

## GCC Energy Hydrologic Monitoring Data

		Hay Gulch Ditch Upgradient																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2	6	8	11	2	5
Sample Date		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	6/16	8/18	11/6	2/5	5/20
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
<b>Field Parameters:</b>																							
Flow Rate	cfs	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	1.40	0.05	0.69	2.21	2.96
Temperature	deg C	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	16.1	25.0	10.0	6.4	11.5
pH	SU	7.83	7.75	8.07	6.94	7.11	7.94	7.15	6.19	7.85	8.01	7.70	7.76	7.68	7.73	8.05	7.68	7.58	7.90	8.08	8.26	8.11	8.43
Specific Conductance	µS/cm	1024	189	280	252	553	832	570	708	1508	442	764	1013	1058	532	306	989	1237	434	1176	563	455	270
Oxygen Reduction Potential	mV	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	140.1	-44.1	325.1	311.4	302.1
Dissolved Oxygen	mg/L	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	7.5	5.7	9.2	9.1	8.7
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	588	93	131	120	280	383	273	336	697	293	342	434	458	245	141	460	532	204	533	255	203	112
pH (Lab)	SU	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	7.70	7.88	8.02	8.04	8.22	8.43
Total Dissolved Solids (Lab)	mg/L	685	210	185	140	380	520	355	410	955	380	480	600	615	295	150	600	685	225	790	325	310	185
Total Suspended Solids	mg/L	55.00	133.00	51.00	13.20	13.40	5.07	45.40	<2.50	121.00	38.00	9.79	<2.50	10.00	57.30	4.92	26.70	12.40	29.40	10.40	2.78	34.00	13.80
Calcium	mg/L	113.0	25.8	35.8	34.2	61.7	70.8	55.0	69.9	124.0	63.5	70.2	86.3	90.2	50.0	37.0	90.1	102.0	46.6	94.1	57.0	48.5	28.1
Magnesium	mg/L	74.3	6.9	10.1	8.4	30.5	50.1	33.1	39.2	93.9	32.6	40.5	53.0	56.6	29.1	11.8	57.1	67.5	21.2	72.3	27.3	19.8	10.1
Sodium	mg/L	34.30	2.71	3.97	3.53	13.80	19.30	12.40	15.10	36.80	18.10	20.60	31.60	30.50	16.90	5.13	21.80	25.50	9.71	33.60	11.50	8.83	4.97
Potassium	mg/L	4.74	<1.00	3.28	<1.00	3.39	3.58	2.18	2.82	6.20	2.79	2.97	6.33	4.89	3.32	1.30	4.39	6.08	1.48	4.64	2.01	1.62	1.22
Alkalinity, Total	mg/L	340	68	98	87	162	330	209	231	365	179	247	300	326	175	111	301	425	133	420	183	146	89
Alkalinity, Bicarbonate	mg/L	340	68	98	87	162	330	209	231	365	179	247	300	326	175	111	301	425	133	420	183	146	89
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
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
Chloride	mg/L	85.90	3.17	5.23	3.44	32.30	33.60	21.90	29.20	108.00	36.10	41.70	45.80	51.20	21.60	7.84	55.70	65.80	18.30	82.80	24.70	15.60	5.38
Fluoride	mg/L	0.235	0.188	0.227	0.179	0.178	0.260	0.238	0.227	0.266	0.185	0.235	0.189	<0.200	0.223	0.215	0.271	0.303	0.205	0.270	0.227	0.199	0.193
Sulfate as SO4	mg/L	211.0	26.4	42.2	40.0	95.5	121.0	85.1	99.4	314.0	116.0	114.0	152.0	159.0	76.6	38.8	146.0	179.0	59.8	200.0	78.0	60.2	34.6
Total Organic Carbon (TOC)	mg/L	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	1.55	3.26	1.55	1.43	1.89
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
Nitrate/Nitrite as N	mg/L	0.282	0.049	0.026	<0.02	0.118	0.165	<0.02	0.066	0.850	0.133	0.298	0.113	0.038	0.085	0.024	0.070	0.082	0.107	0.069	0.035	0.020	<0.020
Sodium Adsorption Ratio (SAR)	no unit	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	0.30	0.63	0.31	0.27	0.20
Aluminum	mg/L	<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	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	mg/L	0.0012	<0.0005	0.0010	<0.0005	0.0005	0.0010	0.0007	0.0009	<0.0025	0.0006	0.0008	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005
Copper	mg/L	0.0007	0.0009	0.0012	0.0006	0.0011	0.0011	0.0007	0.0069	0.0102	0.0036	0.0020	<0.0040	0.0031	0.0036	0.0053	0.0084	0.0186	0.0196	0.0095	0.0043	0.0105	0.0046
Iron	mg/L	0.1030	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.2720	<0.0500	0.2370	<0.1000	0.5280	0.0810	<0.0500	0.4060	1.2100	<0.0500	<0.050	<0.050	<0.050	<0.050
Lead	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	0.0007	0.0015	0.0013	<0.0010	<0.0005	0.0007	<0.0005
Manganese	mg/L	0.1490	0.0042	0.0156	0.0074	0.0337	0.0761	0.0241	0.0398	0.4320	0.0989	0.1400	0.3170	0.7540	0.1020	0.0157	0.1720	0.5000	0.0113	0.0432	0.0144	0.0304	0.0101
Mercury (total)	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	<0.0002	<0.0002	<0.0002
Mercury (total low-level)	ng/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
Molybdenum	mg/L	0.0007	0.0009	0.0011	0.0008	0.0009	0.0014	0.0012	0.0012	<0.0025	0.0008	0.0013	<0.0010	0.0009	0.0012	0.0010	0.0009	0.0010	0.0009	0.0012	0.0009	0.0009	0.0010
Selenium	mg/L	0.0018	<0.0010	<0.0010	<0.001	<0.0010	0.0012	<0.001	0.0011	<0.0050	<0.0010	<0.0010	<0.0020	0.0013	0.0018	<0.0010	0.0013	0.0016	<0.0010	0.0031	0.0014	<0.0010	<0.0010
Silica (SiO2)	mg/L	13.40	7.18	9.33	8.95	9.73	13.90	10.60	11.30	12.30	12.00	11.90	14.00	13.20	10.50	9.51	12.00	12.80	9.78	12.40	9.73	8.66	7.80
Silicon	mg/L	6.26	3.36	4.36	4.18	4.55	6.49	4.96	5.30	5.77	5.61	5.59	6.53	6.19	4.90	4.44	5.61	5.99	4.57	5.78	4.55	4.05	3.65
Uranium	mg/L	0.0013	<0.0005	<0.0005	<0.0005	0.0005	0.0008	0.0006	0.0006	<0.0025	<0.0005	0.0010	<0.0010	0.0005	0.0005	<0.0005	0.0009	0.0011	<0.0005	0.0015	0.0005	<0.0005	<0.0005
Zinc	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0050	<0.0100	0.0047	0.0022	<0.0040	0.0056	0.0095	0.0123	0.0116	0.0243	0.0249	0.0160	0.0139	0.0130	0.0051

**Notes & Definitions:**

*Historical data prior to 2021 can be found in earlier posted versions of this table*

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

Hay Gulch Ditch Downgradient																							
Year	2021				2022				2023				2024				2025				2026		
	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month	2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2	6	8	11	2	5	
Sample Date	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	6/16	8/18	11/6	2/5	5/20	
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	
<b>Field Parameters:</b>																							
Flow Rate	cfs	0.00	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	0.14	0.23	0.13	0.59	0.24
Temperature	deg C	10.4	13.4	10.5	4.0	9.2	17.7	18.0	4.1	4.5	15.5	14.5	7.4	5.9	15.0	14.5	8.4	6.8	12.6	20.0	10.0	4.5	13.7
pH	SU	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	8.12	7.90	7.96	8.25	8.41
Specific Conductance	µS/cm	815	131	184	311	636	150	248	292	891	762	835	976	984	358	378	845	1044	471	177	348	518	169
Oxygen Reduction Potential	mV	-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	146.3	-37.0	328.3	326.0	364.4
Dissolved Oxygen	mg/L	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	7.8	6.3	8.3	9.9	8.0
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	419	65	91	143	346	66	96	138	433	337	497	467	439	180	184	411	461	227	78	163	255	69
pH (Lab)	SU	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	8.01	8.15	7.79	8.15	8.06
Total Dissolved Solids (Lab)	mg/L	435	175	90	120	410	30	90	225	555	475	625	575	570	195	225	545	565	250	100	215	365	115
Total Suspended Solids	mg/L	28.00	8.40	4.80	5.44	18.30	29.20	3.67	8.00	17.80	62.00	16.00	3.38	25.70	31.30	9.15	6.39	11.00	8.25	4.44	5.26	3.71	12.60
Calcium	mg/L	98.2	21.2	29.8	39.3	82.1	21.4	30.2	39.0	101.0	75.8	114.0	110.0	99.9	42.9	47.0	97.9	108.0	55.4	23.4	46.3	64.2	21.5
Magnesium	mg/L	42.2	2.9	3.9	11.0	34.2	3.0	5.0	9.7	43.8	35.8	51.9	47.1	46.0	17.6	16.3	40.4	46.7	21.6	4.7	11.6	23.0	3.7
Sodium	mg/L	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	10.90	3.26	5.67	11.10	2.14
Potassium	mg/L	3.75	<1.00	1.02	1.30	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	1.89	<1.00	1.33	1.92	<1.00
Alkalinity, Total	mg/L	315	52	72	116	282	46	73	103	303	218	293	325	312	129	139	345	360	155	59	122	180	59
Alkalinity, Bicarbonate	mg/L	315	52	72	116	282	46	73	103	293	218	265	325	296	129	139	345	360	155	59	122	180	59
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	28.0	<10.0	16.0	<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
Chloride	mg/L	59.00	1.16	1.21	5.07	15.00	1.23	1.69	6.57	39.60	39.40	50.50	42.70	51.60	12.70	11.90	46.30	53.90	20.40	2.02	9.93	18.50	1.51
Fluoride	mg/L	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	0.201	0.225	0.226	0.222	0.185
Sulfate as SO4	mg/L	90.1	17.3	25.7	46.3	74.7	18.8	26.4	42.2	138.0	127.0	168.0	138.0	142.0	47.6	48.6	125.0	148.0	58.6	21.4	45.5	70.4	20.5
Total Organic Carbon (TOC)	mg/L	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	1.63	1.46	1.55	1.32	1.01
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
Nitrate/Nitrite as N	mg/L	0.148	0.021	<0.020	<0.020	0.041	<0.02	<0.02	<0.02	0.361	0.170	0.078	<0.020	0.072	0.056	0.025	0.099	0.065	0.028	<0.020	<0.020	<0.020	<0.020
Sodium Adsorption Ratio (SAR)	no unit	0.34	0.06	0.08	0.17	0.38	0.08	0.90	0.15	0.39	0.44	0.58	0.44	0.46	0.29	0.22	0.42	0.47	0.31	0.16	0.19	0.30	0.11
Aluminum	mg/L	<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	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	mg/L	0.0013	<0.0005	0.0007	<0.0005	<0.0005	0.0010	0.0007	0.0005	<0.001	0.0009	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	mg/L	0.0006	0.0011	0.0010	0.0007	0.0009	0.0034	0.0010	0.0045	0.0070	0.0026	0.0029	0.0025	0.0028	0.0022	0.0194	0.0058	0.0051	0.0067	0.0083	0.0078	0.0022	<0.0040
Iron	mg/L	<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	<0.250	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	mg/L	<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	0.0016	<0.0005	0.0006	<0.0005	<0.0005	0.0007	<0.0005	<0.0005
Manganese	mg/L	0.1330	0.0011	0.0021	0.0124	0.0082	0.0024	0.0175	0.0315	0.0552	0.0233	0.0156	0.0490	0.0844	0.0055	0.0153	0.0428	0.0220	0.0143	0.0090	0.0110	0.0213	0.0015
Mercury (total)	mg/L	<0.0002	<0.0002	<0.0002	0																		
Mercury (total low-level)	ng/L		<10.0	<10.0		<0.2	<100	<100	<100	<100	<100	<100	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Molybdenum	mg/L	0.0009	0.0009	0.0010	0.0009	0.0010	0.0010	0.0011	0.0009	<0.001	0.0009	0.0010	0.0008	0.0009	0.0010	0.0009	0.0008	0.0008	0.0009	0.0010	0.0009	0.0009	0.0012
Selenium	mg/L	0.0015	<0.0010	<0.0010	<0.0010	0.0010	0.0011	<0.0010	<0.0010	<0.0020	0.0010	<0.0020	0.0013	0.0014	0.0014	<0.0010	0.0014	0.0012	<0.0010	<0.0010	<0.0012	<0.0010	<0.0010
Silica (SiO2)	mg/L	12.90	6.68	8.84	9.38	12.00	6.98	7.96	8.75	11.30	11.80	13.40	13.80	11.30	9.03	9.95	12.60	12.10	9.69	4.67	9.20	9.42	7.31
Silicon	mg/L	6.01	3.12	4.13	4.38	5.59	3.26	3.72	4.09	5.26	5.50	6.25	6.47	5.27	4.22	4.65	5.90	5.64	4.53	2.18	4.30	4.40	3.42
Uranium	mg/L	0.0009	<0.0005	<0.0005	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	0.0010	0.0007	0.0010	0.0009	0.0011	<0.0005	<0.0005	0.0011	0.0013	<0.0005	<0.0005	<0.0005	0.0006	<0.0005
Zinc	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	0.0022	<0.0020	0.0065	0.0042	<0.0020	<0.0040	0.0032	0.0026	0.0031	0.0260	0.0154	0.0328	0.0190	0.0166	0.0231	0.0050	0.0039

**Notes & Definitions:**

Historical data prior to 2021 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

- |  |   |
|--|---|
| <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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
|--|---|

## GCC Energy Hydrologic Monitoring Data

		Well #2 Downgradient																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	8	12	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/27	8/18	11/6	2/5	5/21
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.6	0.3	0.2	0.2	0.4	0.2	0.4	0.2	0.3	0.5	0.3	0.4	0.3
Total Purged	gal	12	9	7	12	6	9	19	0	5	8	5	5	5	4	4	3	3	4	3	3	4	5
Depth to Water	ft bgs	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	11.20	12.70	13.10	11.91	8.95
Temperature	deg C	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	9.3	11.2	11.7	10.7	9.9
pH	SU	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	7.41	7.45	7.40	7.36	7.45
Specific Conductance	µS/cm	964	939	1038	1073	1050	1019	1063	1201	1193	1253	1184	1202	1139	1093	1109	1119	1184	1143	1174	1201	1184	1239
Oxygen Reduction Potential	mV	-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	53.5	-189.2	251.0	336.6	354.9
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	624	529	503	521	500	527	551	557	503	641	646	582	500	540	553	555	532	539	570	599	607	494
pH (Lab)	SU	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	7.47	7.55	7.49	7.66	7.60
Total Dissolved Solids (Lab)	mg/L	660	655	685	655	605	645	680	695	770	775	855	745	660	670	680	690	660	725	740	745	715	820
Calcium	mg/L	97.9	81.2	76.8	80.1	76.0	79.1	84.6	84.1	76.4	101.0	98.9	88.3	73.4	80.4	84.3	82.6	78.6	78.0	82.7	89.5	89.3	74.0
Magnesium	mg/L	92.2	79.2	75.6	77.9	75.3	80.0	82.5	84.3	75.8	94.7	97.0	87.8	76.8	82.3	83.2	84.7	81.4	83.7	88.2	91.1	93.3	75.2
Sodium	mg/L	26.9	23.4	23.1	23.3	23.3	24.9	26.1	62.7	24.6	30.7	33.8	29.3	27.0	28.6	30.1	30.7	29.1	30.1	31.5	33.7	34.3	29.6
Potassium	mg/L	<5.00	1.94	<5.00	2.12	2.01	1.99	2.28	2.42	<2.00	2.51	2.80	2.26	2.02	2.07	2.30	2.39	2.27	2.51	2.38	2.85	2.79	2.30
Alkalinity, Total	mg/L	385	375	380	540	372	385	288	358	379	395	379	390	372	385	400	420	415	390	340	435	415	384
Alkalinity, Bicarbonate	mg/L	385	375	380	540	372	385	288	358	379	395	379	390	372	385	400	420	415	390	340	435	415	384
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
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
Chloride	mg/L	46.00	45.90	37.00	44.30	41.10	38.10	41.90	53.10	49.20	54.40	52.00	46.90	43.00	44.10	43.40	41.30	46.10	50.70	52.00	53.30	53.20	57.70
Fluoride	mg/L	0.216	0.236	<0.500	0.210	0.251	0.217	0.229	0.268	0.262	0.210	0.220	<0.200	<0.200	0.236	0.234	0.244	0.268	0.222	0.217	0.231	0.219	0.184
Sulfate as SO4	mg/L	190.0	199.0	186.0	176.0	187.0	160.0	190.0	235.0	224.0	258.0	239.0	214.0	195.0	199.0	196.0	185.0	193.0	208.0	213.0	217.0	222.0	248.0
Total Organic Carbon (TOC)	mg/L	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	1.52	1.54	1.58	1.52	1.67
Nitrate/Nitrite as N	mg/L	<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	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<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	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	<0.050
Arsenic	mg/L	<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	<0.0020	<0.0020	0.0010	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005
Copper	mg/L	<0.0025	0.0006	0.0005	<0.0025	<0.0005	0.0006	0.0006	0.0032	0.0050	0.0017	0.0215	0.0023	0.0025	<0.0020	0.0096	0.0044	0.0018	0.0053	0.0067	0.0073	0.0022	<0.0040
Iron	mg/L	<0.250	<0.050	<0.250	0.076	<0.050	0.069	0.054	0.134	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	<0.050
Lead	mg/L	<0.0025	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	0.0008	<0.0005	<0.0005	<0.0010	<0.0010	0.0008	<0.0005	<0.0005
Manganese	mg/L	0.4220	0.4010	0.3890	0.4380	0.4030	0.3840	0.3970	0.4770	0.4310	0.2930	0.4160	0.4640	0.3990	0.4400	0.3730	0.3650	0.3310	0.3990	0.4210	0.3740	0.3790	0.3600
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L					<5	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	0.0026	0.0026	0.0028	0.0027	0.0029	0.0029	0.0032	0.0033	0.0030	0.0027	0.0032	0.0032	0.0032	0.0032	0.0029	0.0031	0.0031	0.0031	0.0030	0.0030	0.0031	0.0030
Selenium	mg/L	0.0069	0.0012	0.0012	<0.010	0.0013	<0.001	0.0013	<0.002	<0.002	<0.002	<0.0020	<0.0020	0.0013	0.0082	0.0019	0.0011	0.0010	<0.0020	0.0020	0.0061	0.0015	0.0014
Silica (SiO2)	mg/L	11.20	10.90	11.30	12.20	11.10	11.30	12.30	11.70	9.61	11.40	12.50	12.20	10.40	11.00	11.70	11.80	11.20	11.00	11.70	11.20	11.00	11.40
Silicon	mg/L	5.24	5.09	5.30	5.72	5.17	5.29	5.76	5.46	4.49	5.35	5.85	5.70	4.84	5.12	5.47	5.52	5.22	5.12	5.45	5.24	5.14	5.34
Uranium	mg/L	<0.0025	0.0015	0.0015	<0.0025	0.0017	0.0016	0.0015	0.0017	0.0017	0.0022	0.0020	0.0019	0.0017	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0018	0.0019	0.0020
Zinc	mg/L	<0.0100	<0.0020	<0.0020	<0.0100	<0.0020	<0.0020	<0.0020	<0.0040	<0.0040	<0.0040	0.0198	<0.0040	<0.0020	<0.0040	0.0113	0.0119	0.0021	0.0133	0.0146	0.0138	<0.0020	<0.0020

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

- \* sample out of holding time
  - 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	Quarter	2021				2022				2023				2024				2025				2026	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month	Sample Date	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	5/27	8/18	11/6	2/5	5/21
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	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	7.4	7.8	0.1	8.4	7.7
Total Purged	gal	302	324	300	400	300	300	400	350	270	280	304	264	270	265	263	262	265	266	260	261	265	267
Depth to Water	ft bgs	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	5.91	7.10	6.90	6.05	5.50
Temperature	deg C	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	12.2	14.2	11.9	18.1	12.4
pH	SU	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	7.42	7.48	7.54	7.51	7.50
Specific Conductance	µS/cm	1142	1235	1212	1301	1235	1301	1235	1282	1313	1375	1201	1287	1312	1238	1265	1225	1361	1275	1237	1286	3	1297
Oxygen Reduction Potential	mV	-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	-203.6	-227.8	-163.3	11.1	-100.8
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	298	313	236	286	271	311	281	317	334	561	301	303	330	304	321	301	316	350	288	324	474	338
pH (Lab)	SU	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	7.42	7.58	7.45	7.63	7.71
Total Dissolved Solids (Lab)	mg/L	755	785	750	745	725	790	735	745	765	835	740	755	745	750	730	730	640	770	730	765	775	815
Calcium	mg/L	58.1	60.9	45.4	54.8	53.3	60.3	52.1	60.2	64.2	107.0	58.1	58.1	61.3	58.9	61.4	57.6	59.3	64.2	53.6	59.2	89.5	64.1
Magnesium	mg/L	37.2	39.1	29.8	36.1	33.5	39.0	36.6	40.5	42.2	71.2	37.7	38.4	43.0	38.1	40.7	38.3	40.7	46.0	37.4	42.9	60.8	43.2
Sodium	mg/L	204.0	172.0	177.0	182.0	185.0	172.0	179.0	166.0	168.0	106.0	192.0	174.0	158.0	173.0	177.0	182.0	164.0	160.0	175.0	180.0	150.0	145.0
Potassium	mg/L	<5.00	3.00	<5.00	<5.00	2.93	3.09	2.94	<5.00	<5.00	3.04	<5.00	2.89	2.80	3.00	3.03	2.97	2.99	<5.00	3.01	3.39	3.43	3.01
Alkalinity, Total	mg/L	570	620	600	770	640	650	570	615	640	590	602	610	590	625	630	635	635	640	590	655	640	625
Alkalinity, Bicarbonate	mg/L	570	620	600	770	640	590	570	615	640	590	602	610	590	625	630	635	635	640	590	655	600	625
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	60.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	40.0	<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
Chloride	mg/L	4.27	4.91	4.89	4.93	4.46	4.50	4.75	4.78	4.77	6.43	4.76	4.83	5.05	5.38	4.84	4.71	4.87	4.86	4.63	5.01	5.00	4.92
Fluoride	mg/L	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	0.342	0.322	0.338	0.333	0.294
Sulfate as SO4	mg/L	102.0	110.0	98.5	122.0	96.4	114.0	103.0	114.0	122.0	174.0	90.8	102.0	117.0	108.0	112.0	101.0	120.0	130.0	100.0	115.0	158.0	140.0
Total Organic Carbon (TOC)	mg/L	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	3.35	3.16	3.33	3.78	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	<0.040	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<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	<0.250	<0.050	<0.100	<0.050	<0.050
Arsenic	mg/L	<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	<0.0020	<0.0020	0.0013	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005
Copper	mg/L	<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	0.0058	0.0077	0.0062	0.0061	0.0071
Iron	mg/L	1.660	1.690	1.190	1.430	1.250	1.650	1.320	2.070	1.700	4.630	1.560	1.810	2.030	1.650	2.010	1.690	1.880	0.454	1.790	1.880	2.940	2.170
Lead	mg/L	<0.0025	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0005	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0050	<0.0010	<0.0025	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005
Manganese	mg/L	0.4140	0.3880	0.3080	0.3870	0.3250	0.4100	0.3490	0.5010	0.4710	0.9220	0.1620	0.4220	0.5170	0.4510	0.4020	0.4180	0.4660	0.5220	0.4390	0.3940	0.5970	0.4700
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0025	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	0.0005	<0.0025	<0.0025	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010	<0.0010	0.0006	0.0009	0.0006
Selenium	mg/L	0.0902	0.0324	0.0331	0.0439	0.0021	0.0089	0.0131	<0.005	0.0406	<0.002	0.0022	0.0113	0.0075	0.0640	0.0055	<0.0020	<0.0050	0.0160	0.0129	0.0321	0.0127	0.0086
Silica (SiO2)	mg/L	13.00	13.90	12.50	13.20	14.20	13.30	13.40	12.90	13.20	14.40	14.00	13.90	12.90	13.30	13.60	13.60	13.10	2.58	13.40	12.50	13.20	12.90
Silicon	mg/L	6.10	6.50	5.84	6.17	6.62	6.21	6.28	6.01	6.17	6.74	6.55	6.51	6.05	6.22	6.34	6.37	6.14	1.20	6.26	5.82	6.15	6.03
Uranium	mg/L	<0.0025	<0.0005	<0.0005	<0.0025	<0.0005	<0.0005	<0.0005	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0050	<0.0010	<0.0025	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005
Zinc	mg/L	<0.0100	<0.0020	<0.0020	<0.0100	<0.0020	<0.0020	<0.0020	<0.0100	<0.0100	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0020	0.0144	<0.0100	0.0086	<0.0040	0.0119	<0.0020	<0.0020

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

- |  |   |
|--|---|
| <p>* sample out of holding time</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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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## GCC Energy Hydrologic Monitoring Data

Wiltse Well																							
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/30	8/19	11/7	2/9	5/21
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
Field Parameters:																							
Purge Flow Rate	gpm	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	23.6	18.1	11.6	14.9	23.7
Total Purged	gal	2920	3000	1800	2800	2900	2950	3000	3000	4000	4000	3100	2612	3753	3100	3199	3861	3678	3467	3044	3354	3489	3917
Depth to Water	ft bgs	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	1.70	3.20	2.10	1.62	0.10
Temperature	deg C	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	10.3	11.1	9.8	7.6	10.0
pH	SU	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	7.08	7.30	7.23	6.87	7.12
Specific Conductance	µS/cm	1739	1789	2012	2038	1965	2039	2285	2268	2518	2449	2332	2571	2651	2336	2542	2368	2490	2140	2047	2263	2235	2181
Oxygen Reduction Potential	mV	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	64.1	-142.2	218.7	247.3	271.2
Lab Analytical Results:																							
Hardness as CaCO3	mg/L	1090	1070	1080	1080	1070	1070	1300	1200	1330	1340	1380	1320	1340	1320	1350	1280	1210	1190	1070	1320	1190	1110
pH (Lab)	SU	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	7.10	7.15	7.11	7.12	7.07	7.32	7.15	7.54	7.37
Total Dissolved Solids (Lab)	mg/L	1550	1500	1580	1640	1520	1580	1850	1740	2120	1980	1920	2050	2080	1900	2070	1880	1900	1700	1590	1810	1820	1800
Calcium	mg/L	208.0	199.0	206.0	209.0	208.0	206.0	255.0	232.0	261.0	269.0	273.0	251.0	255.0	259.0	265.0	252.0	229.0	230.0	212.0	258.0	228.0	220.0
Magnesium	mg/L	138.0	140.0	136.0	136.0	133.0	135.0	160.0	151.0	164.0	162.0	170.0	168.0	170.0	163.0	167.0	157.0	155.0	149.0	130.0	164.0	150.0	137.0
Sodium	mg/L	65.1	61.1	61.6	63.6	61.0	60.1	77.8	71.6	99.0	94.2	82.4	78.9	87.4	66.5	73.9	72.9	63.1	61.4	55.4	70.9	66.0	62.2
Potassium	mg/L	<5.00	4.35	<5.00	4.41	4.42	4.41	4.92	4.20	5.43	5.12	5.74	5.31	4.52	4.98	5.29	4.85	<5.00	4.84	4.37	<5.00	4.95	4.81
Alkalinity, Total	mg/L	480	480	480	520	505	485	530	468	485	435	460	465	480	495	530	525	457	480	435	535	475	495
Alkalinity, Bicarbonate	mg/L	480	480	480	520	505	485	530	468	485	435	460	465	480	495	530	525	457	480	435	535	475	495
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
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
Chloride	mg/L	54.80	52.30	49.00	52.40	49.80	45.70	57.50	52.20	79.00	73.00	59.00	62.20	70.50	57.20	59.10	48.60	48.30	44.90	44.10	47.40	43.30	45.90
Fluoride	mg/L	0.276	0.280	<0.500	0.280	0.286	0.240	0.288	0.288	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.356	0.338	<0.500	0.276	0.302	0.251	0.258
Sulfate as SO4	mg/L	683.0	661.0	679.0	697.0	688.0	702.0	818.0	873.0	1070.0	1060.0	960.0	1020.0	1140.0	947.0	1040.0	930.0	1050.0	868.0	732.0	861.0	956.0	794.0
Total Organic Carbon (TOC)	mg/L	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	3.77	3.57	3.51	3.27	4.29
Nitrate/Nitrite as N	mg/L	1.820	1.490	2.060	1.870	1.690	1.530	1.160	1.010	0.469	0.619	2.320	2.850	2.090	0.469	1.530	1.100	1.470	1.090	1.320	1.050	0.846	0.227
Aluminum	mg/L	<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	<0.100	<0.100	<0.250	<0.050	<0.100
Arsenic	mg/L	<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	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
Cadmium	mg/L	<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	<0.0010	<0.0005	<0.0010	<0.0005	<0.0010
Copper	mg/L	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	<0.0040	0.0028	0.0029	0.0046	0.0037
Iron	mg/L	<0.250	0.304	<0.250	0.154	0.129	0.212	0.161	0.178	0.255	0.252	<0.250	<0.250	<0.150	0.194	0.220	<0.250	<0.250	<0.100	<0.100	<0.250	0.137	0.201
Lead	mg/L	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0005	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	0.0017	0.0013	<0.0025	<0.0010	<0.0005	<0.0010	<0.0005	<0.0010
Manganese	mg/L	1.2100	0.9800	1.4000	1.3400	1.2600	1.3500	0.9740	0.9820	0.5070	0.8420	1.6400	1.3300	0.6350	1.2200	1.1400	0.9630	1.0200	0.2780	1.4600	0.9740	0.6300	0.8710
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0025	<0.0025	<0.0025	0.0017	0.0017	0.0018	0.0019	0.0017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0020	0.0022	0.0021	<0.0025	<0.0010	0.0028	0.0020	0.0016	0.0025
Selenium	mg/L	<0.0050	<0.0050	<0.0050	<0.0020	0.0015	0.0019	0.0020	0.0029	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	0.0019	<0.0020	<0.0050	<0.0020	0.0028	0.0027	0.0016	<0.0020
Silica (SiO2)	mg/L	14.60	14.80	15.40	16.00	15.20	14.50	15.90	14.30	12.70	14.70	15.80	14.70	12.40	14.90	15.20	14.00	12.70	13.10	13.40	13.50	12.50	13.00
Silicon	mg/L	6.82	6.91	7.19	7.50	7.13	6.76	7.43	6.69	5.91	6.85	7.37	6.89	5.80	6.96	7.09	6.56	5.94	6.13	6.27	6.33	5.87	6.07
Uranium	mg/L	<0.0025	<0.0025	<0.0025	0.0025	0.0022	0.0025	0.0034	0.0035	0.0048	0.0036	0.0026	0.0030	0.0043	0.0031	0.0034	0.0039	0.0028	<0.0010	0.0026	0.0034	0.0032	0.0031
Zinc	mg/L	0.0130	0.0116	0.0311	0.0276	0.0162	0.0180	0.0157	0.0157	0.0156	0.0152	0.0255	0.0164	0.0143	0.0173	0.0290	0.0391	0.0232	0.0070	0.0165	0.0125	0.0137	0.0127

### Notes & Definitions:

	Historical data prior to 2021 can be found in earlier posted versions of this table	
Y/N	yes or no	1. "<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
gpm	gallons per minute	
deg C	degrees Celsius	
SU	standard pH units	2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	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-HGA-4																					
		2021				2022				2023				2024				2025				2026	
Year	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month	Sample Date	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	5/30	8/18	11/6	2/5	5/21
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.3	0.1	0.3	0.3	0.3	0.3	0.3	0.5	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0
Total Purged	gal	21	21	20	22	21	21	22	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Depth to Water	ft bgs	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	1.62	4.85	1.72	0.56	0.50
Temperature	deg C	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	11.6	12.6	9.7	10.2	11.4
pH	SU	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	7.24	7.49	7.54	7.26	7.32
Specific Conductance	µS/cm	975	1093	1108	1160	1197	1102	1198	970	1003	955	908	993	970	917	909	955	1005	876	930	1001	917	852
Oxygen Reduction Potential	mV	-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	-140.1	-238.5	-88.7	-81.9	-44.0
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	630	582	515	627	598	574	653	328	423	448	467	424	410	430	438	446	432	460	416	434	449	412
pH (Lab)	SU	7.38	6.89	7.05	7.03	7.22	7.26	7.20	7.63	7.08	7.37	7.33	7.41	7.39	7.38	7.34	7.36	7.31	7.29	7.28	7.42	7.39	7.38
Total Dissolved Solids (Lab)	mg/L	685	680	735	790	790	785	745	400	555	545	525	555	570	525	575	535	505	290	555	570	585	580
Calcium	mg/L	126.0	114.0	98.7	125.0	119.0	110.0	130.0	65.8	78.5	84.9	88.1	79.3	75.3	81.1	81.7	83.6	81.2	84.8	77.4	81.7	82.7	76.1
Magnesium	mg/L	76.8	72.0	65.2	76.6	72.9	72.5	79.9	39.7	55.1	57.2	59.9	54.9	54.0	55.3	56.8	57.7	55.6	60.3	54.2	56.0	58.9	54.0
Sodium	mg/L	28.4	27.4	26.4	23.1	23.9	28.1	27.1	14.9	36.9	39.4	41.5	38.0	37.3	38.1	38.5	40.4	38.6	40.6	39.0	40.5	41.5	36.8
Potassium	mg/L	2.24	2.03	<5.00	<5.00	1.82	2.02	2.13	3.07	2.16	2.40	2.56	2.21	2.14	2.17	2.22	2.24	2.21	2.45	2.30	2.44	<5.00	2.29
Alkalinity, Total	mg/L	475	465	470	580	470	435	500	245	460	420	361	370	390	410	425	410	415	410	355	415	395	405
Alkalinity, Bicarbonate	mg/L	475	465	470	580	470	435	500	245	460	420	361	370	390	410	425	410	415	410	355	415	395	405
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
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
Chloride	mg/L	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	3.39	3.33	3.56	3.42	3.54
Fluoride	mg/L	0.424	0.434	<0.500	0.420	0.472	0.413	0.450	0.231	0.397	0.357	0.374	0.331	0.342	0.403	0.403	0.408	0.469	0.413	0.384	0.408	0.393	0.347
Sulfate as SO4	mg/L	191.0	184.0	194.0	199.0	216.0	183.0	215.0	99.5	150.0	161.0	158.0	143.0	142.0	146.0	145.0	151.0	155.0	152.0	136.0	146.0	142.0	136.0
Total Organic Carbon (TOC)	mg/L	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	3.88	4.08	4.05	4.16	5.08
Nitrate/Nitrite as N	mg/L	<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	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<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	<0.050	<0.050	<0.050	<0.250	<0.050
Arsenic	mg/L	0.0036	0.0033	0.0034	0.0027	0.0036	0.0031	0.0034	0.0005	0.0041	0.0040	0.0040	0.0039	0.0040	0.0027	0.0039	0.0033	0.0031	0.0032	0.0031	0.0035	0.0031	0.0029
Cadmium	mg/L	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	mg/L	0.0006	0.0007	0.0009	<0.0025	<0.0005	0.0010	0.0005	0.0068	<0.0010	0.0027	<0.0010	<0.0040	0.0018	<0.0020	0.0013	0.0023	0.0012	0.0027	0.0036	0.0011	0.0027	0.0016
Iron	mg/L	9.600	9.290	8.520	8.440	8.250	9.410	9.730	<0.05	9.760	10.500	9.390	9.530	9.070	9.600	10.400	9.060	9.530	9.380	9.470	9.650	9.540	8.870
Lead	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Manganese	mg/L	2.5400	2.5100	1.7900	2.8600	3.0300	2.2900	3.0000	0.0622	0.4790	0.4410	0.4220	0.4540	0.4160	0.4370	0.3920	0.3920	0.4120	0.3820	0.4070	0.3970	0.3940	0.4090
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L					<5	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	0.0027	0.0030	0.0033	0.0024	0.0026	0.0030	0.0030	0.0011	0.0054	0.0055	0.0057	0.0055	0.0058	0.0058	0.0054	0.0052	0.0056	0.0050	0.0050	0.0050	0.0052	0.0058
Selenium	mg/L	<0.0010	0.0010	0.0057	0.0017	0.0011	<0.0010	0.0010	0.0011	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	0.0024	<0.0010	<0.0010	<0.0010	0.0020	0.0014	0.0078	<0.0010	<0.0010
Silica (SiO2)	mg/L	16.90	16.30	14.30	17.70	16.70	16.00	17.80	11.70	12.60	14.10	14.00	13.00	12.50	12.70	13.00	12.80	12.60	13.00	12.70	12.00	2.26	12.30
Silicon	mg/L	7.88	7.61	6.68	8.29	7.81	7.50	8.34	5.48	5.89	6.59	6.57	6.06	5.85	5.95	6.10	5.99	5.88	6.09	5.96	5.60	1.06	5.75
Uranium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0010	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Zinc	mg/L	<0.0020	<0.0020	<0.0020	<0.0100	<0.0020	<0.0020	<0.0020	0.0056	<0.0040	<0.0020	<0.0040	<0.0040	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	0.0113	0.0123	<0.0020	<0.0020	<0.0020

**Notes & Definitions:**

Historical data prior to 2021 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           |  |  |
| µS/cm | microsiemens per centimeter |  | 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. |
| 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          |  | 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-A																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/13	8/15	11/4	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1
Total Purged	gal	1	2	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	215.60	215.53	215.71	215.65	215.55	216.15	215.65	215.70	215.60	215.20	215.35	215.30	215.25	215.15	215.55	215.23	215.22	214.70	215.45	215.55	215.55	215.50
Temperature	deg C	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	10.0	13.5	10.7	8.6	10.7
pH	SU	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	7.22	7.35	6.61	6.90	7.15
Specific Conductance	µS/cm	1550	1647	1691	1792	1707	1717	1770	1733	1780	1676	1745	1738	1754	1656	1722	1710	1785	1436	1388	1690	1708	1665
Oxygen Reduction Potential	mV	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	-32.8	94.2	242.1	163.9	182.9
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	168	150	158	157	152	149	146	172	174	158	150	166	160	171	161	154	163	167	159	151	162	161
pH (Lab)	SU	7.22	7.13	7.10	7.05	7.30	7.15	7.36	7.37	7.01	7.20	7.38	7.39	6.95	7.24	7.32	7.27	7.34	7.18	7.35	7.26	7.29	7.81
Total Dissolved Solids (Lab)	mg/L	1250	1150	1190	1150	1140	1140	1150	1050	1150	1180	1200	1110	1120	1110	1100	1060	1100	990	1100	1150	1170	1140
Calcium	mg/L	32.1	28.3	29.9	30.0	28.5	28.0	27.4	32.6	33.2	29.9	27.7	31.2	30.4	33.0	30.6	28.8	30.8	31.5	29.8	28.8	30.0	30.1
Magnesium	mg/L	21.4	19.2	20.3	20.0	19.7	19.2	18.7	21.9	22.0	20.2	19.6	21.3	20.3	21.5	20.6	19.9	20.9	21.4	20.5	19.3	21.2	20.8
Sodium	mg/L	357.0	314.0	333.0	340.0	321.0	319.0	318.0	361.0	351.0	345.0	333.0	324.0	336.0	358.0	327.0	341.0	331.0	333.0	335.0	340.0	389.0	344.0
Potassium	mg/L	<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	<5.00	2.31	2.27	3.12	<5.00
Alkalinity, Total	mg/L	400	400	370	440	405	425	410	361	372	391	368	375	370	385	410	420	425	387	360	435	420	385
Alkalinity, Bicarbonate	mg/L	400	400	370	440	405	425	410	361	372	391	368	375	370	385	410	420	425	387	360	435	420	385
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
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
Chloride	mg/L	2.73	2.34	2.78	<5.00	2.80	2.46	2.59	2.40	2.49	2.71	2.55	2.50	2.57	2.59	<5.00	2.52	<5.00	2.45	2.35	2.70	2.52	2.50
Fluoride	mg/L	0.212	0.223	0.240	<0.5	<0.200	0.250	0.254	0.246	0.262	0.198	0.224	<0.200	0.250	0.248	<0.500	0.290	<0.500	0.227	0.231	0.232	0.230	0.199
Sulfate as SO4	mg/L	553.0	531.0	507.0	458.0	503.0	516.0	532.0	517.0	562.0	607.0	587.0	510.0	557.0	552.0	493.0	477.0	537.0	507.0	465.0	482.0	515.0	606.0
Total Organic Carbon (TOC)	mg/L	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	1.46	1.90	1.67	1.56	1.59
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020	0.722	<0.020	<0.020	<0.020	<0.020	0.033	<0.020	<0.020
Aluminum	mg/L	<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	<0.250	<0.050	<0.050	<0.050	<0.250
Arsenic	mg/L	<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	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005
Copper	mg/L	0.0026	0.0059	0.0068	0.0086	0.0145	0.0112	0.0096	0.0078	0.0121	0.0193	0.0046	0.0079	0.0130	0.0149	0.0142	0.0201	0.0164	0.0154	0.0254	0.0168	0.0143	0.0123
Iron	mg/L	0.572	0.610	0.592	0.647	0.533	0.544	0.451	0.406	<0.250	<0.250	<0.250	0.437	0.155	0.412	<0.050	0.319	<0.250	0.440	0.396	<0.050	0.467	0.512
Lead	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	0.0007	<0.0025	<0.0010	0.0010	<0.0010	<0.0005	<0.0005
Manganese	mg/L	0.0367	0.0316	0.0328	0.0287	0.0289	0.0295	0.0359	0.0260	0.0149	0.0027	0.0128	0.0400	0.0125	0.0306	0.0009	0.0297	0.0219	0.0507	0.0316	<0.0010	0.0327	0.0299
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L					<5	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	0.0005
Selenium	mg/L	<0.0030	<0.0030	<0.0050	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
Silica (SiO2)	mg/L	11.30	10.70	10.70	11.60	11.20	10.80	10.40	11.20	10.60	10.60	9.44	11.30	10.50	10.80	10.80	10.20	10.60	10.70	11.30	9.96	10.60	10.40
Silicon	mg/L	5.27	5.00	5.01	5.42	5.25	5.07	4.85	5.24	4.94	4.95	4.41	5.28	4.89	5.05	5.07	4.79	4.94	5.00	5.27	4.66	4.94	4.86
Uranium	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005
Zinc	mg/L	<0.0060	<0.0060	<0.0100	<0.0040	<0.0020	<0.0020	<0.0040	<0.0040	<0.0100	0.0051	<0.0100	<0.0040	0.0043	<0.0040	<0.0020	0.0179	0.0143	0.0161	0.0204	0.0131	<0.0020	<0.0020

**Notes & Definitions:**

*Historical data prior to 2021 can be found in earlier posted versions of this table*

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|--|--|
| <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"> <li>"&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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## GCC Energy Hydrologic Monitoring Data

		MW-1-MI																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/13	8/15	11/4	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C																						
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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 2021 can be found in earlier posted versions of this table*

- |   |                               |   |
|---|-------------------------------|---|
| <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> | <p>1.</p> <p>2.</p> <p>3.</p> | <p>"&lt;" 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.</p> <p>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.</p> <p>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.</p> |
|---|-------------------------------|---|

## GCC Energy Hydrologic Monitoring Data

		MW-1-C																					
Year		2021				2022				2023				2024				2025				2026	
Quarter	Month	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Sample Date	Lab Analysis (Y/N)	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	5/13	8/15	11/4	2/6	5/14
Lab Analysis (Y/N)	Lab Analysis (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2														
Total Purged	gal	1	2	1	1	1	1	1	1														
Depth to Water	ft bgs	216.66	216.66	216.66	216.66	216.66	216.66	216.66	216.04	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Temperature	deg C	7.0	10.7	12.1	10.1	7.7	12.3	12.7	7.4														
pH	SU	7.40	7.18	7.16	7.15	7.12	7.20	7.23	6.67														
Specific Conductance	µS/cm	2410	2249	2290	2554	2223	2362	2278	2104														
Oxygen Reduction Potential	mV	57.5	-16.8	0.0	-7.0	-92.9	-49.3	-191.8	-77.0														
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	1320	953	975	920	750	766	638	640														
pH (Lab)	SU	7.08	6.86	7.04	6.89	7.22	7.06	7.40	6.98														
Total Dissolved Solids (Lab)	mg/L	2330	1910	1850	1840	1680	1770	1640	1490														
Calcium	mg/L	241.0	175.0	178.0	168.0	142.0	137.0	113.0	117.0														
Magnesium	mg/L	173.0	126.0	129.0	122.0	95.7	103.0	86.6	84.4														
Sodium	mg/L	206.0	196.0	214.0	234.0	229.0	240.0	261.0	266.0														
Potassium	mg/L	<5.00	2.68	<5.00	<3.00	2.68	2.48	<5.00	2.27														
Alkalinity, Total	mg/L	580	480	485	640	510	530	570	454														
Alkalinity, Bicarbonate	mg/L	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														
Alkalinity, Hydroxide	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0														
Chloride	mg/L	7.13	5.30	5.04	7.12	4.87	5.55	5.59	4.32														
Fluoride	mg/L	0.804	0.654	0.716	0.755	0.712	1.040	1.240	0.916														
Sulfate as SO4	mg/L	1150.0	940.0	872.0	886.0	805.0	908.0	821.0	728.0														
Total Organic Carbon (TOC)	mg/L	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	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020														
Aluminum	mg/L	<0.250	<0.100	<0.250	<0.150	<0.050	<0.100	<0.250	<0.100														
Arsenic	mg/L	<0.0025	<0.0025	<0.0025	<0.0010	0.0009	0.0024	0.0028	<0.0010														
Cadmium	mg/L	<0.0005	<0.0025	<0.0025	<0.0010	<0.0005	<0.001	<0.0025	<0.0010														
Copper	mg/L	<0.0025	0.0042	0.0043	0.0064	0.0093	0.0086	0.0104	0.0120														
Iron	mg/L	0.769	0.552	0.573	0.724	0.630	0.671	0.679	<0.100														
Lead	mg/L	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010														
Manganese	mg/L	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																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100														
Molybdenum	mg/L	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010														
Selenium	mg/L	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020	<0.005	<0.002														
Silica (SiO2)	mg/L	14.40	15.00	14.50	14.80	14.20	13.00	11.70	13.40														
Silicon	mg/L	6.75	7.00	6.79	6.94	6.66	6.07	5.47	6.26														
Uranium	mg/L	<0.0025	<0.0025	<0.0025	0.0010	0.0008	<0.0010	<0.0025	<0.0010														
Zinc	mg/L	<0.0100	<0.0100	<0.0100	<0.0040	0.0021	<0.0040	<0.0100	0.0071														

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

- |   |   |
|---|---|
| <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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
|---|---|

## GCC Energy Hydrologic Monitoring Data

		MW-2-A																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/12	8/15	11/1	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C																						
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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 2021 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

		MW-2-MI																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/12	8/15	11/1	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C																						
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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:**

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

## GCC Energy Hydrologic Monitoring Data

		MW-2-C																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/12	8/15	11/1	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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 2021 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

MW-3-A																								
Year	2021				2022				2023				2024				2025				2026			
	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2	5		
Sample Date	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	5/14	8/17	11/3	2/3	5/20		
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		
<b>Field Parameters:</b>																								
Purge Flow Rate	gpm	0.1	0.1	0.2	0.1	0.3	0.3	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.1
Total Purged	gal	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Depth to Water	ft bgs	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	294.34	294.97	294.67	294.32	294.27	
Temperature	deg C	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	13.0	14.5	11.6	11.7	12.5	
pH	SU	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	8.56	6.69	8.85	8.53	8.51	
Specific Conductance	µS/cm	1930	1525	2091	2127	2121	2055	2066	2057	2094	2050	1374	903	937	560	748	899	1670	1552	1898	1000	809	1832	
Oxygen Reduction Potential	mV	-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	-151.2	-248.3	-183.7	-69.7	-73.3	
<b>Lab Analytical Results:</b>																								
Hardness as CaCO3	mg/L	11	8	9	9	9	9	9	8	8	9	6	9	8	9	9	8	7	8	7	9	5	7	
pH (Lab)	SU	8.13	8.22	8.21	8.19	8.17	8.28	8.09	8.15	7.63	7.97	8.40	8.37	8.20	8.44	8.50	8.23	8.42	8.48	6.66	6.78	8.44	8.41	
Total Dissolved Solids (Lab)	mg/L	1410	1350	1420	1360	1220	1400	1320	1280	1390	1310	1300	1290	1320	1280	1340	1190	1260	1260	1250	1200	1150	1190	
Calcium	mg/L	3.1	2.5	2.6	2.5	2.4	2.6	2.6	2.2	2.4	2.5	2.4	2.6	2.3	2.5	2.6	2.3	1.9	2.0	2.0	2.6	1.6	1.8	
Magnesium	mg/L	0.7	0.5	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.6	< 0.500	0.7	0.6	0.6	0.7	0.6	0.5	0.7	0.5	0.7	0.4	0.7	
Sodium	mg/L	536.0	471.0	462.0	448.0	462.0	473.0	476.0	420.0	440.0	456.0	450.0	459.0	436.0	458.0	454.0	455.0	454.0	438.0	457.0	456.0	441.0	397.0	
Potassium	mg/L	<5.00	<3.00	<5.00	<2.00	1.34	<2.00	<2.00	<5.00	<5.00	<5.00	<5.00	<3.00	<3.00	<2.00	1.36	1.34	<5.00	<5.00	1.46	<2.00	<2.00	<2.00	
Alkalinity, Total	mg/L	520	530	465	485	495	560	500	400	454	458	447	465	465	510	580	520	525	510	510	575	585	551	
Alkalinity, Bicarbonate	mg/L	520	530	465	435	455	480	500	400	454	458	415	455	465	510	580	520	485	330	510	575	505	517	
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	50.0	40.0	80.0	<10.0	<10.0	<10.0	<10.0	32.0	<10.0	<10.0	<10.0	<10.0	<10.0	40.0	180.0	<10.0	<10.0	80.0	34.0	
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	
Chloride	mg/L	13.50	14.00	14.10	14.60	14.20	14.20	15.90	15.40	16.00	16.10	16.90	16.20	17.30	17.50	18.20	17.60	20.10	20.60	22.90	22.10	26.50	28.90	
Fluoride	mg/L	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	0.390	0.388	0.446	<0.500	0.395	0.413	0.440	0.355	
Sulfate as SO4	mg/L	600.0	601.0	599.0	515.0	584.0	555.0	557.0	565.0	571.0	573.0	560.0	552.0	545.0	545.0	525.0	520.0	512.0	441.0	417.0	486.0	362.0	366.0	
Total Organic Carbon (TOC)	mg/L	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	2.86	3.89	3.40	3.01	3.16	
Nitrate/Nitrite as N	mg/L	<0.020	0.024	<0.020	<0.020	0.022	0.030	<0.020	<0.020	0.117	0.061	<0.020	<0.020	<0.020	<0.020	0.060	<0.020	<0.020	<0.020	<0.020	<0.020	0.089	<0.020	
Aluminum	mg/L	<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	<0.250	<0.050	<0.100	<0.100	<0.100	
Arsenic	mg/L	0.0026	0.0006	0.0010	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	0.0010	<0.0020	<0.0020	<0.0020	0.0013	0.0011	
Cadmium	mg/L	<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	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Copper	mg/L	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	0.0180	0.0255	0.0203	0.0176	0.0135	0.0208	0.0152	0.0165	0.0183	
Iron	mg/L	<0.250	<0.150	<0.250	<0.100	<0.050	<0.100	<0.100	<0.250	<0.250	<0.250	<0.150	<0.150	<0.150	<0.100	<0.050	<0.050	<0.250	<0.250	<0.050	0.114	<0.100	<0.100	
Lead	mg/L	<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	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Manganese	mg/L	0.0128	0.0121	0.0096	0.0101	0.0113	0.0100	0.0097	0.0108	0.0119	0.0096	0.0098	0.0091	<0.0010	0.0091	0.0076	0.0069	0.0071	0.0069	0.0088	0.0157	0.0060	0.0050	
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																		
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Molybdenum	mg/L	<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	<0.0010	0.0010	0.0013	0.0005	0.0008	
Selenium	mg/L	0.1290	0.0276	0.0167	0.0855	0.0162	0.0029	0.0106	<0.0020	0.0236	0.0174	<0.0050	0.0094	0.0063	0.0427	<0.0010	<0.0010	0.0194	0.0350	0.0042	0.0219	0.0298	0.0209	
Silica (SiO2)	mg/L	11.30	10.10	10.70	10.90	10.80	10.70	11.10	9.39	9.32	9.89	9.16	10.90	9.34	10.10	10.10	10.30	10.20	10.40	10.40	9.99	9.58	9.86	
Silicon	mg/L	5.28	4.73	4.98	5.11	5.07	5.01	5.19	4.39	4.36	4.63	4.28	5.09	4.36	4.73	4.72	4.83	4.78	4.87	4.84	4.67	4.48	4.61	
Uranium	mg/L	<0.0025	<0.0010	<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	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Zinc	mg/L	<0.0100	<0.0020	<0.0040	<0.0040	<0.0020	<0.0040	<0.0040	0.0041	<0.0100	<0.0100	<0.0100	<0.0100	<0.0040	<0.0040	0.0028	0.0042	0.0032	0.0092	0.0096	0.0054	<0.0020	<0.0020	

**Notes & Definitions:**

*Historical data prior to 2021 can be found in earlier posted versions of this table*

- |   |  |
|---|--|
| <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"> <li>1. "<b>&lt;</b>" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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## GCC Energy Hydrologic Monitoring Data

MW-3-MI																							
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/14	8/17	11/3	2/3	5/20
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.1	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Total Purged	gal	1	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Depth to Water	ft bgs	243.93	244.25	244.28	244.15	242.90	244.05	244.65	244.30	243.83	249.55	242.86	242.65	242.35	242.40	242.35	242.90	242.27	242.27	242.45	252.65	242.50	242.50
Temperature	deg C	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	11.7	16.1	12.3	11.8	12.6
pH	SU	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	8.90	7.01	7.50	7.80	7.80
Specific Conductance	µS/cm	1519	1232	1647	1765	1705	1686	1720	1739	1609	1737	1702	1784	1788	1704	1753	1764	1860	1738	1725	1704	1748	1827
Oxygen Reduction Potential	mV	-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	-94.5	-236.2	22.9	-60.0	-50.1
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	7	5	5	5	5	5	<3.31	<3.31	<3.31	<3.31	5	4	5	6	5	5	5	5	16	20	15	
pH (Lab)	SU	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	8.78	8.69	6.94	7.50	7.97
Total Dissolved Solids (Lab)	mg/L	1120	1110	1180	1130	1070	1140	1080	1070	1140	1100	1070	1050	1120	1060	1120	1100	1060	1110	1070	1100	1150	1140
Calcium	mg/L	1.7	1.3	1.3	1.3	1.3	1.3	1.1	1.2	1.2	1.1	1.1	1.3	1.1	1.3	1.4	1.2	1.3	1.2	1.2	4.8	6.3	4.8
Magnesium	mg/L	0.6	0.5	0.5	0.5	0.5	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	0.4	0.3	0.5	0.5	0.5	0.4	0.5	0.4	1.0	1.0	0.7
Sodium	mg/L	468.0	410.0	403.0	390.0	413.0	415.0	374.0	389.0	397.0	408.0	398.0	405.0	388.0	413.0	411.0	413.0	436.0	408.0	431.0	468.0	482.0	364.0
Potassium	mg/L	<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	<5.00	1.35	<2.00	1.63	1.22
Alkalinity, Total	mg/L	690	690	705	705	740	740	780	760	680	700	660	630	670	730	700	685	720	650	670	695	740	700
Alkalinity, Bicarbonate	mg/L	450	550	555	565	580	580	480	540	620	572	590	510	590	630	670	555	600	450	670	695	740	690
Alkalinity, Carbonate	mg/L	240.0	140.0	150.0	140.0	160.0	160.0	300.0	220.0	60.0	128.0	70.0	120.0	80.0	100.0	30.0	130.0	120.0	200.0	<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
Chloride	mg/L	9.84	10.50	10.40	10.40	10.60	10.20	11.20	10.70	10.90	10.80	10.80	10.70	10.70	10.60	10.30	9.63	10.20	10.30	9.92	9.29	9.34	9.88
Fluoride	mg/L	1.030	1.090	1.070	0.980	1.100	0.982	1.110	1.080	1.100	1.020	0.862	0.924	0.940	1.120	1.090	1.110	1.180	1.040	1.000	0.912	0.950	0.847
Sulfate as SO4	mg/L	223.0	227.0	228.0	230.0	233.0	213.0	240.0	238.0	240.0	243.0	242.0	241.0	245.0	255.0	247.0	239.0	256.0	239.0	236.0	241.0	255.0	248.0
Total Organic Carbon (TOC)	mg/L	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	3.86	4.82	3.97	3.75	4.08
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	2.420	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.038	<0.020	<0.020	<0.020
Aluminum	mg/L	<0.250	<0.100	<0.100	<0.100	<0.050	<0.100	<0.250	<0.250	<0.250	<0.250	<0.250	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.250	<0.050	<0.100	<0.050	<0.050
Arsenic	mg/L	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	0.0040	0.0041	0.0044	0.0036	0.0035	0.0021	0.0022	<0.0050
Cadmium	mg/L	<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	<0.0010	<0.0010	<0.0010	<0.0005	<0.0025
Copper	mg/L	0.0031	0.0131	0.0143	0.0097	0.0072	0.0126	0.0170	0.0089	0.0143	0.0187	0.0080	0.0081	0.0136	0.0167	0.0243	0.0197	0.0181	0.0135	0.0199	0.0153	0.0160	0.0291
Iron	mg/L	<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	<0.100	<0.050	<0.050	<0.050	<0.250	<0.050	1.520	0.795	0.135
Lead	mg/L	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0020	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0025
Manganese	mg/L	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	0.0062	0.0062	0.0346	0.0376	0.0335
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L					<5	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	0.0162	0.0160	0.0149	0.0140	0.0148	0.0143	0.0150	0.0150	0.0136	0.0143	0.0125	0.0139	0.0130	0.0135	0.0126	0.0117	0.0117	0.0109	0.0114	0.0073	0.0081	0.0073
Selenium	mg/L	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	0.0111	0.0025	0.0078	0.0030	0.0054
Silica (SiO2)	mg/L	9.64	8.11	8.77	8.82	9.04	8.63	7.45	7.80	7.62	7.81	7.47	9.17	7.98	8.30	8.86	9.24	9.59	9.21	9.35	9.61	9.89	9.44
Silicon	mg/L	4.51	3.79	4.10	4.12	4.22	4.03	3.48	3.65	3.56	3.65	3.49	4.29	3.73	3.88	4.14	4.32	4.48	4.30	4.37	4.49	4.62	4.42
Uranium	mg/L	0.0049	0.0043	0.0041	0.0033	0.0035	0.0032	0.0034	0.0032	0.0025	<0.0025	<0.0025	0.0026	0.0021	0.0030	0.0022	0.0020	0.0023	0.0018	0.0019	<0.0010	0.0012	<0.0025
Zinc	mg/L	<0.0100	<0.0020	<0.0040	<0.0040	<0.0020	<0.0040	<0.0040	<0.0040	<0.0100	<0.0100	<0.0100	<0.0040	<0.0040	0.0078	<0.0020	0.0023	0.0106	0.0106	0.0086	0.0146	<0.0020	<0.0100

### Notes & Definitions:

Historical data prior to 2021 can be found in earlier posted versions of this table

- |  |   |
|--|---|
| <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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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## GCC Energy Hydrologic Monitoring Data

MW-3-C																							
	Year Quarter Month Sample Date Lab Analysis (Y/N)	2021				2022				2023				2024				2025				2026	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
		2	5	8	11	2	5	9	12	3	6	8	11	2	6	8	11	2	5	8	11	2	5
		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	5/14	8/17	11/3	2/3	5/20
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Total Purged	gal	1	2	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Depth to Water	ft bgs	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	292.93	293.20	292.45	292.80	292.65
Temperature	deg C	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	12.4	14.8	11.6	12.6	11.3
pH	SU	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	8.23	8.46	7.61	8.21	8.30
Specific Conductance	µS/cm	4426	3755	4571	5244	4564	4694	5306	2397	5300	5353	5283	5584	2560	5377	5484	5498	5799	5361	5232	5447	5362	5537
Oxygen Reduction Potential	mV	-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	-211.1	-178.1	-82.8	-143.1	-150.8
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	19	15	17	17	16	17	20	16	17	14	16	18	16	19	19	19	18	20	18	20	19	18
pH (Lab)	SU	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	8.20	8.26	8.23	8.30	8.21	8.25	8.48	8.15	8.43
Total Dissolved Solids (Lab)	mg/L	3200	3230	3300	3200	3270	3250	3280	3140	3150	2310	3220	3300	3360	3270	3390	3340	3350	3350	3400	3380	3400	3430
Calcium	mg/L	4.3	3.6	3.8	3.8	3.7	4.1	4.5	3.7	3.9	3.3	3.6	4.0	3.7	4.3	4.3	4.4	4.1	4.5	4.0	4.4	4.1	4.1
Magnesium	mg/L	1.9	1.4	1.8	1.8	1.7	1.7	2.2	1.8	1.8	1.3	1.7	1.9	1.7	2.0	2.0	2.0	1.9	2.1	1.9	2.1	2.1	2.0
Sodium	mg/L	1360.0	1220.0	1220.0	1170.0	1200.0	1260.0	1360.0	1170.0	1260.0	906.0	1240.0	1270.0	1240.0	1300.0	1320.0	1310.0	1360.0	1340.0	1340.0	1420.0	1390.0	1390.0
Potassium	mg/L	<10.0	<6.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<10.0	<10.0	<6.00	<10.0	3.97	4.42	<5.00	<5.00	4.26	<5.00	<5.00	<5.00
Alkalinity, Total	mg/L	2170	2130	2140	2230	2180	2170	2110	2120	2220	1410	2140	2140	2180	2280	2160	2190	2170	2130	2060	2070	2150	2170
Alkalinity, Bicarbonate	mg/L	1710	1910	1950	1950	1820	1870	1990	2120	1920	1410	2070	2060	2060	2040	2000	1930	1970	1770	1880	1950	1960	1930
Alkalinity, Carbonate	mg/L	460.0	220.0	190.0	280.0	360.0	300.0	120.0	<10.0	300.0	<10.0	70.0	80.0	120.0	240.0	160.0	260.0	200.0	360.0	180.0	120.0	190.0	240.0
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
Chloride	mg/L	574.00	577.00	582.00	462.00	608.00	605.00	613.00	604.00	622.00	360.00	639.00	644.00	646.00	649.00	634.00	628.00	664.00	593.00	661.00	658.00	632.00	644.00
Fluoride	mg/L	3.370	3.340	3.360	3.160	3.370	3.060	3.510	3.250	3.380	1.960	2.590	2.910	3.140	3.590	3.390	3.570	3.930	3.160	3.230	3.020	3.440	3.500
Sulfate as SO4	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	252.0	<10.0	<10.0	<5.00	2.4	<10.0	<5.00	<5.00	<10.0	<5.00	<5.00	<5.00	<5.00
Total Organic Carbon (TOC)	mg/L	15.70	16.30	15.70	16.40	17.90	16.20	16.10	10.40	19.20	5.72	18.90	19.20	20.50	19.90	19.90	21.40	19.60	15.10	20.00	20.90	21.10	19.00
Nitrate/Nitrite as N	mg/L	<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	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<0.500	<0.300	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.500	<0.250	<0.500	<0.500	<0.300	<0.500	<0.050	<0.050	<0.250	<0.250	<0.150	<0.250	<0.250	<0.250
Arsenic	mg/L	0.0113	0.0163	0.0195	0.0170	0.0157	0.0130	0.0151	0.0146	0.0194	0.0206	0.0149	0.0170	0.0171	0.0211	0.0204	0.0205	0.0193	0.0210	0.0223	0.0181	0.0246	0.0251
Cadmium	mg/L	<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	<0.0025	<0.0050	<0.0025	0.0006	0.0008
Copper	mg/L	0.0102	0.0499	0.0434	0.0323	0.0287	0.0347	0.0555	0.0268	0.0220	0.0571	0.0185	0.0293	0.0460	0.0522	0.0742	0.0784	0.0534	0.0540	0.0747	0.0492	0.0522	0.0537
Iron	mg/L	<0.500	<0.300	0.464	0.310	0.260	0.305	0.427	<0.250	<0.500	<0.25	<0.500	<0.500	<0.300	<0.500	0.293	0.238	<0.250	0.333	0.301	0.513	0.390	0.334
Lead	mg/L	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.005	<0.0035	<0.0050	<0.0050	<0.0050	<0.0050	0.0016	<0.0015	<0.0025	<0.0025	<0.0050	<0.0025	<0.0005	<0.0005
Manganese	mg/L	0.0052	0.0046	0.0034	0.0032	0.0028	0.0040	0.0025	0.0034	0.0054	0.0065	<0.0050	<0.0050	<0.0025	<0.0050	0.0023	0.0027	<0.0025	<0.0025	<0.0050	0.0072	0.0027	0.0023
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L					<5	<500	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	0.0080	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	0.0037	<0.0050	0.0073	0.0045	0.0052
Selenium	mg/L	0.0270	0.0411	0.0372	0.0319	0.0335	0.0185	0.0247	0.0199	0.0259	0.0396	0.0242	0.0282	0.0241	0.0580	0.0355	0.0305	0.0368	0.0475	0.0459	0.0407	0.0439	0.0415
Silica (SiO2)	mg/L	<10.7	7.48	8.40	8.33	7.79	7.59	8.75	7.04	<10.7	8.03	<10.7	<10.7	7.28	<10.7	7.65	8.69	8.55	8.57	7.89	7.77	8.19	8.39
Silicon	mg/L	<5.00	3.50	3.93	3.89	3.64	3.55	4.09	3.29	<5.00	3.75	<5.00	<5.00	3.41	<5.00	3.58	4.06	4.00	4.01	3.69	3.63	3.83	3.92
Uranium	mg/L	<0.0050	0.0025	0.0025	<0.0025	<0.0025	<0.0025	0.0025	0.0025	0.0051	0.0044	<0.0050	<0.0050	<0.0025	<0.0050	0.0029	0.0025	<0.0025	<0.0025	<0.0050	<0.0025	0.0024	0.0023
Zinc	mg/L	0.0294	0.0363	0.0347	0.0377	0.0404	0.0181	0.0385	0.0228	<0.0200	0.0229	<0.0200	<0.0200	<0.0100	<0.0200	0.0161	0.0258	<0.0100	0.0256	0.0215	0.0173	0.0140	0.0028

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

<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>	<p>1. "<b>&lt;</b>" 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.</p> <p>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.</p> <p>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.</p>
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## GCC Energy Hydrologic Monitoring Data

MW-4-A																							
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/14	8/17	11/3	2/2	5/15
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.7	0.1	0.1	0.1	0.1	0.1	0.1
Total Purged	gal	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Depth to Water	ft bgs	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	337.86	337.87	337.73	337.41	337.56
Temperature	deg C	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	12.2	17.0	15.0	11.8	15.0
pH	SU	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	8.06	8.11	7.84	8.15	8.18
Specific Conductance	µS/cm	2052	1618	2205	2268	2294	2244	2236	2236	2090	2246	2171	2298	2291	2212	2249	2261	2394	2220	2269	2168	2241	2215
Oxygen Reduction Potential	mV	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	-16.9	-156.9	265.7	211.7	257.6
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	9	7	6	8	8	8	8	7	8	8	7	7	8	9	8	8	7	8	7	8	7	8
pH (Lab)	SU	8.04	8.15	8.09	8.21	8.24	8.24	8.50	8.29	8.10	8.12	8.23	8.30	8.07	8.21	7.62	7.92	8.03	8.05	8.02	7.99	8.17	8.20
Total Dissolved Solids (Lab)	mg/L	1370	1430	1510	1470	1400	1540	1480	1430	1390	1480	1480	1400	1350	1430	1500	1470	1420	1470	1230	1470	1420	1480
Calcium	mg/L	2.0	1.7	1.4	1.8	1.9	1.9	2.0	1.7	1.7	1.8	1.6	1.8	1.8	2.1	2.0	1.9	1.6	1.6	1.5	1.7	1.5	1.7
Magnesium	mg/L	0.9	0.7	0.6	0.8	0.9	0.8	0.9	0.8	0.8	0.8	0.6	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.9
Sodium	mg/L	565.0	507.0	411.0	488.0	504.0	523.0	520.0	482.0	559.0	535.0	503.0	509.0	538.0	520.0	564.0	513.0	525.0	508.0	513.0	563.0	537.0	511.0
Potassium	mg/L	<5.00	<3.00	<5.00	<2.00	<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	<5.00	<2.00	<2.00	<2.00	<2.00
Alkalinity, Total	mg/L	620	590	580	670	535	605	590	480	569	579	562	515	555	585	615	590	590	555	530	590	505	560
Alkalinity, Bicarbonate	mg/L	620	530	580	670	485	455	590	480	531	579	524	515	545	585	615	590	590	465	530	590	495	560
Alkalinity, Carbonate	mg/L	<10.0	60.0	<10.0	<10.0	50.0	150.0	<10.0	<10.0	38.0	<10.0	38.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	90.0	<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
Chloride	mg/L	8.79	9.15	9.17	9.04	9.04	8.97	9.89	9.61	9.72	10.30	10.60	10.30	11.30	<25.0	10.10	10.10	10.00	10.10	9.57	9.97	9.69	9.67
Fluoride	mg/L	<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	<0.500	<0.200	<0.200	<0.200	<0.200
Sulfate as SO4	mg/L	561.0	577.0	593.0	551.0	581.0	525.0	580.0	590.0	602.0	594.0	571.0	583.0	586.0	576.0	586.0	570.0	592.0	552.0	535.0	543.0	545.0	553.0
Total Organic Carbon (TOC)	mg/L	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	3.13	3.51	3.21	3.34	3.32
Nitrate/Nitrite as N	mg/L	<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	0.025	<0.020	<0.020	<0.020	<0.020	0.050	0.423	<0.020	<0.020
Aluminum	mg/L	<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	<0.250	<0.100	<0.100	<0.100	<0.100
Arsenic	mg/L	<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	<0.0020	<0.0050	<0.0020	<0.0020	<0.0010
Cadmium	mg/L	<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	<0.0010	<0.0025	<0.0010	<0.0010	<0.0005
Copper	mg/L	0.0036	0.0135	0.0161	0.0126	0.0097	0.0133	0.0215	0.0213	0.0207	0.0201	0.0044	0.0108	0.0185	0.0204	0.0290	0.0303	0.0339	0.0273	0.0367	0.0236	0.0199	0.0191
Iron	mg/L	<0.250	<0.150	<0.250	<0.100	<0.100	<0.100	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.150	<0.100	<0.050	<0.050	<0.250	<0.250	<0.100	<0.100	<0.100	<0.100
Lead	mg/L	<0.0025	<0.0005	<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	<0.0010	<0.0025	0.0015	<0.0025	<0.0010	<0.0010	<0.0005
Manganese	mg/L	0.0029	0.0029	0.0030	0.0030	0.0032	0.0033	0.0035	0.0031	0.0036	0.0030	0.0032	0.0029	0.0029	0.0029	0.0027	0.0046	0.0029	0.0026	0.0030	0.0012	0.0025	0.0033
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002				<0.0002				<0.0002					
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0010	<0.0010	0.0007
Selenium	mg/L	<0.0050	<0.0010	<0.0020	<0.0040	0.0010	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0050	0.0023	<0.0020	<0.0010
Silica (SiO2)	mg/L	10.40	8.98	8.57	10.00	9.75	9.80	10.30	8.80	10.30	9.55	8.45	9.58	9.79	9.45	9.93	9.87	9.94	9.71	9.37	9.32	9.71	9.61
Silicon	mg/L	4.87	4.20	4.01	4.67	4.56	4.58	4.80	4.11	4.82	4.46	3.95	4.48	4.58	4.42	4.64	4.62	4.64	4.54	4.38	4.36	4.54	4.49
Uranium	mg/L	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0005	<0.0010	<0.0025	<0.0010	<0.0025	<0.0010	<0.0010	<0.0005
Zinc	mg/L	<0.0100	0.0021	<0.0040	<0.0040	<0.0020	<0.0040	<0.0040	<0.0040	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0088	0.0058	0.0224	0.0323	0.0262	0.0290	0.0518	0.0097	0.0288

**Notes & Definitions:**

Historical data prior to 2021 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	
µS/cm	microsiemens per centimeter	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.
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	
NM	not measured (field)	
NA	not analyzed (lab)	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.
ng/L	nanogram per liter	

## GCC Energy Hydrologic Monitoring Data

MW-4-MI																								
	Year	2021				2022				2023				2024				2025				2026		
		Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
		Month	2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
		Sample Date	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	5/14	8/17	11/3	2/2	5/15
	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	
<b>Field Parameters:</b>																								
Purge Flow Rate	gpm	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.1	0.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Total Purged	gal	2	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Depth to Water	ft bgs	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	335.00	334.71	334.76	334.40	334.40	334.25	
Temperature	deg C	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	12.4	11.2	11.7	15.0	12.7	11.8	16.1	
pH	SU	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	8.20	8.49	8.56	8.31	8.31	8.34	8.42	
Specific Conductance	µS/cm	1605	1258	1711	1761	1745	1727	1718	1749	1673	1728	1710	1791	1784	1695	1712	1780	1866	1726	1419	1649	1710	1731	
Oxygen Reduction Potential	mV	-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	-157.0	-182.8	-142.8	-308.6	21.8	128.5	122.3	
<b>Lab Analytical Results:</b>																								
Hardness as CaCO3	mg/L	5	4	5	5	4	4	5	<3.31	4	4	<3.31	4	4	5	5	5	<3.31	4	5	7	4		
pH (Lab)	SU	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	8.37	8.49	8.40	8.18	7.94	8.27	8.45	
Total Dissolved Solids (Lab)	mg/L	1130	1100	1130	1090	1100	1140	1070	1060	1030	1030	1060	1050	1000	1030	1120	1070	1030	1110	1060	1070	1070	1110	
Calcium	mg/L	2.0	1.1	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.8	1.0	1.0	1.4	1.3	1.4	1.3	1.2	1.1	1.3	1.6	1.0	
Magnesium	mg/L	<0.500	0.3	0.4	0.4	0.4	0.3	0.4	<0.500	0.3	0.4	<0.500	0.4	0.3	0.4	0.4	0.4	0.4	<0.500	0.4	0.4	0.7	0.4	
Sodium	mg/L	476.0	431.0	427.0	418.0	430.0	443.0	448.0	384.0	468.0	427.0	428.0	424.0	439.0	427.0	440.0	450.0	466.0	443.0	462.0	487.0	490.0	429.0	
Potassium	mg/L	<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	1.33	1.81	<5.00	1.45	<2.00	1.88	<2.00	
Alkalinity, Total	mg/L	990	1020	985	1140	935	1020	1180	920	1040	965	955	985	975	1040	1070	1090	1020	980	960	1030	1020	1010	
Alkalinity, Bicarbonate	mg/L	910	900	865	1020	825	870	1040	720	980	865	907	945	975	995	1020	905	920	840	940	1030	960	935	
Alkalinity, Carbonate	mg/L	80.0	120.0	120.0	120.0	110.0	150.0	140.0	200.0	60.0	100.0	48.0	40.0	<10.0	40.0	50.0	180.0	100.0	140.0	20.0	<10.0	60.0	70.0	
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	
Chloride	mg/L	4.89	4.85	4.91	4.98	4.55	4.36	4.29	<5.00	25.40	3.91	<5.00	3.62	<5.00	3.46	3.36	<5.00	3.25	<5.00	3.14	3.23	3.15	3.28	
Fluoride	mg/L	4.920	5.030	5.200	4.780	5.160	4.730	5.420	5.130	5.420	5.310	4.320	4.830	5.080	5.660	5.570	5.740	5.810	5.180	5.000	4.620	4.840	5.310	
Sulfate as SO4	mg/L	17.1	16.1	16.4	13.7	13.4	12.4	12.7	11.7	21.8	10.1	<5.00	8.2	8.5	9.0	8.9	9.3	9.4	8.4	7.8	6.4	7.0	7.8	
Total Organic Carbon (TOC)	mg/L	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	3.66	3.51	3.14	4.49	3.69	3.75	3.44	
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	
Aluminum	mg/L	<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	<0.100	<0.050	<0.050	<0.050	<0.250	<0.050	<0.100	0.081	<0.050	
Arsenic	mg/L	0.0088	0.0110	0.0099	0.0093	0.0120	0.0092	0.0094	0.0090	0.0100	0.0074	0.0090	0.0101	0.0079	0.0082	0.0078	0.0088	0.0093	0.0059	0.0074	0.0059	0.0079	0.0072	
Cadmium	mg/L	<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	<0.0005	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Copper	mg/L	0.0040	0.0103	0.0134	0.0107	0.0116	0.0107	0.0177	0.0177	0.0196	0.0049	0.0039	0.0086	0.0159	0.0165	0.0258	0.0191	0.0147	0.0146	0.0207	0.0169	0.0161	0.0160	
Iron	mg/L	<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	<0.100	<0.050	<0.050	<0.050	<0.250	<0.050	<0.100	0.143	<0.050	
Lead	mg/L	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.002	<0.0010	<0.001	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	
Manganese	mg/L	0.0094	0.0073	0.0075	0.0077	0.0076	0.0080	0.0078	0.0084	0.0076	0.0077	0.0079	0.0074	0.0080	0.0116	0.0079	0.0103	0.0093	0.0086	0.0116	0.0117	0.0103	0.0078	
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																		
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Molybdenum	mg/L	0.0082	0.0076	0.0068	0.0065	0.0065	0.0062	0.0064	0.0064	0.0060	0.0052	0.0051	0.0050	0.0048	0.0046	0.0045	0.0041	0.0043	0.0043	0.0354	0.0183	0.0067	0.0048	
Selenium	mg/L	0.0143	<0.0010	<0.0020	<0.0040	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	0.0023	<0.0020	<0.0020	0.0153	<0.0010	<0.0010	
Silica (SiO2)	mg/L	9.26	7.82	8.69	8.54	8.49	8.30	8.76	6.89	9.27	8.23	6.72	8.64	8.09	8.08	8.97	9.45	9.81	9.23	8.81	8.56	9.42	9.16	
Silicon	mg/L	4.33	3.66	4.06	3.99	3.97	3.88	4.09	3.22	4.34	3.85	3.14	4.04	3.78	3.78	4.20	4.42	4.59	4.31	4.12	4.00	4.40	4.28	
Uranium	mg/L	0.0137	0.0115	0.0112	0.0097	0.0089	0.0086	0.0084	0.0088	0.0075	0.0063	0.0063	0.0070	0.0079	0.0051	0.0065	0.0052	0.0052	0.0050	0.0045	0.0035	0.0047	0.0046	
Zinc	mg/L	<0.0100	<0.0020	<0.0040	<0.0040	<0.0020	<0.0040	<0.0040	<0.0040	0.0044	<0.0100	<0.0100	<0.0040	<0.0040	<0.0040	<0.0020	0.0036	<0.0020	0.0085	0.0094	0.0117	<0.0020	<0.0020	

### Notes & Definitions:

Historical data prior to 2021 can be found in earlier posted versions of this table

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

## GCC Energy Hydrologic Monitoring Data

MW-4-C																							
	Year Quarter Month Sample Date Lab Analysis (Y/N)	2021				2022				2023				2024				2025				2026	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
		2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
		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	5/14	8/18	11/3	2/24	5/15
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Total Purged	gal	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Depth to Water	ft bgs	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	311.85	312.05	312.60	313.50	313.81
Temperature	deg C	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	12.1	15.6	11.9	11.9	14.1
pH	SU	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	7.96	8.15	8.09	7.89	8.02
Specific Conductance	µS/cm	5106	4047	5454	5687	5698	5645	5589	5649	5116	5678	5560	5842	5792	5580	5751	5761	6075	5662	5619	5468	5642	6186
Oxygen Reduction Potential	mV	-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	-190.8	-93.6	-134.6	-83.6	-110.5
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	26	20	22	21	22	21	26	20	21	21	24	22	24	21	24	24	22	23	23	24	20	26
pH (Lab)	SU	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	7.97	8.13	8.11	8.16	8.25
Total Dissolved Solids (Lab)	mg/L	3720	3540	3600	3630	3520	3580	3670	3530	3620	3450	3390	3560	3420	3490	3590	3510	3500	3510	3570	3590	3620	3590
Calcium	mg/L	6.0	4.6	5.1	4.8	5.0	5.1	6.0	4.7	4.8	4.8	5.7	5.2	5.5	4.9	5.5	5.6	5.2	5.2	5.3	5.6	4.6	5.7
Magnesium	mg/L	2.6	2.0	2.3	2.2	2.3	2.1	2.7	2.1	2.2	2.2	2.5	2.2	2.4	2.1	2.4	2.4	2.2	2.4	2.3	2.5	2.1	2.9
Sodium	mg/L	1520.0	1310.0	1340.0	1270.0	1360.0	1350.0	1530.0	1290.0	1410.0	1360.0	1440.0	1360.0	1410.0	1370.0	1480.0	1370.0	1440.0	1370.0	1390.0	1560.0	1300.0	1320.0
Potassium	mg/L	<10.0	<6.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<10.0	<10.0	<10.0	<10.0	<6.00	4.13	4.32	4.71	<5.00	<5.00	4.33	<5.00	<5.00	5.21
Alkalinity, Total	mg/L	2470	2500	2410	2630	2360	2500	2430	2250	2580	2240	2460	2460	2350	2580	2620	2410	2460	2420	2470	2440	2550	2470
Alkalinity, Bicarbonate	mg/L	2430	2360	2290	2410	2180	2300	2430	2250	2490	2240	2330	2420	2330	2380	2280	2410	2320	2160	2310	2340	2390	2330
Alkalinity, Carbonate	mg/L	40.0	140.0	120.0	220.0	180.0	200.0	<10.0	<10.0	90.0	<10.0	130.0	40.0	20.0	200.0	340.0	<10.0	140.0	260.0	160.0	100.0	160.0	140.0
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
Chloride	mg/L	557.00	553.00	572.00	561.00	562.00	563.00	570.00	583.00	576.00	581.00	566.00	586.00	575.00	579.00	573.00	548.00	597.00	515.00	571.00	586.00	571.00	592.00
Fluoride	mg/L	2.210	2.160	2.280	2.040	2.260	2.020	2.340	2.220	2.230	2.150	2.100	2.020	1.750	2.740	2.370	3.200	2.730	2.230	2.290	2.200	2.240	2.080
Sulfate as SO4	mg/L	<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	<10.0	<5.00	<5.00	<5.00	<5.00
Total Organic Carbon (TOC)	mg/L	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	4.21	6.16	5.76	7.59	6.97
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.100	<0.020	<0.020	<0.020	<0.020	<0.020	0.252	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<0.500	<0.300	<0.250	<0.250	<0.250	<0.250	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.300	<0.100	<0.050	<0.050	<0.250	<0.250	0.541	0.342	<0.250	0.673
Arsenic	mg/L	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	0.0202	0.0255	0.0259	0.0261	0.0228
Cadmium	mg/L	<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	<0.0050	0.0008	<0.0015	<0.0025	<0.0025	<0.0050	<0.0025	0.0008	<0.0025
Copper	mg/L	0.0111	0.0464	0.0499	0.0370	0.0302	0.0371	0.0618	0.0573	0.0606	0.0160	0.0731	0.0292	0.0487	0.0566	0.0641	0.0624	0.0656	0.0492	0.0612	0.0580	0.0544	0.0541
Iron	mg/L	0.837	0.355	0.793	0.551	0.598	0.801	0.795	<0.500	0.731	0.572	0.630	0.604	<0.300	0.604	0.682	0.722	0.551	0.579	0.234	0.446	0.337	0.886
Lead	mg/L	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0005	<0.0015	<0.0025	<0.0025	<0.0050	<0.0025	<0.0005	<0.0025
Manganese	mg/L	0.0059	0.0063	0.0050	0.0047	0.0051	0.0046	0.0049	0.0046	<0.0050	<0.0050	<0.0050	<0.0050	0.0067	<0.0050	0.0034	0.0081	0.0041	0.0034	0.0064	0.0059	0.0030	0.0118
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<500	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0050	0.0037	0.0031	0.0031	0.0033	0.0031	0.0036	0.0034	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0028	0.0035	0.0027	<0.0025	0.0118	0.0112	0.0029	0.0036
Selenium	mg/L	<0.0100	0.0186	0.0280	0.0269	0.0219	0.0146	0.0218	0.0256	0.0258	0.0194	0.0119	0.0216	0.0271	0.0303	0.0276	0.0274	0.0250	0.0377	0.0397	0.0353	0.0338	0.0338
Silica (SiO2)	mg/L	10.80	8.35	9.54	9.37	9.28	8.56	10.40	<10.7	<10.7	<10.7	<10.7	<10.7	9.10	8.50	10.90	9.87	9.77	9.37	11.20	12.20	8.56	13.30
Silicon	mg/L	5.06	3.91	4.46	4.38	4.34	4.00	4.87	<5.00	<5.00	<5.00	<5.00	<5.00	4.24	3.95	5.10	4.61	4.57	4.38	5.23	5.68	4.00	6.22
Uranium	mg/L	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0009	<0.0015	<0.0025	<0.0025	<0.0050	<0.0025	0.0007	<0.0025
Zinc	mg/L	<0.0200	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0020	<0.0060	0.0183	<0.0100	0.0205	0.0157	<0.0020	<0.0100

**Notes & Definitions:**

Historical data prior to 2021 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          | 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. |
| deg C | degrees Celsius             | 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.  |
| 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-A																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/14	8/17	11/3	2/24	5/15
Lab Analysis (Y/N)		Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.0	0.1	0.0	0.1	0.1																
Total Purged	gal	1	1	1	1	1	1																
Depth to Water	ft bgs	319.66	319.66	319.64	319.66	320.30	320.68																
Temperature	deg C	9.7	12.6	19.4	10.7	11.5	17.3	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
pH	SU	7.03	7.10	7.11	7.11	7.02	7.05																
Specific Conductance	µS/cm	4051	3198	4238	4465	4486	4477																
Oxygen Reduction Potential	mV	73.5	83.5	5.2	26.5	-56.1	2.4																
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	2660	2550	2740	2510	2440	2490																
pH (Lab)	SU	7.20	6.93	7.10	6.98	7.19	7.26																
Total Dissolved Solids (Lab)	mg/L	4480	4390	4440	4310	4440	4450																
Calcium	mg/L	398.0	378.0	415.0	370.0	359.0	365.0																
Magnesium	mg/L	404.0	390.0	413.0	385.0	374.0	383.0																
Sodium	mg/L	272.0	266.0	263.0	254.0	257.0	268.0																
Potassium	mg/L	11.10	10.70	11.00	10.40	10.70	10.60																
Alkalinity, Total	mg/L	245	290	255	295	285	270																
Alkalinity, Bicarbonate	mg/L	245	290	255	295	285	270																
Alkalinity, Carbonate	mg/L	<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																
Chloride	mg/L	24.90	25.80	26.00	26.60	26.20	26.10																
Fluoride	mg/L	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500																
Sulfate as SO4	mg/L	2620.0	2740.0	2780.0	2790.0	2870.0	2820.0																
Total Organic Carbon (TOC)	mg/L	1.71	3.82	3.33	3.25	3.26	3.14																
Nitrate/Nitrite as N	mg/L	0.039	0.156	0.118	0.096	0.131	0.103																
Aluminum	mg/L	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250																
Arsenic	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025																
Cadmium	mg/L	<0.0005	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025																
Copper	mg/L	<0.0025	0.0068	0.0082	0.0063	0.0065	0.0093																
Iron	mg/L	1.170	0.890	1.480	1.150	1.410	1.370																
Lead	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025																
Manganese	mg/L	0.4370	0.3970	0.4070	0.3910	0.4200	0.4310																
Mercury (dissolved)	mg/L	<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	<0.0025	<0.0025	<0.0020	<0.0025																
Selenium	mg/L	<0.0050	<0.0050	<0.0050	<0.0100	<0.0040	<0.0050																
Silica (SiO2)	mg/L	11.90	13.20	14.30	13.60	12.70	12.30																
Silicon	mg/L	5.58	6.17	6.67	6.36	5.96	5.73																
Uranium	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025																
Zinc	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0080	<0.0100																

**Notes & Definitions:**

*Historical data prior to 2021 can be found in earlier posted versions of this table*

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

## GCC Energy Hydrologic Monitoring Data

		MW-6-MI																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		2/9	5/17	8/9	11/9	2/15	5/10	8/1	11/25	3/13	5/31	8/8	11/16	2/5	6/19	8/13	11/21	2/7	5/14	8/17	11/3	2/24	5/15
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C																						
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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 2021 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

		MW-6-C																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		2/9	5/17	8/9	11/9	2/15	5/10	8/1	11/25	3/13	5/18	8/8	11/16	2/5	6/19	8/13	11/21	2/7	5/14	8/17	11/3	2/2	5/15
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm																						
Total Purged	gal																						
Depth to Water	ft bgs																						
Temperature	deg C	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
pH	SU																						
Specific Conductance	µS/cm																						
Oxygen Reduction Potential	mV																						
<b>Lab Analytical Results:</b>																							
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 2021 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

		MW-6-LM																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2	5
Sample Date		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	5/14	8/17	11/3	2/2	5/15
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.2	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	
Total Purged	gal	2	2	2	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
Depth to Water	ft bgs	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	541.80	542.10	542.10	542.00	541.95
Temperature	deg C	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	11.5	14.8	13.0	11.3	19.9
pH	SU	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	7.39	7.72	7.50	7.50	7.62
Specific Conductance	µS/cm	2136	1629	2531	2478	2362	2297	2053	1889	1599	1321	1525	1655	1498	1153	1030	997	886	770	729	718	771	781
Oxygen Reduction Potential	mV	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	-62.9	-261.4	91.6	78.5	338.4
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	1120	1010	1280	1130	1030	954	971	870	687	456	573	621	535	414	335	282	213	200	190	174	211	239
pH (Lab)	SU	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	7.82	7.90	7.71	7.66	7.81
Total Dissolved Solids (Lab)	mg/L	1990	1830	2290	2050	1990	1840	1870	1620	1290	940	1030	1060	940	755	680	575	440	445	425	410	400	465
Calcium	mg/L	176.0	154.0	201.0	174.0	159.0	145.0	152.0	133.0	109.0	76.8	91.5	99.1	86.9	70.5	58.1	49.2	39.8	38.2	35.6	33.1	42.0	46.5
Magnesium	mg/L	166.0	152.0	189.0	170.0	154.0	144.0	143.0	131.0	101.0	64.2	83.5	90.6	77.2	57.8	46.2	38.6	27.5	25.4	24.5	22.1	25.7	29.9
Sodium	mg/L	188.0	169.0	177.0	166.0	162.0	158.0	163.0	150.0	139.0	125.0	128.0	132.0	131.0	123.0	122.0	119.0	115.0	105.0	102.0	106.0	92.5	81.6
Potassium	mg/L	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	2.55	2.94	2.65	3.53	3.78
Alkalinity, Total	mg/L	336	346	330	380	365	365	337	310	368	470	390	355	355	360	430	410	440	405	400	410	360	375
Alkalinity, Bicarbonate	mg/L	336	346	330	380	365	365	337	310	368	470	390	355	355	360	430	410	440	405	400	410	360	375
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
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
Chloride	mg/L	11.00	10.50	12.60	11.10	10.50	10.90	10.70	9.29	6.75	5.09	5.75	6.09	6.04	4.47	3.61	3.06	2.18	<1.00	2.08	2.06	2.23	2.38
Fluoride	mg/L	0.318	0.340	0.418	0.306	0.328	<0.500	0.310	0.322	0.328	0.254	<0.200	0.240	<0.500	0.306	0.316	0.335	0.344	<0.100	0.259	0.266	0.227	0.197
Sulfate as SO4	mg/L	1020.0	978.0	1300.0	1100.0	555.0	931.0	1010.0	848.0	563.0	366.0	500.0	534.0	451.0	298.0	209.0	144.0	63.0	8.5	46.3	30.2	56.0	67.8
Total Organic Carbon (TOC)	mg/L	3.17	1.81	1.91	1.94	1.83	1.74	2.08	1.29	2.13	<2.5	1.66	0.76	1.70	1.74	1.36	1.36	1.13	1.21	1.28	1.35	1.14	1.61
Nitrate/Nitrite as N	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	0.031	<0.020
Aluminum	mg/L	<0.250	<0.150	<0.100	<0.100	<0.250	<0.250	<0.100	<0.100	<0.100	<0.100	<0.250	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	mg/L	0.0038	0.0038	0.0039	0.0038	0.0042	0.0034	0.0034	0.0043	0.0054	0.0030	<0.0025	0.0040	0.0052	0.0030	0.0030	0.0030	0.0027	0.0020	0.0017	0.0015	0.0032	0.0026
Cadmium	mg/L	<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	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	mg/L	<0.0025	0.0042	0.0046	0.0040	0.0044	0.0038	0.0054	0.0030	0.0100	0.0016	<0.0025	0.0032	0.0060	0.0050	0.0135	0.0088	0.0106	0.0031	0.0232	0.0074	0.0031	0.0032
Iron	mg/L	<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	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	mg/L	<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	<0.0005	0.0021	<0.0005	<0.0005	<0.0005
Manganese	mg/L	0.2530	0.2030	0.2570	0.2630	0.3390	0.2490	0.1740	0.2200	0.2210	0.0961	0.1110	0.0727	0.2150	0.0820	0.0359	0.0719	0.0411	0.0302	<0.0010	0.0009	0.0315	0.0954
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0025	<0.0015	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	<0.0005	0.0005	<0.0005	0.0005	0.0005
Selenium	mg/L	0.0151	<0.0030	<0.0020	<0.0040	<0.0020	<0.0050	0.0028	0.0026	0.0060	0.0028	<0.0050	0.0031	<0.0020	0.0241	<0.0010	<0.0010	0.0132	0.0244	<0.0010	<0.0010	0.0034	<0.0010
Silica (SiO2)	mg/L	15.60	16.40	16.80	16.60	16.00	15.50	17.30	16.70	16.80	17.40	16.30	17.20	16.40	17.20	18.20	16.90	17.70	18.00	19.10	17.00	18.90	21.20
Silicon	mg/L	7.30	7.68	7.85	7.75	7.49	7.24	8.07	7.80	7.84	8.12	7.64	8.06	7.68	8.02	8.52	7.92	8.27	8.42	8.91	7.93	8.81	9.92
Uranium	mg/L	0.0039	0.0030	0.0037	0.0032	0.0028	0.0025	0.0026	0.0025	<0.0025	0.0011	<0.0025	0.0020	<0.0025	0.0012	0.0009	0.0006	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Zinc	mg/L	<0.0100	<0.0060	<0.0040	<0.0040	<0.0040	<0.0100	<0.0040	<0.0040	<0.0100	<0.0040	<0.0100	<0.0040	<0.0040	<0.0040	<0.0020	0.0160	0.0217	0.0080	0.0181	0.0122	<0.0020	<0.0020

**Notes & Definitions:**

- Historical data prior to 2021 can be found in earlier posted versions of this table*
- |  |   |
|--|---|
| <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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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## GCC Energy Hydrologic Monitoring Data

MW-7-EAA																							
Year	2021				2022				2023				2024				2025				2026		
	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2	5	
Sample Date	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	5/12	8/15	11/1	2/6	5/14	
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	
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.3	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.2	0.1	0.1	0.1
Total Purged	gal	15	17	17	18	18	17	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depth to Water	ft bgs	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	23.10	28.10	28.10	27.50	26.90
Temperature	deg C	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	12.3	13.5	10.9	10.4	12.7
pH	SU	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	6.96	7.11	7.02	6.78	6.99
Specific Conductance	µS/cm	1672	1805	1814	1878	1882	1896	1880	1808	1754	1785	1831	1966	2082	1905	1932	2069	2062	1610	2977	1739	1927	1822
Oxygen Reduction Potential	mV	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	-45.1	-190.6	73.4	96.0	111.5
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	9	9	8	9	1040	958	916	962	1020	952	902	1010	1080	1080	1030	997	993	1110	952	939	932	1040
pH (Lab)	SU	8.37	8.28	8.31	8.20	7.11	7.12	7.24	7.18	6.95	6.95	7.25	7.16	6.84	7.07	7.10	7.13	7.09	7.08	7.47	7.27	7.73	7.17
Total Dissolved Solids (Lab)	mg/L	955	945	1010	945	1500	1500	1490	1420	1500	1400	1450	1560	1570	1550	1550	1650	1540	1490	1490	1470	1360	1570
Calcium	mg/L	2.4	2.3	2.1	2.3	173.0	166.0	154.0	165.0	174.0	161.0	151.0	173.0	184.0	186.0	177.0	170.0	169.0	185.0	161.0	162.0	161.0	179.0
Magnesium	mg/L	0.8	0.8	0.6	0.9	149.0	132.0	129.0	134.0	143.0	134.0	127.0	141.0	150.0	149.0	141.0	139.0	139.0	157.0	133.0	130.0	129.0	145.0
Sodium	mg/L	435.0	380.0	402.0	391.0	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	82.7	77.2	76.2	78.4	83.7
Potassium	mg/L	<3.00	1.16	<5.00	<2.00	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	<5.00	3.91	3.91	4.36	5.97
Alkalinity, Total	mg/L	935	935	930	1000	425	425	400	310	378	410	437	425	440	455	437	460	440	430	390	435	415	435
Alkalinity, Bicarbonate	mg/L	825	825	820	920	425	425	400	310	378	410	437	425	440	455	437	460	440	430	390	435	415	435
Alkalinity, Carbonate	mg/L	110.0	110.0	110.0	80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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
Chloride	mg/L	5.27	4.93	4.78	6.80	10.10	10.30	11.20	11.00	11.10	10.80	11.80	11.90	11.50	11.40	11.60	11.20	12.80	11.30	10.80	11.30	10.80	10.80
Fluoride	mg/L	0.250	0.272	0.304	<0.500	0.292	<0.200	0.310	0.306	0.340	0.262	<0.200	0.238	0.282	0.298	<0.500	0.314	<0.500	<0.500	0.300	0.313	0.297	0.272
Sulfate as SO4	mg/L	6.8	6.4	6.3	6.9	755.0	743.0	759.0	761.0	827.0	709.0	719.0	828.0	842.0	821.0	790.0	747.0	867.0	798.0	734.0	821.0	716.0	879.0
Total Organic Carbon (TOC)	mg/L	2.64	2.50	2.66	2.40	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	3.91	4.42	10.90	4.53	4.23
Nitrate/Nitrite as N	mg/L	<0.020	0.042	0.039	0.104	<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	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	<0.250	<0.100	<0.150	<0.100	<0.050	0.197	<0.250	<0.250	<0.050	<0.100	<0.050	<0.250
Arsenic	mg/L	0.0143	0.0142	0.0117	0.0076	0.0009	0.0014	<0.0025	0.0013	<0.0025	<0.0025	<0.0025	0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0050	<0.0010	<0.0020	<0.0020	0.0016	0.0012
Cadmium	mg/L	<0.0003	<0.0005	<0.0025	<0.0025	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005
Copper	mg/L	0.0030	0.0088	0.0083	0.0095	0.0021	0.0036	<0.0025	0.0030	<0.0025	0.0028	0.0032	0.0018	0.0048	0.0044	0.0045	0.0186	<0.0050	0.0077	0.0108	0.0076	0.0098	0.0031
Iron	mg/L	<0.150	<0.050	<0.250	<0.100	2.050	1.690	1.750	1.570	1.990	0.265	<0.250	0.251	0.259	0.421	0.379	0.404	1.750	1.900	2.740	2.230	2.680	2.540
Lead	mg/L	<0.0015	<0.0005	<0.0025	<0.0025	<0.0025	<0.0005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	0.0015	<0.0025	0.0005	<0.0010	<0.0010	0.0008	<0.0005
Manganese	mg/L	0.0215	0.0188	0.0187	0.0181	4.4800	4.5800	4.6100	4.7500	4.6900	4.2200	4.4600	4.4000	4.6500	4.6100	4.6500	4.6900	4.4400	4.8100	4.6700	4.4700	4.6400	4.6500
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	0.0006	<0.0025	<0.0025	<0.0010	0.0007	0.0007	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	0.0008	0.0007	<0.0025	<0.0005	<0.0010	<0.0010	0.0009	0.0009
Selenium	mg/L	<0.0010	<0.0050	<0.0050	<0.0020	<0.0010	0.0012	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	0.0010	<0.0010	<0.0050	<0.0010	<0.0020	<0.0020	<0.0010	0.0013
Silica (SiO2)	mg/L	17.70	17.10	16.70	17.20	18.30	16.80	16.10	16.90	17.50	17.00	15.20	16.50	16.30	17.10	16.50	16.70	15.80	17.30	17.20	15.10	15.60	16.80
Silicon	mg/L	8.28	7.97	7.81	8.03	8.57	7.86	7.54	7.92	8.16	7.95	7.11	7.72	7.60	8.00	7.70	7.80	7.41	8.09	8.02	7.08	7.32	7.87
Uranium	mg/L	0.0018	<0.0025	<0.0025	0.0015	<0.0025	0.0018	<0.0025	0.0016	<0.0025	0.0018	<0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	<0.0025	0.0010	0.0018	0.0018	0.0019	0.0020
Zinc	mg/L	0.0022	<0.0100	<0.0100	<0.0040	<0.0020	0.0041	<0.0100	<0.0040	<0.0100	<0.0100	<0.0100	<0.0040	<0.0040	<0.0040	0.0033	0.0170	<0.0100	0.0123	0.0166	0.0092	0.0166	0.0028

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

- |   |   |
|---|---|
| <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"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
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### GCC Energy Hydrologic Monitoring Data

		MW-8-EAA																					
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/13	8/15	11/1	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.4	0.2	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Total Purged	gal	15	16	15	14	15	15	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
Depth to Water	ft bgs	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	31.73	33.45	33.90	33.60	33.30
Temperature	deg C	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	11.2	11.7	10.8	10.6	11.8
pH	SU	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	7.11	7.24	7.15	6.91	7.14
Specific Conductance	µS/cm	1570	1642	1671	1746	1750	1763	1763	1793	1665	1766	1742	1761	1955	1849	1851	1848	1971	1577	1752	1754	1862	1808
Oxygen Reduction Potential	mV	-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	-82.7	-162.9	73.0	93.3	116.0
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	914	838	859	859	937	867	831	871	940	932	887	901	962	975	957	936	918	960	872	897	908	927
pH (Lab)	SU	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	7.20	7.17	7.30	7.19	7.10	7.25	7.19	7.40	7.34
Total Dissolved Solids (Lab)	mg/L	1400	1320	1320	1340	1380	1330	1360	1300	1320	1350	1400	1430	1480	1420	1460	1470	1460	1230	1430	1390	1430	1500
Calcium	mg/L	156.0	146.0	146.0	149.0	158.0	150.0	143.0	149.0	163.0	159.0	152.0	156.0	168.0	169.0	167.0	162.0	158.0	164.0	148.0	155.0	157.0	159.0
Magnesium	mg/L	127.0	115.0	120.0	118.0	131.0	119.0	115.0	121.0	130.0	130.0	123.0	125.0	132.0	134.0	131.0	129.0	127.0	134.0	122.0	124.0	125.0	129.0
Sodium	mg/L	80.9	76.1	75.8	74.9	81.2	75.0	75.0	75.3	80.5	79.8	75.5	77.4	79.4	80.3	78.8	81.2	77.7	80.3	75.4	79.1	84.3	82.2
Potassium	mg/L	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	3.70	<5.00	<5.00	<5.00	3.50	4.47	3.48
Alkalinity, Total	mg/L	450	445	385	490	460	465	480	430	417	448	417	415	435	475	480	470	465	465	380	460	419	419
Alkalinity, Bicarbonate	mg/L	450	445	385	490	460	465	480	430	417	448	417	415	435	475	480	470	465	465	380	460	419	419
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
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
Chloride	mg/L	10.40	10.20	10.30	10.50	10.50	10.60	11.70	11.40	11.60	11.80	12.20	12.20	12.30	11.80	12.20	12.50	12.60	12.00	11.90	13.90	11.90	12.00
Fluoride	mg/L	0.292	0.306	0.350	0.272	0.304	0.204	0.332	0.316	0.358	0.284	<0.200	0.266	0.330	0.312	<0.500	<0.500	<0.500	0.315	0.308	0.345	0.309	0.275
Sulfate as SO4	mg/L	609.0	595.0	615.0	599.0	608.0	597.0	627.0	619.0	686.0	675.0	685.0	748.0	768.0	731.0	713.0	697.0	732.0	693.0	673.0	787.0	681.0	793.0
Total Organic Carbon (TOC)	mg/L	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	4.00	4.20	5.82	5.25	3.47	5.60	6.27	3.77	3.95
Nitrate/Nitrite as N	mg/L	<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	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<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	<0.250	<0.250	<0.050	<0.100	<0.050	<0.050
Arsenic	mg/L	0.0018	0.0018	<0.0025	0.0017	0.0015	0.0019	<0.0025	0.0020	0.0027	<0.0025	<0.0025	0.0020	<0.0020	<0.0020	0.0015	0.0016	<0.0050	0.0025	<0.0050	0.0024	0.0018	0.0017
Cadmium	mg/L	<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	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005
Copper	mg/L	<0.0015	<0.0015	<0.0025	0.0017	0.0021	0.0031	<0.0025	0.0021	<0.0025	0.0084	<0.0025	0.0020	0.0048	0.0030	0.0033	0.0160	<0.0050	0.0146	0.0083	0.0165	0.0035	0.0029
Iron	mg/L	2.330	2.250	2.200	2.220	2.520	2.220	2.280	2.270	2.430	2.430	2.190	2.240	2.340	2.370	2.320	2.230	2.230	2.300	2.590	2.850	2.500	2.490
Lead	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	0.0012	<0.0025	<0.0010	<0.0025	0.0019	<0.0005	<0.0005
Manganese	mg/L	3.5500	3.5000	3.6000	3.6600	3.7700	3.7000	3.7700	3.8700	3.9800	3.8500	3.9100	4.1600	3.8800	4.2600	4.2300	4.2400	4.0400	4.3700	4.0100	3.7400	4.1600	4.1600
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	0.0009	0.0009	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	0.0009	0.0009	<0.0025	<0.0010	<0.0025	<0.0010	0.0009	0.0010
Selenium	mg/L	0.0046	<0.0030	<0.0050	0.0035	<0.0010	0.0015	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0020	<0.0020	0.0037	<0.0010	<0.0010	<0.0050	<0.0020	<0.0050	<0.0020	<0.0010	0.0015
Silica (SiO2)	mg/L	16.00	16.50	15.50	16.40	17.30	16.00	15.40	16.20	16.90	16.60	15.40	16.50	15.90	16.30	16.10	16.20	14.90	15.00	15.80	14.90	15.10	16.10
Silicon	mg/L	7.48	7.72	7.24	7.68	8.10	7.47	7.18	7.60	7.89	7.75	7.22	7.72	7.44	7.61	7.54	7.56	6.97	7.02	7.40	6.99	7.05	7.50
Uranium	mg/L	0.0016	0.0016	<0.0025	0.0015	<0.0025	<0.0025	<0.0025	0.0016	<0.0025	0.0017	<0.0025	0.0019	0.0019	0.0020	0.0021	0.0019	<0.0025	0.0018	<0.0025	0.0017	0.0018	0.0019
Zinc	mg/L	<0.0060	<0.0060	<0.0100	<0.0040	<0.0020	0.0021	<0.0100	<0.0040	<0.0100	0.0063	<0.0100	<0.0040	<0.0040	<0.0040	0.0024	0.0027	<0.0100	0.0236	0.0174	0.0164	<0.0020	0.0024

**Notes & Definitions:**

*Historical data prior to 2021 can be found in earlier posted versions of this table*

- |       |                             |  |
|-------|-----------------------------|--|
| Y/N   | yes or no                   | 1. "   |
| gpm   | gallons per minute          | "<" 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.   |
| deg C | degrees Celsius             |  |
| SU    | standard pH units           | 2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3. |
| µS/cm | microsiemens per centimeter |  |
| mV    | millivolts                  |  |
| mg/L  | milligram per liter         |  |
| pCi/L | picocuries per liter        | 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-MI																							
Year		2021				2022				2023				2024				2025				2026	
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2	5
Sample Date		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	5/13	8/15	11/1	2/6	5/14
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
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.3	0.1	0.3	0.3	0.3	0.1	0.2	0.5	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.0	0.3	0.1	0.1
Total Purged	gal	2	3	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	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	39.60	50.94	41.42	41.36	41.34
Temperature	deg C	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	12.0	11.5	11.0	11.0	11.4
pH	SU	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	7.41	7.57	7.44	7.18	7.40
Specific Conductance	µS/cm	1468	1616	1554	1629	1596	1575	1505	1631	1632	1607	1538	1544	1642	1526	1580	1578	1673	1327	158	1534	1597	1589
Oxygen Reduction Potential	mV	-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	-173.2	-244.0	4.7	33.2	-12.4
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	376	288	377	317	406	378	374	390	405	388	363	361	366	388	389	386	389	394	340	377	393	373
pH (Lab)	SU	7.33	7.36	7.31	7.06	7.36	7.38	7.70	7.45	7.30	7.36	7.67	7.66	7.11	7.47	7.44	7.48	7.42	7.31	7.54	7.40	7.51	7.57
Total Dissolved Solids (Lab)	mg/L	1060	1040	1000	1100	1050	1040	1050	990	1050	995	1060	1050	995	985	1030	995	1040	895	1020	965	1050	1040
Calcium	mg/L	69.7	54.0	70.3	59.8	75.5	71.2	69.2	72.3	76.0	72.1	67.4	66.3	68.4	72.9	73.5	71.3	70.3	72.1	61.0	69.5	73.4	69.1
Magnesium	mg/L	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	50.0	50.6	51.9	52.0	45.6	49.3	51.0	48.7
Sodium	mg/L	237.0	256.0	229.0	238.0	226.0	220.0	213.0	210.0	230.0	236.0	216.0	215.0	219.0	221.0	228.0	217.0	207.0	220.0	208.0	220.0	237.0	234.0
Potassium	mg/L	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	6.00	5.58	5.59	1.53	5.45
Alkalinity, Total	mg/L	590	575	570	605	590	590	500	540	550	568	553	560	555	595	580	610	585	590	540	590	595	575
Alkalinity, Bicarbonate	mg/L	590	575	570	605	590	590	500	540	550	568	553	560	555	595	580	610	585	590	540	590	595	575
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
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
Chloride	mg/L	7.96	8.07	7.85	7.91	7.70	8.36	8.88	8.60	8.56	8.39	8.80	8.35	8.67	8.73	9.13	8.77	9.71	8.39	8.08	8.61	8.19	8.35
Fluoride	mg/L	<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	<0.200	<0.500	<0.500	<0.500	0.118	0.123	0.127	0.119	0.103
Sulfate as SO4	mg/L	326.0	314.0	324.0	312.0	325.0	322.0	352.0	351.0	335.0	327.0	323.0	320.0	329.0	329.0	356.0	319.0	378.0	336.0	312.0	360.0	318.0	376.0
Total Organic Carbon (TOC)	mg/L	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	2.60	3.31	2.63	2.69	3.17
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
Aluminum	mg/L	<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	<0.250	<0.250	<0.050	<0.100	<0.250	<0.050
Arsenic	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	0.0006	<0.0025	0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0050	<0.0020	<0.0050	<0.0020	<0.0010	<0.0010
Cadmium	mg/L	<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	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005
Copper	mg/L	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	0.0083	0.0089	0.0080	0.0094	0.0093	0.0085
Iron	mg/L	<0.150	0.113	<0.250	0.168	0.113	0.090	<0.100	<0.100	<0.250	0.082	<0.250	<0.100	0.135	0.127	0.078	0.051	<0.250	<0.250	<0.050	<0.100	<0.250	0.112
Lead	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005
Manganese	mg/L	0.0579	0.0412	0.0544	0.0443	0.0603	0.0553	0.0597	0.0693	0.0569	0.0560	0.0562	0.0562	0.0595	0.0632	0.0521	0.0578	0.0619	0.0623	0.0610	0.0577	0.0550	0.0528
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																	
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Molybdenum	mg/L	<0.0015	<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	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005
Selenium	mg/L	0.0425	0.0037	0.0072	0.0264	0.0016	0.0040	<0.0050	0.0183	0.0119	0.0049	0.0050	0.0076	0.0057	0.0274	0.0023	<0.0010	<0.0050	0.0099	<0.0050	0.0080	0.0076	0.0051
Silica (SiO2)	mg/L	13.50	13.20	13.60	13.70	15.20	14.00	13.60	14.00	13.70	13.90	12.50	13.80	13.20	13.80	14.00	13.70	13.50	13.30	13.50	12.60	2.53	13.70
Silicon	mg/L	6.32	6.17	6.35	6.39	7.08	6.57	6.35	6.52	6.42	6.48	5.85	6.45	6.16	6.45	6.54	6.38	6.29	6.22	6.30	5.87	1.18	6.39
Uranium	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0010	<0.0005	<0.0005
Zinc	mg/L	<0.0060	<0.0060	<0.0100	<0.0040	<0.0020	<0.0020	<0.0100	<0.0040	<0.0100	0.0047	<0.0100	<0.0040	<0.0040	<0.0040	<0.0020	<0.0020	<0.0100	0.0199	0.0109	0.0095	0.0060	<0.0020

**Notes & Definitions:**

Historical data prior to 2021 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          | 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. |
| deg C | degrees Celsius             | 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.  |
| 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-8-LM																								
Year		2021				2022				2023				2024				2025				2026		
Quarter		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month		2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2	5	
Sample Date		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	5/13	8/15	11/1	2/6	5/14	
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	
<b>Field Parameters:</b>																								
Purge Flow Rate	gpm	0.1	0.1	0.3	0.3	0.3	0.3	0.2	NM	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Total Purged	gal	2	2	1	1	1	1	1	NM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Depth to Water	ft bgs	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	127.25	127.80	128.20	128.90	129.40	
Temperature	deg C	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	12.6	13.5	12.1	12.1	12.6	
pH	SU	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	8.71	8.83	8.82	8.66	8.80	
Specific Conductance	µS/cm	1132	1121	1196	1262	1260	1232	1255	1276	1233	1252	1241	1224	1305	1229	1227	1261	1365	1255	1215	1227	1269	1252	
Oxygen Reduction Potential	mV	-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	-71.2	-176.4	15.6	132.4	62.5	
<b>Lab Analytical Results:</b>																								
Hardness as CaCO3	mg/L	7	7	5	7	7	7	6	6	4	6	4	7	7	7	8	7	6	7	6	7	7	10	
pH (Lab)	SU	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	8.70	8.73	8.64	8.60	8.71	8.21	8.69	8.72	
Total Dissolved Solids (Lab)	mg/L	795	720	740	760	740	795	755	685	765	745	805	755	755	760	760	750	775	740	760	775	775	780	
Calcium	mg/L	1.9	1.9	1.9	1.9	2.0	1.8	1.7	1.7	1.6	1.7	1.6	1.9	1.8	1.8	2.1	1.8	1.6	1.9	1.7	1.8	1.9	2.4	
Magnesium	mg/L	0.6	0.6	<0.500	0.6	0.6	0.5	0.5	0.5	<0.500	0.5	<0.500	0.6	0.5	0.6	0.7	0.5	0.5	0.7	0.5	0.6	0.6	1.1	
Sodium	mg/L	319.0	315.0	308.0	291.0	316.0	298.0	298.0	301.0	287.0	315.0	289.0	299.0	304.0	311.0	304.0	310.0	300.0	312.0	291.0	316.0	359.0	311.0	
Potassium	mg/L	<3.00	2.24	<5.00	2.12	2.31	2.06	<2.00	2.12	<5.00	1.85	<5.00	2.07	2.00	2.13	2.22	2.07	<5.00	<5.00	2.08	2.08	3.30	2.05	
Alkalinity, Total	mg/L	730	755	750	770	780	765	760	750	714	732	714	700	690	760	745	765	740	740	730	730	750	735	
Alkalinity, Bicarbonate	mg/L	630	645	650	620	640	655	580	510	666	732	646	620	640	640	665	665	670	600	630	640	600	665	
Alkalinity, Carbonate	mg/L	100.0	110.0	100.0	150.0	140.0	110.0	180.0	240.0	48.0	<10.0	68.0	80.0	50.0	120.0	80.0	100.0	70.0	140.0	100.0	90.0	150.0	70.0	
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	
Chloride	mg/L	2.50	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	<5.00	2.41	2.72	2.55	2.58	
Fluoride	mg/L	3.580	3.480	3.670	3.400	3.440	3.250	3.790	3.730	3.840	3.650	3.150	3.420	3.930	3.940	3.860	3.920	4.130	3.800	3.710	3.630	3.700	3.590	
Sulfate as SO4	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	0.9	<2.00	<2.00	<2.00	<2.00	<2.00	<5.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Total Organic Carbon (TOC)	mg/L	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	1.49	1.74	1.80	1.57	1.74	
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	
Aluminum	mg/L	<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	<0.250	<0.250	<0.050	<0.100	<0.050	<0.050	
Arsenic	mg/L	<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	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	
Cadmium	mg/L	<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	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005	
Copper	mg/L	0.0025	0.0057	0.0068	0.0065	0.0075	0.0167	0.0052	0.0079	0.0043	0.0155	0.0040	0.0068	0.0128	0.0132	0.0130	0.0143	0.0130	0.0128	0.0139	0.0142	0.0126	0.0127	
Iron	mg/L	<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	<0.250	<0.250	<0.050	<0.100	<0.050	<0.050	
Lead	mg/L	<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	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	0.0005	<0.0005	<0.0005	
Manganese	mg/L	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	0.0024	0.0023	0.0023	0.0025	0.0019	
Mercury (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002																		
Mercury (dissolved low-level)	ng/L						<5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100		
Molybdenum	mg/L	<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	<0.0005	<0.0010	<0.0010	0.0005	0.0006	<0.0005	
Selenium	mg/L	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	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	
Silica (SiO2)	mg/L	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	7.80	7.80	8.31	8.23	8.27	7.35	7.67	8.60	8.40	
Silicon	mg/L	3.82	3.84	3.66	3.87	3.95	3.80	3.56	3.95	3.19	3.52	2.89	3.80	3.51	3.65	3.65	3.89	3.85	3.87	3.44	3.59	4.02	3.93	
Uranium	mg/L	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0005	<0.0025	<0.0015	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005	
Zinc	mg/L	<0.0060	<0.0060	<0.0100	<0.0040	<0.0020	0.0079	<0.0100	0.0022	<0.0100	0.0032	<0.0100	<0.0040	<0.0040	<0.0040	<0.0020	0.0107	0.0089	0.0135	0.0120	0.0108	<0.0020	<0.0020	

**Notes & Definitions:**

Historical data prior to 2021 can be found in earlier posted versions of this table

- |   |   |   |
|---|---|---|
| Y/N<br>gpm<br>deg C<br>SU<br>µS/cm<br>mV<br>mg/L<br>pCi/L<br>NM<br>NA<br>ng/L | yes or no<br>gallons per minute<br>degrees Celsius<br>standard pH units<br>microsiemens per centimeter<br>millivolts<br>milligram per liter<br>picocuries per liter<br>not measured (field)<br>not analyzed (lab)<br>nanogram per liter | <ol style="list-style-type: none"> <li>1. "&lt;" 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.</li> <li>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.</li> <li>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.</li> </ol> |
|---|---|---|

## GCC Energy Hydrologic Monitoring Data

MW-8-PL																							
Year	2021				2022				2023				2024				2025				2026		
	Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2	5	
Sample Date	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	5/13	8/15	11/1	2/6	5/14	
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	
<b>Field Parameters:</b>																							
Purge Flow Rate	gpm	0.8	0.3	0.3	0.3	0.3	0.3	0.1	1.0	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Total Purged	gal	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Depth to Water	ft bgs	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	127.80	128.06	128.05	127.90	136.50
Temperature	deg C	12.9	14.6	14.8	13.4	14.1	14.1	14.3	12.8	13.2	14.2	13.4	13.3	12.2	13.1	13.5	12.6	11.8	13.2	14.3	13.0	13.0	13.5
pH	SU	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	7.37	7.53	7.55	7.29	7.52
Specific Conductance	µS/cm	760	813	816	836	817	826	822	848	853	825	814	815	854	813	824	830	880	822	792	803	838	827
Oxygen Reduction Potential	mV	-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	-93.1	-204.7	4.2	97.9	11.4
<b>Lab Analytical Results:</b>																							
Hardness as CaCO3	mg/L	281	283	280	272	292	276	275	274	303	282	274	269	279	282	296	281	268	292	266	276	295	282
pH (Lab)	SU	7.36	7.41	7.29	7.16	7.42	7.47	7.88	7.39	7.33	7.36	7.51	7.70	7.26	7.52	7.56	7.55	7.54	7.47	7.55	7.54	7.65	7.63
Total Dissolved Solids (Lab)	mg/L	525	505	475	465	485	505	500	430	500	465	540	505	460	490	480	490	450	275	490	475	475	510
Calcium	mg/L	52.2	53.3	53.0	51.1	55.7	53.1	52.4	52.0	57.9	53.3	52.4	51.4	53.5	55.1	57.7	53.4	50.6	54.8	50.0	52.3	55.7	53.5
Magnesium	mg/L	36.6	36.5	35.9	35.0	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	37.7	34.2	35.2	38.0	36.0
Sodium	mg/L	78.6	79.7	77.8	73.7	80.8	75.4	76.3	75.0	81.7	77.4	75.3	75.1	76.0	78.2	77.5	78.1	74.0	78.4	73.4	78.3	84.0	81.3
Potassium	mg/L	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	1.64	1.55	1.57	2.26	1.78
Alkalinity, Total	mg/L	370	385	360	385	362	380	356	410	350	388	350	335	370	375	375	405	365	390	360	395	375	375
Alkalinity, Bicarbonate	mg/L	370	385	360	385	362	380	340	410	338	388	350	335	370	375	375	405	365	390	360	395	375	375
Alkalinity, Carbonate	mg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	<10.0	12.0	<10.0	<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
Chloride	mg/L	3.39	3.30	3.33	3.38	3.33	3.34	3.66	3.51	3.70	3.61	3.67	3.58	3.56	3.56	3.48	3.37	3.62	3.52	3.46	3.86	3.54	3.52
Fluoride	mg/L	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	0.202	0.201	0.207	0.195	0.172
Sulfate as SO4	mg/L	101.0	96.3	102.0	98.4	100.0	94.7	106.0	107.0	107.0	106.0	104.0	104.0	106.0	107.0	106.0	102.0	108.0	108.0	105.0	105.0	102.0	105.0
Total Organic Carbon (TOC)	mg/L	0.93	1.42	1.54	1.40	1.54	1.36	1.60	0.77	1.44	1.15	1.59	<1.00	1.45	1.46	1.40	1.47	1.50	1.26	1.35	1.44	1.36	1.46
Nitrate/Nitrite as N	mg/L	<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	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aluminum	mg/L	<0.050	<0.050	<0.100	<0.050	<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	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	mg/L	0.0074	0.0055	0.0017	0.0051	0.0046	0.0047	0.0042	0.0037	0.0033	0.0036	0.0029	0.0030	0.0029	0.0029	0.0030	0.0026	0.0026	0.0025	<0.0020	0.0022	0.0021	0.0021
Cadmium	mg/L	<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	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005
Copper	mg/L	0.0005	0.0013	<0.0010	0.0015	0.0023	0.0040	0.0014	0.0015	0.0028	0.0027	0.0020	0.0026	0.0030	0.0038	0.0039	0.0052	0.0029	0.0051	0.0070	0.0046	0.0073	0.0028
Iron	mg/L	<0.050	<0.050	<0.100	0.070	0.079	<0.050	0.063	0.057	<0.100	0.062	<0.100	0.051	0.066	<0.100	0.064	0.051	<0.250	0.063	0.056	0.075	0.136	0.087
Lead	mg/L	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	<0.0005	<0.0010	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	0.0007	<0.0005
Manganese	mg/L	0.1960	0.1750	0.0772	0.1610	0.1630	0.1500	0.1450	0.1340	0.1220	0.1110	0.1200	0.1050	0.0976	0.1110	0.0906	0.0880	0.0822	0.0767	0.0769	0.0669	0.0675	0.0626
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	<0.0002	<0.0002	<0.0002
Mercury (dissolved low-level)	ng/L	<0.0005	<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	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005
Molybdenum	mg/L	0.0038	<0.0020	<0.0020	0.0031	<0.0010	0.0014	<0.0020	0.0012	<0.0050	0.0006	<0.0020	<0.0010	0.0019	<0.0020	0.0026	<0.0010	<0.0010	0.0014	<0.0020	0.0016	<0.0010	0.0048
Selenium	mg/L	20.10	21.50	20.00	20.80	22.20	20.40	20.80	20.90	22.60	21.50	20.60	20.80	20.40	20.00	20.50	20.10	18.90	20.10	20.40	19.00	19.10	20.40
Silica (SiO2)	mg/L	9.40	10.00	9.37	9.71	10.40	9.54	9.75	9.75	10.60	10.00	9.61	9.71	9.55	9.36	9.59	9.41	8.83	9.39	9.54	8.90	8.91	9.52
Silicon	mg/L	<0.0005	<0.001	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0005	<0.0025	0.0001	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0005	<0.0005
Uranium	mg/L	<0.0020	<0.004	<0.0040	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0100	0.0009	<0.0040	<0.0020	0.0046	<0.0040	<0.0020	0.0039	<0.0020	0.0128	0.0104	0.0106	0.0107	<0.0020

**Notes & Definitions:**

*Historical data prior to 2021 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          | 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. |
| deg C | degrees Celsius             | 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.  |
| 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          |    |   |