 15:01	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

Well #2 Downgradient

2502096-02 (Ground Water)

Sampled Date: 02/08/25 10:47

Sampled By: Brandon Waddell

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

General Chemistry

Alkalinity, Total as CaCO ₃ *	415	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	415	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-3.49	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	46.1	1.00	0.497	mg/L	1	02/18/25 05:25	EPA 300.0		AWG
Fluoride*	0.268	0.100	0.0336	mg/L	1	02/18/25 05:25	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:45	EPA 353.2		CAI
pH*	7.56			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	17.0			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
Sulfate*	193	1.00	0.563	mg/L	1	02/18/25 05:25	EPA 300.0		AWG
Total Dissolved Solids*	660	10.0		mg/L	1	02/12/25 13:11	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	1.59	0.500	0.290	mg/L	1	02/20/25 02:55	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/17/25 12:18	EPA 200.7		AWG
Calcium*	78.6	0.100	0.072	mg/L	1	02/17/25 12:18	EPA 200.7		AWG
Hardness as CaCO ₃	532	0.662	0.507	mg/L	1	02/17/25 12:18	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	02/17/25 12:18	EPA 200.7		AWG
Magnesium*	81.4	0.100	0.079	mg/L	1	02/17/25 12:18	EPA 200.7		AWG
Potassium*	2.27	1.00	0.182	mg/L	1	02/17/25 12:18	EPA 200.7		AWG
Silica (SiO ₂)	11.2	1.07	0.201	mg/L	1	02/20/25 11:51	Calculation		AWG
Silicon	5.22	0.500	0.094	mg/L	1	02/20/25 11:51	EPA 200.7		AWG
Sodium*	29.1	1.00	0.756	mg/L	1	02/17/25 12:18	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Copper*	0.0018	0.0010	0.0007	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Manganese*	0.331	0.0005	0.0002	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Molybdenum*	0.0031	0.0005	0.00005	mg/L	1	02/19/25 17:06	EPA 200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

Well #2 Downgradient

2502096-02 (Ground Water)

Sampled Date: 02/08/25 10:47

Sampled By: Brandon Waddell

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

Selenium*	0.0010	0.0010	0.0003	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Uranium	0.0018	0.0005	0.00004	mg/L	1	02/19/25 17:06	EPA 200.8		AES
Zinc*	0.0021	0.0020	0.0006	mg/L	1	02/19/25 17:06	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 15:04	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250371 - General Prep - Wet Chem										
Reference (B250371-SRM1)				Prepared & Analyzed: 02/12/25						
pH	7.06		pH Units	7.00		101	97.5-102.5			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

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 B250385 - Dissolved ICP

Blank (B250385-BLK1)

Prepared & Analyzed: 02/17/25

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 (B250385-BS1)

Prepared & Analyzed: 02/17/25

Aluminum	3.90	0.050	mg/L	4.00	97.5	85-115
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115
Iron	3.97	0.050	mg/L	4.00	99.3	85-115
Magnesium	19.9	0.100	mg/L	20.0	99.3	85-115
Potassium	8.10	1.00	mg/L	8.00	101	85-115
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115

LCS Dup (B250385-BSD1)

Prepared & Analyzed: 02/17/25

Aluminum	3.88	0.050	mg/L	4.00	97.0	85-115	0.568	20
Calcium	3.83	0.100	mg/L	4.00	95.8	85-115	1.18	20
Iron	3.91	0.050	mg/L	4.00	97.8	85-115	1.52	20
Magnesium	19.5	0.100	mg/L	20.0	97.6	85-115	1.72	20
Potassium	8.03	1.00	mg/L	8.00	100	85-115	0.930	20
Silicon	3.81	0.500	mg/L	4.00	95.2	85-115	2.43	20
Sodium	3.17	1.00	mg/L	3.24	98.0	85-115	1.86	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

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 B250383 - Dissolved ICPMS

Blank (B250383-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

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 (B250383-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0521	0.0010	mg/L	0.0500	104	85-115
Cadmium	0.0508	0.0005	mg/L	0.0500	102	85-115
Copper	0.0482	0.0010	mg/L	0.0500	96.4	85-115
Lead	0.0514	0.0005	mg/L	0.0500	103	85-115
Manganese	0.0485	0.0005	mg/L	0.0500	96.9	85-115
Molybdenum	0.0522	0.0005	mg/L	0.0500	104	85-115
Selenium	0.254	0.0010	mg/L	0.250	101	85-115
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115
Zinc	0.0482	0.0020	mg/L	0.0500	96.4	85-115

LCS Dup (B250383-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0520	0.0010	mg/L	0.0500	104	85-115	0.158	20
Cadmium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.181	20
Copper	0.0488	0.0010	mg/L	0.0500	97.6	85-115	1.25	20
Lead	0.0519	0.0005	mg/L	0.0500	104	85-115	1.02	20
Manganese	0.0491	0.0005	mg/L	0.0500	98.3	85-115	1.40	20
Molybdenum	0.0532	0.0005	mg/L	0.0500	106	85-115	1.94	20
Selenium	0.254	0.0010	mg/L	0.250	102	85-115	0.152	20
Uranium	0.0516	0.0005	mg/L	0.0500	103	85-115	1.05	20
Zinc	0.0491	0.0020	mg/L	0.0500	98.2	85-115	1.83	20

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	20
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Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

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

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:08

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2502096-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502096-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502096-02	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502096-02	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 2-11-25
CDN

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-096
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: H2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 4.7 °C Correction Factor: -0.9 °C Final Temp: 3.8 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>Diss</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>WP</u> SL OT	☒ Yes ☐ No	11.
Trip Blank Present: ☐ Yes ☐ No ☐ N/A Trip Blank Custody Seals Present: ☐ Yes ☐ No ☐ N/A VOA's meet headspace requirement (<6mm bubbles) ☐ Yes ☐ No ☐ N/A		12.
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

07 April 2025

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 02/10/25 16:30. 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 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

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-C25-00079

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: TX-C24-00112

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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:
02/21/25 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-HGA-4	2502095-01	Water	02/08/25 11:17	02/10/25 16:30	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

MW-HGA-4

2502095-01 (Ground Water)

Sampled Date: 02/08/25 11:17

Sampled By: Brandon Waddell

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

Alkalinity, Total as CaCO ₃ *	415	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	415	10.0	8.00	mg/L	5	02/12/25 14:00	2320 B		HIC
Cation/Anion Balance	-0.330	-100	-100	%	1	02/20/25 09:27	Calculation		JDA
Chloride*	3.55	1.00	0.497	mg/L	1	02/18/25 04:36	EPA 300.0		AWG
Fluoride*	0.469	0.100	0.0336	mg/L	1	02/18/25 04:36	EPA 300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/19/25 10:42	EPA 353.2		CAI
pH*	7.31			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	17.7			pH Units	1	02/12/25 09:25	EPA 150.1/9040C	H1	HIC
Sulfate*	155	1.00	0.563	mg/L	1	02/18/25 04:36	EPA 300.0		AWG
Total Dissolved Solids*	505	10.0		mg/L	1	02/12/25 13:07	EPA 160.1/SM 2540C		HIC
Total Organic Carbon*	4.72	0.500	0.290	mg/L	1	02/20/25 00:56	5310C		CAI

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/17/25 12:13	EPA 200.7		AWG
Calcium*	81.2	0.100	0.072	mg/L	1	02/17/25 12:13	EPA 200.7		AWG
Hardness as CaCO ₃	432	0.662	0.507	mg/L	1	02/17/25 12:13	2340 B		AWG
Iron*	9.53	0.050	0.020	mg/L	1	02/17/25 12:13	EPA 200.7		AWG
Magnesium*	55.6	0.100	0.079	mg/L	1	02/17/25 12:13	EPA 200.7		AWG
Potassium*	2.21	1.00	0.182	mg/L	1	02/17/25 12:13	EPA 200.7		AWG
Silica (SiO ₂)	12.6	1.07	0.201	mg/L	1	02/20/25 11:45	Calculation		AWG
Silicon	5.88	0.500	0.094	mg/L	1	02/20/25 11:45	EPA 200.7		AWG
Sodium*	38.6	1.00	0.756	mg/L	1	02/17/25 12:13	EPA 200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0031	0.0010	0.0006	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Copper*	0.0012	0.0010	0.0007	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Manganese*	0.412	0.0005	0.0002	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Molybdenum*	0.0056	0.0005	0.00005	mg/L	1	02/19/25 17:03	EPA 200.8		AES

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Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

MW-HGA-4

2502095-01 (Ground Water)

Sampled Date: 02/08/25 11:17

Sampled By: Brandon Waddell

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

Selenium*	<0.0010	0.0010	0.0003	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Uranium	<0.0005	0.0005	0.00004	mg/L	1	02/19/25 17:03	EPA 200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	02/19/25 17:03	EPA 200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/19/25 14:53	EPA 245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250355 - General Prep - Wet Chem										
Blank (B250355-BLK1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250355-SRM1)				Prepared & Analyzed: 02/12/25						
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B250356 - General Prep - Wet Chem										
Blank (B250356-BLK1)				Prepared & Analyzed: 02/12/25						
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 (B250356-BS1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	114	10.0	mg/L	100		114	85-115			
LCS Dup (B250356-BSD1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	110	10.0	mg/L	100		110	85-115	3.57	20	
Reference (B250356-SRM1)				Prepared & Analyzed: 02/12/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B250371 - General Prep - Wet Chem										
Reference (B250371-SRM1)				Prepared & Analyzed: 02/12/25						
pH	7.06		pH Units	7.00		101	97.5-102.5			
Batch B250373 - IC- Ion Chromatograph										
Blank (B250373-BLK1)				Prepared & Analyzed: 02/17/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250373-BS1)				Prepared & Analyzed: 02/17/25						
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.69	0.100	mg/L	2.50		107	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
LCS Dup (B250373-BSD1)				Prepared & Analyzed: 02/17/25						

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Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

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 B250373 - IC- Ion Chromatograph (Continued)

LCS Dup (B250373-BSD1) (Continued)

Prepared & Analyzed: 02/17/25

Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.09	20	
Fluoride	2.73	0.100	mg/L	2.50		109	90-110	1.62	20	
Sulfate	25.4	1.00	mg/L	25.0		102	90-110	1.98	20	

Batch B250376 - Lachat

Blank (B250376-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B250376-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.999	0.020	mg/L as N	1.00		99.9	90-110			
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LCS Dup (B250376-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Nitrate/Nitrite as N	0.991	0.020	mg/L as N	1.00		99.1	90-110	0.754	20	
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Batch B250397 - General Prep - Wet Chem

Blank (B250397-BLK1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B250397-BS1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115			
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LCS Dup (B250397-BSD1)

Prepared & Analyzed: 02/19/25

Total Organic Carbon	10.3	0.500	mg/L	10.0		103	85-115	0.777	20	
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Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

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 B250385 - Dissolved ICP

Blank (B250385-BLK1)

Prepared & Analyzed: 02/17/25

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 (B250385-BS1)

Prepared & Analyzed: 02/17/25

Aluminum	3.90	0.050	mg/L	4.00	97.5	85-115				
Calcium	3.88	0.100	mg/L	4.00	96.9	85-115				
Iron	3.97	0.050	mg/L	4.00	99.3	85-115				
Magnesium	19.9	0.100	mg/L	20.0	99.3	85-115				
Potassium	8.10	1.00	mg/L	8.00	101	85-115				
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115				
Sodium	3.23	1.00	mg/L	3.24	99.8	85-115				

LCS Dup (B250385-BSD1)

Prepared & Analyzed: 02/17/25

Aluminum	3.88	0.050	mg/L	4.00	97.0	85-115	0.568	20		
Calcium	3.83	0.100	mg/L	4.00	95.8	85-115	1.18	20		
Iron	3.91	0.050	mg/L	4.00	97.8	85-115	1.52	20		
Magnesium	19.5	0.100	mg/L	20.0	97.6	85-115	1.72	20		
Potassium	8.03	1.00	mg/L	8.00	100	85-115	0.930	20		
Silicon	3.81	0.500	mg/L	4.00	95.2	85-115	2.43	20		
Sodium	3.17	1.00	mg/L	3.24	98.0	85-115	1.86	20		

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Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

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 B250383 - Dissolved ICPMS

Blank (B250383-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

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 (B250383-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0521	0.0010	mg/L	0.0500	104	85-115
Cadmium	0.0508	0.0005	mg/L	0.0500	102	85-115
Copper	0.0482	0.0010	mg/L	0.0500	96.4	85-115
Lead	0.0514	0.0005	mg/L	0.0500	103	85-115
Manganese	0.0485	0.0005	mg/L	0.0500	96.9	85-115
Molybdenum	0.0522	0.0005	mg/L	0.0500	104	85-115
Selenium	0.254	0.0010	mg/L	0.250	101	85-115
Uranium	0.0511	0.0005	mg/L	0.0500	102	85-115
Zinc	0.0482	0.0020	mg/L	0.0500	96.4	85-115

LCS Dup (B250383-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Arsenic	0.0520	0.0010	mg/L	0.0500	104	85-115	0.158	20
Cadmium	0.0509	0.0005	mg/L	0.0500	102	85-115	0.181	20
Copper	0.0488	0.0010	mg/L	0.0500	97.6	85-115	1.25	20
Lead	0.0519	0.0005	mg/L	0.0500	104	85-115	1.02	20
Manganese	0.0491	0.0005	mg/L	0.0500	98.3	85-115	1.40	20
Molybdenum	0.0532	0.0005	mg/L	0.0500	106	85-115	1.94	20
Selenium	0.254	0.0010	mg/L	0.250	102	85-115	0.152	20
Uranium	0.0516	0.0005	mg/L	0.0500	103	85-115	1.05	20
Zinc	0.0491	0.0020	mg/L	0.0500	98.2	85-115	1.83	20

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Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

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 B250381 - EPA 245.7

Blank (B250381-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	ND	100	ng/L
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LCS (B250381-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1080	100	ng/L	1000	108	76-113
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LCS Dup (B250381-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Mercury	1090	100	ng/L	1000	109	76-113	1.21	20
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Notes and Definitions

H1	Sample was received several days after collected and subsequently analyzed past hold time.
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

Jeremy D Allen, Laboratory Director

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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:
02/21/25 15:03

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2502095-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2502095-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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

FORM-006, R 8.0

Page 1 of 1



SAMPLE CONDITION RECEIPT FORM

 Date/Initials of person examining contents: 2.11.25
LOW

 Labeled by initials: _____
 (if different than above)
Client Name: GCC EnergyWork Order # 2502-095
 Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

 Custody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____

 Thermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ No

 Type of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: _____ Observed Temp: 4.7 °C Correction Factor: -0.9 °C Final Temp: 3.8 °C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time:	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ 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.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☒ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed: Field Filtered: ☒ Yes ☐ No	☒ Yes ☐ No	10. <u>Diss</u>
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>WT</u> SL OT	☒ Yes ☐ No	11.
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____
