GCC Energy Hydrologic Monitoring Data

Hay Gulch Ditch Upgradient

		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
Month		2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2	6	8	11	2
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
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
Field Parameters:																						
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
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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
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
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*
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*
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*
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
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*
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
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
Mercury (total)	***mg/L***	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*																	
Mercury (total low-level)	***ng/L***			*<10.0*	*<10.0*	*<0.200*	*<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*
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
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*
Silica (Si02)	***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
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
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*
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

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

Hay Gulch Ditch Downgradient

		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
Month		2	6	9	11	3	6	9	12	3	5	8	11	2	6	8	11	2	6	8	11	2
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
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
Field Parameters:																						
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
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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*
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*
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
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*
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*
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
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*
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
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*
Silica (Si02)	*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
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
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
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

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

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 #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
	Month	2	5	8	11	2	5	8	12	3	5	8	11	2	6	8	11	2	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	12	9	7	12	6	9	19	0	5	8	5	5	5	4	4	3	3	4	3	3	4
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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*
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*
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
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*
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*
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
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***	0.0026	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
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
Silica (Si02)	***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
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
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
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*

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	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
	Month	2	5	8	11	3	6	8	12	3	5	8	11	2	6	8	11	2	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	302	324	300	400	300	300	400	350	270	280	304	264	270	265	263	262	265	266	260	261	265
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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
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*
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
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
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
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
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*
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*
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*
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*
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
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
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*
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
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***	*<0.0025*	*<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
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
Silica (Si02)	***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
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
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*
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*

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

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
	Month	2	5	8	11	3	6	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2
	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
	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
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
Total Purged	***gal***	2920	3000	1800	2800	2900	2950	3000	3000	4000	4000	3100	2612	3753	3100	3199	3861	3678	3467	3044	3354	3489
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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
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*
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*
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*
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
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
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*
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
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***	*<0.0025*	*<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
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
Silica (Si02)	***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
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
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
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

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-HGA-4																					
	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
	Month	2	5	8	11	2	5	8	12	3	5	8	11	2	6	8	11	2	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	21	21	20	22	21	21	22	1	0	1	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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*
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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
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
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*
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
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***	0.0027	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
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*
Silica (Si02)	***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
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
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*
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*

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-1-A

		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
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
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
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
Field Parameters:																						
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
Total Purged	***gal***	1	2	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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*
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*
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
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
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*
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
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*	*<0.0010*	*<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*
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*
Silica (Si02)	***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
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
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*
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*

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-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
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
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/
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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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-1-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
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
Sample Date		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/
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
Field Parameters:																						
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													
Temperature	***deg C***	7.0	10.7	12.1	10.1	7.7	12.3	12.7	7.4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
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													
Lab Analytical Results:																						
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 (Si02)	***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

^ **one-time analysis**
Y/N **yes or no**
gpm **gallons per minute**
deg C **degrees Celsius**
SU **standard pH units**
µS/cm **microsiemens per centimeter**
mV **millivolts**
mg/L **milligram per liter**
pCi/L **picocuries per liter**
NM **not measured (field)**
NA **not analyzed (lab)**
ng/L **nanogram per liter**

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

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

GCC Energy Hydrologic Monitoring Data

MW-2-A																					
Year		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
Month		2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
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/
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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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**
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mV	**millivolts**
mg/L	**milligram per liter**
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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
	Month	2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
	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/
	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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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)**
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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
	Month	2	5	8	11	3	6	9	12	3	6	8	11	3	6	8	11	1	5	8	11	2
	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/
	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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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
	Month	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2
	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
	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
Field Parameters:																						
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	0.2	0.2	0.2	0.3	0.2	0.2
Total Purged	***gal***	1	2	2	2	2	2	2	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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*
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
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
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
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*
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
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
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
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
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
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*
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
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*
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
Iron	***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*	0.114	*< 0.100*
Lead	***mg/L***	*<0.0025*	*<.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*
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
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***	*<0.0025*	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
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
Silica (Si02)	***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
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
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*
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*

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-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
Month		2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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	0.1
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
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
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
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
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
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*	7	5	5	5	5	5	*<3.31*	*<3.31*	*<3.31*	*<3.31*	*< 3.31*	5	4	5	6	5	5	5	5	16	20
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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
Iron	*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*	1.520	0.795
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*
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
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*	0.0162	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
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
Silica (Si02)	*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
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
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
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*

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-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
Month		2	5	8	11	2	5	9	12	3	6	8	11	2	6	8	11	2	5	8	11	2
Sample Date		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
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
Field Parameters:																						
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	0.2	0.2	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Silica (Si02)	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
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
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
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

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-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
	Month	2	5	8	11	2	5	9	11	3	6	8	11	2	6	8	11	2	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	1	1	2	1	2	2	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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*
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
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
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*
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*
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
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*
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
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
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*
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*
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*
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*
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
Iron	***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*
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*
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
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***	*<0.0025*	*<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*
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*
Silica (Si02)	***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
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
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*
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

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-4-MI

		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
Month		2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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
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
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
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
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
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*	5	4	5	5	4	4	5	*<3.31*	4	4	*< 3.31*	4	4	5	5	5	5	*< 3.31*	4	5	7
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
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
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
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
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
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
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
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
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
Alkalinity, Hydroxide	*mg/L*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10.0*	*<10*	*< 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
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
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
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
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*
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
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
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*
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
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
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*
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
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*	0.0082	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
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*
Silica (Si02)	*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
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
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
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*

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-4-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
	Month	2	5	8	11	2	5	9	11	3	5	8	11	2	6	8	11	2	5	8	11	2
	Sample Date	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
	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
Field Parameters:																						
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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*
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
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
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
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*
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
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
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*
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
Nitrate/Nitrite as N	***mg/L***	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.040*	*<0.020*	*<0.100*	*<0.020*	*<0.020*	*<0.02*	*< 0.020*	*< 0.020*	0.252	*< 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*
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
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
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
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
Lead	***mg/L***	*<0.0050*	*<0.0025*	*<0.0025*	*<0.0025*	*<0.0025*	*<0.0025*	*<0.0050*	*<0.0025*	*<0.0050*	*<0.005*	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0005*	*< 0.0015*	*< 0.0025*	*< 0.0025*	*< 0.0050*	*< 0.0025*	*< 0.0005*
Manganese	***mg/L***	0.0059	0.0063	0.0050	0.0047	0.0051	0.0046	0.0049	0.0046	*<0.0050*	*<0.005*	*< 0.0050*	*< 0.0050*	0.0067	*< 0.0050*	0.0034	0.0081	0.0041	0.0034	0.0064	0.0059	0.0030
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*
Molybdenum	***mg/L***	*<0.0050*	0.0037	0.0031	0.0031	0.0033	0.0031	0.0036	0.0034	*<0.0050*	*<0.005*	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	0.0028	0.0035	0.0027	*< 0.0025*	0.0118	0.0112	0.0029
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
Silica (Si02)	***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
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
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
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*

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-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
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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
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															
Lab Analytical Results:																						
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 (Si02)	***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
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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**
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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)**
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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
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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*																					
Lab Analytical Results:																						
Hardness as CaCO3	*mg/L*																					
pH (Lab)	*SU*																					
Total Dissolved Solids (Lab)	*mg/L*																					
Calcium	*mg/L*																					
Magnesium	*mg/L*																					
Sodium	*mg/L*																					
Potassium	*mg/L*																					
Alkalinity, Total	*mg/L*																					
Alkalinity, Bicarbonate	*mg/L*																					
Alkalinity, Carbonate	*mg/L*																					
Alkalinity, Hydroxide	*mg/L*																					
Chloride	*mg/L*																					
Fluoride	*mg/L*																					
Sulfate as SO4	*mg/L*																					
Total Organic Carbon (TOC)	*mg/L*																					
Nitrate/Nitrite as N	*mg/L*																					
Aluminum	*mg/L*																					
Arsenic	*mg/L*																					
Cadmium	*mg/L*																					
Copper	*mg/L*																					
Iron	*mg/L*																					
Lead	*mg/L*																					
Manganese	*mg/L*																					
Mercury (dissolved)	*mg/L*																					
Mercury (dissolved low-level)	*ng/L*																					
Molybdenum	*mg/L*																					
Selenium	*mg/L*																					
Silica (Si02)	*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
Month		2	5	8	11	2	5	8	11	3	5	8	11	2	6	8	11	2	5	8	11	2
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
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
Field Parameters:																						
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	0.0	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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
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*
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
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*
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
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*
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*
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
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*	*<0.0025*	*<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
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
Silica (Si02)	*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
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
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*
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*

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-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	Q1
	Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	15	17	17	18	18	17	17	1	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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
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
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
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
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***	0.0006	*<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
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*
Silica (Si02)	***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
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
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
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

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-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
	Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2
	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
	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
Field Parameters:																						
Purge Flow Rate	***gpm***	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.4	0.2	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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
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
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*
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
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*	0.0009	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
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*
Silica (Si02)	***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
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
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
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	0.0227	*< 0.0100*	0.0236	0.0174	0.0164	*< 0.0020*

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-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
	Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	2	3	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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*
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*
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
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*
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*
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
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*	*<0.0010*	*<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*
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
Silica (Si02)	***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
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
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*
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

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-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
	Month	2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2
	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
	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
Field Parameters:																						
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
Total Purged	***gal***	2	2	1	1	1	1	1	NM	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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
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*
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*	2.50	2.41	2.72	2.55
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
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*
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
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*
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*
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*
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*
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
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*
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*
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
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
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*
Silica (Si02)	***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
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
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*
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*

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-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	Q1
Month		2	5	8	11	3	6	9	11	3	6	8	11	3	6	8	11	1	5	8	11	2
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
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
Field Parameters:																						
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
Total Purged	*gal*	2	2	2	2	2	2	2	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
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
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
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
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
Lab Analytical Results:																						
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
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
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
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
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
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
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
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
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
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*
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*
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
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
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
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
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*
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*
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
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*
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
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
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
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
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*	*<0.0005*	*<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*
Selenium	*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*
Silica (Si02)	*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
Silicon	*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
Uranium	*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*
Zinc	*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

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**
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mg/L	**milligram per liter**
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