

## **2024 KING I & II MINES ANNUAL HYDROLOGY REPORT**

Submitted to:

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Date:

December 13, 2024

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## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>INTRODUCTION .....</b>   | <b>3</b>  |
| <b>HYDROLOGIC MONITORING .....</b>                                      | <b>3</b>  |
| HYDROLOGIC MONITORING LOCATIONS .....                                   | 3         |
| HYDROLOGIC MONITORING DATA COLLECTION .....                             | 3         |
| <b>HYDROLOGIC MONITORING DATA ANALYSIS .....</b>                        | <b>5</b>  |
| SURFACE WATER .....   | 5         |
| ALLUVIAL GROUNDWATER .....  | 6         |
| <i>Alluvial Groundwater Quality .....</i>                               | <i>6</i>  |
| <i>Alluvial Groundwater Level .....</i>                                 | <i>8</i>  |
| BEDROCK GROUNDWATER .....   | 8         |
| <i>Bedrock Groundwater Quality – Major Ions .....</i>                   | <i>9</i>  |
| <i>Bedrock Groundwater Quality – Trace Elements .....</i>               | <i>11</i> |
| <i>Bedrock Groundwater Level .....</i>                                  | <i>13</i> |
| <b>REFERENCES .....</b>   | <b>14</b> |
| <b>TABLES .....</b>   | <b>15</b> |
| <b>FIGURES .....</b>  | <b>20</b> |
| <b>ATTACHMENT - GCC HYDROLOGIC MONITORING DATA SUMMARY TABLES .....</b> | <b>44</b> |

## INTRODUCTION

The Annual Hydrology Report is completed at the conclusion of each year to compile and interpret hydrologic data related to GCC Energy's King I and II Mine operations. This satisfies a requirement of the Colorado Department of Reclamation, Mining and Safety (CDRMS) Mining Permit C-1981-035. To best support these efforts, GCC Energy (GCC) maintains a quality assurance/quality control (QA/QC) program to:

- Conduct GCC compliance staff training on water quality sampling for all GCC monitoring locations, equipment and methodologies, with detailed written procedures for each monitoring location provided.
- Collect all water quality field data with an industry-standard multi-parameter device with electronic data deliverable (EDD) output for all field and calibration data.
- Enter and document all water quality field monitoring data by mobile (digital/paperless) field sampling logs specific to surface water, groundwater and spring/seep sampling locations which are automatically distributed to a third party, SLR International Corporation (SLR) for same-day review following sampling.
- Conduct industry-standard, 10% random QA/QC lab sample submittals for duplicate and field blank water quality samples.
- Utilize EDDs produced by the contract environmental analytical laboratory for all data analyses.
- Compile and manage all water quality and level data in a geo-referenced Microsoft Access database.

## HYDROLOGIC MONITORING

### HYDROLOGIC MONITORING LOCATIONS

GCC monitored twenty-seven (27) hydrologic compliance locations in 2024. Additionally, three wells are monitored under an agreement between GCC and the Ute Mountain Ute Tribe (UMUT) and so are discussed here bringing the total number of monitored locations to thirty (30). Three (3) seeps are also monitored voluntarily twice annually, which is during spring runoff and again during late fall baseflow. These locations are represented by three types of water sources: surface water, seeps and groundwater. Groundwater is monitored through sample collection from dedicated monitoring wells and surface water and seeps are monitored by grab samples at designated locations.

**Table 1** lists and **Figure 1** show the total of thirty (30) 2024 routine quarterly hydrologic monitoring locations and their spatial relation to the King I and II Mines.

### HYDROLOGIC MONITORING DATA COLLECTION

Hydrologic monitoring data collection was expanded in December 2018 in number of locations and continued through 2024. Protocols for establishment of new hydrologic monitoring locations, as initiated in 2016, were also applied to these locations. The frequency of field parameter monitoring for new

locations is monthly for a one-year period, following the CDRMS “Guidelines for the Collection of Baseline Water Quality and Overburden Geochemistry Data” (1984). The initial monthly field parameter monitoring schedule is intended to more fully characterize any potential seasonal variation in the hydrologic system. Field parameters are collected with an In-Situ AquaTroll multi-parameter sonde at all location types, utilizing an industry-standard low-flow cell system for the monitoring wells. The specific field parameters monitored during each event are listed in **Tables 2, 3 and 4**. The purpose of the expanded analytical suite was to collect water quality data in line with the CDRMS “Guidelines for the Collection of Baseline Water Quality and Overburden Geochemistry Data” (1984), which were adopted in the Mining Permit Technical Revision-26. Water samples are collected quarterly at compliance monitoring locations for laboratory analysis. Depth to water measurements are also documented for wells, whereas flow rates are measured as applicable for surface water monitoring locations. This baseline data collection period is intended to characterize the pre-mining environmental conditions in order to shape the long-term monitoring plan appropriately to evaluate potential mining effects on the hydrologic system. This was intended as a one-year, four-quarter period to evaluate seasonal changes that may occur over a typical year; however, the baseline laboratory analytical suite analyses have continued through 2024 for all compliance monitoring locations per the mine permit. These laboratory analytical suites are approved by CDRMS in TR-26 and are presented in **Tables 2, 3 and 4**, by water source type. The red-highlighted parameters identify those that were added to the pre-2016 compliance to become the current compliance suite. In 2021, under the advisement of CDRMS, the surface water total mercury laboratory analytical method was updated. Previous to 2021 quarter three, the two compliance surface water sites were analyzed for total mercury by method EPA 245.1, which has a reporting limit by the contract laboratory of 0.0002 mg/L. As this method does not allow measurement to the CDPHE mercury surface water standard for the subject drainage of 0.00001 mg/L (0.01 micrograms per liter [µg/L]), a low-level mercury method is necessary to determine if the mercury standard is being met. These sites were fully transitioned to the low-level method EPA 200.8 in 2023 with the contract laboratory’s reporting limit of 0.00001 mg/L (0.01 µg/L). No total mercury detections have ever been found for the Ditch sites under either method. When the contract laboratory updated their mercury analytical service offerings, the dissolved mercury analyses for the groundwater sites were changed from EPA 245.1 to EPA 245.7, reducing the reporting limit down to 0.0001 mg/L.

Most wet bedrock cluster monitoring wells are instrumented with dedicated industry-standard low-flow bladder pump groundwater sampling systems. The pumps are set to the approximate depth of the well screen mid-points for the A, MI, LM and PL wells, and set to near the bottom of the C wells to allow for micro-purge sampling methodology. See page 9 for an explanation of these abbreviations. The exception is for wells MW-8-MI and MW-8-LM, which have relatively high static and pumping water levels, allowing use of dedicated stainless steel 12-volt electric submersible pumps with the pump or extended pump intake set to the approximate depth of well screen mid-points. The dry bedrock cluster wells (MW-1-MI, MW-2-C, MW-2-A, MW-2-MI, MW-5-A, MW-6-C) are not instrumented with any groundwater sampling pumps and are monitored for water level only. MW-1-MI was instrumented with a bladder pump, however after the initial several sample events this well dried up and has remained dry for the last six years. Prior



to the 2019 quarter four monitoring event the pump system was removed to make the well easier to access as a water level-only monitoring location. Similarly, MW-6-A and MW-6-MI are also currently each instrumented with a bladder pump, however these wells dried up after initial monitoring events following installation and have remained dry through 2024. These wells will continue to be monitored quarterly for water level and if water is detected at either or both, the pump(s) will be operated to attempt to collect a sample for field parameters and laboratory analysis if adequate volume can be collected.

## HYDROLOGIC MONITORING DATA ANALYSIS

Analytical and field parameter data from all 2016-2024 sampling is presented in summary tables in the **Attachment**. Full laboratory reports are not included here as they have been submitted to CDRMS quarterly following each sampling event. The quarterly-updated analytical summary tables found in the **Attachment** are also available in PDF format at:

<https://www.gcc.com/file-type/water-monitoring/>

Water quality results are discussed for samples collected from quarter four of 2023 through quarter three of 2024. A graphical analysis of water quality results from surface water, alluvial aquifer, and bedrock groundwater monitoring stations, is provided below in Stiff diagrams for major ions and in time series plots for selected trace constituents. The natural variability of water quality in bedrock and surface water units is demonstrated in these plots. Although the King Mines have operated for many years, the monitoring data presented within this report are interpreted to represent natural “baseline” water quality. This interpretation is based on comparison of data from monitoring locations upgradient from the mine against data from monitoring locations cross and downgradient from the mine.

**Figures 2 through 3 and 8 through 12** show major ion concentrations at each monitoring site for the last four quarters of monitoring data. Concentrations are given in milli-equivalents (milligrams of solute mass divided by ionic weight and multiplied by ionic charge) per liter so the ionic balance between positive and negative ions can be seen in each analysis. Concentrations of trace elements in alluvial and bedrock groundwater over time are shown in **Figure 4** and **Figures 13 through 18**, respectively.

## SURFACE WATER

The Hay Gulch Ditch is a year-round diversion from the La Plata River to the north of approximately 0.5 to 1.5 cubic feet per second (cfs) into the gulch, which is otherwise an intermittent drainage that would flow only during storms or major thaw events. Water infiltrates from spreader dikes and infiltrates the alluvium, and return flows in the ditch are collected in Mormon Reservoir approximately nine miles downstream of the King II Mine, near the confluence with the lower La Plata River. The Huntington Ditch and Pipeline also divert water from the upper La Plata River to a collection point above Hay Gulch for use by the King II Mine, from which water is consumed by the mine principally for underground dust control

with no waste or return flow. This water has been accounted for entirely as moisture in ventilation air. (CDS Environmental Services LLC 2014)

**Figure 2** shows major ion compositions in Stiff diagrams for the Hay Gulch Ditch Upgradient and Downgradient locations. The location of each sample site is shown on **Figure 1**. The units of concentration are milli-equivalents per liter, at the same scale in the plots. In general, the water type in the ditch is calcium-magnesium-bicarbonate type. The ditch picks up some salinity from the Hay Gulch valley floor in this reach during the spring months, but as documented in previous Annual Hydrology Reports, the receiving Mormon reservoir has substantially greater concentrations of most constituents except bicarbonate (alkalinity).

Measured pH of surface water in Hay Gulch Ditch is near-neutral to alkaline (pH 7.7 to 8.4), with concentrations of anions and trace metals all below the applicable CDPHE regulation 34 surface water standards.

## ALLUVIAL GROUNDWATER

Alluvial groundwater monitoring, previously limited to Hay Gulch, was expanded to include East Alkali Gulch beginning in quarter four of 2018. The purpose of this expansion is for baseline data collection upgradient (MW-7-EAA) and downgradient (MW-8-EAA) of the low-cover crossing (LCC) which allows access from the existing King II Mine underground workings to the coal reserves within the Dunn Ranch lease extension on the west side of East Alkali Gulch, where mining has been active since 2022.

Four alluvial wells in Hay Gulch monitor the level and quality of groundwater in the alluvial aquifer. The Wiltse well, near the King I portal and waste rock site, has been monitored for over forty years, and was once used for water supply in the King I Mine; Well #1 Upgradient was a former water well for a Ute Mountain Ute Tribe homestead of unknown installation date. The other two wells were installed by GCC for King II operational monitoring. Wells #1 Upgradient and #2 Downgradient are above and below the intermittent drainage where the King II portal is located, and MW-HGA-4 is adjacent to the upstream ditch surface water monitoring point, as shown in **Figure 1**.

### Alluvial Groundwater Quality

Alluvial groundwater quality in the Hay Gulch and East Alkali Gulch is spatially and temporally variable. The unconsolidated alluvial sediments in each of these areas are a heterogeneous composition of fine sand, silt, clay, and coal fragments with lenses of channel gravel, resulting in the variable water quality observed. **Figure 3** shows the major ion concentrations at four Hay Gulch and two East Alkali Gulch alluvial wells in Stiff diagrams, in which the spatial variation is evident.

MW-HGA-4 is at the confluence of Roberts Gulch and has similar water chemistry as the Hay Gulch ditch water (**Figure 2**). Well #1 Upgradient and Well #2 Downgradient are also in Hay Gulch below the

King I portal and King II portal, respectively. Alluvial groundwater chemistry in these locations is similar to the chemistry observed in MW-HGA-4, with some minor differences resulting from localized variation in lithology. The low observed calcium concentrations at Well #1 Upgradient are likely from cation exchange occurring from bentonite hydrolysis from the well collar. The alluvial groundwater in the Wiltse well likely results from similar processes, such as the dissolution of gypsum, contributing to the overall dissolved constituent load. Factors influencing the alluvial groundwater chemistry likely include variable alluvium matrix materials (sand-silt-coal fines with coarser channel fill stringers), proximity of coal, and uneven application of irrigation. Because of the potential for greater sulfate concentrations in the Hay Gulch alluvium, as evidenced in the Wiltse well, alluvial groundwater is not widely used for consumption.

Alluvial groundwater chemistry in East Alkali Gulch is monitored at MW-7-EAA and MW-8-EAA. In this area, the sulfate and dissolved solids component in groundwater is greater than in the Hay Gulch alluvium and similar to the observed water quality in the Wiltse well. These observed differences in groundwater quality reflect the heterogeneity of the alluvial sediments and the contributions of localized evaporative salts (e.g., gypsum) to groundwater quality.

Measured pH of alluvial groundwater in Hay Gulch and East Alkali Gulch is near-neutral to slightly alkaline (pH 6.9-7.6), with concentrations of anions and trace constituents below the applicable CDPHE regulation 41 agricultural groundwater standards. Exceptions include iron and manganese exceedances of agricultural groundwater quality standards, 5.0 mg/L and 0.2 mg/L, respectively. Time series plots of iron and manganese concentrations for the alluvial groundwater monitoring locations are shown in **Figure 4**. In Hay Gulch, upgradient locations MW-HGA-4 and Well #1 Upgradient contain the greatest concentrations of iron, and all locations have elevated manganese, although the manganese concentrations reported at MW-7-EAA and MW-8-EAA are notably higher than all other alluvium wells. Elevated iron and manganese concentrations are also observed in East Alkali Gulch alluvium, and generally reflect the interaction of groundwater with the marine shales and sandstone deposits.

Seep-2 and Seep-3 were identified and established as monitoring locations in East Alkali Gulch in 2017 and 2020, respectively. Details of the spring and seep monitoring program are documented in the 2020 Spring & Seep Survey report (RHS 2020). Water chemistry results from Seep-2 and Seep-3 trend with the water quality observed at alluvial groundwater monitoring locations MW-7-EAA and MW-8-EAA (**Figure 3**). Concentrations of iron and manganese observed in the seeps are similar to other downgradient locations (**Figure 4**), in which some exceedances of agricultural water quality standards occur for manganese, but concentrations are less than observed in the upgradient alluvial groundwater locations, indicating decreasing concentrations of trace constituents along flow paths.

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## Alluvial Groundwater Level

Static groundwater levels at all alluvial monitoring wells were measured and documented per CDRMS compliance requirements at the time of each sampling event just prior to initiating well purging. The groundwater hydrograph for the Hay Gulch wells over the entire period of historical record in **Figure 5** shows fairly substantial seasonal variability at all four wells over time which is not only related to variability in precipitation but also subject to the variability in flood irrigation cycles of Hay Gulch irrigated pasture. Water levels show distinct increase with the extreme precipitation of the winter of 2018-2019 with peak levels near ground surface in the spring of 2019. The groundwater hydrograph for East Alkali Gulch in **Figure 6** represents the first six years of monitoring; the fluctuation of the water table measured in both MW-7-EAA and MW-8-EAA was within one foot until the spring of 2023. Quarterly level monitoring in June and August 2023 indicated the level at MW-7-EAA has increased nearly eight feet, and the level at MW-8-EAA has increased approximately four feet. These level increases appear to correspond to a very wet spring which increased infiltration, and thus the saturated thickness of the unconfined East Alkali alluvium. This general trend of increasing levels at MW-7-EAA and MW-8-EAA has continued in 2024. It does appear that MW-7-EAA is slightly more receptive to seasonal groundwater level fluctuation than MW-8-EAA based on the wet and dry season plot peaks. The groundwater level trends observed in East Alkali Gulch contrast those of Hay Gulch, which are quite stable, likely due to seasonal irrigation superimposed over seasonal precipitation trends.

A water table elevation contour map for the alluvium in the vicinity of the King Mines is presented as **Figure 7**. This figure compiles groundwater levels reported on CDWR Well Construction and Test Reports, converted to elevation for the associated water wells. Some of these measurements are from several decades ago, with a subset of the wells utilized in a 1983 USGS Level Survey. A significant portion of these data points are in a separate but adjacent La Plata River watershed, however several alluvial wells in the more relevant Hay Gulch and Alkali Gulch watersheds provide general water table elevation infill data to compliment the GCC compliance wells in these watersheds. The GCC monitoring well groundwater level data utilized in this figure is from August 2024. As **Figure 5** demonstrates with the long record of the Wiltse well, the Hay Gulch alluvial aquifer does not show long-term sustained decrease or increase in groundwater level, only seasonal fluctuation. As previously discussed, Hay Gulch is subject to fairly consistent irrigation water infiltration, which may buffer longer-term drought effects. These values also suggest that the decades-old water level measurements are still useful for the purpose of estimating alluvial groundwater flow gradient. Continued observations in East Alkali Gulch alluvial GCC monitoring wells will build the water table elevation data set to determine if this non-irrigated alluvial aquifer water table level trends differently than the irrigated Hay Gulch alluvium over time.

## BEDROCK GROUNDWATER

Several monitoring sites with wells completed in the mined “A” coal seam, the overlying Cliff House Sandstone, and the immediately underlying strata of the Menefee Formation to which the “A” coal seam

belongs, have been maintained by GCC to provide baseline and compliance water quality information for the operation and extension of the King II mine since 2017. In quarter four of 2018, bedrock monitoring was extended in hydrostratigraphic depth to include the next two deeper water-bearing intervals, the lower Menefee Formation and the underlying Point Lookout Formation. The locations of these wells are shown in **Figure 1**. These wells were named with suffixes as follows:

- “C” for Cliff House
- “A” for mined “A” seam coal
- “MI” for Menefee Interburden denoting the floor rock to the “A” coal seam and interburden between the sometimes present “B” coal seam approximately 90 feet below the “A” seam)
- “LM” for the Lower Menefee which includes water-bearing lesser coal seams including the “B” coal seam where present
- “PL” for the Point Lookout Formation, specifically the uppermost approximate 25 feet.

Ten of twenty-two of these bedrock wells are dry, because groundwater flow in these formations is driven by low infiltration rates on ridges between gulches, and the formations have long been eroded from those gulches. The formations are also intrinsically low permeability. Thus, the mine workings have been largely dry, except where large joints have allowed minor draining of perched lenses of water in the roof. It is precisely this lack of groundwater in the higher coal and overlying strata that led domestic water well drillers to over-drill wells into deeper strata in the surrounding area and it is the carbonate cement supporting the sandstone cliffs that host the Anasazi cliff houses in Mesa Verde that reduce the permeability and cause pockets of low quality “old” water in shallower wells.

The Lower Menefee and Point Lookout hydrostratigraphic intervals were targeted for baseline monitoring in the 2018 monitoring well installation program as these are intervals included in domestic water wells in and around the Vista de Oro subdivision downgradient from the King II Mine Dunn Ranch lease area. Of specific interest is the characterization of the East Alkali Gulch alluvial groundwater recharge to the underlying Menefee bedrock, as this is likely the most significant recharge area for the neighboring water wells. The MW-8 location, which has a cluster of four individual monitoring wells, is approximately 400 feet directly downgradient from the LCC in the bottom of East Alkali Gulch to monitor groundwater level and quality in all significant water-bearing intervals from surface (alluvium) to 310 feet depth (upper Point Lookout) for potential effects of King II Mine operations.

### **Bedrock Groundwater Quality – Major Ions**

Water quality from four Cliff House Formation wells and one seep that emanates from the Cliff House Formation (Seep-1) is represented in Stiff diagrams presented in **Figure 8**. When comparing plots between the Cliff House Formation and alluvial wells, it is important to note the difference in the scale of concentrations (in milli-equivalents per liter) presented, as constituent concentrations are much greater in the Cliff House Formation wells.

Seep-1 was first identified near during the initial spring and seep survey conducted in December 2015 and water quality samples collected during monitoring events when apparent flow was observed. Although flow is periodically observed at this location, measured flows are minimal (approximately 1 gallon per hour) and contributions from this seep are not considered a significant component of surface water flow.

Water quality results in the Cliff House Formation are variable, with cation exchange occurring along flow paths. Sulfate concentrations are also variable, with Seep-1 containing greater concentrations than observed in the monitoring wells. These variations in water chemistry suggest the groundwater in the Cliff House Formation is laterally discontinuous. pH in Cliff House Formation wells and Seep-1 is generally neutral to mildly alkaline (7.4 – 8.3). Wells completed in the Cliff House Formation show the greatest concentrations and most variation in major ion makeup. Seep-1 is dominated by calcium-magnesium and sulfate, MW-1-C and MW-2-C are dry, and MW-3-C, MW-4-C, and MW-5-C are dominated by sodium and bicarbonate. This variability and the elevated concentrations in the Cliff House wells indicate slow-moving (long residence time) water, and some water with variable dissolved oxygen content, leading to the non-uniform oxidation of pyrite in some rock types. In the MW-3-C and MW-4-C wells the sodium and chloride may be residual solutes from the marine barrier sand bars in a tightly cemented, low permeability formation. While there may be differences in the Cliff House rock geochemistry that contribute to these observed water type differences, it is also likely to be related to recharge of a different source or at least a significant difference in distance from the source. It may be that saturated alluvium in the upper reach of East Alkali Gulch is directly overlying and recharging the Cliff House formation in the vicinity of the MW-1 location.

The Menefee Formation is monitored in three distinct intervals in the mine area, namely the upper “A” coal seam, interburden between “A” and “B” coal seams, and the sandstone, coal, and siltstone underburden (lower Menefee). Major ion chemistry for groundwater wells completed in each of these intervals are shown in Stiff diagrams presented as **Figures 9 through 11**, respectively. Menefee Formation groundwater is characterized by neutral to alkaline pH (7.0 - 9.0) and generally of sodium-bicarbonate type. Water quality in the “A” coal seam and Menefee Formation interburden are similar in composition.

Monitoring wells completed in the mined “A” coal seam show dominant sodium, and sulfate with lesser bicarbonate (**Figure 9**). Calcium is replaced by sodium through cation exchange on clay minerals in shales. Total dissolved concentrations in “A” wells are less than half those in overlying Cliff House wells. The MW-1 location at the upgradient north end of the ridge overlying the King II workings has a Cliff House and a coal well with some limited water, and a dry sub-coal Menefee Interburden well.

Major ion concentrations of the Menefee Interburden wells are shown as Stiff plots in **Figure 10**. MW-8-MI is completed in East Alkali Gulch just downgradient from significant alluvial recharge; the well is screened across the first bedrock water encountered.



Groundwater monitoring of the lower Menefee Formation is limited to MW-6-LM, located on a ridge top above and cross-gradient of East Alkali Gulch, and MW-8-LM, which is completed in East Alkali Gulch. Observed differences between the magnesium -sulfate groundwater type at MW-6-LM and the sodium-bicarbonate type at MW-8-LM illustrate the chemical discontinuity in these low permeability groundwater lenses located in minor coal seams and minor fractured intervals (**Figure 11**). As described above, major ion chemistry at MW-6-LM is likely derived from a source of recharge to the Menefee Formation that is unique to that location possibly along West Alkali Gulch and has a composition similar to the alluvial groundwater noted in East Alkali Gulch.

The Point Lookout Formation water quality in the vicinity of the King II Mine is represented by the monitoring well MW-8-PL. **Figure 12** shows the major ion chemistry from the last 4 quarters of monitoring on a Stiff diagram. Point Lookout groundwater in this location is of neutral pH (7.3 - 7.7) and bicarbonate dominant.

Anion concentrations in bedrock groundwater were below the applicable CDPHE regulation 41 agricultural groundwater standards, with the exception of fluoride (standard = 2.0 mg/L) at MW-3-C, MW-4-C, MW-4-MI, MW-5-C, and MW-8-LM.

### **Bedrock Groundwater Quality – Trace Elements**

Concentrations of selected trace constituents are discussed in this section and shown as time-series plots in **Figures 13 through 18**. Detections for the following constituents were observed in bedrock groundwater monitoring wells: arsenic, cadmium, copper, iron, manganese, molybdenum, selenium, uranium, and zinc. These constituents occur in natural waters and can be elevated in groundwater associated with marine sandstones and shales.

Arsenic is present as a minor constituent in bedrock and is sometimes associated with pyrite. During pyrite oxidation, arsenic is typically absorbed, at least in part, and immobilized with iron oxide/hydroxide precipitation. Arsenic concentrations in Cliff House wells MW-3-C and MW-4-C have reported relatively higher concentrations than other bedrock wells since 2021, while remaining below the agricultural groundwater standard. The presence of arsenic at these locations is consistent with unconfined, fractured sandstone aquifers, where residence times are typically long. As shown in **Figure 13**, arsenic in “A” seam coal wells is at very low concentrations. In contrast, the majority of the Menefee Interburden wells contain variable concentrations of arsenic, with historical (pre-2020) concentrations approaching 0.25 mg/L and recent (2021 to present) concentrations generally below 0.15 mg/L, while remaining below the agricultural groundwater standard in all samples. The widespread occurrence of arsenic in these wells may suggest it is disseminated throughout in the Menefee Formation and may be associated with mineral phases in addition to pyrite.

Copper is likely to be present as a trace constituent and is sometimes associated with pyrite in bedrock. Concentrations of copper in all bedrock groundwater units was low, and no exceedances of the agricultural groundwater standard were observed over the period of record.

Iron and manganese are common trace metals observed in the regional rock types near the mine. Iron is commonly sourced from pyrite in the Mesaverde strata which oxidizes in the weathering zone. Generally, the oxidized iron will precipitate in the oxidation zone and dissolved concentrations of trace constituents under neutral pH conditions are low. Concentrations of iron in bedrock groundwater through time are plotted in **Figure 14**. In general, the greatest concentrations of iron were observed in MW-6-A and MW-1-C, which have been dry since 2022 and MW-4-C.

Manganese is typically derived from similar processes of pyrite oxidation as a minor constituent in groundwater. Concentrations of manganese appear to be decreasing and stabilizing through time, such as observed in the lower Menefee Formation well MW-6-LM and the Point Lookout Formation well MW-8-PL (**Figure 15**).

There is no agricultural groundwater standard for molybdenum, although the EPA has set a health-based advisory limit of 0.04 mg/L. No exceedances of the health-based advisory have occurred in any well since December of 2018 at MW-6-LM (**Figure 16**). Concentrations of selenium have been similar to the agricultural groundwater standard at wells MW-3-C, MW-4-C, MW-3A, and MW-8-MI since 2020, with intermittent exceedances, while exceedances are generally not observed in any other monitoring wells in recent years, with the exception of one exceedance noted in the June 2024 sample at MW-6-LM of 0.024 mg/L (**Figure 17**). However, the most recent sample collected from MW-6-LM did not contain detectable concentrations of selenium.

Concentrations of uranium are presented in **Figure 18**. Uranium is a trace constituent commonly present in groundwater of the Four Corners regional area, an area known for elevated levels of naturally-present uranium and thus where historical uranium mining has occurred since the 1950s. Uranium is typically mobilized under oxic groundwater conditions and is immobilized as conditions become more reducing. Historical concentrations (pre-2018) of uranium were relatively greater in Cliff House Formation wells MW-4-C, and to a lesser extent, MW-1-C, as compared to all other sample records. In both locations, concentrations have continued to decrease through time and uranium concentrations at all wells appear stable.

Zinc is present as a trace constituent and is sometimes associated with pyrite in marine deposits. Concentrations of zinc measured in GCC groundwater monitoring wells were low, with no exceedances of the agricultural groundwater standard at any well.



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## Bedrock Groundwater Level

Groundwater potentiometric surface contour maps utilizing August 2024 measured levels have been prepared for each monitored hydrostratigraphic interval and are presented as **Figures 19-23**. No significant change to the groundwater potentiometric elevations occurred in 2024, with the exception again of the Cliff House Formation in the northeast portion of the mine permit area, which is discussed below. Contouring is only possible for intervals that include three or more monitoring locations, so the “LM” and “PL” figures do not include contours to indicate groundwater flow direction or gradient. Regardless, it is expected that regional flow direction in these intervals is south-southwest in the direction of strata dip, as documented in the overlying three hydrostratigraphic intervals. Groundwater flow gradient appears to be approximately 100 feet per mile (1.9% or 1.1°) for all intervals, which is about 1/3 to 1/2 of the strata dip. The King II Mine permit area is an excellent demonstration of the natural hydraulics in play to create and sustain a multiple bedrock aquifer system in an arid basin. Dry unsaturated (vadose) rock is present at the upland outcrop basin margin areas; water infiltration must pass through initially unconfined fractured networks filling fractures and pore space while displacing gases, and then finally into fully confined conditions with increased depth towards the central part of the basin. When the head pressure observed at any given point in the aquifer is greater than the equivalent distance from ground surface to the top of that aquifer then the aquifer is defined as confined. Significant recharge areas, inferred by buried bedrock exposure to overlying saturated alluvium, are also displayed in these figures.

Groundwater levels, as measured from wellheads during routine compliance monitoring, are converted to measured depth below ground surface and given in the GCC Hydrologic Monitoring Summary Tables, provided in this report as the **Attachment**.

As shown in the GCC Hydrologic Monitoring Summary Tables, provided in this report as the **Attachment**, as well as **Figure 19**, the measured static water levels at MW-1-C found this well dry throughout 2024, while the MW-5-C well rewetted in 2024. It is reasonable to assess that ongoing regional drought has continued to limit available infiltration of precipitation and runoff, thus preventing adequate recharge to maintain a Cliff House aquifer in this area, however somewhat more precipitation in the winter of 2023-2024 allowed more Cliff house recharge and thus re-wetting of MW-5-C. As can be seen in **Figure 19**, the mapped topography in this area documents steep canyons generally to the east and west of MW-1-C and MW-5-C which substantially reduce the volume of available Cliff House Formation that could be subject to otherwise upgradient groundwater flow paths. This combined with the Cliff House Formation being the uppermost bedrock unit in the mine permit area, contributes to this portion of the aquifer being more susceptible to drought than downgradient locations such as MW-3-C and MW-4-C.

## REFERENCES

Colorado Department of Public Health and Environment, Water Quality Control Commission, 2020, Regulation No. 41 – The Basic Standards for Groundwater, 5 CCR 1002-41. June 30.

Colorado Department of Public Health and Environment, Water Quality Control Commission, 2023, Regulation No. 34 – Classification and Numeric Standards for San Juan River and Delores River Basins, 5 CCR 1002-34. December 31.

Colorado Mined Land Reclamation Division, Coal Section, 1982, Guidelines for the Collection of Baseline Water Quality and Overburden Geochemistry Data. September 16.

CDS Environmental Services (CDS), LLC, 2013, Final Report – Analytical Activities in Response to Neighborhood Comments. Durango, CO.

CDS Environmental Services (CDS), LLC, 2014, Water Balance Study for the King II Mine in Response to Neighborhood Comments. Durango, CO.

Resource Hydrogeologic Services, Inc., 2016. King I & II Coal Mine Area Hydrologic Study. Durango, CO.

Resource Hydrogeologic Services, Inc., 2020. 2020 Spring & Seep Survey, King II Mine Dunn Ranch, LBA, La Plata County, Colorado. Durango, CO

## TABLES

**Table 1. GCC Quarterly Hydrologic Monitoring Locations**

| Monitoring Location ID       | Water Resource Monitored                     | UTM NAD 83<br>Zone 13N<br>Easting<br>(meters) | UTM NAD 83<br>Zone 13N<br>Northing<br>(meters) | Surface<br>Elevation<br>(ft amsl) |
|------------------------------|--|---|--|-----------------------------------|
| Wiltse Well                  | Groundwater - Alluvial Hay Gulch             | 757024.673                                    | 4126948.393                                    | 7372.0                            |
| Well #1 Upgradient           | Groundwater - Alluvial Hay Gulch             | 755543.611                                    | 4126352.130                                    | 7254.0                            |
| Well # 2 Downgradient        | Groundwater - Alluvial Hay Gulch             | 754164.863                                    | 4125282.984                                    | 7174.8                            |
| MW-HGA-4                     | Groundwater - Alluvial Hay Gulch             | 757641.447                                    | 4127453.016                                    | 7410.5                            |
| MW-1-C                       | Groundwater - Bedrock Cliff House overburden | 757690.096                                    | 4131037.627                                    | 8519.8                            |
| MW-1-A                       | Groundwater - Bedrock "A" coal seam          | 757693.395                                    | 4131042.883                                    | 8520.4                            |
| MW-1-MI                      | Groundwater - Bedrock Menefee interburden    | 757696.625                                    | 4131048.193                                    | 8520.8                            |
| MW-2-C                       | Groundwater - Bedrock Cliff House overburden | 755125.962                                    | 4126776.758                                    | 7711.7                            |
| MW-2-A                       | Groundwater - Bedrock "A" coal seam          | 755128.957                                    | 4126781.777                                    | 7713.0                            |
| MW-2-MI                      | Groundwater - Bedrock Menefee interburden    | 755132.894                                    | 4126786.834                                    | 7713.5                            |
| MW-3-C                       | Groundwater - Bedrock Cliff House overburden | 752333.836                                    | 4124416.003                                    | 7416.6                            |
| MW-3-A                       | Groundwater - Bedrock "A" coal seam          | 752337.515                                    | 4124420.823                                    | 7416.6                            |
| MW-3-MI                      | Groundwater - Bedrock Menefee interburden    | 752341.458                                    | 4124425.586                                    | 7416.3                            |
| MW-4-C                       | Groundwater - Bedrock Cliff House overburden | 752098.476                                    | 4125629.241                                    | 7568.8                            |
| MW-4-A                       | Groundwater - Bedrock "A" coal seam          | 752101.678                                    | 4125634.068                                    | 7569.5                            |
| MW-4-MI                      | Groundwater - Bedrock Menefee interburden    | 752105.037                                    | 4125639.328                                    | 7569.7                            |
| MW-5-A                       | Groundwater - Bedrock "A" coal seam          | 757132.319                                    | 4130205.100                                    | 8407.4                            |
| MW-5-C                       | Groundwater - Bedrock Cliff House overburden | 757128.949                                    | 4130200.072                                    | 8407.1                            |
| MW-5-MI                      | Groundwater - Bedrock Menefee interburden    | 757135.778                                    | 4130210.290                                    | 8407.7                            |
| MW-6-C                       | Groundwater - Bedrock Cliff House overburden | 752322.705                                    | 4127770.537                                    | 7879.0                            |
| MW-6-A                       | Groundwater - Bedrock "A" coal seam          | 752319.364                                    | 4127765.472                                    | 7879.0                            |
| MW-6-MI                      | Groundwater - Bedrock Menefee interburden    | 752315.858                                    | 4127760.196                                    | 7878.0                            |
| MW-6-LM                      | Groundwater - Bedrock Lower Menefee          | 752312.834                                    | 4127755.333                                    | 7878.0                            |
| MW-7-EAA                     | Groundwater - Alluvial East Alkali Gulch     | 753001.888                                    | 4127319.951                                    | 7460.0                            |
| MW-8-EAA                     | Groundwater - Alluvial East Alkali Gulch     | 752916.895                                    | 4127107.544                                    | 7440.0                            |
| MW-8-MI                      | Groundwater - Bedrock Menefee interburden    | 752912.969                                    | 4127110.290                                    | 7447.0                            |
| MW-8-LM                      | Groundwater - Bedrock Lower Menefee          | 752908.636                                    | 4127106.081                                    | 7446.0                            |
| MW-8-PL                      | Groundwater - Bedrock Point Lookout          | 752904.413                                    | 4127101.783                                    | 7445.0                            |
| Hay Gulch Ditch Downgradient | Surface Water - Irrigation ditch             | 754376.015                                    | 4125623.299                                    | 7210.0                            |
| Hay Gulch Ditch Upgradient   | Surface Water - Irrigation ditch             | 757636.698                                    | 4127606.813                                    | 7430.0                            |

**Table 2.**

## GCC Surface Water Baseline Water Quality Parameter Suite (GCC SW Baseline)

| Parameter                                 | Analytical Method | Units | Justification for Addition   | Comments  |
|---|-------------------|-------|--|---|
| Potassium (K) - dissolved                 | EPA200.7          | mg/L  | Rounding out major ion constituents with K, Cl will allow for better interpretation with trilinear plotting    |   |
| Chloride (Cl <sup>-</sup> )               | EPA300.0          | mg/L  |  |   |
| Calcium (Ca <sup>2+</sup> ) - dissolved   | EPA200.7          | mg/L  |  |   |
| Magnesium (Mg <sup>2+</sup> ) - dissolved | EPA200.7          | mg/L  |  |   |
| Sodium (Na <sup>+</sup> ) - dissolved     | EPA200.7          | mg/L  |  |   |
| Sulfate (SO <sub>4</sub> )                | EPA300.0          | mg/L  |  |   |
| Alkalinity, as CaCO <sub>3</sub>          | 2320 B            | mg/L  |  |   |
| Silica (SiO <sub>2</sub> ) - dissolved    | Calculation       | mg/L  | Allows comparison of TDS vs. sum of major ions   |   |
| Manganese (Mn) - dissolved                | EPA200.8          | mg/L  |  |   |
| Fluoride (F)                              | EPA300.0          | mg/L  | Secondary ion that has been identified with minor potential nuisance value                                     |   |
| Iron (Fe) - dissolved                     | EPA200.7          | mg/L  |  |   |
| Aluminum (Al) - dissolved                 | EPA200.7          | mg/L  |  |   |
| Arsenic (As) - dissolved                  | EPA200.8          | mg/L  |  |   |
| Cadmium (Cd) - dissolved                  | EPA200.8          | mg/L  |  |   |
| Copper (Cu) - dissolved                   | EPA200.8          | mg/L  |  |   |
| Lead (Pb) - dissolved                     | EPA200.8          | mg/L  | Trace metals commonly associated with coal mining impacts  |   |
| Mercury (Hg) - total, low-level           | EPA200.8          | µg/L  |  | Method updated from EPA245.1 in 2021Q3                                    |
| Molybdenum (Mo) - dissolved               | EPA200.8          | mg/L  |  |   |
| Selenium (Se) - dissolved                 | EPA200.8          | mg/L  |  |   |
| Zinc (Zn) - dissolved                     | EPA200.8          | mg/L  |  |   |
| Uranium (U) - dissolved                   | EPA200.8          | mg/L  | DRMS request via HGCAP   |   |
| Hardness, as CaCO <sub>3</sub>            | 2340 B            | mg/L  |  |   |
| Bicarbonate, as CaCO <sub>3</sub>         | 2320 B            | mg/L  |  |   |
| Carbonate, as CaCO <sub>3</sub>           | 2320 B            | mg/L  |  |   |
| Hydroxide, as CaCO <sub>3</sub>           | 2320 B            | mg/L  |  |   |
| Total Nitrogen as Nitrate-Nitrite         | EPA353.2          | mg/L  | Distinguish fertilizer and/or stock impacts  |   |
| Ammonia (NH <sub>3</sub> as N)            | EPA350.1          | mg/L  | Distinguish fertilizer and/or stock impacts  | 1-time only to establish presence/absence, SW and Alluvial GW sites only  |
| Phosphate (PO <sub>4</sub> as P)          | EPA300.0          | mg/L  | Distinguish fertilizer and/or stock impacts  | 1-time only to establish presences/absence, SW and Alluvial GW sites only |
| Sodium Adsorption Ratio (SAR)             | Calculation       | mg/L  | Measure of suitability for agricultural irrigation   |   |
| Oil & Grease                              | EPA1664 A         | mg/L  | Indication of background/upstream impacts  |   |
| pH (lab)                                  | EPA150.1          | SU    |  |   |
| Total Dissolved Solids (TDS)              | EPA160.1          | mg/L  |  |   |
| Total Suspended Solids (TSS)              | 2540 D            | mg/L  | Provides mass of particulates causing turbidity  |   |
| Total Organic Carbon (TOC)                | 5310C             | mg/L  | Surrogate parameter for coal mining impacts  |   |
| Temperature (field)                       | NA                | °C    |  |   |
| pH (field)                                | NA                | SU    | Allows comparison of field vs. lab measurements, key for proper bicarbonate, carbonate, hydroxide calculations |   |
| Specific Conductivity (field)             | NA                | mS/cm |  |   |
| Oxygen Reduction Potential (ORP) (field)  | NA                | mV    | To predict states of chemical speciation of water, i.e. dissolved metals                                       |   |
| Dissolved Oxygen (DO) (field)             | NA                | mg/L  | General water quality parameter to document available oxygen   |   |
| Flow Rate (field, ditch only)             | NA                | cfs   |  |   |

## Notes:

New (2016) analytes in bold, italicized red text

mg/L = milligrams per liter

SU = standard units

mS/cm millisiemens per centimeter

cfs = cubic feet per second

mV = millivolt

NA = not applicable

**Table 3.**

## GCC Groundwater Baseline Water Quality Parameter Suite (GCC GW Baseline)

| Parameter                                       | Analytical Method  | Units       | Justification for Addition  | Comments   |
|---|--------------------|-------------|---|--|
| <i>Potassium (K) - dissolved</i>                | <i>EPA200.7</i>    | <i>mg/L</i> | <i>Rounding out major ion constituents with K, Cl will allow for better interpretation with trilinear plotting</i>    |  |
| <i>Chloride (Cl<sup>-</sup>)</i>                | <i>EPA300.0</i>    | <i>mg/L</i> |   |  |
| Calcium (Ca <sup>2+</sup> ) - dissolved         | EPA200.7           | mg/L        |   |  |
| Magnesium (Mg <sup>2+</sup> ) - dissolved       | EPA200.7           | mg/L        |   |  |
| Sodium (Na <sup>+</sup> ) - dissolved           | EPA200.7           | mg/L        |   |  |
| Sulfate (SO <sub>4</sub> )                      | EPA300.0           | mg/L        |   |  |
| Alkalinity, as CaCO <sub>3</sub>                | 2320 B             | mg/L        |   |  |
| <i>Silica (SiO<sub>2</sub>) - dissolved</i>     | <i>Calculation</i> | <i>mg/L</i> | <i>Allows comparison of TDS vs. sum of major ions</i>   |  |
| Manganese (Mn) - dissolved                      | EPA200.8           | mg/L        |   |  |
| <i>Fluoride (F)</i>                             | <i>EPA300.0</i>    | <i>mg/L</i> | <i>Secondary ion that has been identified with minor potential nuisance value</i>                                     |  |
| Iron (Fe) - dissolved                           | EPA200.7           | mg/L        | <i>Trace metals commonly associated with coal mining impacts</i>  |  |
| <i>Aluminum (Al) - dissolved</i>                | <i>EPA200.7</i>    | <i>mg/L</i> |   |  |
| <i>Arsenic (As) - dissolved</i>                 | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Cadmium (Cd) - dissolved</i>                 | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Copper (Cu) - dissolved</i>                  | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Lead (Pb) - dissolved</i>                    | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Mercury (Hg) - dissolved</i>                 | <i>EPA245.1</i>    | <i>mg/L</i> |   |  |
| <i>Molybdenum (Mo) - dissolved</i>              | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Selenium (Se) - dissolved</i>                | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Zinc (Zn) - dissolved</i>                    | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Uranium (U) - dissolved</i>                  | <i>EPA200.8</i>    | <i>mg/L</i> | <i>DRMS request via HGCAP</i>   |  |
| Hardness, as CaCO <sub>3</sub>                  | 2340 B             | mg/L        |   |  |
| Bicarbonate, as CaCO <sub>3</sub>               | 2320 B             | mg/L        |   |  |
| Carbonate, as CaCO <sub>3</sub>                 | 2320 B             | mg/L        |   |  |
| Hydroxide, as CaCO <sub>3</sub>                 | 2320 B             | mg/L        |   |  |
| <i>Total Nitrogen as Nitrate-Nitrite</i>        | <i>EPA353.2</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  |  |
| <i>Ammonia (NH<sub>3</sub>)</i>                 | <i>EPA350.1</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  | <i>1-time only to establish presence/absence, SW and Alluvial GW sites only</i>  |
| <i>Phosphate (PO<sub>4</sub> as P)</i>          | <i>EPA300.0</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  | <i>1-time only to establish presences/absence, SW and Alluvial GW sites only</i> |
| pH (lab)  | EPA150.1           | SU          |   |  |
| Total Dissolved Solids (TDS)                    | EPA160.1           | mg/L        |   |  |
| <i>Total Organic Carbon (TOC)</i>               | <i>5310C</i>       | <i>mg/L</i> | <i>Surrogate parameter for coal mining impacts</i>  |  |
| Temperature (field)                             | NA                 | °C          |   |  |
| <i>pH (field)</i>                               | <i>NA</i>          | <i>SU</i>   | <i>Allows comparison of field vs. lab measurements, key for proper bicarbonate, carbonate, hydroxide calculations</i> |  |
| Specific Conductivity (field)                   | NA                 | mS/cm       |   |  |
| <i>Oxygen Reduction Potential (ORP) (field)</i> | <i>NA</i>          | <i>mV</i>   | <i>To predict states of chemical speciation of water, i.e. dissolved metals</i>                                       |  |
| Depth to Water (field, wells only)              | NA                 | feet        |   |  |

## Notes:

New (2016) analytes in bold, italicized red text

mg/L = milligrams per liter

SU = standard units

mS/cm millisiemens per centimeter

gpm = gallons per minute

mV = millivolt

NA = not applicable

**Table 4.**

## GCC Spring &amp; Seep Baseline Water Quality Parameter Suite (GCC S&amp;S Baseline)

| Parameter                                       | Analytical Method  | Units       | Justification for Addition  | Comments   |
|---|--------------------|-------------|---|--|
| <i>Potassium (K) - dissolved</i>                | <i>EPA200.7</i>    | <i>mg/L</i> | <i>Rounding out major ion constituents with K, Cl will allow for better interpretation with trilinear plotting</i>    |  |
| <i>Chloride (Cl<sup>-</sup>)</i>                | <i>EPA300.0</i>    | <i>mg/L</i> |   |  |
| Calcium (Ca <sup>2+</sup> ) - dissolved         | EPA200.7           | mg/L        |   |  |
| Magnesium (Mg <sup>2+</sup> ) - dissolved       | EPA200.7           | mg/L        |   |  |
| Sodium (Na <sup>+</sup> ) - dissolved           | EPA200.7           | mg/L        |   |  |
| Sulfate (SO <sub>4</sub> )                      | EPA300.0           | mg/L        |   |  |
| Alkalinity, as CaCO <sub>3</sub>                | 2320 B             | mg/L        |   |  |
| <i>Silica (SiO<sub>2</sub>) - dissolved</i>     | <i>Calculation</i> | <i>mg/L</i> | <i>Allows comparison of TDS vs. sum of major ions</i>   |  |
| Manganese (Mn) - dissolved                      | EPA200.8           | mg/L        |   |  |
| <i>Fluoride (F)</i>                             | <i>EPA300.0</i>    | <i>mg/L</i> | <i>Secondary ion that has been identified with minor potential nuisance value</i>                                     |  |
| Iron (Fe) - dissolved                           | EPA200.7           | mg/L        | <i>Trace metals commonly associated with coal mining impacts</i>  |  |
| <i>Aluminum (Al) - dissolved</i>                | <i>EPA200.7</i>    | <i>mg/L</i> |   |  |
| <i>Arsenic (As) - dissolved</i>                 | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Cadmium (Cd) - dissolved</i>                 | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Copper (Cu) - dissolved</i>                  | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Lead (Pb) - dissolved</i>                    | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Mercury (Hg) - dissolved</i>                 | <i>EPA245.1</i>    | <i>mg/L</i> |   |  |
| <i>Molybdenum (Mo) - dissolved</i>              | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Selenium (Se) - dissolved</i>                | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Zinc (Zn) - dissolved</i>                    | <i>EPA200.8</i>    | <i>mg/L</i> |   |  |
| <i>Uranium (U) - dissolved</i>                  | <i>EPA200.8</i>    | <i>mg/L</i> | <i>DRMS request via HGCAP</i>   |  |
| Hardness, as CaCO <sub>3</sub>                  | 2340 B             | mg/L        |   |  |
| Bicarbonate, as CaCO <sub>3</sub>               | 2320 B             | mg/L        |   |  |
| Carbonate, as CaCO <sub>3</sub>                 | 2320 B             | mg/L        |   |  |
| Hydroxide, as CaCO <sub>3</sub>                 | 2320 B             | mg/L        |   |  |
| <i>Total Nitrogen as Nitrate-Nitrite</i>        | <i>EPA353.2</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  |  |
| <i>Ammonia (NH<sub>3</sub>)</i>                 | <i>EPA350.1</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  | <i>1-time only to establish presence/absence, SW and Alluvial GW sites only</i>  |
| <i>Phosphate (PO<sub>4</sub> as P)</i>          | <i>EPA300.0</i>    | <i>mg/L</i> | <i>Distinguish fertilizer and/or stock impacts</i>  | <i>1-time only to establish presences/absence, SW and Alluvial GW sites only</i> |
| <i>Sodium Adsorption Ratio (SAR)</i>            | <i>Calculation</i> | <i>mg/L</i> | <i>Measure of suitability for agricultural irrigation</i>   |  |
| pH (lab)  | EPA150.1           | SU          |   |  |
| Total Dissolved Solids (TDS)                    | EPA160.1           | mg/L        |   |  |
| <i>Total Organic Carbon (TOC)</i>               | <i>5310C</i>       | <i>mg/L</i> | <i>Surrogate parameter for coal mining impacts</i>  |  |
| Temperature (field)                             | NA                 | °C          |   |  |
| <i>pH (field)</i>                               | <i>NA</i>          | <i>SU</i>   | <i>Allows comparison of field vs. lab measurements, key for proper bicarbonate, carbonate, hydroxide calculations</i> |  |
| Specific Conductivity (field)                   | NA                 | mS/cm       |   |  |
| <i>Oxygen Reduction Potential (ORP) (field)</i> | <i>NA</i>          | <i>mV</i>   | <i>To predict states of chemical speciation of water, i.e. dissolved metals</i>                                       |  |
| Flow Rate (field, spring/seep only)             | NA                 | gpm         |   |  |

## Notes:

New (2016) analytes in bold, italicized red text

mg/L = milligrams per liter

SU = standard units

mS/cm millisiemens per centimeter

gpm = gallons per minute

mV = millivolt

NA = not applicable

## FIGURES



Figure 1. GCC 2024 hydrologic monitoring locations.

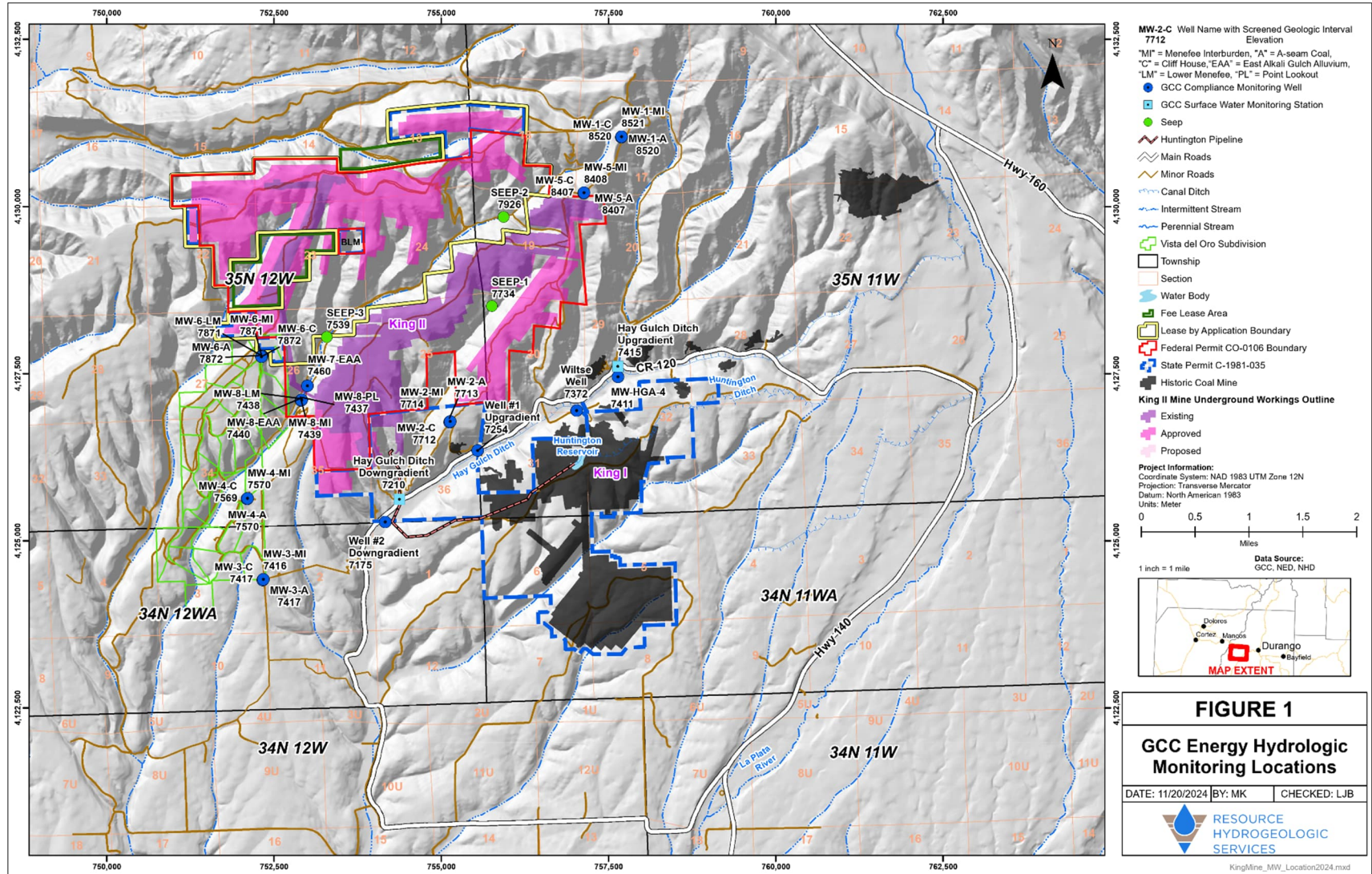


Figure 2. Major ions in Hay Gulch Ditch Upgradient and Downgradient samples from water year 2024.

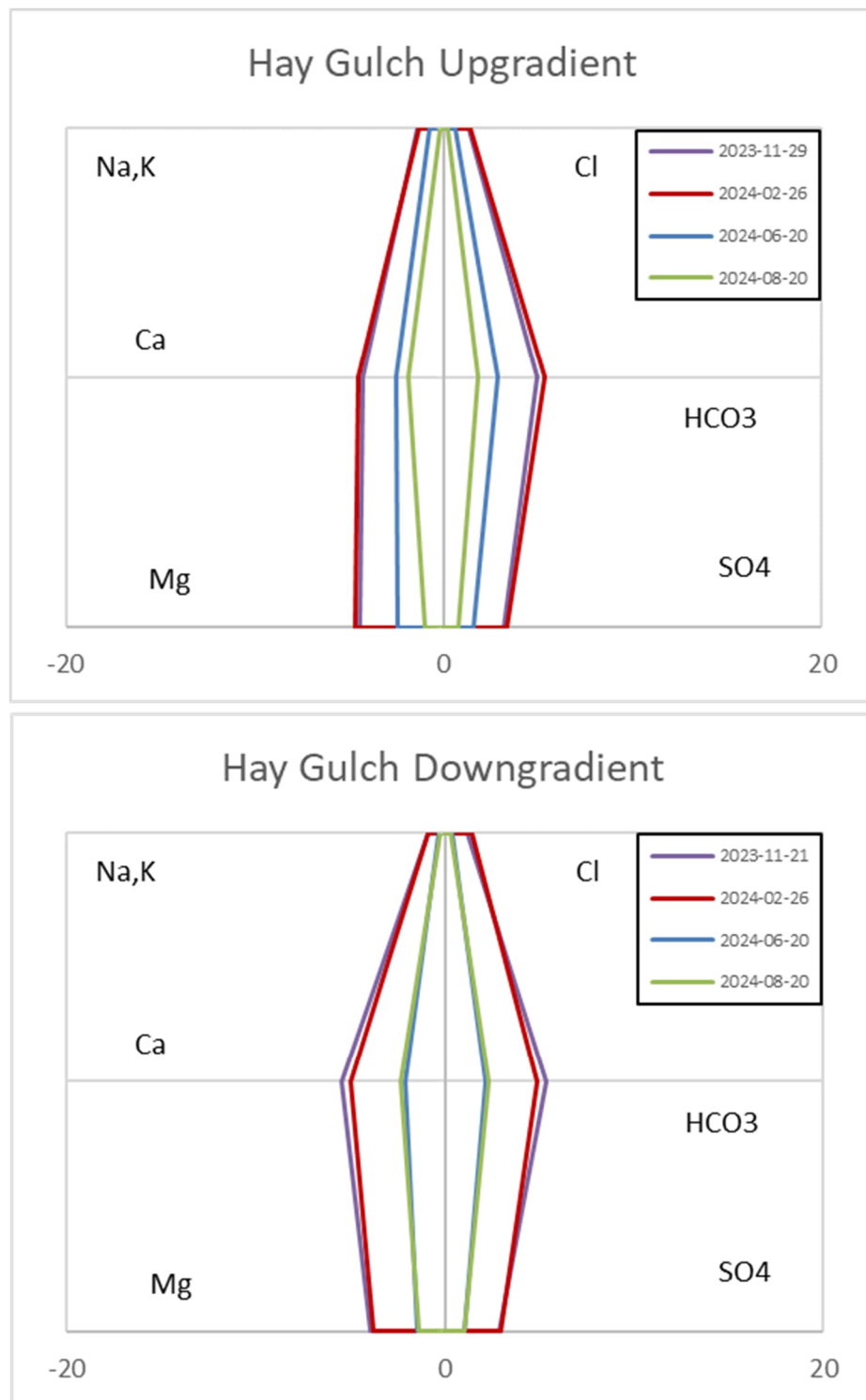
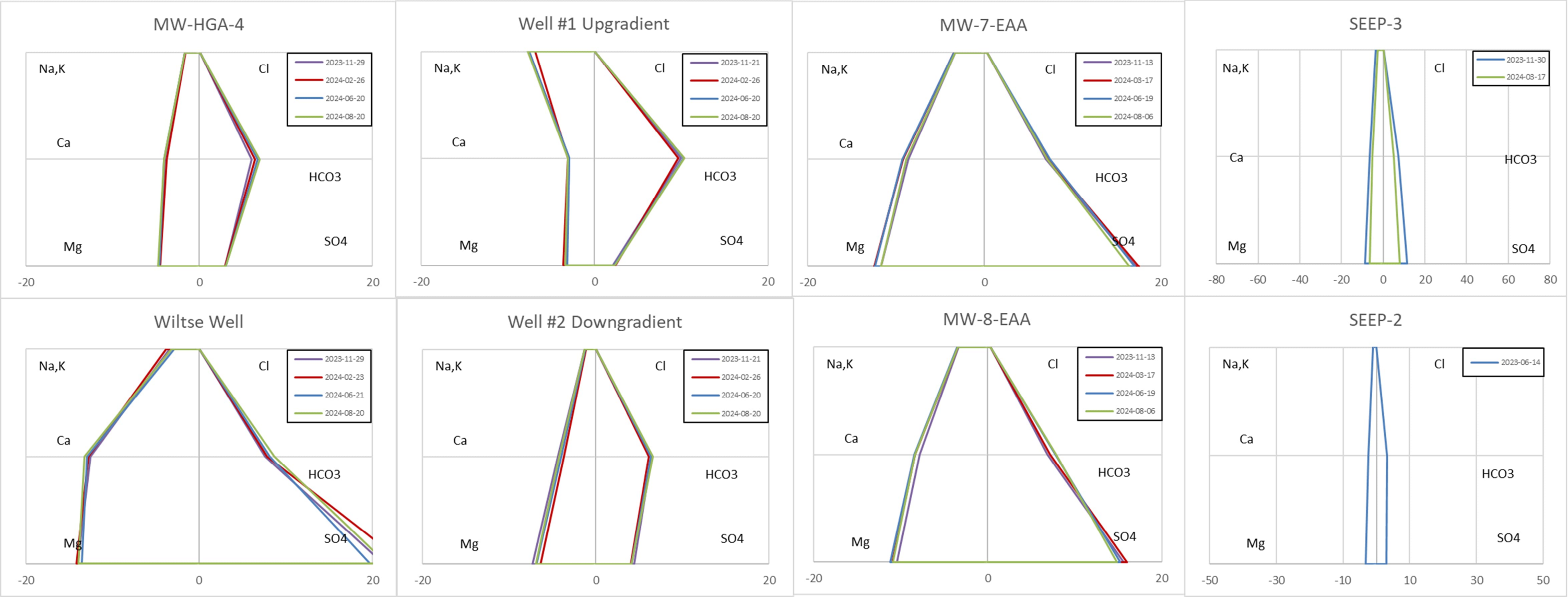
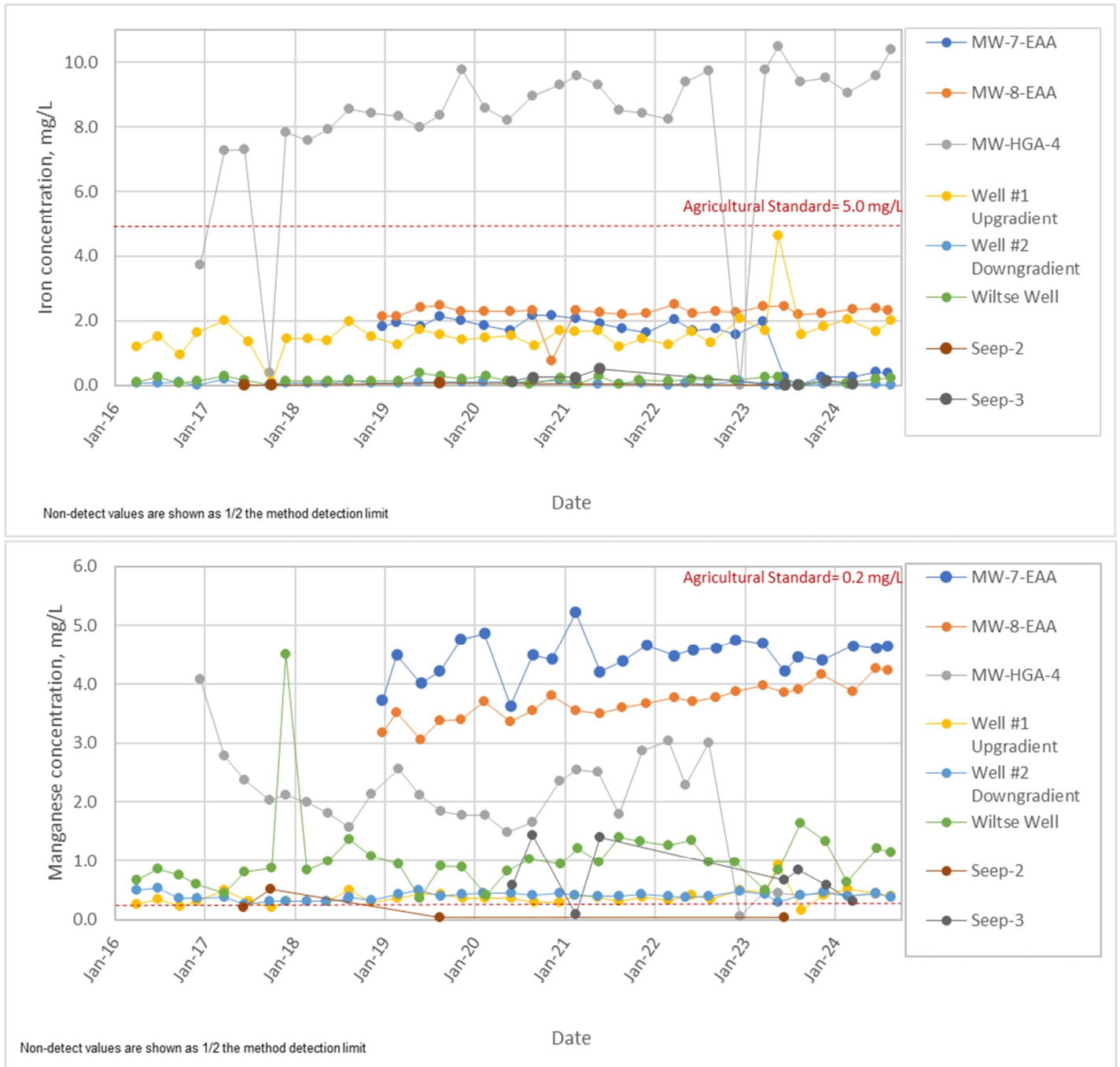


Figure 3. Major ions in Hay Gulch alluvial groundwater up and downgradient of the King I portal (left), up and downgradient of the King II portal (center left), in East Alkali Gulch alluvial groundwater up and downgradient of the King II low-cover crossing (center right), and from two seeps upgradient of the proposed low-cover crossing in East Alkali Gulch (right) for 2024. Note that Seep-2 was dry in 2024, so the 2023 Quarter 2 plot is shown here for comparison.

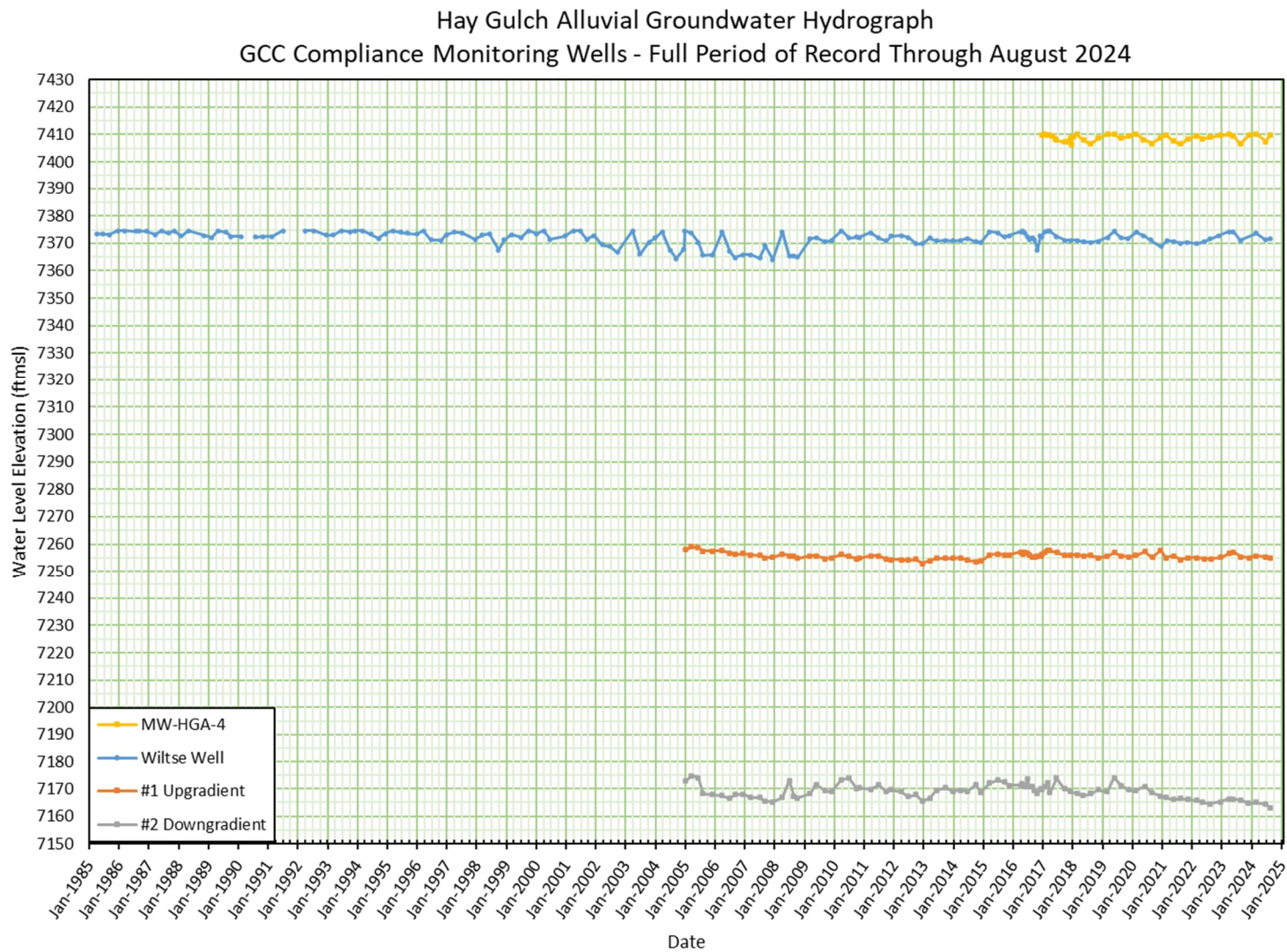


**Figure 4. Concentrations of iron and manganese in alluvial groundwater (2016-2024).**





**Figure 5. Hay Gulch alluvial groundwater hydrograph, full period of record through August 2024.**



**Figure 6. East Alkali Gulch alluvial groundwater hydrograph, full period of record through August 2024.**

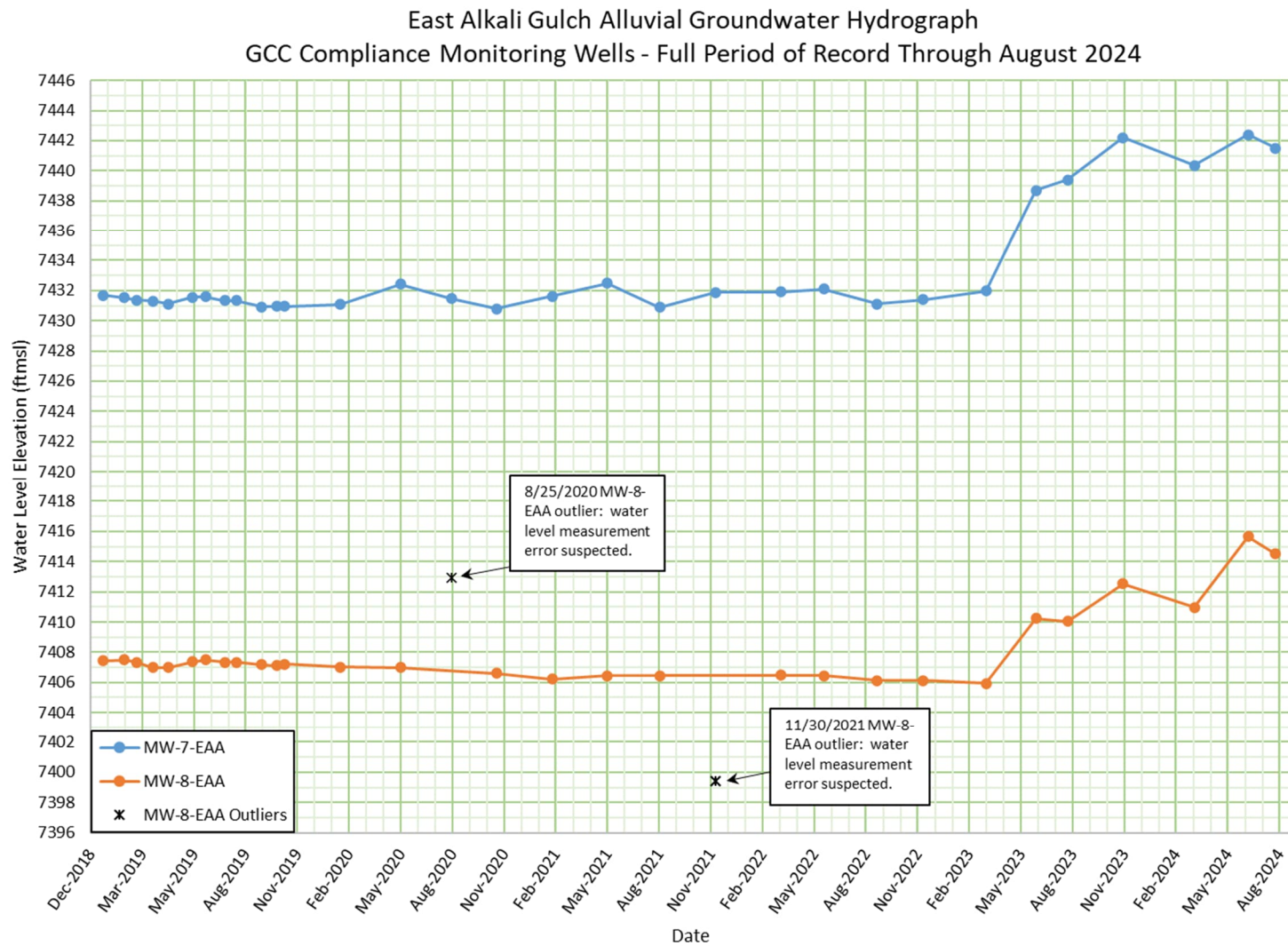
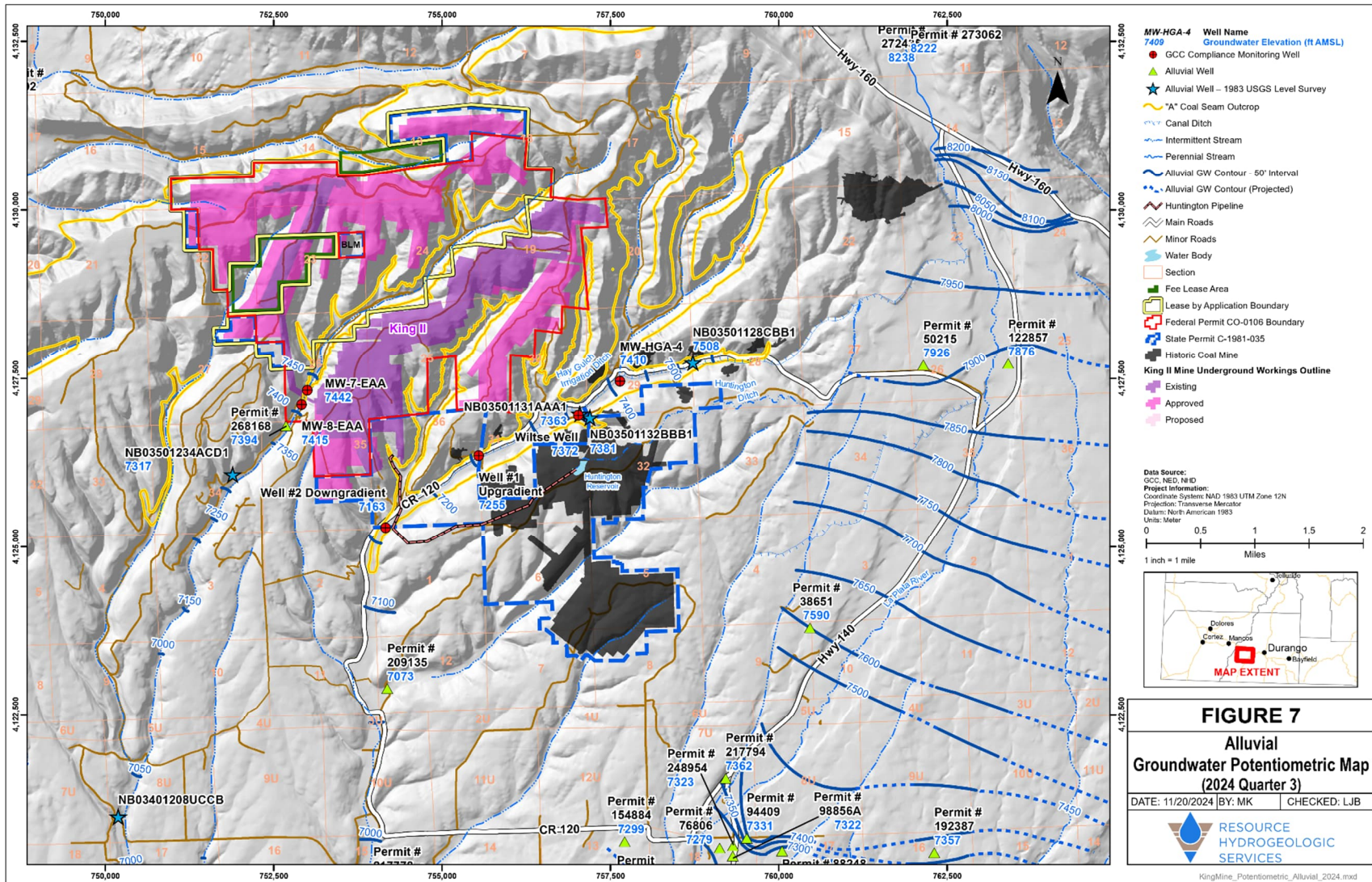
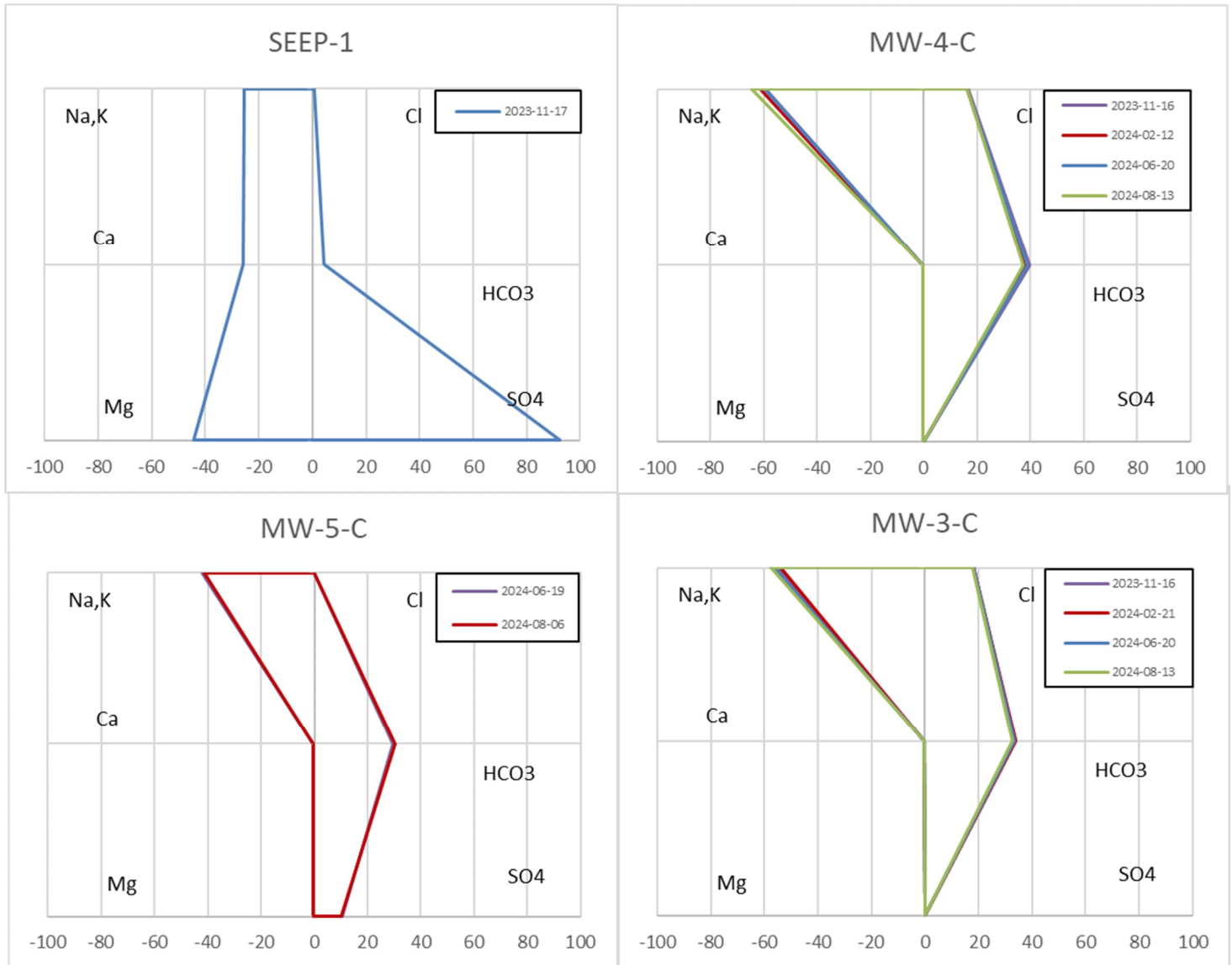




Figure 7. Alluvial groundwater table contour map, August 2024.

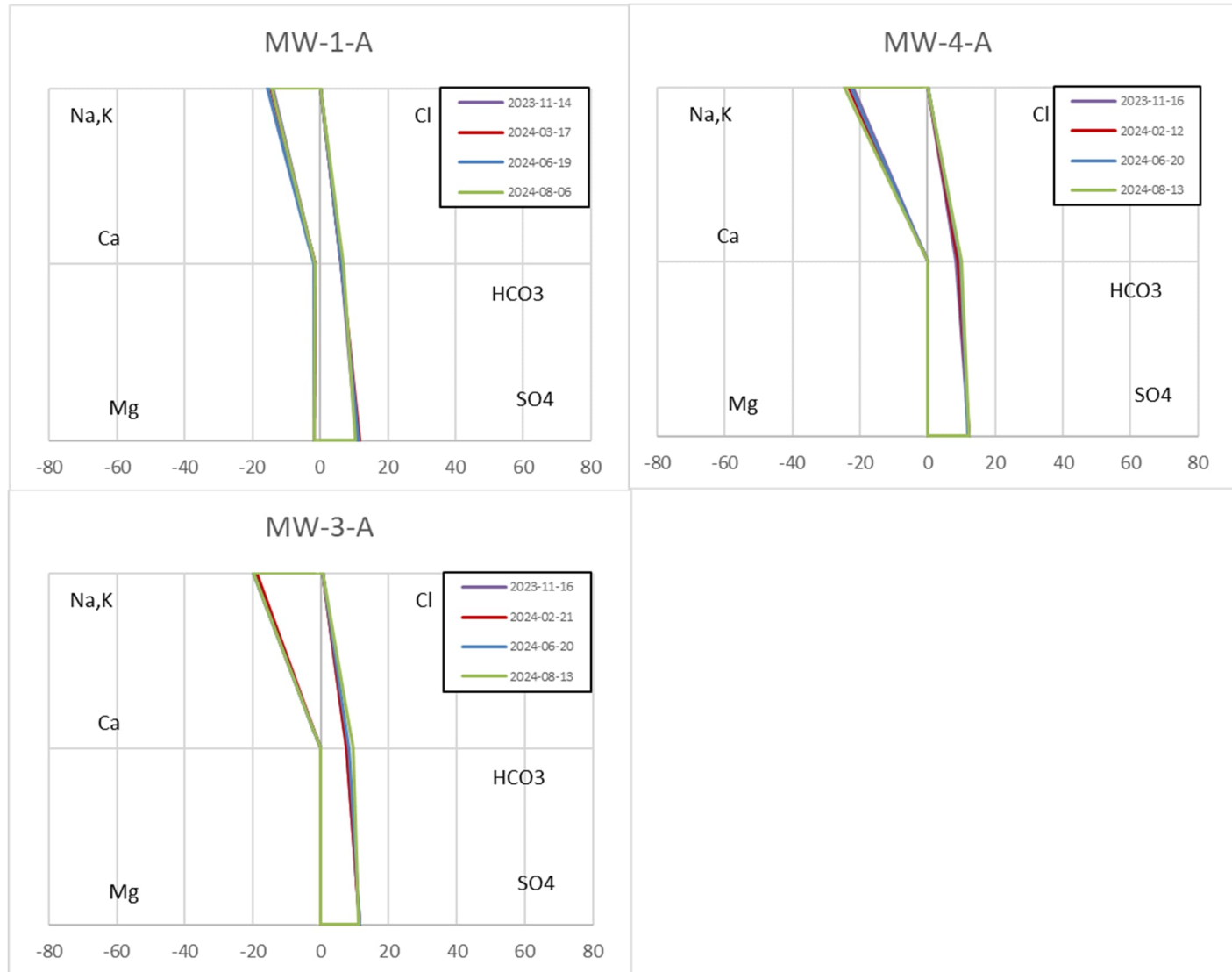


**Figure 8. Comparison of major ion concentrations in Cliff House (“A” seam overburden) bedrock monitoring wells, and a seep (Seep-1) for 2024.**





**Figure 9. Stiff diagrams of the three wet GCC monitoring wells completed in the “A” coal seam of the Menefee Formation for 2024.**



**Figure 10. Stiff diagrams of the four wet GCC monitoring wells completed in the Menefee Interburden immediately below the “A” seam for 2024.**

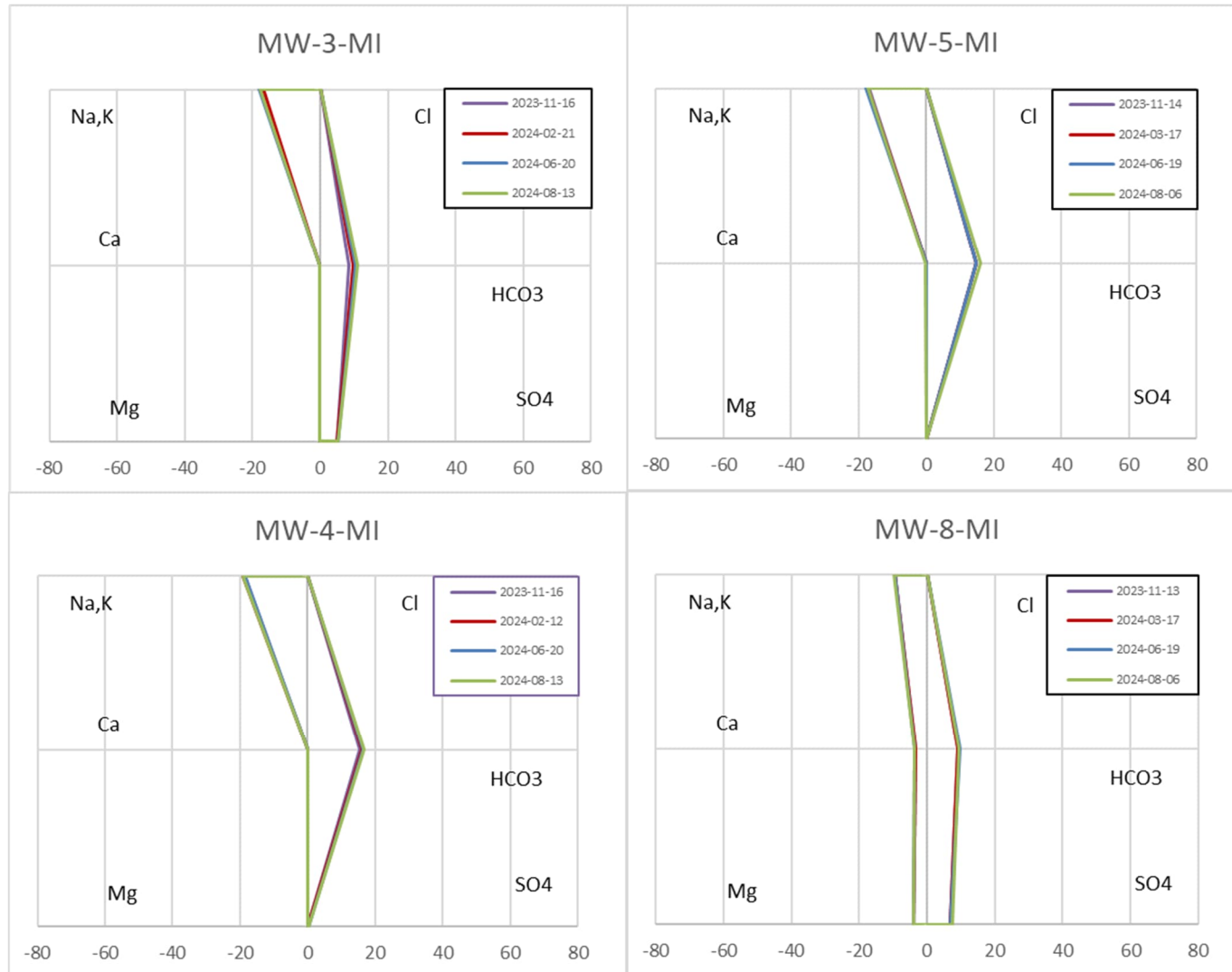


Figure 11. Stiff diagrams of GCC monitoring wells completed in the Lower Menefee for 2024.

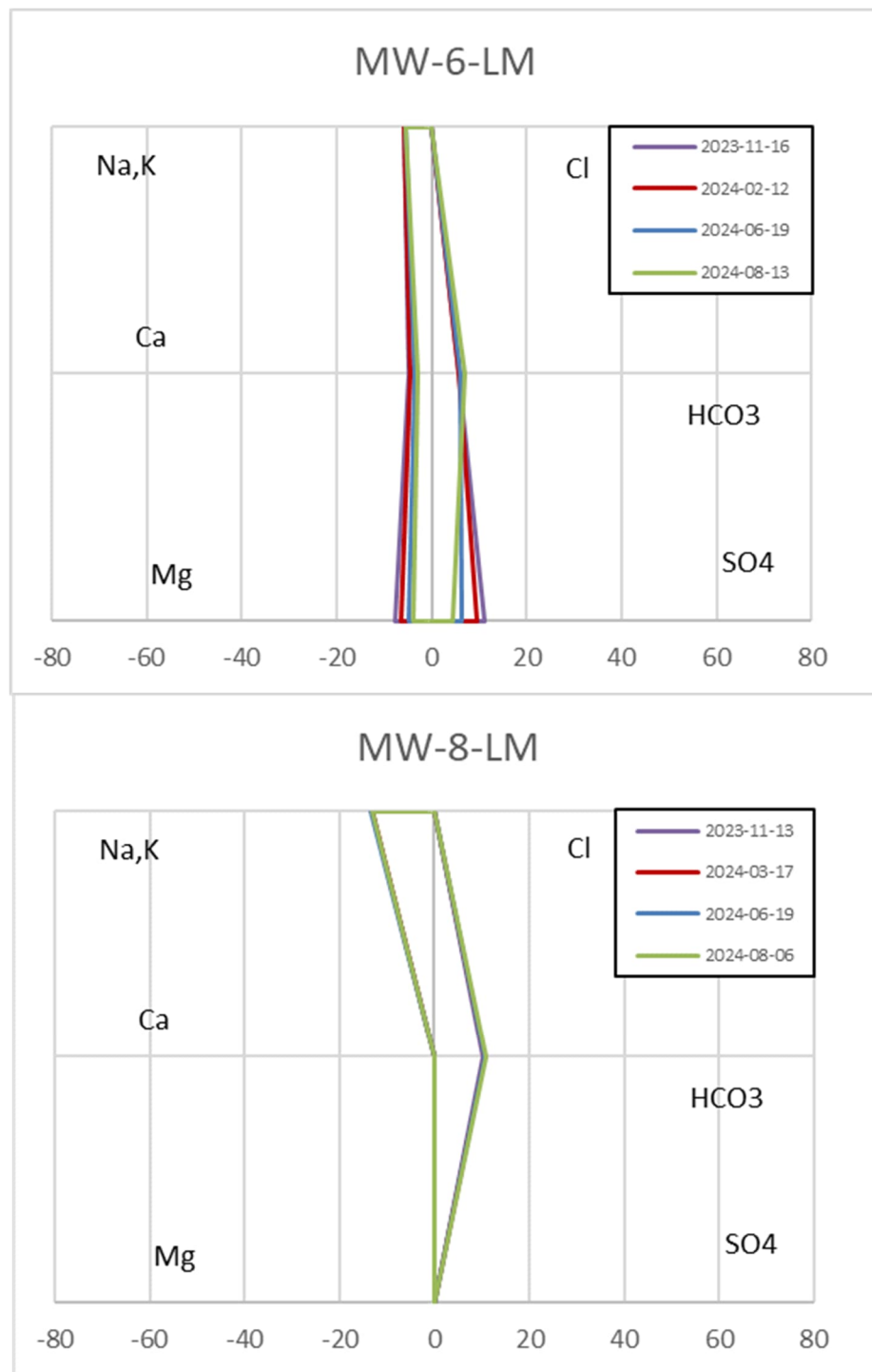


Figure 12. Stiff diagram of the single GCC monitoring well completed in the Point Lookout for 2024.

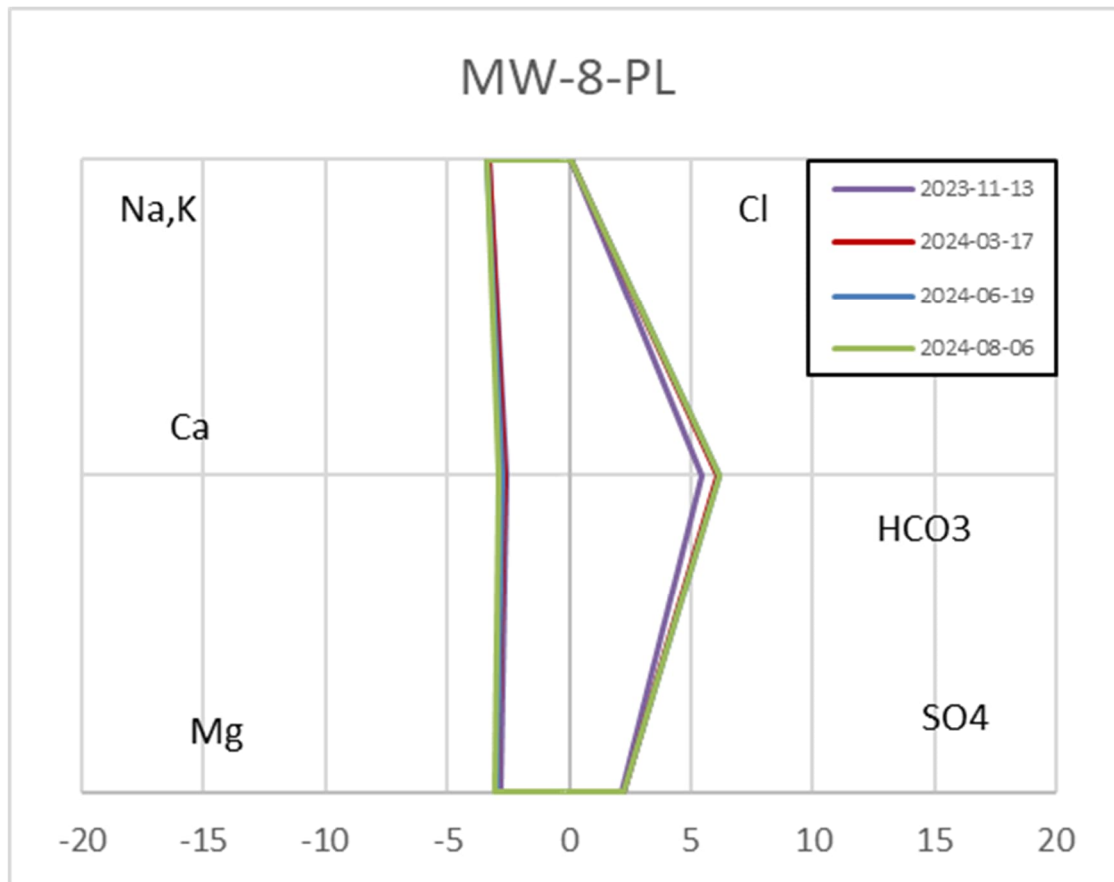


Figure 13. Concentrations of arsenic in bedrock groundwater (2016-2024).

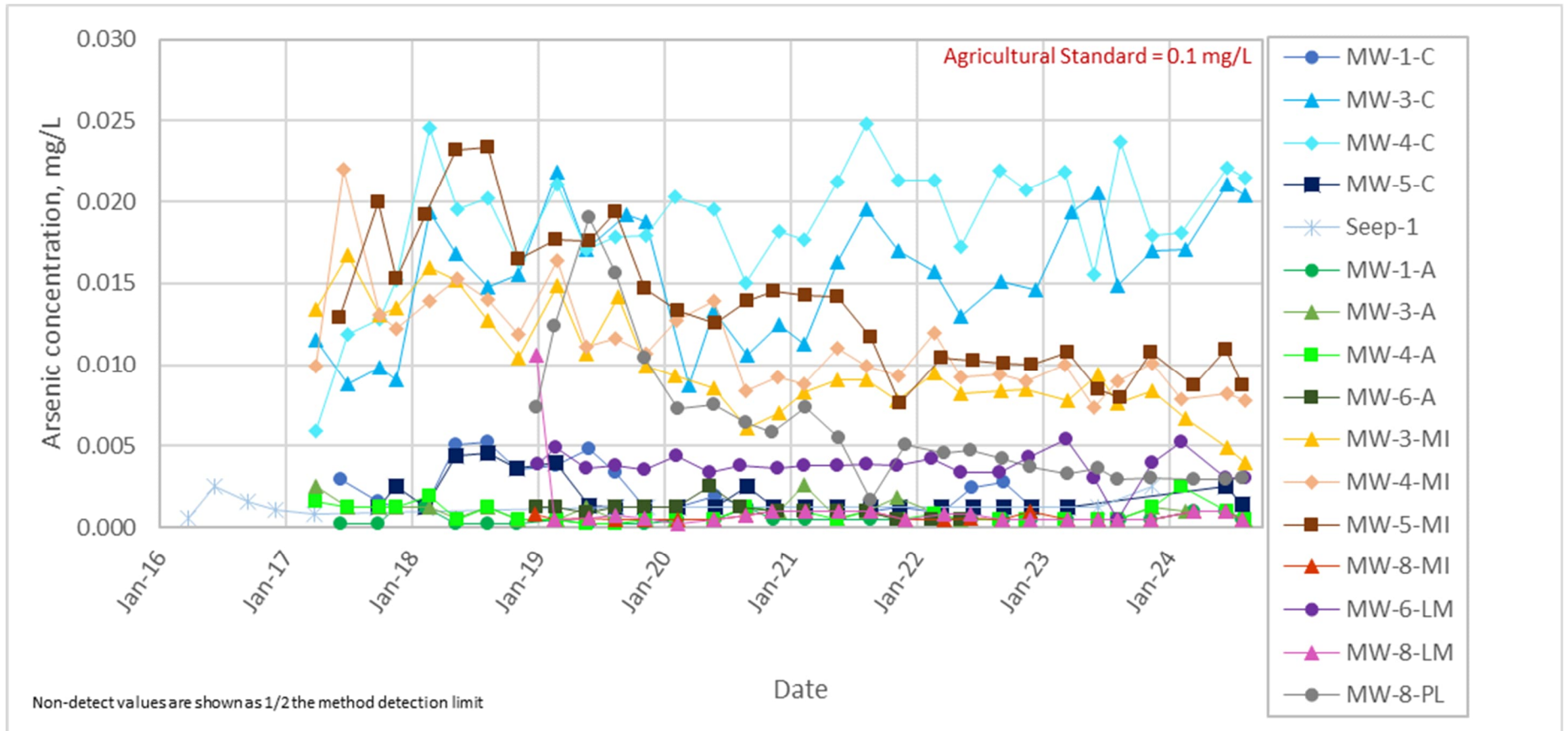


Figure 14. Concentrations of iron in bedrock groundwater (2016-2024).

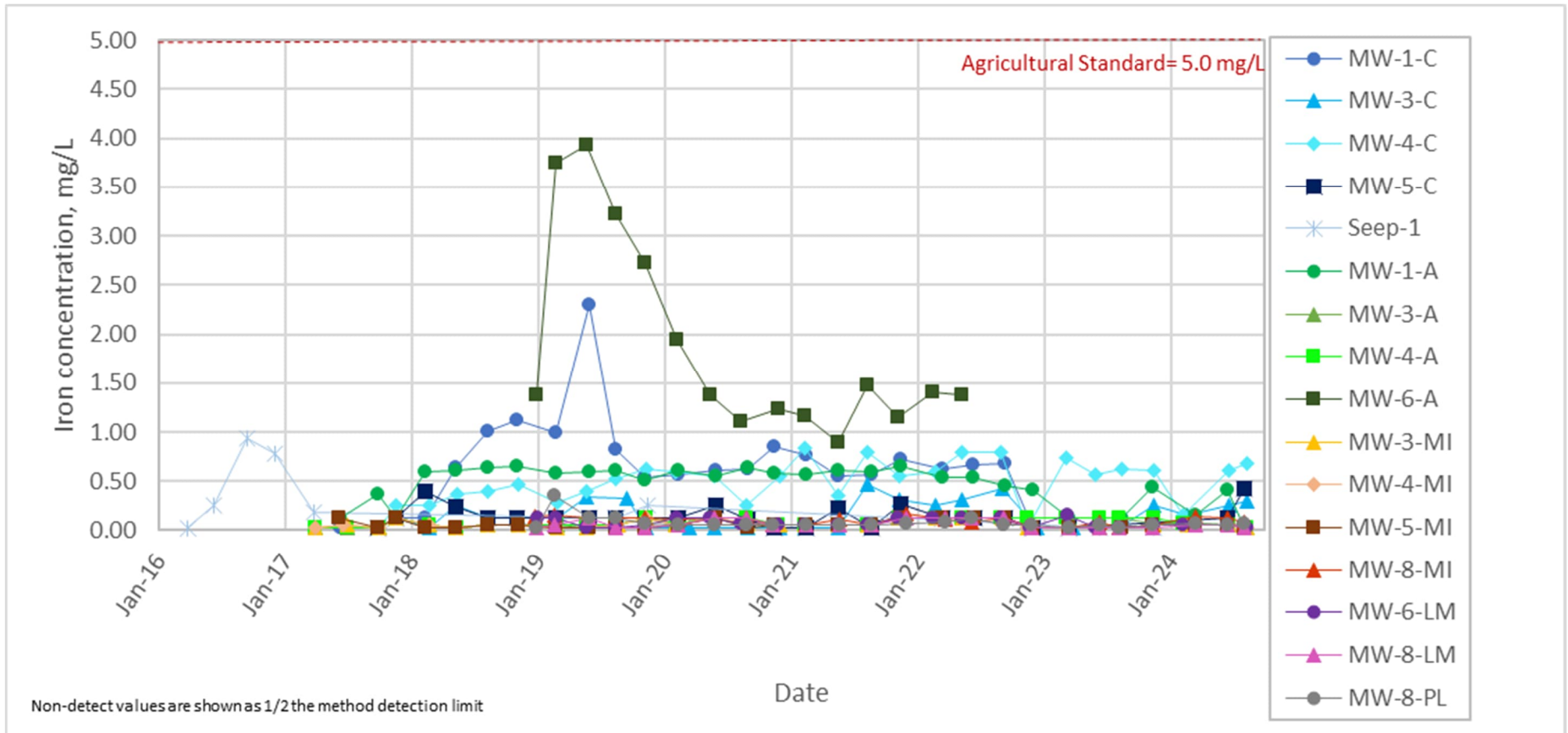


Figure 15. Concentrations of manganese in bedrock groundwater (2016-2024).

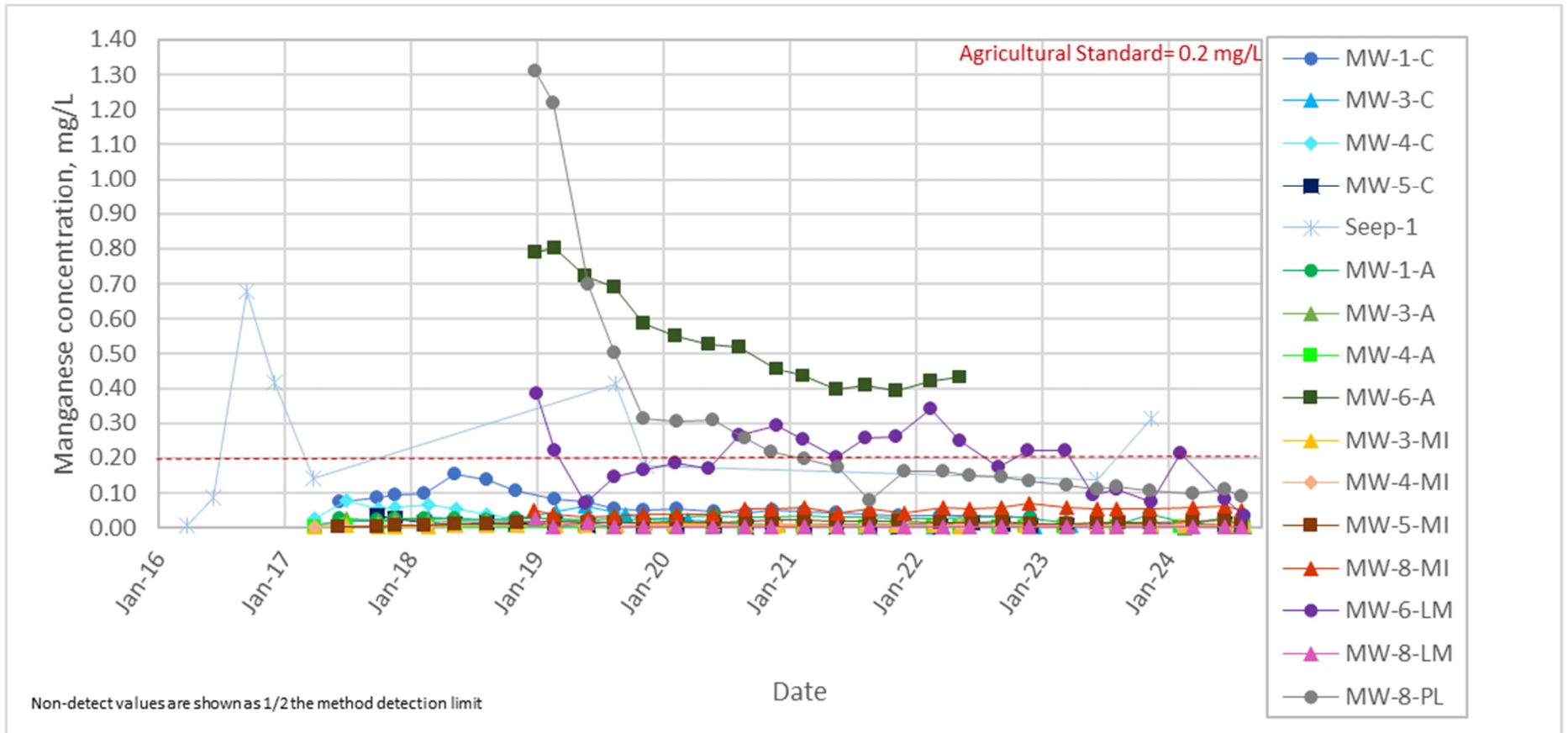
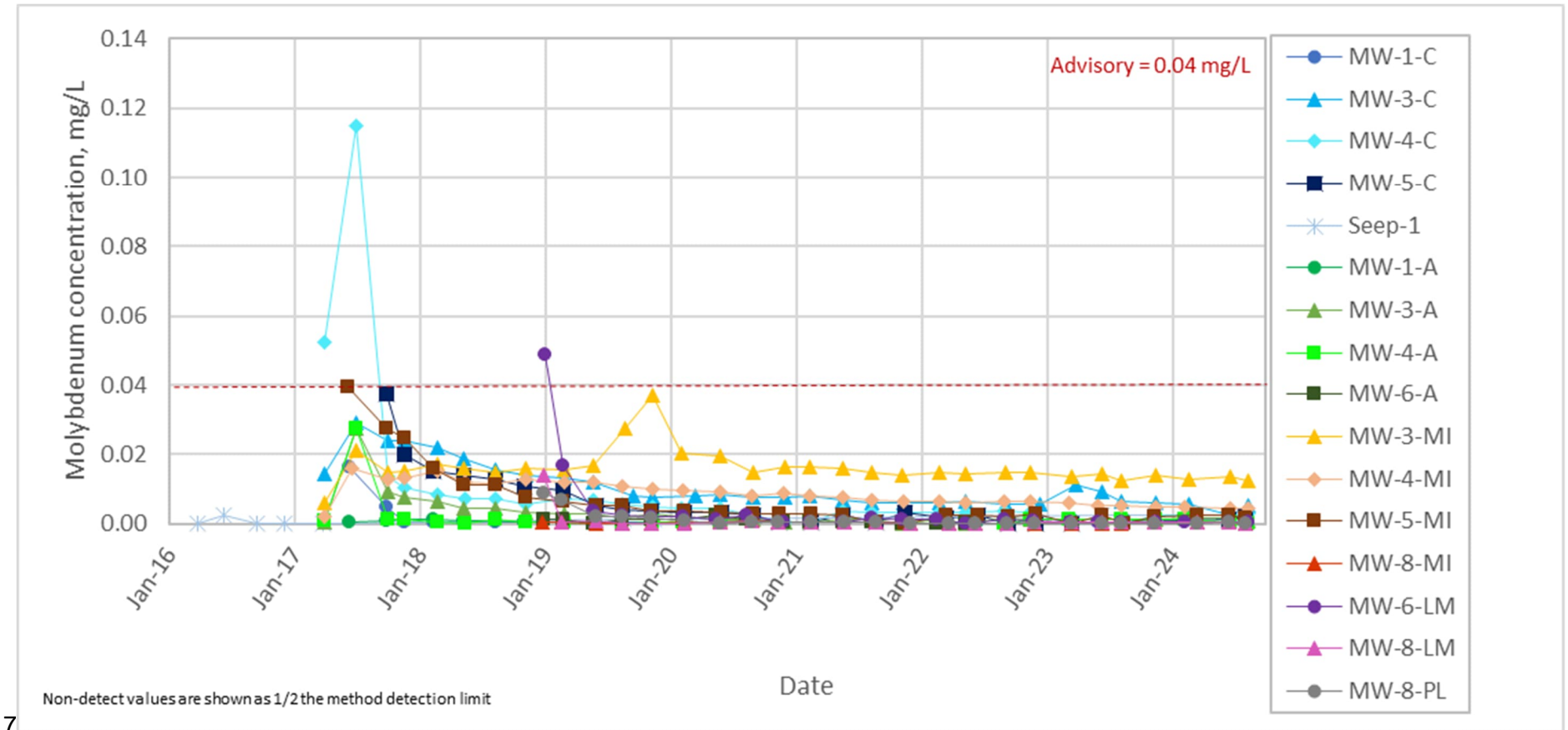


Figure 16. Concentrations of molybdenum in bedrock groundwater (2016-2024).



7



Figure 17. Concentrations of selenium in bedrock groundwater (2016-2024).

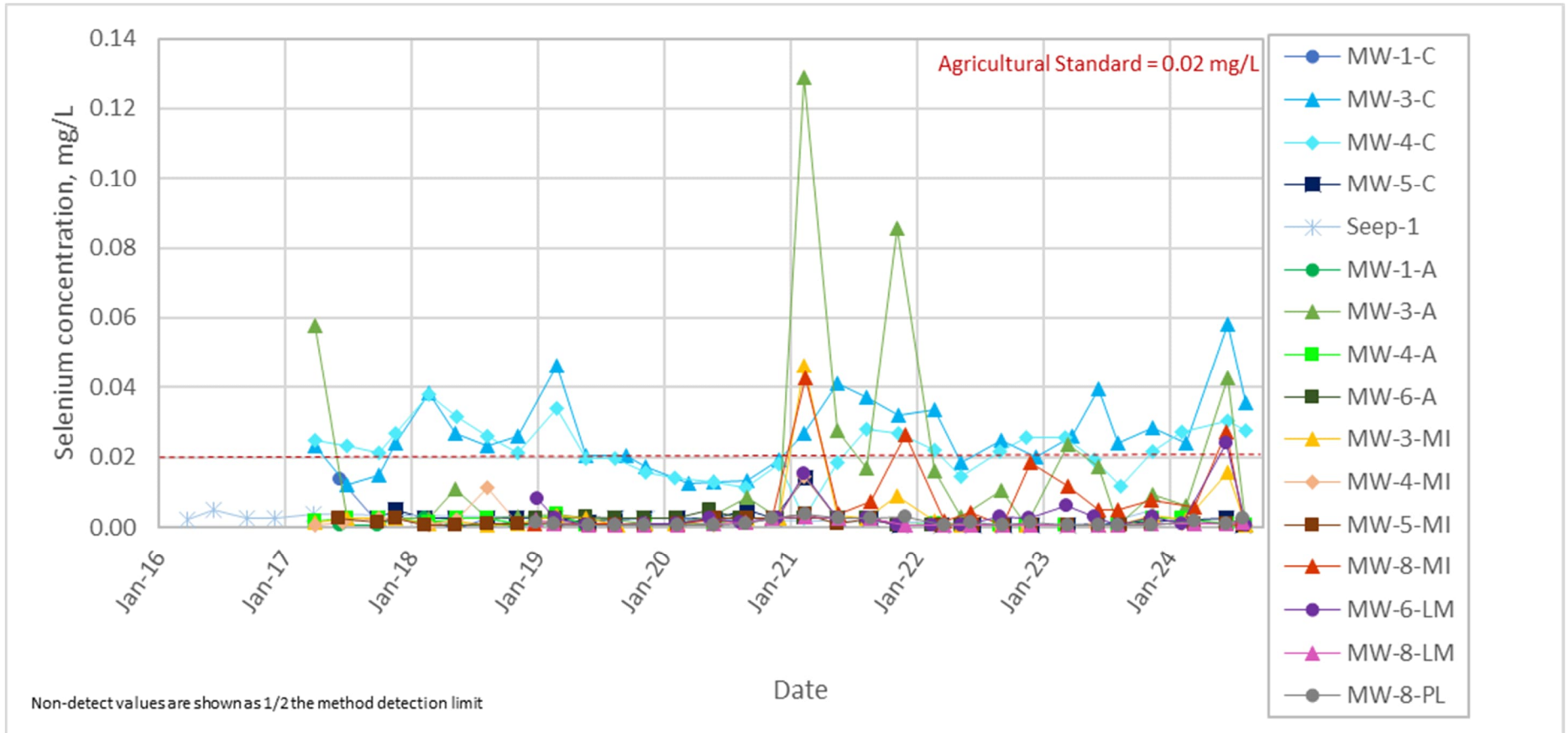


Figure 18. Concentrations of uranium in bedrock groundwater (2016-2024).

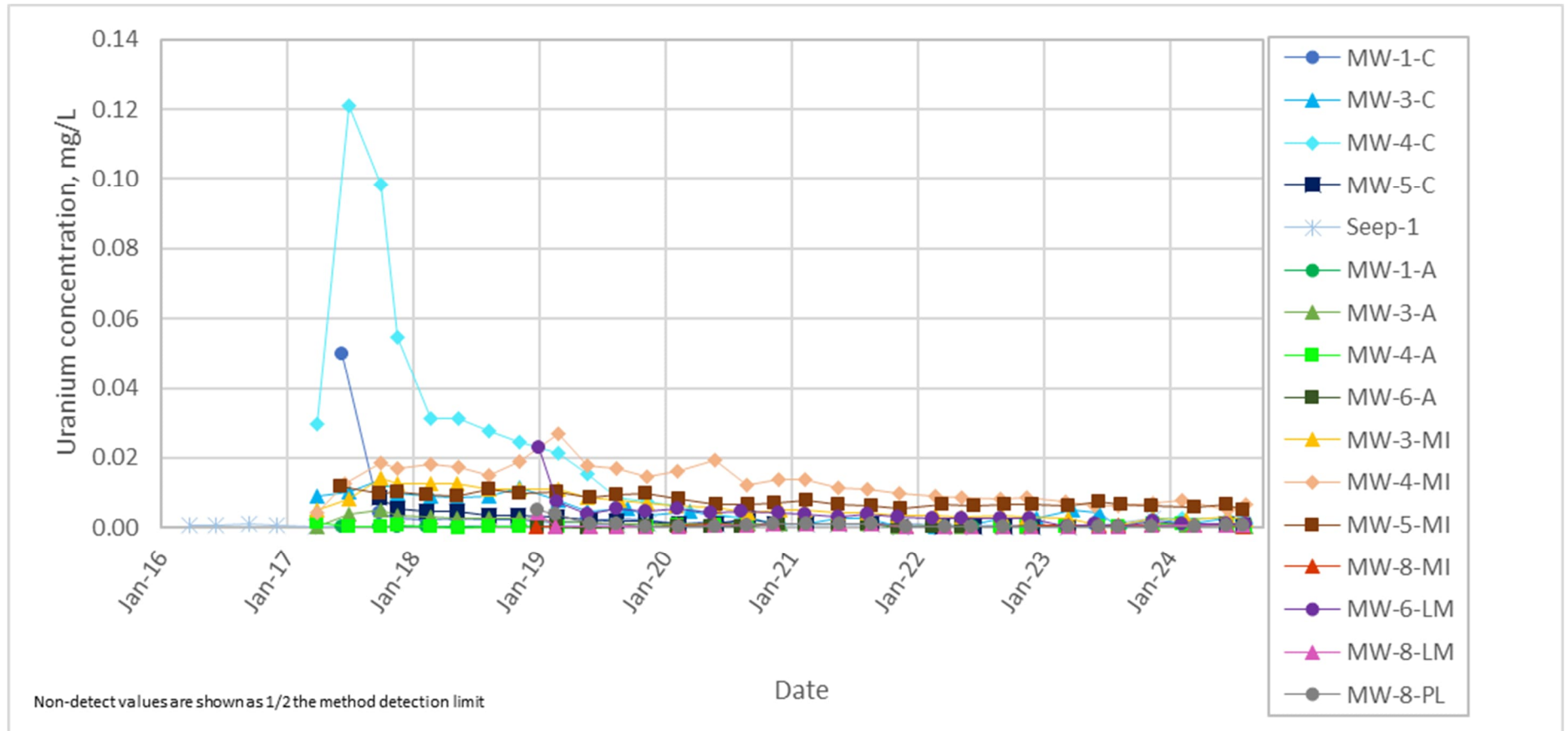


Figure 19. Cliff House groundwater potentiometric map, August 2024.

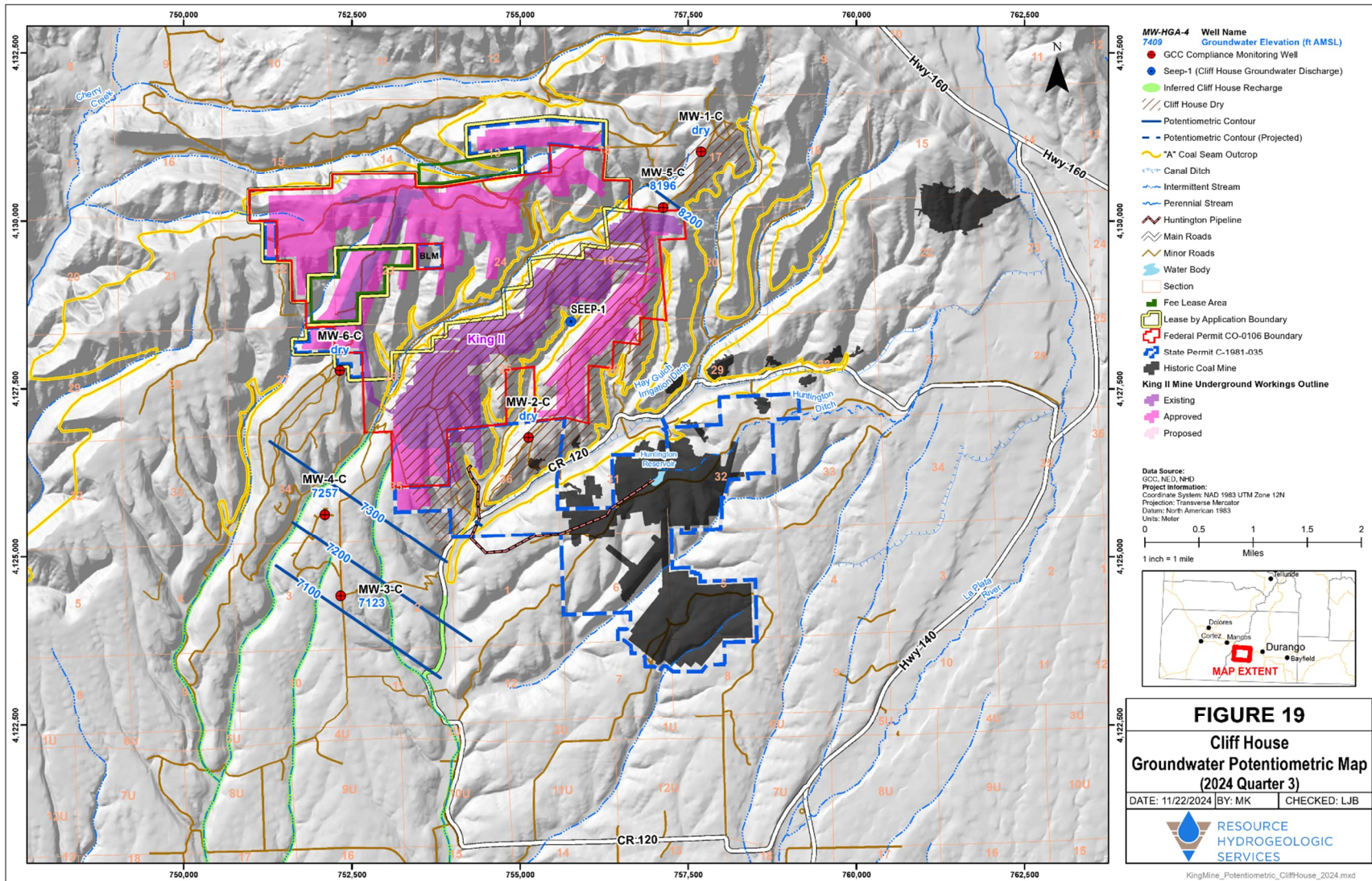
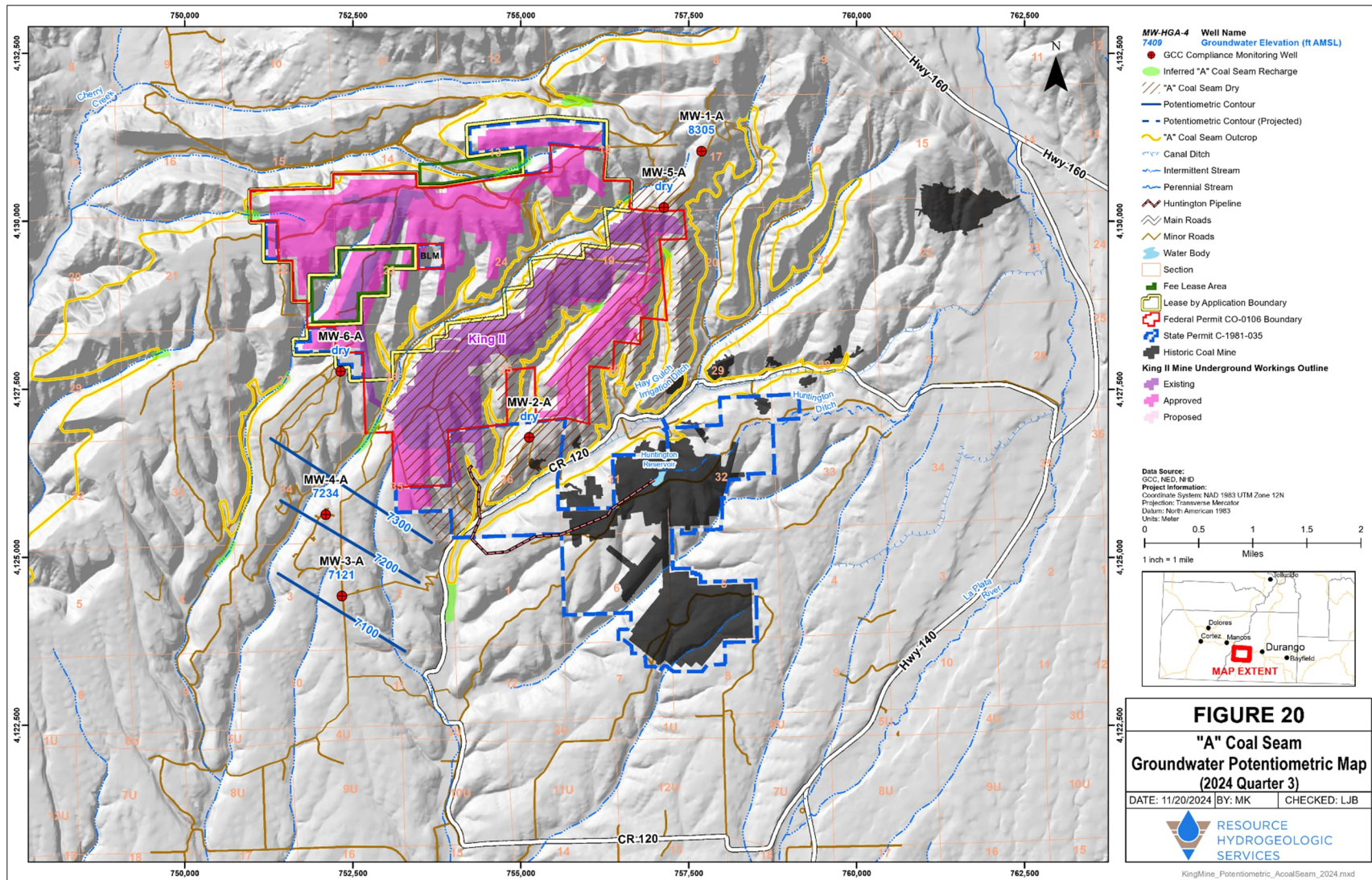




Figure 20. "A" seam coal groundwater potentiometric map, August 2024.





**Figure 21. Menefee Interburden groundwater potentiometric map, August 2024.**

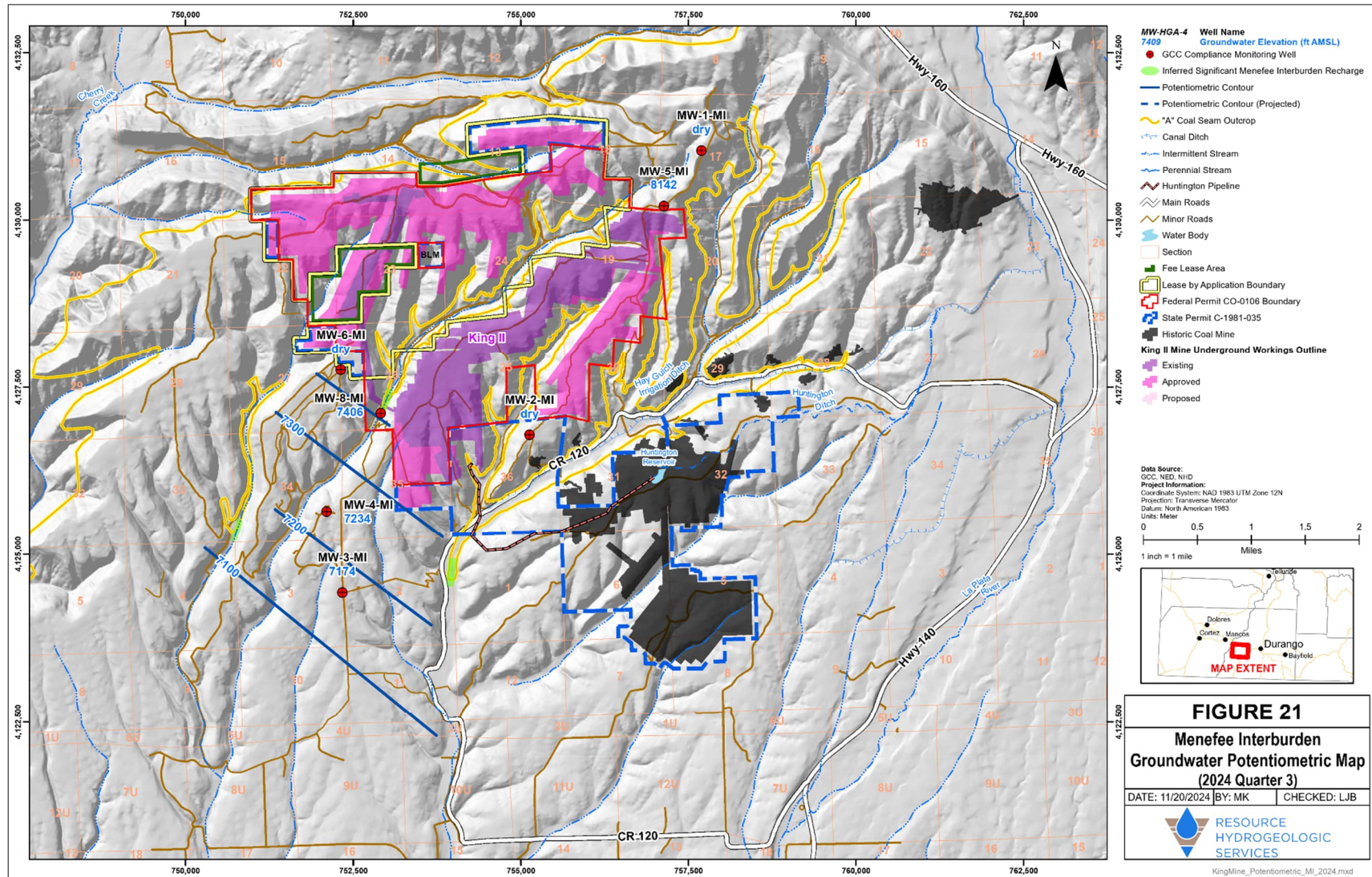
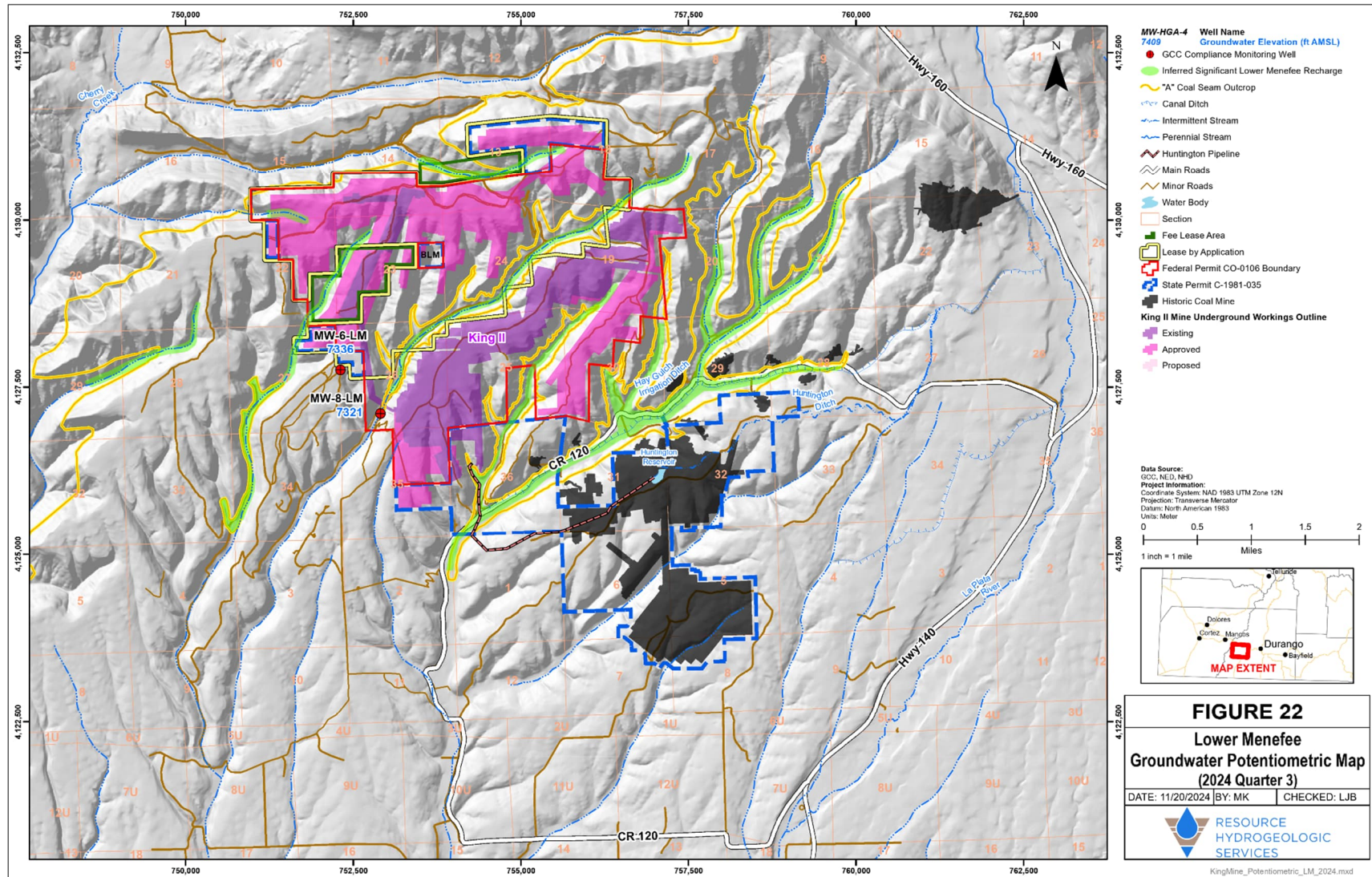


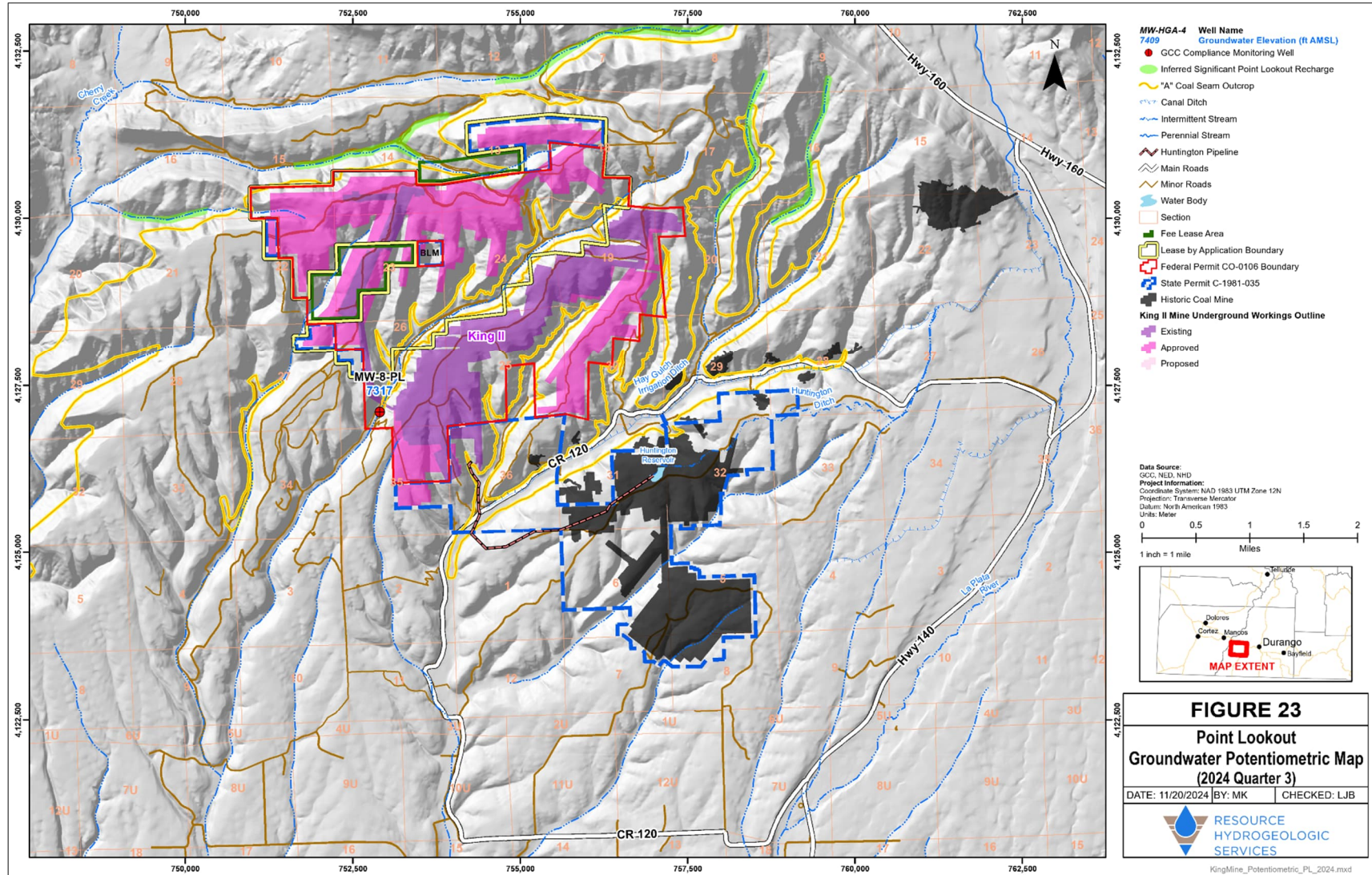


Figure 22. Lower Menefee groundwater potentiometric map, August 2024.





**Figure 23. Point Lookout groundwater potentiometric map, August 2024.**



## **ATTACHMENT - GCC Hydrologic Monitoring Data Summary Tables**





GCC Energy Hydrologic Monitoring Data

| Hay Gulch Ditch Upgradient    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Year                          | 2018    |         |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |          | 2024     |          |          |          |
| Quarter                       | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4       | Q1       | Q2       | Q3       |          |
| Month                         | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 2       | 6       | 9       | 11      | 3       | 6       | 9       | 12      | 3       | 5       | 8       | 11       | 2        | 6        | 8        |          |
| Sample Date                   | 2/22    | 5/14    | 8/9     | 11/8    | 2/28    | 5/23    | 8/16    | 11/13   | 2/13    | 5/13    | 8/13    | 12/3    | 2/22    | 6/3     | 9/1     | 11/15   | 3/24    | 6/20    | 9/13    | 12/20   | 3/27    | 5/18    | 8/24    | 11/29    | 2/26     | 6/20     | 8/20     |          |
| Lab Analysis (Y/N)            | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y        | Y        | Y        | Y        |          |
| Field Parameters:             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |
| Flow Rate                     | cfs     | NM      | 0.60    | 0.70    | 0.70    | 0.25    | 3.63    | 1.17    | NM      | NM      | 0.92    | 0.13    | 1.02    | 0.06    | 0.16    | NM      | 0.67    | 0.16    | 0.07    | 0.01    | 0.07    | NM      | 0.74    | 0.89     | 0.64     | 0.44     | 0.66     | 1.85     |
| Temperature                   | deg C   | 4.7     | 11.3    | 22.1    | 1.1     | 5.9     | 5.9     | 16.9    | 5.7     | 1.5     | 16.5    | 18.1    | 2.0     | 5.8     | 11.3    | 15.5    | 7.1     | 8.6     | 17.8    | 15.0    | 2.7     | 0.1     | 17.8    | 16.0     | 3.2      | 5.5      | 13.6     | 16.6     |
| pH                            | SU      | 7.9     | 7.58    | 9.07    | 7.16    | 6.4     | 7.53    | 8.03    | 7.33    | 7.75    | 8.39    | 8.65    | 8.08    | 7.83    | 7.75    | 8.07    | 6.94    | 7.11    | 7.94    | 7.15    | 6.19    | 7.85    | 8.01    | 7.7      | 7.76     | 7.68     | 7.73     | 8.05     |
| Specific Conductance          | µS/cm   | 1041    | 304     | 307     | 307     | 752     | 306     | 275     | 682     | 902     | 314     | 528     | 434     | 1024    | 189     | 280     | 252     | 553     | 832     | 570     | 708     | 1508    | 442     | 764      | 1013     | 1058     | 532      | 306      |
| Oxygen Reduction Potential    | mV      | -164.1  | 111.4   | -181.3  | 13.9    | 103.7   | -24.0   | 24.4    | -22.4   | -4.5    | 81.7    | 118.9   | 120.3   | 51.6    | 86.6    | 58.3    | 109.2   | 3.2     | 97.8    | -108.9  | -148.2  | 13.3    | -8.6    | -27.5    | -76.4    | -117.6   | -9.7     | 21.4     |
| Dissolved Oxygen              | mg/L    | 9.4     | 8.5     | 6.4     | 10.2    | 8.0     | 8.9     | 7.8     | 7.9     | 7.0     | 7.5     | 8.4     | 10.4    | 8.7     | 8.5     | 7.1     | 9.2     | 8.5     | 8.5     | 8.1     | 10.4    | 9.0     | 7.3     | 6.0      | 8.0      | 6.7      | 6.1      | 6.7      |
| Lab Analytical Results:       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |
| Hardness as CaCO3             | mg/L    | 489     | 101     | 153     | 149     | 393     | 136     | 125     | 372     | 405     | 150     | 287     | 213     | 588     | 92.6    | 131     | 120     | 280     | 383     | 273     | 336     | 697     | 293     | 342      | 434      | 458      | 245      | 141      |
| pH (Lab)                      | SU      | 8.39    | 7.99    | 9.07    | 7.86    | 7.45    | 7.69    | 7.83    | 7.40    | 7.22    | 7.60    | 8.01    | 7.92    | 7.57    | 7.72    | 7.44    | 7.52    | 7.81    | 7.87    | 7.81    | 7.98    | 7.56    | 7.91    | 7.56     | 7.85     | 7.96     | 7.76     | 7.96     |
| Total Dissolved Solids (Lab)  | mg/L    | 700     | 140     | 215     | 175     | 535     | 205     | 225     | 635     | 587     | 255     | 340     | 160     | 685     | 210     | 185     | 140     | 380     | 520     | 355     | 410     | 955     | 380     | 480      | 600      | 615      | 295      | 150      |
| Total Suspended Solids        | mg/L    | 6.01    | 106     | 6.25    | 14.8    | 22.0    | 113     | 20.0    | 5.38    | <4.0    | 140     | 19.5    | 13.2    | 55      | 133     | 51      | 13.2    | 13.4    | 5.07    | 45.4    | <2.5    | 121     | 38.0    | 9.79     | < 2.50   | 10.0     | 57.3     | 4.92     |
| Calcium                       | mg/L    | 87.3    | 26.3    | 39.1    | 40.3    | 79.8    | 34.6    | 32.4    | 79.3    | 81.5    | 36.1    | 63.2    | 49.9    | 113     | 25.8    | 35.8    | 34.2    | 61.7    | 70.8    | 55.0    | 69.9    | 124     | 63.5    | 70.2     | 86.3     | 90.2     | 50       | 37       |
| Magnesium                     | mg/L    | 65.9    | 8.61    | 13.5    | 11.9    | 47.0    | 12.1    | 10.8    | 42.2    | 49      | 14.5    | 31.3    | 21.5    | 74.3    | 6.87    | 10.1    | 8.35    | 30.5    | 50.1    | 33.1    | 39.2    | 93.9    | 32.6    | 40.5     | 53.0     | 56.6     | 29.1     | 11.8     |
| Sodium                        | mg/L    | 34.6    | 3.31    | 5.33    | 5.00    | 19.1    | 7.24    | 5.81    | 25.4    | 30.9    | 7.67    | 10.9    | 8.39    | 34.3    | 2.71    | 3.97    | 3.53    | 13.8    | 19.3    | 12.4    | 15.1    | 36.8    | 18.1    | 20.6     | 31.6     | 30.5     | 16.9     | 5.13     |
| Potassium                     | mg/L    | 3.52    | 1.18    | 1.24    | <1.00   | 3.89    | 1.57    | 1.07    | 3.25    | 3.65    | 1.86    | 1.85    | 1.53    | 4.74    | <1.00   | 3.28    | <1.00   | 3.39    | 3.58    | 2.18    | 2.82    | 6.20    | 2.79    | 2.97     | 6.33     | 4.89     | 3.32     | 1.3      |
| Alkalinity, Total             | mg/L    | 244     | 67      | 111     | 120     | 260     | 390     | 103     | 233     | 315     | 102     | 220     | 137     | 340     | 68      | 98      | 87.0    | 162     | 330     | 209     | 231     | 365     | 179     | 247      | 300      | 326      | 175      | 111      |
| Alkalinity, Bicarbonate       | mg/L    | 244     | 67      | 107     | 120     | 260     | 390     | 103     | 233     | 295     | 102     | 220     | 131     | 340     | 68      | 98      | 87.0    | 162     | 330     | 209     | 231     | 365     | 179     | 247      | 300      | 326      | 175      | 111      |
| Alkalinity, Carbonate         | mg/L    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0    | <10.0    | <10.0    | <10.0    | <10.0    |
| Alkalinity, Hydroxide         | mg/L    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0    | <10.0    | <10.0    | <10.0    | <10.0    |
| Chloride                      | mg/L    | 46.7    | 3.12    | 6.70    | 5.58    | 48.1    | 7.75    | 6.04    | 22.8    | 31.6    | 9.64    | 24.5    | 14.8    | 85.9    | 3.17    | 5.23    | 3.44    | 32.3    | 33.6    | 21.9    | 29.2    | 108     | 36.1    | 41.7     | 45.8     | 51.2     | 21.6     | 7.84     |
| Fluoride                      | mg/L    | 0.285   | 0.224   | 0.272   | 0.224   | 0.252   | 0.208   | 0.214   | <0.500  | 0.239   | <0.500  | 0.226   | 0.226   | 0.235   | 0.188   | 0.227   | 0.179   | 0.178   | 0.260   | 0.238   | 0.227   | 0.266   | 0.185   | 0.235    | 0.189    | < 0.200  | 0.223    | 0.215    |
| Sulfate as SO4                | mg/L    | 229     | 34      | 49.7    | 45.0    | 128     | 47.2    | 35.6    | 107     | 151     | 44.0    | 86.3    | 64.4    | 211     | 26.4    | 42.2    | 40.0    | 95.5    | 121     | 85.1    | 99.4    | 314     | 116     | 114      | 152      | 159      | 76.6     | 38.8     |
| Total Organic Carbon (TOC)    | mg/L    | 1.81    | 2.31    | 1.61    | 1.09    | 4.94    | 3.08    | 1.84    | 4.54    | 5.45    | 2.93    | 1.65    | 1.22    | 2.69    | 1.39    | 2.8     | 0.832   | 1.86    | 5.18    | 1.74    | 0.897   | 3.93    | 6.04    | 4.35     | 6.45     | 8.35     | 8.72     | 1.41     |
| Oil & Grease                  | mg/L    | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00    | <5.00    | <5.00    | <5.00    | <5.00    |
| Nitrate/Nitrite as N          | mg/L    | 0.105   | 0.026   | <0.020  | <0.020  | 0.263   | 0.050   | 0.072   | 0.104   | 0.044   | 0.302   | 0.042   | 0.026   | 0.282   | 0.049   | 0.026   | <0.02   | 0.118   | 0.165   | <0.02   | 0.066   | 0.850   | 0.133   | 0.298    | 0.113    | 0.038    | 0.085    | 0.024    |
| Sodium Adsorption Ratio (SAR) | no unit | 0.68    | 0.14    | 0.18    | 0.16    | 0.42    | 0.26    | 0.22    | 0.55    | 0.65    | 0.26    | 0.29    | 0.25    | 0.62    | 0.12    | 0.15    | 0.14    | 0.36    | 0.43    | 0.33    | 0.37    | 0.61    | 0.46    | 0.48     | 0.66     | 0.63     | 0.47     | 0.19     |
| Ammonia as N ^                | mg/L    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.100  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA       | NA       | NA       | NA       | NA       |
| Ortho-Phosphate as P ^        | mg/L    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA       | NA       | NA       | NA       | NA       |
| Aluminum                      | mg/L    | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.250  | <0.050  | < 0.050  | < 0.100  | < 0.100  | < 0.050  | < 0.050  |
| Arsenic                       | mg/L    | <0.0025 | <0.0005 | 0.0009  | <0.0005 | 0.0007  | 0.0006  | 0.0007  | 0.0005  | 0.0006  | <0.0005 | 0.0007  | <0.0005 | 0.0012  | <0.0005 | 0.001   | <0.0005 | 0.0005  | 0.0010  | 0.0007  | 0.0009  | <0.0025 | 0.0006  | 0.0008   | < 0.0010 | 0.0011   | < 0.0010 | < 0.0010 |
| Cadmium                       | mg/L    | <0.0005 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0025 | <0.0005 | < 0.0005 | < 0.0010 | < 0.0005 | < 0.0005 | < 0.0005 |
| Copper                        | mg/L    | 0.0007  | 0.0011  | 0.0011  | 0.0013  | 0.0026  | 0.0013  | 0.0012  | 0.0005  | 0.0005  | 0.0010  | 0.0006  | 0.0005  | 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   |
| Iron                          | mg/L    | <0.0500 | <0.0500 | <0.0500 | <0.0500 | 0.255   | 0.055   | <0.0500 | 0.316   | 0.551   | <0.0500 | <0.0500 | <0.0500 | 0.103   | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 | 0.272   | <0.0500 | 0.237    | < 0.100  | 0.528    | 0.081    | < 0.050  |
| Lead                          | mg/L    | <0.0025 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0025 | <0.0005 | < 0.0005 | < 0.0010 | < 0.0005 | < 0.0005 | < 0.0005 |
| Manganese                     | mg/L    | 0.0049  | 0.0093  | 0.0016  | 0.0043  | 0.127   | 0.0349  | 0.0096  | 0.113   | 0.368   | 0.0297  | 0.0087  | 0.0047  | 0.149   | 0.0042  | 0.0156  | 0.0074  | 0.0337  | 0.0761  | 0.0241  | 0.0398  |         |         |          |          |          |          |          |





GCC Energy Hydrologic Monitoring Data

| Hay Gulch Ditch Downgradient  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| Year                          | 2018    |         |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |    |
| Quarter                       | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |    |
| Month                         | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 6       | 8       | 12      | 2       | 6       | 9       | 11      | 3       | 6       | 9       | 12      | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |    |
| Sample Date                   | 2/22    | 5/7     | 8/9     | 11/7    | 2/28    | 5/23    | 8/16    | 11/13   | 2/6     | 6/1     | 8/13    | 12/3    | 2/22    | 6/3     | 9/1     | 11/15   | 3/24    | 6/20    | 9/13    | 12/20   | 3/27    | 5/18    | 8/18    | 11/21   | 2/26    | 6/20    | 8/20    |         |    |
| Lab Analysis (Y/N)            | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |    |
| Field Parameters:             |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |
| Flow Rate                     | cfs     | NM      | NM      | NM      | 0.50    | 0.25    | 0.30    | 1.05    | NM      | NM      | 1.50    | 0.13    | NM      | 0.001   | 0.40    | NM      | 0.67    | 0.06    | 0.04    | 0.01    | 0.07    | 0.10    | 1.34    | 0.20    | 0.08    | 0.06    | 0.57    | 0.43    |    |
| Temperature                   | deg C   | 6.3     | 11.3    | 20.6    | 4.7     | 6.88    | 8.23    | 15.15   | 3.51    | 3.73    | 14.21   | 20.4    | 6.83    | 10.37   | 13.35   | 10.47   | 4.00    | 9.21    | 17.71   | 18.02   | 4.05    | 4.52    | 15.48   | 14.54   | 7.36    | 5.85    | 15.03   | 14.51   |    |
| pH                            | SU      | 8.33    | 7.58    | 7.43    | 7.48    | 6.42    | 7.77    | 7.61    | 8.38    | 7.94    | 8.24    | 8.00    | 7.7     | 7.76    | 8.12    | 8.26    | 7.00    | 7.22    | 7.53    | 6.50    | 6.42    | 8.43    | 8.30    | 7.68    | 8.29    | 8.23    | 8.35    | 8.14    |    |
| Specific Conductance          | µS/cm   | 742     | 304     | 356     | 309     | 577     | 202     | 295     | 554     | 882     | 137     | 237     | 478     | 815     | 131     | 184     | 311     | 636     | 150     | 248     | 292     | 891     | 762     | 835     | 976     | 984     | 358     | 378     |    |
| Oxygen Reduction Potential    | mV      | 51.6    | 111.4   | -10.0   | -88.9   | 125.6   | 50.6    | 111.6   | -108.1  | 124.2   | 104.8   | 103.0   | 127.8   | -26.5   | 85.1    | 119.5   | 122.7   | -85.2   | 136.1   | 39.9    | -132.7  | 66.9    | 79.6    | -148.0  | -29.4   | -12.0   | 47.6    | 79.7    |    |
| Dissolved Oxygen              | mg/L    | 9.8     | 8.5     | 6.3     | 9.1     | 7.6     | 8.8     | 7.2     | 9.6     | 9.5     | 8.0     | 6.4     | 9.6     | 6.8     | 7.8     | 6.7     | 9.8     | NM      | 7.2     | 7.0     | 9.7     | 10.2    | 6.8     | 7.3     | 9.0     | 9.8     | 7.2     | 6.8     |    |
| Lab Analytical Results:       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |
| Hardness as CaCO3             | mg/L    | 329     | 140     | 182     | 167     | 281     | 91.9    | 137     | 295     | 416     | 63.6    | 120     | 232     | 419     | 64.8    | 90.7    | 143     | 346     | 65.7    | 95.9    | 138     | 433     | 337     | 497     | 467     | 439     | 180     | 184     |    |
| pH (Lab)                      | SU      | 8.17    | 8.05    | 8.09    | 7.95    | 7.84    | 7.68    | 7.73    | 7.73    | 7.80    | 7.49    | 7.59    | 7.85    | 7.83    | 7.74    | 7.58    | 7.39    | 8.01    | 7.86    | 7.68    | 7.97    | 7.95    | 8.09    | 8.28    | 8.07    | 8.04    | 8.2     | 8.04    |    |
| Total Dissolved Solids (Lab)  | mg/L    | 420     | 220     | 260     | 185     | 390     | 185     | 195     | 355     | 573     | 120     | 135     | 370     | 435     | 175     | 90      | 120     | 410     | 29.9    | 89.9    | 225     | 555     | 475     | 625     | 575     | 570     | 195     | 225     |    |
| Total Suspended Solids        | mg/L    | 49.5    | <2.00   | 5.67    | 4.40    | 18.4    | 153.0   | 22.5    | <4.00   | 4.20    | 17.5    | 28.6    | 10.5    | 28.0    | 8.4     | 4.8     | 5.44    | 18.3    | 29.2    | 3.67    | 8.00    | 17.8    | 62.0    | 16.0    | 3.38    | 25.7    | 31.3    | 9.15    |    |
| Calcium                       | mg/L    | 75.4    | 37.5    | 49.0    | 44.7    | 61.6    | 26.0    | 34.5    | 67.2    | 85.6    | 20.3    | 34.2    | 55.6    | 98.2    | 21.2    | 29.8    | 39.3    | 82.1    | 21.4    | 30.2    | 39.0    | 101     | 75.8    | 114     | 110     | 99.9    | 42.9    | 47      |    |
| Magnesium                     | mg/L    | 34.2    | 11.2    | 14.4    | 13.4    | 31      | 6.54    | 12.3    | 30.8    | 49.0    | 3.15    | 8.38    | 22.7    | 42.2    | 2.86    | 3.94    | 11.0    | 34.2    | 2.96    | 5.01    | 9.73    | 43.8    | 35.8    | 51.9    | 47.1    | 46.0    | 17.6    | 16.3    |    |
| Sodium                        | mg/L    | 18.1    | 5.42    | 6.49    | 5.15    | 16.5    | 5.03    | 6.62    | 17.0    | 28.5    | 1.90    | 3.68    | 9.03    | 15.8    | 1.14    | 1.75    | 4.71    | 16.4    | 1.58    | 2.04    | 4.08    | 18.6    | 18.5    | 29.6    | 21.7    | 21.6    | 8.83    | 6.83    |    |
| Potassium                     | mg/L    | 2.84    | 1.14    | 1.58    | 1.34    | 3.13    | 1.31    | 1.27    | 2.60    | 3.81    | <1.00   | 1.36    | 1.89    | 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    |    |
| Alkalinity, Total             | mg/L    | 265     | 112     | 170     | 140     | 150     | 340     | 140     | 194     | 297     | 48      | 110     | 158     | 315     | 52      | 72      | 116     | 282     | 46.0    | 73.0    | 103     | 303     | 218     | 293     | 325     | 312     | 129     | 139     |    |
| Alkalinity, Bicarbonate       | mg/L    | 259     | 104     | 170     | 140     | 150     | 340     | 140     | 188     | 283     | 48      | 110     | 154     | 315     | 52      | 72      | 116     | 282     | 46.0    | 73.0    | 103     | 293     | 218     | 265     | 325     | 296     | 129     | 139     |    |
| Alkalinity, Carbonate         | mg/L    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | 14.0    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | 28.0    | <10.0   | 16.0    | <10.0   | <10.0   |    |
| Alkalinity, Hydroxide         | mg/L    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |    |
| Chloride                      | mg/L    | 23.1    | 7.54    | 7.47    | 5.69    | 40.2    | 16.9    | 7.65    | 14.8    | 30.7    | 1.87    | 4.42    | 17.1    | 59      | 1.16    | 1.21    | 5.07    | 15.0    | 1.23    | 1.69    | 6.57    | 39.6    | 39.4    | 50.5    | 42.7    | 51.6    | 12.7    | 11.9    |    |
| Fluoride                      | mg/L    | 0.308   | 0.228   | 0.295   | 0.228   | 0.232   | 0.205   | 0.218   | 0.252   | 0.272   | 0.185   | 0.224   | 0.244   | 0.246   | 0.195   | 0.216   | 0.185   | 0.257   | 0.191   | 0.221   | 0.213   | 0.274   | 0.202   | 0.231   | 0.201   | 0.201   | 0.216   | 0.223   |    |
| Sulfate as SO4                | mg/L    | 86.5    | 40.2    | 46.8    | 45.0    | 91.4    | 18.5    | 42.7    | 83.3    | 143     | 14.2    | 32.4    | 70.2    | 90.1    | 17.3    | 25.7    | 46.3    | 74.7    | 18.8    | 26.4    | 42.2    | 138     | 127     | 168     | 138     | 142     | 47.6    | 48.6    |    |
| Total Organic Carbon (TOC)    | mg/L    | 1.56    | 1.28    | 1.33    | 1.76    | 2.90    | 2.37    | 2.10    | 3.26    | 4.53    | 1.39    | 1.47    | 1.55    | 2.31    | 1.18    | 1.48    | 1.12    | 1.42    | 1.10    | 1.13    | 1.01    | <5.00   | 6.19    | 6.17    | 4.04    | 3.74    | 2.01    | 2.35    |    |
| Oil & Grease                  | mg/L    | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   |    |
| Nitrate/Nitrite as N          | mg/L    | <0.020  | <0.020  | <0.020  | <0.020  | 0.17    | 0.146   | 0.090   | <0.020  | 0.056   | 0.031   | 0.053   | <0.020  | 0.148   | 0.021   | <0.020  | <0.020  | 0.041   | <0.02   | <0.02   | <0.02   | 0.361   | 0.170   | 0.078   | <0.020  | 0.072   | 0.056   | 0.025   |    |
| Sodium Adsorption Ratio (SAR) | no unit | 0.43    | 0.2     | 0.20    | 0.17    | 0.43    | 0.22    | 0.24    | 0.41    | 0.61    | 0.10    | 0.14    | 0.26    | 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    |    |
| Ammonia as N ^                | mg/L    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.100  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA |
| Ortho-Phosphate as P ^        | mg/L    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA |
| Aluminum                      | mg/L    | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.050  | <0.100  | <0.050  | <0.050  | <0.050  | <0.050  |    |
| Arsenic                       | mg/L    | 0.0005  | 0.0005  | 0.0008  | <0.0005 | 0.0006  | 0.0006  | 0.0006  | 0.0005  | 0.0006  | <0.0005 | 0.0007  | <0.0005 | 0.0013  | <0.0005 | 0.0007  | <0.0005 | <0.0005 | 0.0010  | 0.0007  | 0.0005  | <0.001  | 0.0009  | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 |    |
| Cadmium                       | mg/L    | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001  | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |    |
| Copper                        | mg/L    | 0.0005  | 0.0008  | 0.0008  | 0.0008  | <0.0010 | 0.0021  | 0.0009  | 0.0007  | 0.0006  | 0.0014  | 0.0009  | 0.0005  | 0.0006  | 0.0011  | 0.001   | 0.0007  | 0.0009  | 0.0034  | 0.0010  | 0.0045  | 0.0070  | 0.0026  | 0.0029  | 0.0025  | 0.0028  | 0.0022  | 0.0194  |    |
| Iron                          | mg/L    | <0.050  | <0.050  | <0.050  | <0.05   | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.050  | <0.100  | <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 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0016  |    |
| Manganese                     | mg/L    | 0.0962  | 0.0038  | 0.0445  | 0.0102  | 0.048   | 0.0125  | 0.0033  | 0.0102  | 0.0286  | 0.0012  | 0.0046  | 0.0116  | 0.133   | 0.0011  | 0.0021  | 0.0124  | 0.0082  | 0.0024  | 0.0175  | 0.0315  | 0.0552  | 0.0233  | 0.0156  | 0.0490  | 0.0844  | 0.0055  | 0.0153  |    |
| Mercury (total)               | mg/L    | <0.0002 | <       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |



GCC Energy Hydrologic Monitoring Data

| Well #1 Upgradient            |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                          | 2018   |         |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                       | Q1     | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                         | 2      | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 6       | 8       | 12      | 2       | 5       | 8       | 11      | 3       | 6       | 8       | 12      | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |
| Sample Date                   | 2/22   | 5/14    | 8/9     | 11/7    | 2/25    | 5/23    | 8/16    | 11/14   | 2/13    | 6/1     | 8/31    | 12/14   | 2/11    | 5/19    | 8/12    | 11/12   | 3/1     | 6/2     | 8/17    | 12/16   | 3/29    | 5/19    | 8/21    | 11/21   | 2/26    | 6/20    | 8/20    |         |
| Lab Analysis (Y/N)            | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:             |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate               | gpm    | 7.2     | 7.2     | 10      | 7.2     | 10.0    | 8.3     | 11.0    | 6.5     | 8.0     | 10.0    | 8.0     | 8.0     | 8.0     | 8.0     | 4.0     | 8.0     | 5.0     | 9.0     | 6.0     | 7.1     | 10.2    | 8.8     | 6.1     | 8.1     | 8.7     | 4.8     |         |
| Total Purged                  | gal    | 268     | 280     | 267     | 305     | 300     | 321     | 327     | 293     | 314     | 300     | 291     | 280     | 302     | 324     | 300     | 400     | 300     | 300     | 400     | 350     | 270     | 280     | 304     | 264     | 270     | 265     | 263     |
| Depth to Water                | ft bgs | 5.40    | 5.77    | 5.65    | 6.50    | 5.98    | 4.50    | 5.68    | 6.08    | 5.55    | 4.17    | 6.25    | 3.72    | 6.48    | 5.82    | 7.25    | 6.55    | 6.47    | 6.80    | 6.80    | 6.30    | 4.92    | 4.42    | 6.15    | 6.40    | 5.70    | 6.10    | 6.40    |
| Temperature                   | deg C  | 11.5    | 11.7    | 12.0    | 12.5    | 11.7    | 11.5    | 11.8    | 12.9    | 11.6    | 12.1    | 12.3    | 11.5    | 11.6    | 12.2    | 12.3    | 12.0    | 12.0    | 12.3    | 12.0    | 11.7    | 11.8    | 11.7    | 12.7    | 12.3    | 11.7    | 12.7    |         |
| pH                            | SU     | 7.56    | 7.49    | 7.35    | 7.34    | 7.44    | 7.39    | 7.37    | 7.32    | 7.37    | 7.38    | 7.57    | 7.6     | 7.54    | 7.56    | 7.59    | 7.57    | 7.46    | 7.54    | 7.49    | 6.84    | 7.67    | 7.53    | 7.67    | 7.52    | 7.59    | 7.36    | 7.46    |
| Specific Conductance          | µS/cm  | 1278    | 1218    | 1289    | 1204    | 1235    | 1308    | 1253    | 1232    | 1277    | 1268    | 1067    | 1190    | 1142    | 1235    | 1212    | 1301    | 1235    | 1301    | 1235    | 1282    | 1313    | 1375    | 1201    | 1287    | 1312    | 1238    | 1265    |
| Oxygen Reduction Potential    | mV     | -185.3  | -219.3  | -251.6  | -273.0  | -232.0  | -194.0  | -192.0  | -159.9  | -193.0  | -221.7  | -187.2  | -138.1  | -153.4  | -208.9  | -202.5  | -272.2  | -306.3  | -231.9  | -351.0  | -306.7  | -162.0  | -126.9  | -157.9  | -238.5  | -260.6  | -174.9  | -212.8  |
| Lab Analytical Results:       |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3             | mg/L   | 274     | 275     | 369     | 287     | 252     | 350     | 303     | 263     | 290     | 319     | 255     | 247     | 298     | 313     | 236     | 286     | 271     | 311     | 281     | 317     | 334     | 561     | 301     | 303     | 330     | 304     | 321     |
| pH (Lab)                      | SU     | 7.75    | 7.95    | 7.48    | 7.50    | 7.77    | 7.56    | 7.23    | 7.35    | 7.12    | 7.26    | 7.53    | 7.72    | 7.39    | 7.33    | 7.47    | 7.23    | 7.51    | 7.67    | 7.46    | 7.39    | 7.43    | NA*     | 7.62    | 7.44    | 7.67    | 7.52    | 7.57    |
| Total Dissolved Solids (Lab)  | mg/L   | 745     | 770     | 835     | 730     | 735     | 860     | 780     | 705     | 700     | 775     | 710     | 690     | 755     | 785     | 750     | 745     | 725     | 790     | 735     | 745     | 765     | 835     | 740     | 755     | 745     | 750     | 730     |
| Calcium                       | mg/L   | 53.4    | 53.8    | 71.5    | 56.7    | 49.1    | 67.8    | 58.2    | 51.5    | 56.5    | 61.6    | 49.6    | 47.4    | 58.1    | 60.9    | 45.4    | 54.8    | 53.3    | 60.3    | 52.1    | 60.2    | 64.2    | 107     | 58.1    | 58.1    | 61.3    | 58.9    | 61.4    |
| Magnesium                     | mg/L   | 34.2    | 34.1    | 46.4    | 35.4    | 31.4    | 43.8    | 38.3    | 32.7    | 36.1    | 40.0    | 31.7    | 31.1    | 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    |
| Sodium                        | mg/L   | 183     | 191     | 154     | 212     | 196     | 172     | 167     | 198     | 183     | 178     | 193     | 196     | 204     | 172     | 177     | 182     | 185     | 172     | 179     | 166     | 168     | 106     | 192     | 174     | 158     | 173     | 177     |
| Potassium                     | mg/L   | 3.09    | 3.03    | 3.16    | 3.15    | 3.01    | 3.32    | 3.01    | 3.01    | <5      | 3.05    | 3.05    | 3.02    | <5.00   | 3.00    | <5.00   | <5.00   | 2.93    | 3.09    | 2.94    | <5.00   | <5.00   | 3.04    | < 5.00  | 2.89    | 2.80    | 3.00    | 3.03    |
| Alkalinity, Total             | mg/L   | 620     | 595     | 630     | 640     | 610     | 615     | 615     | 590     | 600     | 576     | 520     | 605     | 570     | 620     | 600     | 770     | 640     | 650     | 570     | 615     | 640     | 590     | 602     | 610     | 590     | 625     | 630     |
| Alkalinity, Bicarbonate       | mg/L   | 620     | 595     | 630     | 640     | 610     | 615     | 615     | 590     | 600     | 576     | 520     | 587     | 570     | 620     | 600     | 770     | 640     | 590     | 570     | 615     | 640     | 590     | 602     | 610     | 590     | 625     | 630     |
| Alkalinity, Carbonate         | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | 18      | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | 60.0    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Alkalinity, Hydroxide         | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                      | mg/L   | 4.30    | 4.35    | 4.34    | 4.23    | 4.35    | 4.59    | 4.36    | 6.19    | 4.76    | 4.76    | 4.62    | 4.34    | 4.27    | 4.91    | 4.89    | 4.93    | 4.46    | 4.50    | 4.75    | 4.78    | 4.77    | 6.43    | 4.76    | 4.83    | 5.05    | 5.38    | 4.84    |
| Fluoride                      | mg/L   | 0.354   | 0.335   | 0.390   | 0.359   | 0.355   | 0.349   | 0.335   | <0.500  | 0.348   | 0.366   | 0.356   | 0.342   | 0.311   | 0.338   | 0.35    | 0.284   | 0.349   | 0.268   | 0.332   | 0.334   | 0.340   | 0.320   | 0.304   | 0.268   | 0.266   | 0.352   | 0.34    |
| Sulfate as SO4                | mg/L   | 106     | 97.2    | 147     | 89.9    | 91.4    | 131     | 112     | 92.1    | 104     | 110     | 79.6    | 87.9    | 102     | 110     | 98.5    | 122     | 96.4    | 114     | 103     | 114     | 122     | 174     | 90.8    | 102     | 117     | 108     | 112     |
| Total Organic Carbon (TOC)    | mg/L   | 3.37    | 3.5     | 3.94    | 3.35    | 3.31    | 3.70    | 3.53    | 3.14    | 3.29    | 3.37    | 3.32    | 3.17    | 3.26    | 3.27    | 3.23    | 3.23    | 3.04    | 3.46    | 3.45    | 1.82    | 3.36    | 4.62    | 3.17    | 2.99    | 5.09    | 3.46    | 3.44    |
| Nitrate/Nitrite as N          | mg/L   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |         |
| Ammonia as N ^                | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | 0.931   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^        | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | 0.0590  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                      | mg/L   | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.250  | <0.050  | <0.150  | <0.050  | <0.250  | <0.050  | <0.250  | <0.250  | <0.050  | <0.050  | <0.050  | <0.250  | <0.250  | <0.100  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |
| Arsenic                       | mg/L   | 0.0005  | 0.0005  | 0.0005  | <0.0005 | 0.0005  | 0.0005  | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.0008  | <0.0025 | 0.0005  | <0.0005 | <0.0025 | <0.0005 | 0.0006  | <0.0005 | <0.0025 | <0.0025 | 0.0013  | <0.0010 | <0.0010 | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                       | mg/L   | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0025 | <0.0005 | <0.0005 | <0.0005 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                        | mg/L   | 0.0035  | 0.003   | 0.0022  | 0.0025  | 0.0042  | 0.0015  | 0.0019  | 0.0012  | 0.0017  | 0.0017  | 0.0021  | 0.0007  | <0.0025 | 0.0039  | 0.0038  | 0.0059  | 0.0053  | 0.0067  | 0.0069  | 0.0067  | 0.0031  | 0.0022  | 0.0016  | 0.0035  | 0.0055  | 0.0067  | 0.0052  |
| Iron                          | mg/L   | 1.44    | 1.39    | 1.98    | 1.52    | 1.26    | 1.74    | 1.58    | 1.41    | 1.49    | 1.53    | 1.24    | 1.7     | 1.66    | 1.69    | 1.19    | 1.43    | 1.25    | 1.65    | 1.32    | 2.07    | 1.70    | 4.63    | 1.56    | 1.81    | 2.03    | 1.65    | 2.01    |
| Lead                          | mg/L   | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0025 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0100 | <0.0050 |
| Manganese                     | mg/L   | 0.307   | 0.306   | 0.498   | 0.286   | 0.355   | 0.439   | 0.428   | 0.354   | 0.366   | 0.369   | 0.297   | 0.297   | 0.414   | 0.388   | 0.308   | 0.387   | 0.325   | 0.410   | 0.349   | 0.501   | 0.471   | 0.922   | 0.162   | 0.422   | 0.517   | 0.451   | 0.402   |
| Mercury (dissolved)           | mg/L   | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0050 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |         |         |         |         |         |         |         |         |         |
| Mercury (dissolved low-level) | ng/L   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | <5.00   | <100    | <100    | <100    | <100    | <100    | <100    | <100    | <100    | <100    |
| Molybdenum                    | mg/L   | <0.0005 | <0.0005 | 0.0006  | <0.0005 | 0.0005  | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.0005  | <0.0025 | <0.0005 | <0.0005 | <0.0025 | <0.0005 | <0.0005 | 0.0005  | <0.0025 | <0.0025 |         |         |         |         |         |         |



GCC Energy Hydrologic Monitoring Data

| Well #2 Downgradient         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |      |  |  |
|------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|------|--|--|
| Year                         | 2018   |         |         |         |         | 2019    |         |         |         |         | 2020    |         |         |         |         | 2021    |         |         |         |         | 2022    |         |         |         |         | 2023    |         |         |         |    | 2024 |  |  |
| Quarter                      | Q1     | Q2      | Q3      | Q4      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |    |      |  |  |
| Month                        | 2      | 5       | 8       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 6       | 8       | 12      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |    |      |  |  |
| Sample Date                  | 2/22   | 5/7     | 8/8     | 8/9     | 11/7    | 2/27    | 5/22    | 8/16    | 11/13   | 2/6     | 6/1     | 8/26    | 12/14   | 2/11    | 5/19    | 8/12    | 11/10   | 2/28    | 5/9     | 8/9     | 12/13   | 3/28    | 5/19    | 8/18    | 11/21   | 2/26    | 6/20    | 8/20    |         |    |      |  |  |
| Lab Analysis (Y/N)           | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |    |      |  |  |
| Field Parameters:            |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |      |  |  |
| Purge Flow Rate              | gpm    | 0.1     | 1.00    | 0.10    | 1.00    | 0.50    | 0.25    | 0.50    | 0.25    | 0.50    | 0.25    | 0.25    | 0.13    | 0.50    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.04    | 0.33    | 0.60    | 0.34    | 0.19    | 0.23    | 0.38    | 0.23    |         |    |      |  |  |
| Total Purged                 | gal    | 6       | 11      | 2       | 6.5     | 7.5     | 13.0    | 10.0    | 9.0     | 7.5     | 12.0    | 8.0     | 7.0     | 12.0    | 9.0     | 7.0     | 12.0    | 6.0     | 9.0     | 19.0    | 0.4     | 5.4     | 8.0     | 5.2     | 4.6     | 4.8     | 4.4     | 3.6     |         |    |      |  |  |
| Depth to Water               | ft bgs | 6.68    | 7.4     | 6.65    | 6.59    | 5.17    | 5.85    | 0.92    | 3.60    | 5.20    | 5.60    | 4.00    | 6.29    | 7.48    | 8.10    | 8.70    | 8.32    | 8.75    | 9.14    | 9.70    | 10.25   | 9.65    | 8.55    | 8.65    | 8.95    | 10.07   | 9.70    | 10.50   | 11.75   |    |      |  |  |
| Temperature                  | deg C  | 9.8     | 8.9     | 14.0    | 11.1    | 11.9    | 9.1     | 8.1     | 10.5    | 11.5    | 10.4    | 9.1     | 11.5    | 11.0    | 9.8     | 9.4     | 11.2    | 12.1    | 10.1    | 9.5     | 11.1    | 11.2    | 9.2     | 8.7     | 11.3    | 11.4    | 9.8     | 9.2     | 10.3    |    |      |  |  |
| pH                           | SU     | 7.59    | 7.48    | 7.84    | 7.20    | 7.15    | 7.41    | 7.34    | 7.23    | 7.19    | 7.32    | 7.41    | 7.44    | 7.56    | 7.50    | 7.54    | 7.57    | 7.53    | 7.53    | 7.50    | 7.45    | 7.79    | 7.72    | 7.52    | 7.59    | 7.47    | 7.57    | 7.32    | 7.42    |    |      |  |  |
| Specific Conductance         | µS/cm  | 887     | 847     | 828     | 895     | 955     | 960     | 1091    | 1051    | 1083    | 1083    | 1134    | 1017    | 1099    | 964     | 939     | 1038    | 1073    | 1050    | 1019    | 1063    | 1201    | 1193    | 1253    | 1184    | 1202    | 1139    | 1093    | 1109    |    |      |  |  |
| Oxygen Reduction Potential   | mV     | -44.9   | -34     | -75.6   | -127    | -91.9   | 48.4    | -57.8   | -30.1   | -5.5    | 25.3    | -51.3   | 19.9    | 3.2     | -4.8    | -48.3   | -26.0   | -33.5   | -94.0   | -13.3   | -207.6  | -266.7  | 15.1    | 2.1     | -18.4   | -115.3  | -112.5  | -67.6   | -39.7   |    |      |  |  |
| Lab Analytical Results:      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |      |  |  |
| Hardness as CaCO3            | mg/L   | 412     | 415     | 422     | 415     | 465     | 488     | 537     | 513     | 603     | 540     | 575     | 560     | 569     | 624     | 529     | 503     | 521     | 500     | 527     | 551     | 557     | 503     | 641     | 646     | 582     | 500     | 540     | 553     |    |      |  |  |
| pH (Lab)                     | SU     | 7.62    | 7.6     | 7.61    | 7.45    | 7.50    | 7.5     | 7.4     | 7.04    | 7.12    | 7.20    | 7.09    | 7.3     | 7.2     | 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    |    |      |  |  |
| Total Dissolved Solids (Lab) | mg/L   | 515     | 545     | 545     | 575     | 550     | 575     | 695     | 655     | 690     | 695     | 730     | 665     | 685     | 660     | 655     | 685     | 655     | 605     | 645     | 680     | 695     | 770     | 775     | 855     | 745     | 660     | 670     | 680     |    |      |  |  |
| Calcium                      | mg/L   | 70.1    | 70.2    | 72.7    | 70.4    | 78.7    | 81.3    | 87.1    | 83.3    | 99.4    | 87.2    | 92.2    | 90.1    | 90      | 97.9    | 81.2    | 76.8    | 80.1    | 76.0    | 79.1    | 84.6    | 84.1    | 76.4    | 101     | 98.9    | 88.3    | 73.4    | 80.4    | 84.3    |    |      |  |  |
| Magnesium                    | mg/L   | 57.4    | 58.2    | 58.4    | 58.2    | 65.2    | 69.2    | 77.6    | 74.0    | 86.3    | 78.2    | 83.7    | 81.3    | 83.7    | 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    |    |      |  |  |
| Sodium                       | mg/L   | 19.4    | 19.2    | 19.6    | 19.1    | 21.3    | 22.1    | 23.4    | 21.4    | 25.5    | 23.3    | 24.5    | 23.8    | 24.5    | 26.9    | 23.4    | 23.1    | 23.3    | 23.3    | 24.9    | 26.1    | 62.7    | 24.6    | 30.7    | 33.8    | 29.3    | 27.0    | 28.6    | 30.1    |    |      |  |  |
| Potassium                    | mg/L   | 1.76    | 1.68    | 2.00    | 1.82    | 2.08    | 1.97    | 1.94    | 2.06    | 2.40    | 2.04    | 2.00    | 2.06    | 2.22    | <5.00   | 1.94    | <5.00   | 2.12    | 2.01    | 1.99    | 2.28    | 2.42    | <2.00   | 2.51    | 2.80    | 2.26    | 2.02    | 2.07    | 2.3     |    |      |  |  |
| Alkalinity, Total            | mg/L   | 333     | 350     | 380     | 328     | 340     | 395     | 460     | 365     | 348     | 324     | 324     | 345     | 341     | 385     | 375     | 380     | 540     | 372     | 385     | 288     | 358     | 379     | 395     | 379     | 390     | 372     | 385     | 400     |    |      |  |  |
| Alkalinity, Bicarbonate      | mg/L   | 333     | 350     | 380     | 328     | 340     | 395     | 460     | 365     | 348     | 324     | 324     | 345     | 333     | 385     | 375     | 380     | 540     | 372     | 385     | 288     | 358     | 379     | 395     | 379     | 390     | 372     | 385     | 400     |    |      |  |  |
| Alkalinity, Carbonate        | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |    |      |  |  |
| Alkalinity, Hydroxide        | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |    |      |  |  |
| Chloride                     | mg/L   | 24.7    | 27.2    | 34.5    | 34.1    | 39.3    | 40.1    | 42.9    | 45.2    | 47.2    | 48.9    | 50.3    | 44.8    | 44.6    | 46      | 45.9    | 37      | 44.3    | 41.1    | 38.1    | 41.9    | 53.1    | 49.2    | 54.4    | 52.0    | 46.9    | 43.0    | 44.1    | 43.4    |    |      |  |  |
| Fluoride                     | mg/L   | 0.244   | 0.224   | 0.259   | 0.281   | 0.263   | 0.244   | 0.246   | 0.221   | <0.500  | <0.500  | <0.500  | 0.254   | 0.248   | 0.216   | 0.236   | <0.500  | 0.210   | 0.251   | 0.217   | 0.229   | 0.268   | 0.262   | 0.210   | 0.220   | <0.200  | <0.200  | 0.236   | 0.234   |    |      |  |  |
| Sulfate as SO4               | mg/L   | 104     | 102     | 112     | 111     | 137     | 138     | 196     | 189     | 182     | 199     | 230     | 204     | 219     | 190     | 199     | 186     | 176     | 187     | 160     | 190     | 235     | 224     | 258     | 239     | 214     | 195     | 199     | 196     |    |      |  |  |
| Total Organic Carbon (TOC)   | mg/L   | 2.10    | 2.02    | 2.06    | 1.93    | 2.08    | 1.87    | 2.69    | 2.28    | 1.99    | 1.80    | 1.84    | 1.87    | 1.74    | 2.18    | 1.74    | 1.77    | 1.73    | 1.73    | 1.56    | 1.68    | 1.04    | 1.77    | 3.14    | 1.88    | 1.65    | 1.79    | 1.71    | 1.93    |    |      |  |  |
| Nitrate/Nitrite as N         | mg/L   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.029   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |    |      |  |  |
| Ammonia as N ^               | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.100  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA |      |  |  |
| Ortho-Phosphate as P ^       | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA |      |  |  |
| Aluminum                     | mg/L   | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.050  | <0.250  | <0.050  | <0.250  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.050  |    |      |  |  |
| Arsenic                      | mg/L   | 0.0010  | 0.0009  | 0.0012  | 0.0012  | 0.0010  | 0.0012  | 0.0011  | 0.0012  | 0.0012  | 0.0011  | 0.0009  | <0.001  | 0.0013  | <0.0025 | 0.0009  | 0.0012  | <0.0025 | 0.0007  | 0.0005  | 0.0009  | 0.0015  | <0.001  | <0.001  | <0.0010 | <0.0010 | 0.0011  | <0.0020 | <0.0010 |    |      |  |  |
| Cadmium                      | mg/L   | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001  | <0.001  | <0.001  | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 |    |      |  |  |
| Copper                       | mg/L   | 0.0056  | 0.0002  | 0.0006  | 0.0004  | 0.0003  | 0.001   | 0.0016  | 0.0003  | 0.0002  | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0025 | 0.0006  | 0.0005  | <0.0025 | <0.0005 | 0.0006  | 0.0006  | 0.0032  | 0.0050  | 0.0017  | 0.0025  | 0.0023  | 0.0025  | <0.0020 | 0.0096  |    |      |  |  |
| Iron                         | mg/L   | 0.060   | 0.073   | 0.089   | 0.163   | 0.082   | 0.062   | 0.116   | 0.105   | 0.119   | 0.094   | 0.107   | 0.109   | 0.159   | <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  |    |      |  |  |
| Lead                         | mg/L   | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <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  |    |      |  |  |
| Manganese                    | mg/L   | 0.304   | 0.306   | 0.349   | 0.375   | 0.320   | 0.423   | 0.504   | 0.404   | 0.427   | 0.454   | 0.444   | 0.412   | 0.441   | 0.422   | 0.401   | 0.389   | 0.438   | 0.403   | 0.384   | 0.397   | 0.477   | 0.431   | 0.293   | 0.416   | 0.464   | 0.399   | 0.440   | 0.373   |    |      |  |  |
| Mercury (dissolved)          | mg/L   | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0050 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.00   |         |         |         |         |         |         |         |         |    |      |  |  |



GCC Energy Hydrologic Monitoring Data

| Wiltse Well                   |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |
|-------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                          | 2018   |         |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |        | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                       | Q1     | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4     | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                         | 2      | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 2       | 5       | 8       | 11      | 3       | 6       | 8       | 11     | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |
| Sample Date                   | 2/22   | 5/16    | 8/9     | 11/8    | 2/28    | 5/23    | 8/19    | 11/11   | 2/17    | 5/13    | 8/12    | 12/15   | 2/24    | 5/21    | 8/11    | 11/3    | 3/1     | 6/1     | 8/10    | 11/26  | 3/28    | 5/19    | 8/18    | 11/29   | 2/23    | 6/21    | 8/20    |         |
| Lab Analysis (Y/N)            | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:             |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |
| Purge Flow Rate               | gpm    | 11.9    | 12.0    | 18.5    | 12.3    | 28.0    | 38.0    | 18.0    | 17.0    | 35.0    | 24.4    | 16.0    | 18.0    | 15.0    | 12.5    | 8.5     | 24.0    | 18.0    | 25.0    | 25.0   | 16.7    | 34.8    | 38.5    | 46.9    | 14.3    | 19.2    | 11.5    | 11.8    |
| Total Purged                  | gal    | 2700    | 2890    | 2783    | 2747    | 3017    | 3200    | 3010    | 3058    | 3825    | 3495    | 3200    | 3030    | 2920    | 3000    | 1800    | 2800    | 2900    | 2950    | 3000   | 3000    | 4000    | 4000    | 3100    | 2612    | 3753    | 3100    | 3199    |
| Depth to Water                | ft bgs | 3.35    | 3.93    | 4.13    | 3.78    | 2.40    | 0.05    | 2.47    | 2.68    | 0.43    | 1.60    | 3.18    | 5.65    | 3.64    | 3.70    | 4.55    | 4.10    | 4.70    | 3.70    | 2.82   | 1.60    | 0.30    | 0.20    | 3.35    | 3.10    | 0.80    | 3.30    | 2.65    |
| Temperature                   | deg C  | 8.0     | 10.2    | 11.7    | 10.4    | 8.0     | 9.3     | 10.7    | 9.9     | 6.7     | 9.8     | 11.7    | 8.7     | 8.9     | 9.9     | 11.3    | 10.8    | 9.5     | 10.8    | 12.4   | 9.7     | 7.2     | 9.0     | 11.3    | 11.9    | 7.3     | 10.5    | 11.9    |
| pH                            | SU     | 7.26    | 7.13    | 7.04    | 7.07    | 7.17    | 7.08    | 7.09    | 7.09    | 7.01    | 7.12    | 7.22    | 7.26    | 7.25    | 7.23    | 7.33    | 7.23    | 7.17    | 7.21    | 7.14   | 7.07    | 7.46    | 7.26    | 7.22    | 7.12    | 7.20    | 6.96    | 6.99    |
| Specific Conductance          | µS/cm  | 2232    | 2144    | 2072    | 2167    | 2170    | 2151    | 1964    | 1970    | 2171    | 2017    | 1450    | 1984    | 1739    | 1789    | 2012    | 2038    | 1965    | 2039    | 2285   | 2268    | 2518    | 2449    | 2332    | 2571    | 2651    | 2336    | 2542    |
| Oxygen Reduction Potential    | mV     | 14.3    | 29.9    | -52.7   | -18.8   | 22.7    | -10.6   | -23.7   | 51.9    | 49.33   | 71.9    | 72.2    | 73.7    | 6.9     | 31.2    | 41.5    | 50.5    | -26.1   | 32.4    | -76.3  | 41.4    | 34.4    | 39.9    | 5.5     | 45.5    | -30.9   | 12.7    | 10.7    |
| Lab Analytical Results:       |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |
| Hardness as CaCO3             | mg/L   | 1090    | 1160    | 1130    | 1180    | 1150    | 1080    | 1080    | 1060    | 982     | 1060    | 1070    | 1130    | 1090    | 1070    | 1080    | 1080    | 1070    | 1070    | 1300   | 1200    | 1330    | 1340    | 1380    | 1320    | 1340    | 1320    | 1350    |
| pH (Lab)                      | SU     | 7.70    | 8.35    | 7.22    | 7.42    | 7.38    | 7.35    | 7.11    | 7.09    | 7.12    | 7.09    | 7.29    | 6.86    | 7.27    | 6.98    | 7.25    | 7.52    | 7.25    | 7.15    | 7.39   | 7.42    | 7.17    | NA*     | 7.03    | 7.45    | 7.18    | 7.1     | 7.15    |
| Total Dissolved Solids (Lab)  | mg/L   | 1740    | 1740    | 1750    | 1720    | 1710    | 1670    | 1520    | 1480    | 1600    | 1560    | 1580    | 1540    | 1550    | 1500    | 1580    | 1640    | 1520    | 1580    | 1850   | 1740    | 2120    | 1980    | 1920    | 2050    | 2080    | 1900    | 2070    |
| Calcium                       | mg/L   | 211     | 216     | 221     | 230     | 226     | 214     | 214     | 208     | 191     | 206     | 206     | 215     | 208     | 199     | 206     | 209     | 208     | 206     | 255    | 232     | 261     | 269     | 273     | 251     | 255     | 259     | 265     |
| Magnesium                     | mg/L   | 136     | 150     | 139     | 147     | 143     | 132     | 132     | 132     | 123     | 132     | 136     | 144     | 138     | 140     | 136     | 136     | 133     | 135     | 160    | 151     | 164     | 162     | 170     | 168     | 170     | 163     | 167     |
| Sodium                        | mg/L   | 80.4    | 82.3    | 79.1    | 81.2    | 83.2    | 89.4    | 72.4    | 67.3    | 68.1    | 69.1    | 64      | 67.5    | 65.1    | 61.1    | 61.6    | 63.6    | 61.0    | 60.1    | 77.8   | 71.6    | 99.0    | 94.2    | 82.4    | 78.9    | 87.4    | 66.5    | 73.9    |
| Potassium                     | mg/L   | 4.73    | 4.98    | 5.01    | 5.00    | 5.01    | 4.77    | 4.92    | 4.85    | 4.33    | <5.00   | 4.48    | 4.54    | <5.00   | 4.35    | <5.00   | 4.41    | 4.42    | 4.41    | 4.92   | 4.20    | 5.43    | 5.12    | 5.74    | 5.31    | 4.52    | 4.98    | 5.29    |
| Alkalinity, Total             | mg/L   | 445     | 435     | 463     | 505     | 515     | 469     | 474     | 460     | 460     | 431     | 475     | 470     | 480     | 480     | 480     | 520     | 505     | 485     | 530    | 468     | 485     | 435     | 460     | 465     | 480     | 495     | 530     |
| Alkalinity, Bicarbonate       | mg/L   | 445     | 435     | 463     | 505     | 515     | 469     | 474     | 460     | 460     | 431     | 475     | 470     | 480     | 480     | 480     | 520     | 505     | 485     | 530    | 468     | 485     | 435     | 460     | 465     | 480     | 495     | 530     |
| Alkalinity, Carbonate         | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Alkalinity, Hydroxide         | mg/L   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |
| Chloride                      | mg/L   | 66.7    | 60      | 57.2    | 57.5    | 67.2    | 67.8    | 49.9    | 48.2    | 57.7    | 51.8    | 58.1    | 57.9    | 54.8    | 52.3    | 49      | 52.4    | 49.8    | 45.7    | 57.5   | 52.2    | 79.0    | 73.0    | 59.0    | 62.2    | 70.5    | 57.2    | 59.1    |
| Fluoride                      | mg/L   | <0.500  | <0.500  | <0.500  | 0.298   | 0.324   | 0.306   | <0.500  | <0.500  | <0.500  | <0.500  | 0.304   | 0.292   | 0.276   | 0.28    | <0.500  | 0.280   | 0.286   | 0.240   | 0.288  | 0.288   | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  |
| Sulfate as SO4                | mg/L   | 832     | 714     | 733     | 741     | 801     | 709     | 627     | 627     | 711     | 633     | 704     | 728     | 683     | 661     | 679     | 697     | 688     | 702     | 818    | 873     | 1070    | 1060    | 960     | 1020    | 1140    | 947     | 1040    |
| Total Organic Carbon (TOC)    | mg/L   | 3.37    | 3.5     | 3.51    | 3.63    | 3.82    | 4.87    | 4.27    | 3.30    | 4.22    | 3.80    | 3.69    | 3.43    | 3.29    | 3.33    | 3.48    | 3.37    | 3.21    | 3.19    | 3.72   | 1.95    | 5.38    | 5.82    | 6.11    | 3.96    | 4.72    | 3.76    | 3.87    |
| Nitrate/Nitrite as N          | mg/L   | 2.26    | 2.48    | 2.26    | 1.99    | 1.95    | 0.651   | 0.896   | 1.31    | 1.05    | 0.865   | 1.25    | 1.48    | 1.82    | 1.49    | 2.06    | 1.87    | 1.69    | 1.53    | 1.16   | 1.01    | 0.469   | 0.619   | 2.32    | 2.85    | 2.09    | 0.469   | 1.53    |
| Ammonia as N ^                | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.100  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^        | mg/L   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                      | mg/L   | <0.100  | <0.050  | <0.050  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.250  | <0.100  | <0.050  | <0.250  | <0.050  | <0.250  | <0.100  | <0.050  | <0.100  | <0.100 | <0.100  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.100  | <0.050  |
| Arsenic                       | mg/L   | 0.0009  | 0.0006  | <0.0025 | <0.001  | <0.0010 | 0.0006  | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0010 | 0.0005  | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0005 | 0.0007  | <0.001 | <0.001  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0050 | <0.0020 | <0.0010 |
| Cadmium                       | mg/L   | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0002 | <0.0001 | <0.0002 | <0.0002 | <0.0002 | <0.0005 | <0.0002 | <0.0001 | <0.0005 | <0.0025 | <0.0025 | <0.001  | <0.0005 | <0.0005 | <0.001 | <0.001  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0005 |
| Copper                        | mg/L   | 0.0020  | 0.0019  | 0.0018  | 0.0030  | 0.002   | 0.0021  | 0.0021  | 0.0012  | 0.0020  | <0.0025 | 0.0013  | 0.0006  | 0.0028  | <0.0025 | <0.0025 | 0.0033  | 0.0031  | 0.0049  | 0.0038 | 0.0060  | 0.0119  | 0.0043  | 0.0035  | <0.0100 | 0.0090  | 0.0052  | 0.019   |
| Iron                          | mg/L   | 0.132   | 0.151   | 0.125   | 0.121   | 0.151   | 0.379   | 0.287   | 0.209   | 0.285   | <0.250  | <0.100  | 0.216   | <0.250  | 0.304   | <0.250  | 0.154   | 0.129   | 0.212   | 0.161  | 0.178   | 0.255   | 0.252   | <0.250  | <0.250  | <0.150  | 0.194   | 0.220   |
| Lead                          | mg/L   | <0.0005 | <0.0005 | <0.0005 | <0.001  | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0010 | <0.0005 | <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  |
| Manganese                     | mg/L   | 0.845   | 0.997   | 1.370   | 1.080   | 0.937   | 0.357   | 0.902   | 0.892   | 0.419   | 0.816   | 1.030   | 0.943   | 1.210   | 0.980   | 1.400   | 1.340   | 1.260   | 1.350   | 0.974  | 0.982   | 0.507   | 0.842   | 1.640   | 1.330   | 0.635   | 1.220   | 1.140   |
| Mercury (dissolved)           | mg/L   | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |        |         |         |         |         |         |         |         |         |
| Mercury (dissolved low-level) | ng/L   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | <5.00  | <100    | <100    | <100    | <100    | <100    | <100    | <100    | <100    |
| Molybdenum                    | mg/L   | 0.0020  | 0.002   | 0.002   | 0.0019  | 0.0017  | 0.0014  | 0.0020  | 0.0017  | 0.0013  | <0.0025 | 0.0018  | 0.0017  | <0.0025 | <0.0025 | <0.0025 | 0.0017  | 0.0017  |         |        |         |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-HGA-4                      |        |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |      |  |  |  |
|-------------------------------|--------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|------|--|--|--|
| Year                          | 2018   |       |         |         |         | 2019    |         |         |         |         | 2020    |         |         |         |         | 2021    |         |         |         |         | 2022    |         |         |         |         | 2023    |         |         |         |  | 2024 |  |  |  |
| Quarter                       | Q1     |       | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      |  |      |  |  |  |
| Month                         | 1      | 2     | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 3       | 5       | 8       | 11      | 2       | 5       | 8       | 11      |  |      |  |  |  |
| Sample Date                   | 1/3    | 2/22  | 5/15    | 8/9     | 11/8    | 2/28    | 5/23    | 8/16    | 11/13   | 2/13    | 5/13    | 8/26    | 12/14   | 2/22    | 5/19    | 8/12    | 11/12   | 2/28    | 5/9     | 8/9     | 12/16   | 3/28    | 5/18    | 8/18    | 11/29   | 2/26    | 6/20    | 8/20    |         |  |      |  |  |  |
| Lab Analysis (Y/N)            | N      | Y     | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |  |      |  |  |  |
| Field Parameters:             |        |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |      |  |  |  |
| Purge Flow Rate               | gpm    | NM    | 0.1     | 1.5     | 2.00    | 1.00    | 1.12    | 1.00    | 1.00    | 0.25    | 1.00    | 0.25    | 0.25    | 0.13    | 0.25    | 0.13    | 0.25    | 0.25    | 0.25    | 0.25    | 0.50    | 0.08    | 0.23    | 0.10    | 0.05    | 0.08    | 0.08    | 0.06    |         |  |      |  |  |  |
| Total Purged                  | gal    | 19    | 21      | 21      | 19      | 21      | 24      | 22      | 21      | 21      | 22      | 21      | 20      | 21      | 21      | 20      | 22      | 21      | 21      | 22      | 0.5     | 0.4     | 0.5     | 0.25    | 0.2     | 0.2     | 0.2     | 0.2     |         |  |      |  |  |  |
| Depth to Water                | ft bgs | 1.37  | 0.55    | 2.60    | 3.98    | 1.90    | 0.49    | 0.42    | 1.95    | 1.15    | 0.38    | 2.36    | 3.80    | 1.75    | 0.90    | 2.91    | 3.95    | 2.33    | 0.95    | 2.02    | 1.61    | 0.92    | 0.47    | 1.03    | 4.05    | 0.85    | 0.35    | 3.05    | 0.65    |  |      |  |  |  |
| Temperature                   | deg C  | 8.8   | 7.8     | 8.1     | 8.7     | 8.8     | 7.6     | 7.7     | 8.5     | 8.8     | 7.9     | 7.4     | 9.2     | 8.6     | 7.8     | 8.2     | 8.9     | 9.2     | 8.3     | 8.1     | 9.2     | 9.1     | 8.2     | 10.0    | 11.5    | 8.3     | 8.8     | 10.0    | 13.5    |  |      |  |  |  |
| pH                            | SU     | 7.33  | 7.30    | 7.18    | 7.27    | 7.05    | 7.15    | 7.18    | 7.16    | 7.09    | 7.12    | 7.23    | 7.28    | 7.31    | 7.29    | 7.34    | 7.37    | 7.31    | 7.25    | 7.28    | 7.19    | 6.93    | 7.62    | 7.45    | 7.53    | 7.49    | 7.49    | 7.26    | 7.29    |  |      |  |  |  |
| Specific Conductance          | µS/cm  | 1141  | 1154    | 1098    | 1057    | 1167    | 1183    | 1102    | 1083    | 1127    | 1122    | 1093    | 1022    | 1158    | 975     | 1093    | 1108    | 1160    | 1197    | 1102    | 1198    | 970     | 1003    | 955     | 908     | 993     | 970     | 917     | 909     |  |      |  |  |  |
| Oxygen Reduction Potential    | mV     | -96.6 | -157.3  | -130.9  | -230.8  | -190.9  | -128.3  | -140.7  | -130.9  | -104.9  | -107.8  | -86.7   | -61.1   | -64.7   | -67.9   | -116.8  | -104.9  | -105.8  | -185.5  | -113.0  | -273.0  | -198.3  | -129.2  | -125.2  | -165.3  | -212.7  | -216.3  | -155.2  | -167.8  |  |      |  |  |  |
| Lab Analytical Results:       |        |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |      |  |  |  |
| Hardness as CaCO3             | mg/L   |       | 561     | 555     | 524     | 625     | 613     | 563     | 544     | 624     | 563     | 528     | 571     | 612     | 630     | 582     | 515     | 627     | 598     | 574     | 653     | 328     | 423     | 448     | 467     | 424     | 410     | 430     | 438     |  |      |  |  |  |
| pH (Lab)                      | SU     |       | 7.58    | 8.15    | 7.33    | 7.12    | 7.2     | 8.17    | 6.95    | 6.88    | 6.78    | 6.89    | 7.07    | 6.95    | 7.38    | 6.89    | 7.05    | 7.03    | 7.22    | 7.26    | 7.20    | 7.63    | 7.08    | 7.37    | 7.33    | 7.41    | 7.39    | 7.38    | 7.34    |  |      |  |  |  |
| Total Dissolved Solids (Lab)  | mg/L   |       | 740     | 730     | 695     | 770     | 795     | 695     | 695     | 715     | 705     | 685     | 700     | 665     | 685     | 680     | 735     | 790     | 790     | 785     | 745     | 400     | 555     | 545     | 525     | 555     | 570     | 525     | 575     |  |      |  |  |  |
| Calcium                       | mg/L   |       | 110     | 108     | 102     | 124     | 122     | 110     | 106     | 123     | 112     | 101     | 111     | 122     | 126     | 114     | 98.7    | 125     | 119     | 110     | 130     | 65.8    | 78.5    | 84.9    | 88.1    | 79.3    | 75.3    | 81.1    | 81.7    |  |      |  |  |  |
| Magnesium                     | mg/L   |       | 69.3    | 69      | 65.4    | 76.5    | 74.7    | 70.3    | 67.9    | 76.8    | 68.9    | 67.0    | 71.7    | 74.9    | 76.8    | 72      | 65.2    | 76.6    | 72.9    | 72.5    | 79.9    | 39.7    | 55.1    | 57.2    | 59.9    | 54.9    | 54.0    | 55.3    | 56.8    |  |      |  |  |  |
| Sodium                        | mg/L   |       | 26.5    | 30.4    | 29.9    | 27.6    | 27      | 28.6    | 28.3    | 31.9    | 27.9    | 30.3    | 30.5    | 26.8    | 28.4    | 27.4    | 26.4    | 23.1    | 23.9    | 28.1    | 27.1    | 14.9    | 36.9    | 39.4    | 41.5    | 38.0    | 37.3    | 38.1    | 38.5    |  |      |  |  |  |
| Potassium                     | mg/L   |       | 2.17    | 2.22    | 2.33    | 2.13    | 2.16    | 2.00    | 2.10    | 2.38    | 2.05    | 2.06    | 2.08    | 2.11    | 2.24    | 2.03    | <5.00   | <5.00   | 1.82    | 2.02    | 2.13    | 3.07    | 2.16    | 2.40    | 2.56    | 2.21    | 2.14    | 2.17    | 2.22    |  |      |  |  |  |
| Alkalinity, Total             | mg/L   |       | 460     | 425     | 410     | 460     | 455     | 445     | 455     | 432     | 435     | 416     | 485     | 457     | 475     | 465     | 470     | 580     | 470     | 435     | 500     | 245     | 460     | 420     | 361     | 370     | 390     | 410     | 425     |  |      |  |  |  |
| Alkalinity, Bicarbonate       | mg/L   |       | 460     | 425     | 410     | 460     | 455     | 445     | 455     | 432     | 435     | 416     | 485     | 457     | 475     | 465     | 470     | 580     | 470     | 435     | 500     | 245     | 460     | 420     | 361     | 370     | 390     | 410     | 425     |  |      |  |  |  |
| Alkalinity, Carbonate         | mg/L   |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |  |      |  |  |  |
| Alkalinity, Hydroxide         | mg/L   |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |  |      |  |  |  |
| Chloride                      | mg/L   |       | 8.43    | 7.57    | 6.47    | 9.40    | 10.5    | 8.06    | 8.44    | 9.46    | 8.39    | 7.64    | 8.78    | 10.1    | 9.65    | 9.41    | 11.1    | 13.9    | 12.0    | 10.2    | 14.6    | 28.7    | 3.40    | 3.41    | 3.62    | 3.56    | 3.63    | 3.72    | 3.58    |  |      |  |  |  |
| Fluoride                      | mg/L   |       | 0.496   | 0.459   | 0.482   | 0.487   | 0.484   | 0.456   | 0.443   | 0.520   | 0.447   | 0.449   | 0.431   | 0.473   | 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   |  |      |  |  |  |
| Sulfate as SO4                | mg/L   |       | 222     | 190     | 169     | 201     | 221     | 186     | 212     | 190     | 193     | 181     | 179     | 187     | 191     | 184     | 194     | 199     | 216     | 183     | 215     | 99.5    | 150     | 161     | 158     | 143     | 142     | 146     | 145     |  |      |  |  |  |
| Total Organic Carbon (TOC)    | mg/L   |       | 4.56    | 4.57    | 4.30    | 4.72    | 4.82    | 4.45    | 4.58    | 4.35    | 4.8     | 4.30    | 4.56    | 4.67    | 4.31    | 4.36    | 4.55    | 4.84    | 5.47    | 4.21    | 4.64    | 0.964   | 4.32    | 6.87    | 4.55    | 3.84    | 4.98    | 4.00    | 4.52    |  |      |  |  |  |
| Nitrate/Nitrite as N          | mg/L   |       | <0.020  | <0.020  | <0.020  | <0.020  | 0.173   | <0.020  | <0.020  | <0.020  | <0.020  | <0.100  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.073   | <0.020  | <5.00   | <0.100  | <0.020  | <0.020  | 0.423   | <0.020  |  |      |  |  |  |
| Ammonia as N ^                | mg/L   |       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | 0.528   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |  |      |  |  |  |
| Ortho-Phosphate as P ^        | mg/L   |       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |  |      |  |  |  |
| Aluminum                      | mg/L   |       | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.100  | <0.100  | <0.050  | <0.050  | <0.050  | <0.250  | <0.250  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.050  | <0.100  | <0.100  | <0.050  | <0.100  | <0.050  |  |      |  |  |  |
| Arsenic                       | mg/L   |       | 0.0037  | 0.0034  | 0.0036  | 0.0032  | 0.0031  | 0.0029  | 0.0028  | 0.0033  | 0.0022  | 0.0025  | 0.0026  | 0.0038  | 0.0036  | 0.0033  | 0.0034  | 0.0027  | 0.0036  | 0.0031  | 0.0034  | 0.0005  | 0.0041  | 0.0040  | 0.0040  | 0.0039  | 0.0040  | 0.0027  | 0.0039  |  |      |  |  |  |
| Cadmium                       | mg/L   |       | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0002 | <0.0001 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 |  |      |  |  |  |
| Copper                        | mg/L   |       | 0.0006  | 0.0008  | 0.0004  | 0.0008  | <0.0010 | 0.0003  | 0.0004  | 0.0002  | 0.0005  | <0.0010 | <0.0010 | <0.0005 | 0.0006  | 0.0007  | 0.0009  | <0.0025 | <0.0005 | 0.0010  | 0.0005  | 0.0068  | <0.0010 | 0.0027  | <0.0010 | <0.0040 | 0.0018  | <0.0020 | 0.0013  |  |      |  |  |  |
| Iron                          | mg/L   |       | 7.60    | 7.92    | 8.55    | 8.44    | 8.35    | 7.98    | 8.38    | 9.76    | 8.59    | 8.22    | 8.95    | 9.31    | 9.6     | 9.29    | 8.52    | 8.44    | 8.25    | 9.41    | 9.73    | <0.05   | 9.76    | 10.5    | 9.39    | 9.53    | 9.07    | 9.60    | 10.40   |  |      |  |  |  |
| Lead                          | mg/L   |       | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 |  |      |  |  |  |
| Manganese                     | mg/L   |       | 1.99    | 1.81    | 1.58    | 2.13    | 2.56    | 2.12    | 1.84    | 1.78    | 1.77    | 1.49    | 1.66    | 2.36    | 2.54    | 2.51    | 1.79    | 2.86    | 3.03    | 2.29    | 3.00    | 0.0622  | 0.479   | 0.441   | 0.422   | 0.454   | 0.416   | 0.437   | 0.392   |  |      |  |  |  |
| Mercury (dissolved)           | mg/L   |       | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |         |         |         |         |         |         |         |  |      |  |  |  |
| Mercury (dissolved low-level) | ng/L   |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |      |  |  |  |
| Molybdenum                    | mg/L   |       | 0.0030  | 0.0031  | 0.0038  | 0.0029  | 0.0026  | 0.0027  | 0.0029  | 0.0031  | 0.0025  | 0.0030  | 0.0032  | 0.0029  | 0.0027  | 0.003   | 0.0033  | 0.0024  | 0.0026  |         |         |         |         |         |         |         |         |         |         |  |      |  |  |  |





GCC Energy Hydrologic Monitoring Data

| MW-1-A                       |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |        |        |         |         |         |         |         |         |         |
|------------------------------|--------|--------|---------|--------|--------|---------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   |        |         |        |        |         |      |        | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |        |         |         | 2023   |        |         |         | 2024    |         |         |         |         |
| Quarter                      | Q1     |        | Q2      |        | Q3     |         | Q4   |        | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2     | Q3      | Q4      | Q1     | Q2     | Q3      | Q4      | Q1      | Q2      | Q3      |         |         |
| Month                        | 1      | 2      | 3       | 4      | 5      | 6       | 7    | 8      | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 2       | 5       | 8       | 11      | 3      | 6       | 9       | 12     | 3      | 6       | 8       | 11      | 3       | 6       | 8       |         |
| Sample Date                  | 1/2    | 2/9    | 3/22    | 4/11   | 5/10   | --      | 7/23 | 8/7    | 11/1    | 2/20    | 5/30    | 8/14    | 11/5    | 2/12    | 5/28    | 9/1     | 11/16   | 2/15    | 5/20    | 8/23    | 11/17   | 3/17   | 6/14    | 9/12    | 12/4   | 3/18   | 6/14    | 8/16    | 11/14   | 3/17    | 6/19    | 8/6     |         |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | N       | N    | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y      | Y      | Y       | Y       | Y       | Y       | Y       |         |         |
| Field Parameters:            |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |        |        |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | NM     | 0.1     | NM     | 0.1    | 0.1     | ***  | 0.12   | 0.10    | 0.09    | 0.12    | 0.12    | 0.06    | 0.25    | 0.25    | 0.13    | 0.13    | 0.13    | 0.13    | 0.25    | 0.25    | 0.25   | 0.25    | 0.15    | 0.25   | 0.08   | 0.10    | 0.10    | 0.18    | 0.10    | 0.11    | 0.10    |         |
| Total Purged                 | gal    | 1.5    | 2       | 1.5    | 1      | 1.3     |      | 1.5    | 1.5     | 1.6     | 1.0     | 1.5     | 1.1     | 1.5     | 1.0     | 1.0     | 1.0     | 1.3     | 1.0     | 2.0     | 1.0     | 1.3    | 1.0     | 1.0     | 1.0    | 0.8    | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     |         |
| Depth to Water               | ft bgs | 216.21 | 216.47  | 216.47 | 216.54 | 216.54  |      | 216.63 | 216.63  | 216.65  | 216.55  | 216.43  | 216.33  | 216.13  | 216.05  | 215.85  | 215.56  | 215.80  | 215.60  | 215.53  | 215.71  | 215.65 | 215.55  | 216.15  | 215.65 | 215.70 | 215.60  | 215.20  | 215.35  | 215.30  | 215.25  | 215.15  | 215.55  |
| Temperature                  | deg C  | 9.5    | 9.0     | 8.7    | 9.6    | 9.2     |      | 9.9    | 10.0    | 8.9     | 7.5     | 10.3    | 9.6     | 9.7     | 8.1     | 9.1     | 9.6     | 9.4     | 8.4     | 9.6     | 10.1    | 9.2    | 9.5     | 10.2    | 10.5   | 9.0    | 8.6     | 10.8    | 11.0    | 9.0     | 7.8     | 10.4    | 10.0    |
| pH                           | SU     | 7.19   | 7.37    | 7.28   | 6.8    | 6.97    |      | 6.99   | 7.05    | 7.01    | 7.13    | 6.96    | 7.05    | 7.00    | 7.13    | 7.18    | 7.22    | 7.24    | 7.19    | 7.30    | 7.35    | 7.17   | 7.22    | 7.31    | 7.29   | 6.82   | 7.34    | 7.49    | 7.37    | 7.54    | 7.60    | 6.97    | 7.14    |
| Specific Conductance         | µS/cm  | 1700   | 1723    | 1735   | 1647   | 1761    |      | 1734   | 1815    | 1781    | 1776    | 1681    | 1757    | 1737    | 1797    | 1855    | 1664    | 1670    | 1550    | 1647    | 1691    | 1792   | 1707    | 1717    | 1770   | 1733   | 1780    | 1676    | 1745    | 1738    | 1754    | 1656    | 1722    |
| Oxygen Reduction Potential   | mV     | -44.6  | -52.8   | -37.5  | 142.4  | 0.4     |      | -26.4  | -33.2   | 101.4   | -11.8   | 25.4    | -18.7   | 3.6     | 12.7    | 4.2     | -20.1   | 111.4   | 23.8    | -13.4   | -6.5    | 38.2   | -110.5  | -51.9   | -159.7 | -29.9  | 4.8     | 93.8    | 4.0     | -32.1   | -63.1   | -27.3   | -59.6   |
| Lab Analytical Results:      |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |        |        |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   |        | 159     |        |        | 156     |      |        | 160     | 174     | 159     | 153     | 148     | 150     | 159     | 165     | 161     | 168     | 168     | 150     | 158     | 157    | 152     | 149     | 146    | 172    | 174     | 158     | 150     | 166     | 160     | 171     | 161     |
| pH (Lab)                     | SU     |        | 7.22    |        |        | 7.45    |      |        | 7.17    | 7.27    | 7.13    | 7.03    | 7.14    | 6.92    | 7.19    | 6.91    | 7.23    | 7.17    | 7.22    | 7.13    | 7.1     | 7.05   | 7.30    | 7.15    | 7.36   | 7.37   | 7.01    | 7.20    | 7.38    | 7.39    | 6.95    | 7.24    | 7.32    |
| Total Dissolved Solids (Lab) | mg/L   |        | 1100    |        |        | 1150    |      |        | 1040    | 1130    | 1160    | 1150    | 1150    | 1140    | 1190    | 1150    | 1150    | 1170    | 1250    | 1150    | 1190    | 1150   | 1140    | 1140    | 1150   | 1050   | 1150    | 1180    | 1200    | 1110    | 1120    | 1110    | 1100    |
| Calcium                      | mg/L   |        | 30.5    |        |        | 29.7    |      |        | 30.9    | 34.0    | 31.2    | 29.8    | 27.9    | 29.0    | 30.9    | 31.6    | 30.6    | 32.8    | 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    |
| Magnesium                    | mg/L   |        | 20.1    |        |        | 19.9    |      |        | 20.1    | 21.5    | 19.7    | 19.1    | 18.9    | 18.8    | 19.9    | 20.8    | 20.6    | 20.9    | 21.4    | 19.2    | 20.3    | 20.0   | 19.7    | 19.2    | 18.7   | 21.9   | 22.0    | 20.2    | 19.6    | 21.3    | 20.3    | 21.5    | 20.6    |
| Sodium                       | mg/L   |        | 348     |        |        | 327     |      |        | 333     | 358     | 357     | 319     | 348     | 333     | 337     | 349     | 348     | 353     | 357     | 314     | 333     | 340    | 321     | 319     | 318    | 361    | 351     | 345     | 333     | 324     | 336     | 358     | 327     |
| Potassium                    | mg/L   |        | <5.00   |        |        | 2.12    |      |        | 2.23    | 2.47    | 2.34    | 2.18    | 2.29    | 2.12    | 2.13    | <5.00   | 2.29    | <3.00   | <5.00   | 2.18    | <5.00   | 2.34   | 2.23    | 2.01    | 2.12   | 2.11   | <5.00   | 2.15    | <5.00   | <2.00   | 2.14    | 2.22    | 2.35    |
| Alkalinity, Total            | mg/L   |        | 415     |        |        | 353     |      |        | 385     | 395     | 375     | 355     | 368     | 420     | 360     | 340     | 325     | 366     | 400     | 400     | 370     | 440    | 405     | 425     | 410    | 361    | 372     | 391     | 368     | 375     | 370     | 385     | 410     |
| Alkalinity, Bicarbonate      | mg/L   |        | 415     |        |        | 353     |      |        | 385     | 395     | 375     | 355     | 368     | 420     | 360     | 340     | 325     | 366     | 400     | 400     | 370     | 440    | 405     | 425     | 410    | 361    | 372     | 391     | 368     | 375     | 370     | 385     | 410     |
| Alkalinity, Carbonate        | mg/L   |        | <10.0   |        |        | <10.0   |      |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0  | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   |      |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0  | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   |        | 2.19    |        |        | <5.00   |      |        | 2.12    | 2.20    | 2.74    | 2.33    | 2.72    | 2.66    | 2.74    | 2.71    | 2.74    | 2.88    | 2.73    | 2.34    | 2.78    | <5.00  | 2.80    | 2.46    | 2.59   | 2.40   | 2.49    | 2.71    | 2.55    | 2.50    | 2.57    | 2.59    | <5.00   |
| Fluoride                     | mg/L   |        | 0.240   |        |        | <0.5    |      |        | 0.260   | 0.240   | 0.266   | 0.242   | 0.252   | 0.246   | 0.234   | 0.228   | 0.24    | 0.264   | 0.212   | 0.223   | 0.24    | <0.5   | <0.200  | 0.250   | 0.254  | 0.246  | 0.262   | 0.198   | 0.224   | <0.200  | 0.250   | 0.248   | <0.500  |
| Sulfate as SO4               | mg/L   |        | 518     |        |        | 522     |      |        | 515     | 511     | 508     | 494     | 537     | 495     | 506     | 532     | 510     | 508     | 553     | 531     | 507     | 458    | 503     | 516     | 532    | 517    | 562     | 607     | 587     | 510     | 557     | 552     | 493     |
| Total Organic Carbon (TOC)   | mg/L   |        | 1.51    |        |        | 1.54    |      |        | 1.60    | 1.75    | 1.61    | 1.67    | 1.59    | 1.50    | 1.55    | 1.55    | 1.49    | 1.57    | 1.58    | 1.49    | 1.57    | 1.51   | 1.56    | 1.41    | 1.39   | 1.41   | 1.63    | 1.76    | 1.55    | 1.55    | 1.66    | 1.53    | 1.49    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.020  |      |        | <0.020  | 0.028   | <0.020  | <0.020  | <0.020  | 0.020   | <0.020  | 0.046   | <0.020  | <0.020  | <0.020  | <0.020  | 0.036   | <0.020 | <0.020  | <0.020  | <0.020 | <0.020 | <0.020  | <0.040  | <0.020  | <0.020  | <0.020  | <0.020  | 0.722   |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | 0.387   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA     | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA     | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   |        | <0.250  |        |        | <0.050  |      |        | <0.050  | <0.100  | <0.100  | <0.050  | <0.050  | <0.050  | <0.100  | <0.250  | <0.050  | <0.050  | <0.250  | <0.050  | <0.250  | <0.100 | <0.050  | <0.050  | <0.100 | <0.100 | <0.250  | <0.250  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |
| Arsenic                      | mg/L   |        | <0.0025 |        |        | <0.0005 |      |        | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0025 | <0.0005 | <0.0015 | <0.0015 | <0.0025 | <0.001 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                      | mg/L   |        | <0.0005 |        |        | <0.0001 |      |        | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0002 | <0.0005 | <0.0001 | <0.0003 | <0.0015 | <0.0025 | <0.001 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   |        | 0.0066  |        |        | 0.0041  |      |        | 0.0048  | 0.0048  | 0.0075  | 0.0064  | 0.0040  | 0.0147  | 0.0034  | 0.0012  | 0.004   | 0.0024  | 0.0026  | 0.0059  | 0.0068  | 0.0086 | 0.0145  | 0.0112  | 0.0096 | 0.0078 | 0.0121  | 0.0193  | 0.0046  | 0.0079  | 0.0130  | 0.0149  | 0.0142  |
| Iron                         | mg/L   |        | 0.590   |        |        | 0.614   |      |        | 0.644   | 0.647   | 0.581   | 0.589   | 0.613   | 0.510   | 0.614   | 0.559   | 0.637   | 0.579   | 0.572   | 0.61    | 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  |
| Lead                         | mg/L   |        | <0.0025 |        |        | <0.0005 |      |        | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0025 | <0.0015 | <0.0015 |         |         |        |         |         |        |        |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-1-MI                       |        |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
|-------------------------------|--------|-----|------|------|------|-----|------|-----|------|------|------|------|------|------|------|-----|-------|------|------|------|-------|------|------|------|------|------|------|------|-------|------|------|-----|
| Year                          | 2018   |     |      |      |      |     |      |     |      | 2019 |      |      |      | 2020 |      |     |       | 2021 |      |      |       | 2022 |      |      |      | 2023 |      |      |       | 2024 |      |     |
| Quarter                       | Q1     |     |      | Q2   |      | Q3  |      |     | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  |
| Month                         | 1      | 2   | 3    | 4    | 5    | 6   | 7    | 8   | 11   | 2    | 5    | 8    | 11   | 2    | 5    | 9   | 11    | 2    | 5    | 8    | 11    | 3    | 6    | 9    | 12   | 3    | 6    | 8    | 11    | 3    | 6    | 8   |
| Sample Date                   | 1/2    | 2/9 | 3/22 | 4/11 | 5/10 | --  | 7/23 | 8/7 | 11/1 | 2/20 | 5/30 | 8/14 | 11/5 | 2/12 | 5/28 | 9/1 | 11/16 | 2/15 | 5/20 | 8/23 | 11/17 | 3/17 | 6/14 | 9/12 | 12/4 | 3/18 | 6/14 | 8/16 | 11/14 | 3/17 | 6/19 | 8/6 |
| Lab Analysis (Y/N)            | N      | N   | N    | N    | N    | N   | N    | Y   | N    | N    | N    | N    | N    | N    | N    | N   | N     | N    | N    | N    | N     | N    | N    | N    | N    | N    | N    | N    | N     | N    | N    | N   |
| Field Parameters:             |        |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Purge Flow Rate               | gpm    | dry | dry  | dry  | dry  | dry | dry  | dry | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry  | dry   | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry   | dry  | dry  |     |
| Total Purged                  | gal    |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Depth to Water                | ft bgs |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Temperature                   | deg C  |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| pH                            | SU     |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Specific Conductance          | µS/cm  |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Oxygen Reduction Potential    | mV     |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Lab Analytical Results:       |        |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Hardness as CaCO3             | mg/L   | N/A | N/A  | N/A  | N/A  | N/A | N/A  | N/A | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A | N/A   | N/A  | N/A  | N/A  | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A   | N/A  |      |     |
| pH (Lab)                      | SU     |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Total Dissolved Solids (Lab)  | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Calcium                       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Magnesium                     | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Sodium                        | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Potassium                     | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Alkalinity, Total             | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Alkalinity, Bicarbonate       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Alkalinity, Carbonate         | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Alkalinity, Hydroxide         | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Chloride                      | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Fluoride                      | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Sulfate as SO4                | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Total Organic Carbon (TOC)    | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Nitrate/Nitrite as N          | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Aluminum                      | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Arsenic                       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Cadmium                       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Copper                        | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Iron                          | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Lead                          | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Manganese                     | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Mercury (dissolved)           | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Mercury (dissolved low-level) | ng/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Molybdenum                    | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Selenium                      | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Silica (SiO2)                 | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Silicon                       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Uranium                       | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |
| Zinc                          | mg/L   |     |      |      |      |     |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |      |      |      |      |      |       |      |      |     |

| Notes & Definitions:  |                             |  |
|---|-----------------------------|--|
| Historical data prior to 2018 can be found in earlier posted versions of this table |                             |  |
| *** La Plata County stage 3 fire restrictions prevented sampling activity           |                             |  |
| Y/N   | yes or no                   | 1. "<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.  |
| gpm   | gallons per minute          |  |
| deg C   | degrees Celsius             | 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. |
| SU  | standard pH units           |  |
| µS/cm   | microsiemens per centimeter |  |
| mV  | millivolts                  |  |
| mg/L  | milligram per liter         | 3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.  |
| pCi/L   | picocuries per liter        |  |
| NM  | not measured (field)        |  |
| NA  | not analyzed (lab)          |  |
| ng/L  | nanogram per liter          |  |





GCC Energy Hydrologic Monitoring Data

| MW-1-C                        |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |      |      |       |      |  |  |
|-------------------------------|--------|--------|---------|--------|--------|---------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|-------|------|--|--|
| Year                          | 2018   |        |         |        |        |         |      |        |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |      |      |       | 2024 |  |  |
| Quarter                       | Q1     |        |         | Q2     |        |         | Q3   |        |         | Q4      |         |         | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3   | Q4   |       |      |  |  |
| Month                         | 1      | 2      | 3       | 4      | 5      | 6       | 7    | 8      | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 12      | 3       | 6    | 8    | 11    |      |  |  |
| Sample Date                   | 1/2    | 2/9    | 3/22    | 4/11   | 5/10   | --      | 7/23 | 8/7    | 11/18   | 2/20    | 5/30    | 8/14    | 11/5    | 2/12    | 5/28    | 9/1     | 11/16   | 2/15    | 5/20    | 8/23    | 11/17   | 3/17    | 6/14    | 9/12    | 12/4    | 3/19    | 6/14 | 8/16 | 11/14 |      |  |  |
| Lab Analysis (Y/N)            | N      | Y      | N       | N      | Y      | N       | N    | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | N       | N       | N    | N    | N     |      |  |  |
| Field Parameters:             |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |      |      |       |      |  |  |
| Purge Flow Rate               | gpm    | MM     | 0.1     | NM     | 0.1    | 0.1     | ***  | 0.05   | 0.1     | 0.10    | 0.06    | 0.02    | 0.03    | 0.01    | 0.01    | 0.10    | 0.05    | 0.05    | 0.05    | 0.05    | 0.05    | 0.01    | 0.13    | 0.13    | 0.13    | 0.13    | dry  | dry  | dry   | dry  |  |  |
| Total Purged                  | gal    | 1      | 1       | 1      | 1      | 1.25    |      | 1      | 1       | 1.10    | 1.00    | 1.10    | 1.00    | 1.00    | 1.00    | 0.75    | 0.80    | 1.00    | 1.00    | 2.00    | 1.00    | 1.25    | 1.00    | 1.00    | 1.00    | 1.00    |      |      |       |      |  |  |
| Depth to Water                | ft bgs | 216.38 | 216.38  | 216.37 | 216.35 | 216.41  |      | 216.41 | 216.05  | 216.04  | 216.41  | 216.20  | 216.02  | 216.04  | 216.12  | 216.10  | 216.41  | 216.66  | 216.66  | 216.66  | 216.66  | 216.66  | 216.66  | 216.66  | 216.66  | 216.04  |      |      |       |      |  |  |
| Temperature                   | deg C  | 9.7    | 9.6     | 6.7    | 9.2    | 10.5    |      | 20.0   | 14.1    | 9.7     | 5.4     | 9.8     | 10.4    | 11.1    | 6.4     | 9.5     | 11.2    | 9.7     | 7.0     | 10.7    | 12.1    | 10.1    | 7.7     | 12.3    | 12.7    | 7.4     |      |      |       |      |  |  |
| pH                            | SU     | 7.11   | 7.19    | 7.32   | 7.03   | 7.05    |      | 6.91   | 6.97    | 6.93    | 7.09    | 6.80    | 6.65    | 6.71    | 6.79    | 6.85    | 6.93    | 6.99    | 7.40    | 7.18    | 7.16    | 7.15    | 7.12    | 7.20    | 7.23    | 6.67    |      |      |       |      |  |  |
| Specific Conductance          | µS/cm  | 2778   | 2738    | 2751   | 2700   | 2749    |      | 2693   | 2675    | 2751    | 2621    | 3139    | 3172    | 3080    | 3005    | 3002    | 2653    | 2709    | 2410    | 2249    | 2290    | 2554    | 2223    | 2362    | 2278    | 2104    |      |      |       |      |  |  |
| Oxygen Reduction Potential    | mV     | 6.2    | -4.3    | -29.6  | -15.3  | -42.3   |      | -41.8  | -32.5   | -110.0  | -23.4   | 27.6    | 10.5    | 51.0    | 50.7    | -57.7   | 21.8    | 49.6    | 57.5    | -16.8   | 0.0     | -7.0    | -92.9   | -49.3   | -191.8  | -77.0   |      |      |       |      |  |  |
| Lab Analytical Results:       |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |      |      |       |      |  |  |
| Hardness as CaCO3             | mg/L   |        | 1190    |        |        | 1130    |      |        | 1120    | 1180    | 1010    | 1820    | 1840    | 1700    | 1600    | 1590    | 1400    | 1420    | 1320    | 953     | 975     | 920     | 750     | 766     | 638     | 640     |      |      |       |      |  |  |
| pH (Lab)                      | SU     |        | 7.22    |        |        | 7.2     |      |        | 7.20    | 7.02    | 7.24    | 6.93    | 6.67    | 6.63    | 6.80    | 6.62    | 6.83    | 7.12    | 7.08    | 6.86    | 7.04    | 6.89    | 7.22    | 7.06    | 7.40    | 6.98    |      |      |       |      |  |  |
| Total Dissolved Solids (Lab)  | mg/L   |        | 2360    |        |        | 2340    |      |        | 2170    | 2200    | 1960    | 2880    | 2890    | 2750    | 2610    | 2460    | 2420    | 2450    | 2330    | 1910    | 1850    | 1840    | 1680    | 1770    | 1640    | 1490    |      |      |       |      |  |  |
| Calcium                       | mg/L   |        | 219     |        |        | 203     |      |        | 203     | 219     | 188     | 340     | 342     | 318     | 301     | 294     | 248     | 265     | 241     | 175     | 178     | 168     | 142     | 137     | 113     | 117     |      |      |       |      |  |  |
| Magnesium                     | mg/L   |        | 156     |        |        | 150     |      |        | 148     | 154     | 131     | 237     | 240     | 219     | 207     | 207     | 189     | 183     | 173     | 126     | 129     | 122     | 95.7    | 103     | 86.6    | 84.4    |      |      |       |      |  |  |
| Sodium                        | mg/L   |        | 260     |        |        | 239     |      |        | 239     | 255     | 265     | 146     | 119     | 119     | 143     | 155     | 168     | 194     | 206     | 196     | 214     | 234     | 229     | 240     | 261     | 266     |      |      |       |      |  |  |
| Potassium                     | mg/L   |        | <5.00   |        |        | 3.07    |      |        | 3.04    | 2.65    | 3.13    | <5.00   | <5.00   | <5.00   | 3.05    | <5.00   | 2.82    | <5.00   | <5.00   | 2.68    | <5.00   | <3.00   | 2.68    | 2.48    | <5.00   | 2.27    |      |      |       |      |  |  |
| Alkalinity, Total             | mg/L   |        | 570     |        |        | 580     |      |        | 560     | 410     | 525     | 530     | 518     | 505     | 515     | 490     | 445     | 520     | 580     | 480     | 485     | 640     | 510     | 530     | 570     | 454     |      |      |       |      |  |  |
| Alkalinity, Bicarbonate       | mg/L   |        | 570     |        |        | 580     |      |        | 560     | 410     | 525     | 530     | 518     | 505     | 515     | 490     | 445     | 520     | 580     | 480     | 485     | 640     | 510     | 530     | 570     | 454     |      |      |       |      |  |  |
| Alkalinity, Carbonate         | mg/L   |        | <10.0   |        |        | <10.0   |      |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <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   |      |      |       |      |  |  |
| Chloride                      | mg/L   |        | 7.78    |        |        | 7.75    |      |        | 5.97    | 6.22    | 6.36    | 10.2    | 9.31    | 8.78    | 8.54    | 8.20    | 8.15    | 7.14    | 7.13    | 5.3     | 5.04    | 7.12    | 4.87    | 5.55    | 5.59    | 4.32    |      |      |       |      |  |  |
| Fluoride                      | mg/L   |        | 1.03    |        |        | 0.96    |      |        | 0.888   | 0.924   | 0.975   | 0.67    | 0.525   | 0.565   | 0.615   | 0.695   | 0.705   | 0.750   | 0.804   | 0.654   | 0.716   | 0.755   | 0.712   | 1.04    | 1.24    | 0.916   |      |      |       |      |  |  |
| Sulfate as SO4                | mg/L   |        | 1160    |        |        | 1210    |      |        | 1090    | 1080    | 1070    | 1630    | 1730    | 1520    | 1400    | 1370    | 1280    | 1180    | 1150    | 940     | 872     | 886     | 805     | 908     | 821     | 728     |      |      |       |      |  |  |
| Total Organic Carbon (TOC)    | mg/L   |        | 2.21    |        |        | 2.2     |      |        | 2.35    | 2.37    | 2.32    | 2.62    | 2.52    | 2.30    | 2.30    | 2.32    | 2.2     | 2.13    | 2.26    | 1.92    | 1.93    | 1.91    | 1.79    | 1.80    | 1.74    | 1.77    |      |      |       |      |  |  |
| Nitrate/Nitrite as N          | mg/L   |        | <0.020  |        |        | <0.020  |      |        | 0.036   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |      |      |       |      |  |  |
| Ammonia as N ^                | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | 0.140   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA   |      |       |      |  |  |
| Ortho-Phosphate as P ^        | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | <0.100  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA   |      |       |      |  |  |
| Aluminum                      | mg/L   |        | <0.250  |        |        | <0.05   |      |        | <0.05   | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.050  | <0.050  | <0.250  | <0.100  | <0.250  | <0.150  | <0.050  | <0.100  | <0.250  | <0.100  |      |      |       |      |  |  |
| Arsenic                       | mg/L   |        | <0.0025 |        |        | 0.0051  |      |        | 0.0052  | 0.0035  | 0.0038  | 0.0048  | 0.0034  | <0.0025 | <0.0025 | 0.0019  | <0.0025 | <0.0005 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | 0.0009  | 0.0024  | 0.0028  | <0.0010 |      |      |       |      |  |  |
| Cadmium                       | mg/L   |        | <0.0005 |        |        | <0.0001 |      |        | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0002 | <0.0005 | <0.0005 | <0.0003 | <0.0005 | <0.0001 | <0.0005 | <0.0025 | <0.0025 | <0.0010 | <0.0005 | <0.001  | <0.0025 | <0.0010 |      |      |       |      |  |  |
| Copper                        | mg/L   |        | 0.0052  |        |        | 0.003   |      |        | 0.0049  | 0.0033  | 0.0054  | 0.0057  | 0.0014  | 0.0096  | <0.0025 | <0.0015 | <0.0025 | <0.0005 | <0.0025 | 0.0042  | 0.0043  | 0.0064  | 0.0093  | 0.0086  | 0.0104  | 0.0120  |      |      |       |      |  |  |
| Iron                          | mg/L   |        | <0.250  |        |        | 0.643   |      |        | 1.01    | 1.12    | 0.988   | 2.3     | 0.819   | 0.543   | 0.570   | 0.606   | 0.619   | 0.855   | 0.769   | 0.552   | 0.573   | 0.724   | 0.630   | 0.671   | 0.679   | <0.100  |      |      |       |      |  |  |
| Lead                          | mg/L   |        | <0.0025 |        |        | <0.0005 |      |        | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0025 | <0.0025 | <0.0015 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0005 | <0.0010 | <0.0025 | <0.0010 |      |      |       |      |  |  |
| Manganese                     | mg/L   |        | 0.0989  |        |        | 0.153   |      |        | 0.140   | 0.106   | 0.0807  | 0.075   | 0.0562  | 0.0512  | 0.0537  | 0.0473  | 0.0445  | 0.0496  | 0.0482  | 0.0419  | 0.0383  | 0.0346  | 0.0362  | 0.0342  | 0.0304  | 0.0295  |      |      |       |      |  |  |
| Mercury (dissolved)           | mg/L   |        | <0.0002 |        |        | <0.0002 |      |        | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |      |      |       |      |  |  |
| Mercury (dissolved low-level) | ng/L   |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |      |      |       |      |  |  |
| Molybdenum                    | mg/L   |        | <0.0025 |        |        | 0.0006  |      |        | <0.0025 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0025 | <0.0025 | <0.0015 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0005 | <0.0010 | <0.0025 | <0.0010 |      |      |       |      |  |  |
| Selenium                      | mg/L   |        | <0.0050 |        |        | <0.001  |      |        | <0.0050 | 0.0011  | <0.0020 | 0.0016  | 0.0023  | <0.0050 | <0.0050 | <0.0030 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0020 | <0.0010 | <0.0020 | <0.005  | <0.002  |      |      |       |      |  |  |
| Silica (SiO2)                 | mg/L   |        | 14.8    |        |        | 15.2    |      |        | 14.7    | 14.5    | 14      | 16.6    | 17.3    | 16.4    | 15.7    | 13.8    | 14.1    | 14.8    | 14.4    | 15.0    | 14.5    | 14.8    | 14.2    | 13.0    | 11.7    | 13.4    |      |      |       |      |  |  |
| Silicon                       | mg/L   |        | 6.94    |        |        | 7.09    |      |        | 6.87    | 6.78    | 6.55    | 7.75    | 8.07    | 7.65    | 7.35    | 6.47    | 6.6     | 6.93    | 6.75    | 7.00    | 6.79    | 6.94    |         |         |         |         |      |      |       |      |  |  |

Notes & Definitions:

- Histor





GCC Energy Hydrologic Monitoring Data

| MW-2-A                        |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
|-------------------------------|--------|-----|------|------|------|-----|------|------|------|------|------|------|------|-----|-------|------|------|------|-------|------|------|-----|------|------|------|------|-------|------|------|-----|--|
| Year                          | 2018   |     |      |      |      |     |      | 2019 |      |      |      | 2020 |      |     |       | 2021 |      |      |       | 2022 |      |     |      | 2023 |      |      |       | 2024 |      |     |  |
| Quarter                       | Q1     |     |      | Q2   |      | Q3  | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  | Q4   | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  |  |
| Month                         | 1      | 2   | 3    | 4    | 5    | 8   | 11   | 2    | 5    | 8    | 11   | 2    | 5    | 9   | 11    | 2    | 5    | 8    | 11    | 3    | 6    | 9   | 12   | 3    | 6    | 8    | 11    | 3    | 6    | 8   |  |
| Sample Date                   | 1/2    | 2/9 | 3/22 | 4/11 | 5/10 | 8/7 | 11/1 | 2/20 | 5/29 | 8/14 | 11/6 | 2/11 | 5/27 | 9/1 | 11/24 | 2/15 | 5/20 | 8/24 | 11/17 | 3/23 | 6/14 | 9/8 | 12/4 | 3/31 | 6/14 | 8/18 | 11/13 | 3/17 | 6/19 | 8/6 |  |
| Lab Analysis (Y/N)            | N      | N   | N    | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    | N   | N     | N    | N    | N    | N     | N    | N    | N   | N    | N    | N    | N    | N     | N    | N    | N   |  |
| Field Parameters:             |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Purge Flow Rate               | gpm    | dry | dry  | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry  | dry   | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry   | dry  | dry  | dry |  |
| Total Purged                  | gal    |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Depth to Water                | ft bgs |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Temperature                   | deg C  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH                            | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Specific Conductance          | µS/cm  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Oxygen Reduction Potential    | mV     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lab Analytical Results:       |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Hardness as CaCO3             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH (Lab)                      | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Dissolved Solids (Lab)  | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Calcium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Magnesium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sodium                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Potassium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Total             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Bicarbonate       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Carbonate         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Hydroxide         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Chloride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Fluoride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sulfate as SO4                | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Organic Carbon (TOC)    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Nitrate/Nitrite as N          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Aluminum                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Arsenic                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Cadmium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Copper                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Iron                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lead                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Manganese                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved)           | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved low-level) | ng/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Molybdenum                    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Selenium                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silica (SiO2)                 | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silicon                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Uranium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Zinc                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |

Notes & Definitions:

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

- Y/N

yes or no
- gpm

gallons per minute
- deg C

degrees Celsius
- SU

standard pH units
- µS/cm

microsiemens per centimeter
- mV

millivolts
- mg/L

milligram per liter
- pCi/L

picocuries per liter
- NM

not measured (field)
- NA

not analyzed (lab)
- ng/L

nanogram per liter
1.

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

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

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



GCC Energy Hydrologic Monitoring Data

| MW-2-MI                       |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
|-------------------------------|--------|-----|------|------|------|-----|------|------|------|------|------|------|------|-----|-------|------|------|------|-------|------|------|-----|------|------|------|------|-------|------|------|-----|--|
| Year                          | 2018   |     |      |      |      |     |      | 2019 |      |      |      | 2020 |      |     |       | 2021 |      |      |       | 2022 |      |     |      | 2023 |      |      |       | 2024 |      |     |  |
| Quarter                       | Q1     |     |      | Q2   |      | Q3  | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  | Q4   | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  |  |
| Month                         | 1      | 2   | 3    | 4    | 5    | 8   | 11   | 2    | 5    | 8    | 11   | 2    | 5    | 9   | 11    | 2    | 5    | 8    | 11    | 3    | 6    | 9   | 12   | 3    | 6    | 8    | 11    | 3    | 6    | 8   |  |
| Sample Date                   | 1/2    | 2/9 | 3/22 | 4/11 | 5/10 | 8/7 | 11/1 | 2/20 | 5/29 | 8/14 | 11/6 | 2/11 | 5/27 | 9/1 | 11/24 | 2/15 | 5/20 | 8/24 | 11/17 | 3/23 | 6/14 | 9/8 | 12/4 | 3/31 | 6/14 | 8/18 | 11/13 | 3/17 | 6/19 | 8/6 |  |
| Lab Analysis (Y/N)            | N      | N   | N    | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    | N   | N     | N    | N    | N    | N     | N    | N    | N   | N    | N    | N    | N    | N     | N    | N    | N   |  |
| Field Parameters:             |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Purge Flow Rate               | gpm    | dry | dry  | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry  | dry   | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry   | dry  | dry  | dry |  |
| Total Purged                  | gal    |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Depth to Water                | ft bgs |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Temperature                   | deg C  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH                            | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Specific Conductance          | µS/cm  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Oxygen Reduction Potential    | mV     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lab Analytical Results:       |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Hardness as CaCO3             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH (Lab)                      | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Dissolved Solids (Lab)  | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Calcium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Magnesium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sodium                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Potassium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Total             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Bicarbonate       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Carbonate         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Hydroxide         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Chloride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Fluoride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sulfate as SO4                | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Organic Carbon (TOC)    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Nitrate/Nitrite as N          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Aluminum                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Arsenic                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Cadmium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Copper                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Iron                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lead                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Manganese                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved)           | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved low-level) | ng/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Molybdenum                    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Selenium                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silica (SiO2)                 | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silicon                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Uranium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Zinc                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |

Notes & Definitions:

- Y/N

yes or no
- gpm

gallons per minute
- deg C

degrees Celsius
- SU

standard pH units
- µS/cm

microsiemens per centimeter
- mV

millivolts
- mg/L

milligram per liter
- pCi/L

picocuries per liter
- NM

not measured (field)
- NA

not analyzed (lab)
- ng/L

nanogram per liter
1. "≤" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.





GCC Energy Hydrologic Monitoring Data

| MW-2-C                        |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
|-------------------------------|--------|-----|------|------|------|-----|------|------|------|------|------|------|------|-----|-------|------|------|------|-------|------|------|-----|------|------|------|------|-------|------|------|-----|--|
| Year                          | 2018   |     |      |      |      |     |      | 2019 |      |      |      | 2020 |      |     |       | 2021 |      |      |       | 2022 |      |     |      | 2023 |      |      |       | 2024 |      |     |  |
| Quarter                       | Q1     |     |      | Q2   |      | Q3  | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  | Q4   | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  |  |
| Month                         | 1      | 2   | 3    | 4    | 5    | 8   | 11   | 2    | 5    | 8    | 11   | 2    | 5    | 9   | 11    | 2    | 5    | 8    | 11    | 3    | 6    | 9   | 12   | 3    | 6    | 8    | 11    | 3    | 6    | 8   |  |
| Sample Date                   | 1/2    | 2/9 | 3/22 | 4/11 | 5/10 | 8/7 | 11/1 | 2/20 | 5/29 | 8/14 | 11/6 | 2/11 | 5/27 | 9/1 | 11/24 | 2/15 | 5/20 | 8/24 | 11/17 | 3/23 | 6/14 | 9/8 | 12/4 | 3/31 | 6/14 | 8/18 | 11/13 | 3/17 | 6/19 | 8/6 |  |
| Lab Analysis (Y/N)            | N      | N   | N    | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    | N   | N     | N    | N    | N    | N     | N    | N    | N   | N    | N    | N    | N    | N     | N    | N    | N   |  |
| Field Parameters:             |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Purge Flow Rate               | gpm    | dry | dry  | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry  | dry   | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry   | dry  | dry  | dry |  |
| Total Purged                  | gal    |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Depth to Water                | ft bgs |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Temperature                   | deg C  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH                            | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Specific Conductance          | µS/cm  |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Oxygen Reduction Potential    | mV     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lab Analytical Results:       |        |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Hardness as CaCO3             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| pH (Lab)                      | SU     |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Dissolved Solids (Lab)  | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Calcium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Magnesium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sodium                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Potassium                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Total             | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Bicarbonate       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Carbonate         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Alkalinity, Hydroxide         | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Chloride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Fluoride                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Sulfate as SO4                | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Total Organic Carbon (TOC)    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Nitrate/Nitrite as N          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Aluminum                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Arsenic                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Cadmium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Copper                        | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Iron                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Lead                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Manganese                     | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved)           | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Mercury (dissolved low-level) | ng/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Molybdenum                    | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Selenium                      | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silica (SiO2)                 | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Silicon                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Uranium                       | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |
| Zinc                          | mg/L   |     |      |      |      |     |      |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |  |

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"<" 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.
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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.
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GCC Energy Hydrologic Monitoring Data

| MW-3-A                       |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   |        |         |        |        |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q1     |        |         | Q2     |        | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                        | 1      | 2      | 3       | 4      | 5      | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 3       | 6       | 8       | 11      | 2       | 6       | 8       |         |
| Sample Date                  | 1/3    | 2/21   | 3/23    | 4/12   | 5/7    | 8/8     | 11/6    | 2/27    | 5/21    | 8/14    | 11/12   | 2/4     | 5/26    | 8/31    | 12/1    | 2/10    | 5/18    | 8/10    | 11/9    | 2/24    | 5/11    | 9/6     | 11/18   | 3/16    | 6/15    | 8/8     | 11/16   | 2/21    | 6/20    | 8/13    |         |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:            |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | 0.10    | 0.12    | 0.15    | 0.06    | 0.25    | 0.12    | 0.13    | 0.13    | 0.13    | 0.05    | 0.13    | 0.15    | 0.13    | 0.25    | 0.25    | 0.13    | 0.04    | 0.13    | 0.11    | 0.15    | 0.15    | 0.22    | 0.31    | 0.33    |         |
| Total Purged                 | gal    | 1.3    | 1.5     | 1.5    | 1.0    | 1.3     | 1.0     | 1.1     | 1.5     | 1.3     | 1.3     | 1.5     | 1.1     | 1.2     | 1.5     | 1.3     | 1.3     | 1.5     | 1.5     | 1.5     | 2.0     | 1.5     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     |         |
| Depth to Water               | ft bgs | 298.37 | 298.04  | 297.86 | 297.76 | 298.17  | 298.55  | 298.27  | 297.85  | 296.79  | 297.27  | 297.33  | 296.47  | 296.87  | 297.21  | 297.02  | 296.97  | 296.72  | 297.47  | 297.46  | 296.67  | 296.74  | 296.96  | 296.62  | 295.59  | 295.32  | 295.97  | 295.81  | 295.22  | 295.07  | 295.12  |
| Temperature                  | deg C  | 11.8   | 11.7    | 12.2   | 11.9   | 13.5    | 13.5    | 11.9    | 11.8    | 12.1    | NM      | 13.1    | 11.5    | 13.2    | 13.1    | 11.9    | 12.1    | 12.4    | 13.6    | 12.2    | 11.4    | 13.0    | 15.6    | 12.2    | 11.8    | 12.7    | 15.2    | 11.8    | 11.8    | 14.0    | 13.3    |
| pH                           | SU     | 8.54   | 8.52    | 8.61   | 8.21   | 8.38    | 8.30    | 8.31    | 8.28    | 8.31    | 8.13    | 8.51    | 8.11    | 8.26    | 8.23    | 8.39    | 8.53    | 8.46    | 8.42    | 8.47    | 8.35    | 8.21    | 8.12    | 8.66    | 8.06    | 7.97    | 8.63    | 8.50    | 8.48    | 8.37    | 8.48    |
| Specific Conductance         | µS/cm  | 2528   | 2506    | 2458   | 2415   | 2253    | 2336    | 2391    | 2355    | 2309    | NM      | 2204    | 2211    | 2249    | 2112    | 2192    | 1930    | 1525    | 2091    | 2127    | 2121    | 2055    | 2066    | 2057    | 2094    | 2050    | 1374    | 903     | 937     | 560     | 748     |
| Oxygen Reduction Potential   | mV     | -120.3 | -125.2  | -181.6 | -135.8 | -138.2  | -155.8  | -164.6  | -145.9  | -132.3  | -138.6  | -120.1  | -65.7   | -156.8  | -98.8   | -89.3   | -101.3  | -157.1  | -149.0  | -156.8  | -221.2  | -124.2  | -269.9  | -199.6  | -43.5   | -91.0   | -162.4  | -256.7  | -162.8  | -151.5  | -172.6  |
| Lab Analytical Results:      |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   |        | 11.5    |        |        | 11.2    | 12.6    | 14.1    | 11.9    | 10.7    | 10.4    | 11.1    | 10.8    | 10.3    | 11.1    | 9.41    | 10.5    | 8.14    | 8.89    | 8.68    | 8.56    | 9.01    | 9.33    | 7.59    | 8.38    | 8.76    | 5.89    | 9.30    | 8.16    | 8.68    | 9.42    |
| pH (Lab)                     | SU     |        | 8.45    |        |        | 8.36    | 8.37    | 8.24    | 8.28    | 8.29    | 8.27    | 8.39    | 8.09    | 7.68    | 8.16    | 8.13    | 8.13    | 8.22    | 8.21    | 8.19    | 8.17    | 8.28    | 8.09    | 8.15    | 7.63    | 7.97    | 8.40    | 8.37    | 8.20    | 8.44    | 8.50    |
| Total Dissolved Solids (Lab) | mg/L   |        | 1680    |        |        | 1670    | 1600    | 1540    | 1500    | 1530    | 1520    | 1510    | 1500    | 1460    | 1380    | 1460    | 1410    | 1350    | 1420    | 1360    | 1220    | 1400    | 1320    | 1280    | 1390    | 1310    | 1300    | 1290    | 1320    | 1280    | 1340    |
| Calcium                      | mg/L   |        | 3.33    |        |        | 3.2     | 3.71    | 4.15    | 3.55    | 3.16    | 3.08    | 3.34    | 3.14    | 3.07    | 3.02    | 2.83    | 3.07    | 2.48    | 2.59    | 2.53    | 2.42    | 2.63    | 2.59    | 2.21    | 2.42    | 2.51    | 2.36    | 2.57    | 2.25    | 2.48    | 2.61    |
| Magnesium                    | mg/L   |        | 0.776   |        |        | 0.774   | 0.811   | 0.913   | 0.739   | 0.692   | 0.655   | 0.680   | 0.723   | 0.645   | 0.866   | 0.568   | 0.698   | 0.475   | 0.586   | 0.577   | 0.610   | 0.594   | 0.694   | 0.503   | 0.570   | 0.603   | < 0.500 | 0.702   | 0.619   | 0.605   | 0.705   |
| Sodium                       | mg/L   |        | 562     |        |        | 542     | 562     | 605     | 543     | 525     | 553     | 528     | 520     | 507     | 510     | 505     | 536     | 471     | 462     | 448     | 462     | 473     | 476     | 420     | 440     | 456     | 450     | 459     | 436     | 458     | 454     |
| Potassium                    | mg/L   |        | <2.00   |        |        | 1.8     | <2.00   | 2.17    | <2.00   | 1.92    | <2.00   | <5.00   | <3.00   | <5.00   | <5.00   | <5.00   | <5.00   | <3.00   | <5.00   | <2.00   | 1.34    | <2.00   | <2.00   | <5.00   | <5.00   | <5.00   | <5.00   | <3.00   | <3.00   | <2.00   | 1.36    |
| Alkalinity, Total            | mg/L   |        | 430     |        |        | 480     | 480     | 475     | 540     | 450     | 459     | 420     | 460     | 430     | 440     | 470     | 520     | 530     | 465     | 485     | 495     | 560     | 500     | 400     | 454     | 458     | 447     | 465     | 465     | 510     | 580     |
| Alkalinity, Bicarbonate      | mg/L   |        | 360     |        |        | 480     | 420     | 385     | 330     | 430     | 423     | 420     | 460     | 400     | 440     | 450     | 520     | 530     | 465     | 435     | 455     | 480     | 500     | 400     | 454     | 458     | 415     | 455     | 465     | 510     | 580     |
| Alkalinity, Carbonate        | mg/L   |        | 70.0    |        |        | <10.0   | 60.0    | 90.0    | 210     | 20      | 36.0    | <10.0   | <10.0   | 30.0    | <10.0   | 20      | <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   |         |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   |        | 16.4    |        |        | 16.1    | 15.1    | 16.0    | 15.2    | 15      | 15.0    | 14.7    | 13.9    | 13.9    | 13.5    | 14      | 13.5    | 14      | 14.1    | 14.6    | 14.2    | 14.2    | 15.9    | 15.4    | 16.0    | 16.1    | 16.9    | 16.2    | 17.3    | 17.5    | 18.2    |
| Fluoride                     | mg/L   |        | <0.500  |        |        | <0.5    | NA      | 0.383   | 0.406   | 0.404   | 0.396   | <0.500  | 0.370   | 0.374   | 0.366   | 0.372   | 0.336   | 0.352   | 0.366   | 0.314   | 0.356   | 0.324   | 0.362   | <0.500  | <0.500  | 0.316   | <0.500  | 0.284   | <0.500  | 0.368   | 0.390   |
| Sulfate as SO4               | mg/L   |        | 812     |        |        | 756     | 706     | 682     | 716     | 699     | 724     | 633     | 637     | 656     | 624     | 644     | 600     | 601     | 599     | 515     | 584     | 555     | 557     | 565     | 571     | 573     | 560     | 552     | 545     | 545     | 525     |
| Total Organic Carbon (TOC)   | mg/L   |        | 5.32    |        |        | 4.7     | 4.62    | 4.52    | 4.15    | 4.10    | 3.84    | 3.81    | 3.42    | 3.48    | 3.39    | 3.15    | 3.16    | 3.18    | 3.01    | 3.02    | 2.96    | 2.84    | 3.02    | 1.54    | 3.04    | <2.5    | 4.44    | 2.93    | 3.25    | 2.96    | 3.93    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.020  | <0.020  | <0.020  | 0.266   | <0.020  | <0.020  | <0.020  | 0.024   | 0.026   | 0.039   | 0.032   | <0.020  | 0.024   | <0.020  | <0.020  | 0.022   | 0.030   | <0.020  | <0.020  | 0.117   | 0.061   | <0.020  | <0.020  | <0.020  | <0.020  | 0.060   |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.354   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.0730  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   |        | <0.100  |        |        | <0.050  | <0.050  | <0.100  | <0.100  | <0.050  | <0.100  | <0.250  | <0.150  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.100  | <0.050  | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.150  | <0.100  | <0.050  |
| Arsenic                      | mg/L   |        | <0.0025 |        |        | 0.0006  | <0.0025 | <0.0010 | <0.0010 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | 0.0026  | 0.0006  | 0.001   | 0.0018  | 0.0009  | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                      | mg/L   |        | <0.0005 |        |        | <0.0001 | <0.0001 | <0.0002 | <0.0002 | <0.0005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   |        | 0.0236  |        |        | 0.0063  | 0.0117  | 0.0086  | 0.0137  | 0.0078  | 0.0067  | 0.0039  | 0.0037  | 0.0021  | 0.0051  | 0.0055  | 0.0037  | 0.0157  | 0.0156  | 0.0113  | 0.0088  | 0.0114  | 0.0189  | 0.0106  | 0.0155  | 0.0196  | 0.0065  | 0.0096  | 0.0159  | 0.0180  | 0.0255  |
| Iron                         | mg/L   |        | <0.100  |        |        | <0.05   | <0.05   | <0.100  | <0.100  | <0.050  | <0.100  | <0.250  | <0.150  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.100  | <0.050  | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.150  | <0.100  | <0.050  |
| Lead                         | mg/L   |        | <0.0025 |        |        | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.001  | <0.002  | <0.0010 | <0.0025 | <0      |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-3-MI                       |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |
|-------------------------------|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Year                          | 2018   |        |         |        |        |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |        |        |
| Quarter                       | Q1     |        |         | Q2     |        | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2     | Q3     |
| Month                         | 1      | 2      | 3       | 4      | 5      | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 3       | 6       | 8       | 11      | 2       | 6      | 8      |
| Sample Date                   | 1/3    | 2/21   | 3/23    | 4/12   | 5/7    | 8/8     | 11/6    | 2/27    | 5/21    | 8/21    | 11/12   | 2/4     | 5/26    | 8/31    | 12/1    | 2/10    | 5/18    | 8/10    | 11/9    | 2/24    | 5/11    | 9/6     | 11/18   | 3/16    | 6/15    | 8/8     | 11/16   | 2/21    | 6/20   | 8/13   |
| Lab Analysis (Y/N)            | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y      |
| Field Parameters:             |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |
| Purge Flow Rate               | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | 0.10    | 0.12    | 0.12    | 0.06    | 0.25    | 0.50    | 0.25    | 0.13    | 0.13    | 0.10    | 0.13    | 0.13    | 0.25    | 0.25    | 0.25    | 0.15    | 0.10    | 0.11    | 0.12    | 0.26    | 0.33    | 0.09    | 0.17   | 0.17   |
| Total Purged                  | gal    | 1.3    | 1.5     | 1.5    | 1.0    | 1.3     | 1.0     | 1.5     | 1.3     | 2.0     | 1.0     | 1.5     | 1.3     | 1.8     | 1.3     | 1.3     | 1.5     | 1.5     | 1.3     | 1.5     | 2.0     | 1.3     | 1.3     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.3    | 1.1    |
| Depth to Water                | ft bgs | 240.73 | 240.55  | 240.65 | 240.84 | 241.04  | 241.97  | 242.15  | 242.32  | 246.55  | 243.07  | 242.85  | 243.05  | 243.6   | 243.9   | 243.93  | 244.25  | 244.28  | 244.15  | 242.90  | 244.05  | 244.65  | 244.3   | 243.83  | 249.55  | 242.86  | 242.65  | 242.35  | 242.4  | 242.35 |
| Temperature                   | deg C  | 11.9   | 11.3    | 11.9   | 11.8   | 12.6    | 13.0    | 12.4    | 11.6    | 11.3    | 13.2    | 12.3    | 11.6    | 12.6    | 12.8    | 11.7    | 11.5    | 12.8    | 13.0    | 11.9    | 11.4    | 13.2    | 13.7    | 11.6    | 11.7    | 12.5    | 13.1    | 12.3    | 11.7   | 13.1   |
| pH                            | SU     | 8.84   | 8.83    | 8.84   | 8.51   | 8.48    | 8.49    | 8.46    | 8.51    | 8.55    | 8.71    | 8.75    | 8.71    | 8.92    | 9.01    | 9.09    | 9.03    | 9.06    | 9.13    | 9.11    | 9.07    | 9.04    | 9.03    | 8.81    | 9.06    | 9.03    | 9.00    | 8.89    | 8.97   | 8.80   |
| Specific Conductance          | µS/cm  | 1790   | 1810    | 1771   | 1772   | 1727    | 1709    | 1746    | 1753    | 1739    | 1691    | 1739    | 1758    | 1737    | 1560    | 1555    | 1519    | 1232    | 1647    | 1765    | 1705    | 1686    | 1720    | 1739    | 1609    | 1737    | 1702    | 1784    | 1788   | 1704   |
| Oxygen Reduction Potential    | mV     | -136.0 | -131.4  | -160.7 | -99.9  | -103.9  | -127.8  | -176.5  | -113.0  | -84.5   | 43.9    | -130.8  | -104.3  | -174.5  | -111.0  | -132.4  | -94.6   | -120.4  | -142.9  | -163.3  | -207.2  | -104.2  | -184.3  | -158.9  | -186.8  | -192.3  | -213.0  | -263.6  | -279.2 | -222.1 |
| Lab Analytical Results:       |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |
| Hardness as CaCO3             | mg/L   |        | 9.92    |        |        | 8.65    | 8.63    | 8.88    | 7.63    | 6.84    | 7.98    | 6.64    | 6.50    | 7.25    | 6.39    | 5.94    | 6.63    | 5.06    | 5.39    | 5.21    | 5.28    | 5.13    | <3.31   | <3.31   | <3.31   | <3.31   | <3.31   | 5.20    | 4.21   | 5.20   |
| pH (Lab)                      | SU     |        | 8.66    |        |        | 8.56    | 8.58    | 8.34    | 8.5     | 8.45    | 8.58    | 8.62    | 8.61    | 8.59    | 8.87    | 8.77    | 8.72    | 8.84    | 8.81    | 8.88    | 8.78    | 8.87    | 8.76    | 8.78    | 8.63    | 8.71    | 8.84    | 8.85    | 8.76   | 8.76   |
| Total Dissolved Solids (Lab)  | mg/L   |        | 1170    |        |        | 1210    | 1110    | 1120    | 1120    | 1170    | 1010    | 1130    | 1130    | 1130    | 1060    | 1160    | 1120    | 1110    | 1180    | 1130    | 1070    | 1140    | 1080    | 1070    | 1140    | 1100    | 1070    | 1050    | 1120   | 1060   |
| Calcium                       | mg/L   |        | 2.22    |        |        | 1.91    | 1.95    | 2.03    | 1.87    | 1.7     | 2.04    | 1.73    | 1.63    | 1.76    | 1.62    | 1.42    | 1.66    | 1.28    | 1.34    | 1.25    | 1.30    | 1.32    | 1.14    | 1.15    | 1.24    | 1.11    | 1.10    | 1.34    | 1.14   |        |
| Magnesium                     | mg/L   |        | 1.07    |        |        | 0.945   | 0.911   | 0.926   | 0.715   | 0.629   | 0.703   | 0.561   | 0.591   | 0.694   | 0.570   | 0.579   | 0.606   | 0.454   | 0.5     | 0.508   | 0.496   | 0.442   | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | 0.449   | 0.332  |        |
| Sodium                        | mg/L   |        | 459     |        |        | 417     | 446     | 476     | 434     | 419     | 454     | 437     | 437     | 427     | 431     | 431     | 468     | 410     | 403     | 390     | 413     | 415     | 374     | 389     | 397     | 408     | 398     | 405     | 388    |        |
| Potassium                     | mg/L   |        | <2.00   |        |        | 1.63    | <2.00   | <2.00   | 1.39    | 1.65    | <2.00   | <5.00   | <2.00   | <5.00   | <3.00   | <4.00   | <5.00   | <2.00   | <2.00   | <2.00   | 1.27    | <2.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <2.00   | <2.00  |        |
| Alkalinity, Total             | mg/L   |        | 700     |        |        | 680     | 730     | 720     | 685     | 755     | 720     | 690     | 705     | 680     | 625     | 770     | 690     | 690     | 705     | 705     | 740     | 740     | 780     | 760     | 680     | 700     | 660     | 630     | 670    |        |
| Alkalinity, Bicarbonate       | mg/L   |        | 600     |        |        | 500     | 630     | 610     | 485     | 605     | 590     | 610     | 645     | 550     | 465     | 690     | 450     | 550     | 555     | 565     | 580     | 580     | 480     | 540     | 620     | 572     | 590     | 510     | 590    |        |
| Alkalinity, Carbonate         | mg/L   |        | 100     |        |        | 180     | 100     | 110     | 200     | 150     | 130     | 80.0    | 60.0    | 130     | 160     | 80      | 240     | 140     | 150     | 140     | 160     | 160     | 300     | 220     | 60.0    | 128     | 70.0    | 120     | 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   | <10.0   | <10.0   | <10.0   | <10.0  |        |
| Chloride                      | mg/L   |        | 10.7    |        |        | 10.7    | 8.54    | 8.83    | 9.21    | 9.25    | 10.2    | 9.13    | 9.21    | 9.61    | 9.45    | 10      | 9.84    | 10.5    | 10.4    | 10.4    | 10.6    | 10.2    | 11.2    | 10.7    | 10.9    | 10.8    | 10.8    | 10.7    | 10.7   |        |
| Fluoride                      | mg/L   |        | 1.30    |        |        | 1.2     | 1.16    | 1.19    | 1.21    | 1.22    | 1.19    | 1.19    | 1.13    | 1.13    | 1.09    | 1.12    | 1.03    | 1.09    | 1.07    | 0.980   | 1.10    | 0.982   | 1.11    | 1.08    | 1.10    | 1.02    | 0.862   | 0.924   | 0.940  |        |
| Sulfate as SO4                | mg/L   |        | 245     |        |        | 250     | 226     | 230     | 232     | 229     | 236     | 224     | 227     | 231     | 222     | 110     | 223     | 227     | 228     | 230     | 233     | 213     | 240     | 238     | 240     | 243     | 242     | 241     | 245    |        |
| Total Organic Carbon (TOC)    | mg/L   |        | 9.24    |        |        | 8.67    | 7.83    | 7.28    | 6.73    | 6.56    | 6.17    | 5.78    | 5.58    | 6.07    | 5.79    | 5.46    | 5.34    | 5.33    | 5.4     | 5.26    | 5.14    | 4.94    | 5.06    | 2.89    | 5.14    | 4.22    | 4.72    | 4.52    | 5.37   |        |
| Nitrate/Nitrite as N          | mg/L   |        | <0.020  |        |        | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.034   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 2.42    | <0.020  |        |        |
| Ammonia as N ^                | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.317   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |        |
| Ortho-Phosphate as P ^        | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.348   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |        |
| Aluminum                      | mg/L   |        | <0.100  |        |        | <0.050  | <0.050  | <0.10   | <0.050  | <0.050  | 0.167   | <0.250  | <0.100  | <0.250  | <0.150  | <0.200  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.100  |        |        |
| Arsenic                       | mg/L   |        | 0.0160  |        |        | 0.0152  | 0.0127  | 0.0104  | 0.0149  | 0.0107  | 0.0142  | 0.0099  | 0.0093  | 0.0086  | 0.0061  | 0.007   | 0.0083  | 0.0091  | 0.0091  | 0.0078  | 0.0095  | 0.0082  | 0.0084  | 0.0085  | 0.0078  | 0.0094  | 0.0076  | 0.0084  |        |        |
| Cadmium                       | mg/L   |        | <0.0001 |        |        | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0005 | <0.0001 | <0.0002 | <0.0002 | <0.0005 | <0.0005 | <0.0004 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0010 |        |        |
| Copper                        | mg/L   |        | 0.0122  |        |        | 0.0048  | 0.0071  | 0.0073  | 0.0068  | 0.0063  | 0.0049  | 0.0037  | 0.0024  | <0.0025 | 0.0046  | 0.0045  | 0.0031  | 0.0131  | 0.0143  | 0.0097  | 0.0072  | 0.0126  | 0.0170  | 0.0089  | 0.0143  | 0.0187  | 0.0080  | 0.0081  |        |        |
| Iron                          | mg/L   |        | <0.100  |        |        | <0.05   | <0.05   | <0.1    | <0.050  | <0.050  | <0.100  | <0.250  | <0.100  | <0.250  | <0.150  | <0.200  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.100  |        |        |
| Lead                          | mg/L   |        | <0.0005 |        |        | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0025 | <0.0005 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0020 | <0.0025 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0020 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0010 |        |        |
| Manganese                     | mg/L   |        | 0.0049  |        |        | 0.006   | 0.0054  | 0.0072  | 0.0078  | 0.0082  | 0.0079  | 0.0099  | 0.0095  | 0.0102  | 0.0072  | 0.007   | 0.0069  | 0.0057  | 0.0058  | 0.0054  | 0.0051  | 0.0049  | 0.0047  | 0.0058  | 0.0063  | 0.0058  | 0.0055  | 0.0059  |        |        |
| Mercury (dissolved)           | mg/L   |        | <0.0002 |        |        | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0050 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |         |         |         |         |         |         |         |        |        |
| Mercury (dissolved low-level) | ng/L   |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |





GCC Energy Hydrologic Monitoring Data

| MW-3-C                       |        |        |         |        |        |         |         |         |         |        |         |         |         |         |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |    |
|------------------------------|--------|--------|---------|--------|--------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------|----|
| Year                         | 2018   |        |         |        |        |         |         |         | 2019    |        |         |         |         | 2020    |         |        |         |         | 2021    |         |         |         |         | 2022    |         |         |         |         | 2023    |         |         |         |         | 2024   |       |    |
| Quarter                      | Q1     |        |         |        | Q2     |         |         |         | Q3      | Q4     | Q1      | Q2      | Q3      | Q4      | Q1      | Q2     | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |        |       |    |
| Month                        | 1      | 2      | 3       | 4      | 5      | 6       | 7       | 8       | 9       | 10     | 11      | 12      | 1       | 2       | 3       | 4      | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10     | 11    | 12 |
| Sample Date                  | 1/3    | 2/21   | 3/23    | 4/12   | 5/7    | 6/8     | 7/16    | 8/8     | 9/11    | 10/12  | 11/12   | 12/1    | 1/13    | 2/26    | 3/31    | 4/12   | 5/18    | 6/10    | 7/10    | 8/18    | 9/11    | 10/13   | 11/13   | 12/13   | 1/29    | 2/15    | 3/8     | 4/11    | 5/16    | 6/21    | 7/20    | 8/13    | 9/13    | 10/13  | 11/13 |    |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y     |    |
| Field Parameters:            |        |        |         |        |        |         |         |         |         |        |         |         |         |         |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |    |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | 0.10    | 0.10    | 0.06    | 0.06   | 0.13    | 0.13    | 0.10    | 0.03    | 0.08    | 0.13   | 0.13    | 0.13    | 0.13    | 0.15    | 0.10    | 0.15    | 0.03    | 0.24    | 0.09    | 0.11    | 0.10    | 0.12    | 0.08    | 0.11    | 0.12    | 0.08    | 0.11    | 0.12   | 0.08  |    |
| Total Purged                 | gal    | 1.5    | 1.5     | 1.5    | 1.0    | 1.3     | 1.3     | 1.1     | 1.3     | 1.5    | 10.0    | 1.5     | 11.0    | 1.1     | 1.3     | 1.5    | 1.3     | 1.5     | 1.3     | 1.5     | 1.5     | 1.5     | 1.5     | 1.0     | 1.0     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1    |       |    |
| Depth to Water               | ft bgs | 297.01 | 296.66  | 296.57 | 296.62 | 296.78  | 297.12  | 296.80  | 296.39  | 295.56 | 295.70  | 295.50  | 299.35  | 294.99  | 294.60  | 295.26 | 295.97  | 295.25  | 295.70  | 295.68  | 294.45  | 295.11  | 295.45  | 295.10  | 294.25  | 293.70  | 294.46  | 294.41  | 293.85  | 293.66  | 293.60  | 293.60  | 293.60  | 293.60 |       |    |
| Temperature                  | deg C  | 11.7   | 11.4    | 11.6   | 12.2   | 13.0    | 13.3    | 11.5    | 11.0    | 11.4   | 13.5    | 12.5    | 11.3    | 13.4    | 15.0    | 14.0   | 9.9     | 12.3    | 15.6    | 9.6     | 9.4     | 13.2    | 14.4    | 1.9     | 13.2    | 12.9    | 14.6    | 11.7    | 12.7    | 13.8    | 12.1    | 12.1    | 12.1    | 12.1   |       |    |
| pH                           | SU     | 8.43   | 8.43    | 8.45   | 8.25   | 8.28    | 8.26    | 8.17    | 8.28    | 8.29   | 8.31    | 8.20    | 7.98    | 8.44    | 8.45    | 8.73   | 8.71    | 8.50    | 8.71    | 8.85    | 8.62    | 8.43    | 8.29    | 9.15    | 8.44    | 8.42    | 8.37    | 8.26    | 8.24    | 8.17    | 8.24    | 8.24    | 8.24    | 8.24   |       |    |
| Specific Conductance         | µS/cm  | 4923   | 4864    | 5063   | 5019   | 4916    | 4953    | 5127    | 5155    | 5184   | 5144    | 5144    | 4921    | 3143    | 5039    | 4251   | 4426    | 3755    | 4571    | 5244    | 4564    | 4694    | 5306    | 2397    | 5300    | 5353    | 5283    | 5584    | 2560    | 5377    | 5484    | 5484    | 5484    | 5484   |       |    |
| Oxygen Reduction Potential   | mV     | -187.9 | -183.5  | -155.4 | -154.7 | -161.4  | -180.5  | -217.6  | -185.4  | -188.5 | -151.8  | -184.4  | -155.0  | -240.5  | -174.4  | -150.0 | -202.7  | -149.6  | -255.3  | -227.4  | -325.6  | -223.4  | -307.9  | -277.2  | 57.8    | -199.5  | -202.4  | -275.0  | -231.2  | -199.2  | -210.9  | -210.9  | -210.9  | -210.9 |       |    |
| Lab Analytical Results:      |        |        |         |        |        |         |         |         |         |        |         |         |         |         |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |    |
| Hardness as CaCO3            | mg/L   |        | 16.1    |        |        | 40.3    | 17.9    | 21.7    | 17.3    | 16.8   | 18.6    | 18.6    | 18.3    | 16.0    | 18.1    | 16.9   | 18.5    | 14.8    | 16.9    | 16.7    | 16.0    | 17.4    | 20.4    | 16.4    | 17.1    | 13.7    | 16.1    | 17.7    | 16.3    | 18.7    | 19.0    | 19.0    | 19.0    | 19.0   |       |    |
| pH (Lab)                     | SU     |        | 8.35    |        |        | 8.34    | 8.31    | 8.24    | 8.2     | 8.23   | 8.31    | 8.12    | 7.98    | 8.41    | 8.36    | 8.36   | 8.43    | 8.38    | 8.47    | 8.87    | 8.44    | 8.47    | 8.18    | 8.49    | 8.81    | 8.29    | 8.21    | 8.27    | 8.39    | 8.20    | 8.26    | 8.26    | 8.26    |        |       |    |
| Total Dissolved Solids (Lab) | mg/L   |        | 3540    |        |        | 3610    | 3520    | 3360    | 3300    | 3440   | 3500    | 3390    | 3220    | 3180    | 3170    | 3280   | 3200    | 3230    | 3300    | 3200    | 3270    | 3250    | 3280    | 3140    | 3150    | 2310    | 3220    | 3300    | 3360    | 3270    | 3390    | 3390    | 3390    | 3390   |       |    |
| Calcium                      | mg/L   |        | 3.81    |        |        | 7.28    | 4.01    | 4.70    | 4.05    | 3.74   | 4.30    | 4.23    | 4.26    | 3.81    | 3.97    | 3.72   | 4.25    | 3.59    | 3.84    | 3.76    | 3.66    | 4.10    | 4.49    | 3.68    | 3.91    | 3.32    | 3.63    | 3.97    | 3.74    | 4.26    | 4.28    | 4.28    | 4.28    |        |       |    |
| Magnesium                    | mg/L   |        | 1.59    |        |        | 5.38    | 1.92    | 2.41    | 1.75    | 1.8    | 1.91    | 1.94    | 1.86    | 1.58    | 1.98    | 1.84   | 1.92    | 1.42    | 1.77    | 1.78    | 1.67    | 1.74    | 2.23    | 1.75    | 1.77    | 1.33    | 1.70    | 1.89    | 1.70    | 1.97    | 2.03    | 2.03    | 2.03    |        |       |    |
| Sodium                       | mg/L   |        | 1200    |        |        | 1350    | 1220    | 1460    | 1270    | 1100   | 1360    | 1300    | 1280    | 1240    | 1250    | 1250   | 1360    | 1220    | 1220    | 1170    | 1200    | 1260    | 1360    | 1170    | 1260    | 906     | 1240    | 1270    | 1240    | 1300    | 1320    | 1320    | 1320    |        |       |    |
| Potassium                    | mg/L   |        | <10.0   |        |        | <5.00   | <5.00   | <5.00   | <5.00   | 5.24   | <5.00   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <6.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <10.0   | <5.00   | <10.0   | <10.0   | <6.00   | <10.0   | 3.97    | 3.97    | 3.97    |        |       |    |
| Alkalinity, Total            | mg/L   |        | 1910    |        |        | 1760    | 1730    | 2050    | 2000    | 2110   | 2190    | 2130    | 2160    | 2050    | 1820    | 2090   | 2170    | 2130    | 2140    | 2230    | 2180    | 2170    | 2110    | 2120    | 2220    | 1410    | 2140    | 2140    | 2180    | 2280    | 2160    | 2160    | 2160    | 2160   |       |    |
| Alkalinity, Bicarbonate      | mg/L   |        | 1810    |        |        | 1600    | 1670    | 1900    | 1830    | 2000   | 2020    | 2070    | 2000    | 1800    | 1690    | 1970   | 1710    | 1910    | 1950    | 1950    | 1820    | 1870    | 1990    | 2120    | 1920    | 1410    | 2070    | 2060    | 2060    | 2040    | 2000    | 2000    | 2000    | 2000   |       |    |
| Alkalinity, Carbonate        | mg/L   |        | 100     |        |        | 160     | 60.0    | 150     | 170     | 110    | 170     | 60.0    | 160     | 250     | 130     | 120    | 460     | 220     | 190     | 280     | 360     | 300     | 120     | <10.0   | 300     | <10.0   | 70.0    | 80.0    | 120     | 240     | 160     | 160     | 160     |        |       |    |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   | NA      | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |        |       |    |
| Chloride                     | mg/L   |        | 549     |        |        | 544     | 524     | 561     | 577     | 575    | 620     | 542     | 549     | 555     | 552     | 578    | 574     | 577     | 582     | 462     | 608     | 605     | 613     | 604     | 622     | 360     | 639     | 644     | 646     | 649     | 634     | 634     | 634     |        |       |    |
| Fluoride                     | mg/L   |        | 4.15    |        |        | 3.52    | 3.84    | 4.04    | 4.04    | 3.91   | 3.78    | 3.66    | 3.61    | 3.51    | 3.47    | 3.53   | 3.37    | 3.34    | 3.36    | 3.16    | 3.37    | 3.06    | 3.51    | 3.25    | 3.38    | 1.96    | 2.59    | 2.91    | 3.14    | 3.59    | 3.39    | 3.39    | 3.39    |        |       |    |
| Sulfate as SO4               | mg/L   |        | <10.0   |        |        | <5.00   | <5.00   | <5.00   | <5.00   | <5.00  | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00  | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <10.0   | 252     | <10.0   | <10.0   | <5.00   | 2.37    | <10.0   | <10.0   |         |        |       |    |
| Total Organic Carbon (TOC)   | mg/L   |        | 337     |        |        | 343     | 306     | 141     | 122     | 129    | 132     | 107     | 81.9    | 23.4    | 17.1    | 15.7   | 15.7    | 16.3    | 15.7    | 16.4    | 17.9    | 16.2    | 16.1    | 10.4    | 19.2    | 5.72    | 18.9    | 19.2    | 20.5    | 19.9    | 19.9    | 19.9    | 19.9    |        |       |    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.02   | <0.020  | <0.020  | <0.020  | <0.020 | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020 | <0.020  | <0.020  | <0.020  | <0.040  | <0.020  | <0.020  | <0.100  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |        |       |    |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA     | NA      | 0.500   | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |       |    |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA     | NA      | 0.212   | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |       |    |
| Aluminum                     | mg/L   |        | <0.500  |        |        | 1.47    | <0.500  | <0.250  | <0.250  | <0.500 | <0.250  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500 | <0.500  | <0.300  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.500  | <0.250  | <0.500  | <0.500  | <0.300  | <0.500  | <0.050  | <0.050  | <0.050  |        |       |    |
| Arsenic                      | mg/L   |        | 0.0194  |        |        | 0.0168  | 0.0148  | 0.0155  | 0.0218  | 0.0171 | 0.0192  | 0.0188  | 0.0087  | 0.0133  | 0.0106  | 0.0125 | 0.0113  | 0.0163  | 0.0195  | 0.0170  | 0.0157  | 0.0130  | 0.0151  | 0.0146  | 0.0194  | 0.0206  | 0.0149  | 0.0170  | 0.0171  | 0.0211  | 0.0204  | 0.0204  | 0.0204  |        |       |    |
| Cadmium                      | mg/L   |        | <0.0005 |        |        | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.001 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |        |       |    |
| Copper                       | mg/L   |        | 0.0409  |        |        | 0.0183  | 0.0257  | 0.0227  | 0.0223  | 0.0168 | 0.0102  | 0.0109  | 0.0069  | 0.0064  | 0.0136  | 0.0156 | 0.0102  | 0.0499  | 0.0434  | 0.0323  | 0.0287  | 0.0347  | 0.0555  | 0.0268  | 0.0220  | 0.0571  | 0.0185  | 0.0293  | 0.0460  | 0.0522  | 0.0742  | 0.0742  | 0.0742  |        |       |    |
| Iron                         | mg/L   |        | <0.500  |        |        | 0.252   | <0.500  | <0.250  | <0.250  | 0.344  | 0.328   | <0.500  | <0.500  |         |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |    |





GCC Energy Hydrologic Monitoring Data

| MW-4-A                       |        |        |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |        |
|------------------------------|--------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Year                         | 2018   |        |         |        |         |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |        |         | 2023    |         |         |         | 2024    |         |         |        |
| Quarter                      | Q1     |        | Q2      |        | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4     | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |        |
| Month                        | 1      | 2      | 3       | 4      | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 9      | 11      | 3       | 6       | 8       | 11      | 2       | 6       | 8       |        |
| Sample Date                  | 1/3    | 2/21   | 3/23    | 4/12   | 5/14    | 8/8     | 11/5    | 2/27    | 5/22    | 8/15    | 11/12   | 2/6     | 5/26    | 8/27    | 11/25   | 2/10    | 5/18    | 8/10    | 11/10   | 2/23    | 5/11    | 9/1    | 11/17   | 3/9     | 6/15    | 8/7     | 11/16   | 2/12    | 6/20    | 8/13    |        |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |        |
| Field Parameters:            |        |        |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |        |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10    | 0.10    | 0.10    | 0.06    | 0.06    | 0.06    | 0.13    | 0.03    | 0.03    | 0.13    | 0.13    | 0.05    | 0.13    | 0.25    | 0.20    | 0.22    | 0.13    | 0.13   | 0.06    | 0.05    | 0.03    | 0.08    | 0.05    | 0.06    | 0.04    | 0.05    |        |
| Total Purged                 | gal    | 1.3    | 1.5     | 1.5    | 1.0     | 1.5     | 1.5     | 1.1     | 1.5     | 1.3     | 1.1     | 1.0     | 1.5     | 1.2     | 1.3     | 1.3     | 1.3     | 1.5     | 1.3     | 1.8     | 1.5     | 1.0    | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     |        |
| Depth to Water               | ft bgs | 334.31 | 334.73  | 334.81 | 335.07  | 335.58  | 336.06  | 336.73  | 335.6   | 335.07  | 335.21  | 335.16  | 336.35  | 337.16  | 336.88  | 336.13  | 335.46  | 335.72  | 335.93  | 336.16  | 336.01  | 336.31 | 336.74  | 337.16  | 337.66  | 330.46  | 335.36  | 335.49  | 335.38  | 335.96  | 335.81 |
| Temperature                  | deg C  | 10.9   | 9.8     | 11.4   | 10.9    | 17.8    | 12.9    | 11.6    | 11.1    | 10.4    | 13.6    | 11.6    | 10.3    | 12.5    | 14.0    | 12.3    | 10.3    | 11.2    | 12.1    | 11.6    | 9.4     | 12.4   | 15.6    | 12.4    | 11.6    | 15.0    | 15.2    | 12.4    | 10.9    | 14.1    | 12.8   |
| pH                           | SU     | 8.33   | 8.37    | 8.41   | 8.19    | 8.20    | 8.10    | 8.12    | 8.15    | 8.08    | 8.02    | 8.11    | 8.07    | 8.19    | 8.27    | 8.30    | 8.25    | 8.30    | 8.38    | 8.38    | 8.35    | 8.34   | 8.33    | 8.77    | 8.41    | 8.38    | 8.33    | 8.25    | 8.25    | 8.12    | 7.18   |
| Specific Conductance         | µS/cm  | 2259   | 2267    | 2207   | 2214    | 2183    | 2192    | 2246    | 2205    | 2237    | 2201    | 2211    | 2271    | 2273    | 2165    | 2249    | 2052    | 1618    | 2205    | 2268    | 2294    | 2244   | 2236    | 2236    | 2090    | 2246    | 2171    | 2298    | 2291    | 2212    | 2249   |
| Oxygen Reduction Potential   | mV     | -35.2  | -75.9   | -117.3 | -77.9   | -81.8   | -137.5  | -157.6  | -92.3   | -89.3   | -54.3   | -19.8   | 15.3    | -71.3   | -11.5   | -10.6   | 29.0    | -63.4   | -48.7   | -77.3   | -153.2  | -78.6  | -203.9  | -66.6   | 35.8    | -41.9   | -76.5   | -167.0  | -207.3  | -80.1   | 4.7    |
| Lab Analytical Results:      |        |        |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |        |
| Hardness as CaCO3            | mg/L   |        | 7.73    |        | 7.84    | 7.69    | 8.81    | 7.76    | 7.31    | 8.62    | 8.00    | 8.19    | 7.46    | 7.87    | 7.77    | 8.87    | 7.02    | 5.81    | 7.54    | 8.32    | 7.88    | 8.44   | 7.41    | 7.78    | 8.02    | 6.50    | 7.47    | 7.88    | 8.97    | 8.43    |        |
| pH (Lab)                     | SU     |        | 8.28    |        | 8.31    | 8.21    | 8.24    | 8.05    | 8.08    | 8.15    | 8.02    | 8.11    | 7.90    | 8.19    | 8.16    | 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    |        |
| Total Dissolved Solids (Lab) | mg/L   |        | 1490    |        | 1470    | 1430    | 1350    | 1450    | 1410    | 1540    | 1490    | 1500    | 1480    | 1460    | 1560    | 1370    | 1430    | 1510    | 1470    | 1400    | 1540    | 1480   | 1430    | 1390    | 1480    | 1480    | 1400    | 1350    | 1430    | 1500    |        |
| Calcium                      | mg/L   |        | 1.81    |        | 1.75    | 1.71    | 1.92    | 1.77    | 1.68    | 1.94    | 1.82    | 1.88    | 1.67    | 1.79    | 1.73    | 2.04    | 1.65    | 1.41    | 1.76    | 1.87    | 1.88    | 1.95   | 1.67    | 1.73    | 1.83    | 1.58    | 1.75    | 1.83    | 2.11    | 1.97    |        |
| Magnesium                    | mg/L   |        | 0.778   |        | 0.846   | 0.832   | 0.973   | 0.809   | 0.756   | 0.914   | 0.837   | 0.850   | 0.798   | 0.826   | 0.836   | 0.917   | 0.704   | 0.555   | 0.765   | 0.890   | 0.771   | 0.868  | 0.783   | 0.842   | 0.839   | 0.616   | 0.751   | 0.803   | 0.897   | 0.853   |        |
| Sodium                       | mg/L   |        | 507     |        | 528     | 531     | 568     | 535     | 515     | 548     | 529     | 551     | 498     | 533     | 531     | 565     | 507     | 411     | 488     | 504     | 523     | 520    | 482     | 559     | 535     | 503     | 509     | 538     | 520     | 564     |        |
| Potassium                    | mg/L   |        | <2.00   |        | 1.5     | <2.00   | <2.00   | <2.00   | <2.00   | 4.75    | <5.00   | <3.00   | <5.00   | <5.00   | <5.00   | <5.00   | <3.00   | <5.00   | <2.00   | <2.00   | <2.00   | <5.00  | <5.00   | 1.24    | <5.00   | <5.00   | <3.00   | <2.00   | 1.53    |         |        |
| Alkalinity, Total            | mg/L   |        | 530     |        | 560     | 575     | 575     | 545     | 565     | 575     | 544     | 560     | 585     | 605     | 538     | 620     | 590     | 580     | 670     | 535     | 605     | 590    | 480     | 569     | 579     | 562     | 515     | 555     | 585     | 615     |        |
| Alkalinity, Bicarbonate      | mg/L   |        | 490     |        | 560     | 555     | 575     | 505     | 544     | 535     | 528     | 560     | 545     | 565     | 530     | 620     | 530     | 580     | 670     | 485     | 455     | 590    | 480     | 531     | 579     | 524     | 515     | 545     | 585     | 615     |        |
| Alkalinity, Carbonate        | mg/L   |        | 40.0    |        | <10.0   | 20.0    | <10.0   | 40      | 32      | 40.0    | 16.0    | <10.0   | 40.0    | 40      | <10.0   | <10.0   | 60      | <10.0   | <10.0   | 50.0    | 150     | <10.0  | <10.0   | 38.0    | <10.0   | 38.0    | <10.0   | <10.0   | <10.0   | <10.0   |        |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |        |
| Chloride                     | mg/L   |        | 10.0    |        | 9.94    | 9.55    | 8.60    | 8.93    | 8.99    | 8.91    | 8.76    | 8.83    | 8.89    | 10.1    | 9.15    | 8.79    | 9.15    | 9.17    | 9.04    | 9.04    | 8.97    | 9.89   | 9.61    | 9.72    | 10.3    | 10.6    | 10.3    | 11.3    | <25.0   | 10.1    |        |
| Fluoride                     | mg/L   |        | <0.500  |        | <0.500  | <0.500  | 0.143   | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.500  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200 | <0.500  | <0.500  | 0.165   | <0.500  | <0.500  | <1.00   | <2.50   | <0.500  |        |
| Sulfate as SO4               | mg/L   |        | 579     |        | 561     | 522     | 450     | 567     | 584     | 615     | 559     | 557     | 580     | 542     | 607     | 561     | 577     | 593     | 551     | 581     | 525     | 580    | 590     | 602     | 594     | 571     | 583     | 586     | 576     | 586     |        |
| Total Organic Carbon (TOC)   | mg/L   |        | 3.46    |        | 3.59    | 3.60    | 3.59    | 3.47    | 3.40    | 3.33    | 3.25    | 3.10    | 3.49    | 3.48    | 3.27    | 3.42    | 3.42    | 3.23    | 3.28    | 3.31    | 3.32    | 3.40   | 1.99    | 3.78    | 3.35    | 3.44    | 2.86    | 3.69    | 3.34    | 3.53    |        |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        | <0.02   | <0.02   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.255   | <0.020 | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |        |
| Ammonia as N ^               | mg/L   |        | NA      |        | NA      | NA      | NA      | NA      | NA      | NA      | NA      | 0.312   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        | NA      | NA      | NA      | NA      | NA      | NA      | NA      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |
| Aluminum                     | mg/L   |        | <0.100  |        | <0.05   | <0.05   | <0.100  | <0.100  | <0.100  | <0.100  | <0.250  | <0.150  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.100  | <0.100  | <0.100  | <0.250 | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.100  | <0.050  |        |
| Arsenic                      | mg/L   |        | 0.0019  |        | 0.0005  | <0.0025 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | 0.0005  | <0.0010 | <0.0010 | 0.0008  | <0.0010 | <0.001 | <0.001  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0050 | <0.0020 | <0.0010 |        |
| Cadmium                      | mg/L   |        | <0.0001 |        | <0.0001 | <0.0002 | <0.0002 | <0.0002 | <0.0001 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.001 | <0.001  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0005 |        |
| Copper                       | mg/L   |        | 0.0124  |        | 0.0077  | 0.0105  | 0.0084  | 0.0081  | 0.0061  | 0.0120  | 0.0037  | 0.0034  | 0.0020  | 0.0056  | 0.0053  | 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  | 0.029   |        |
| Iron                         | mg/L   |        | <0.100  |        | <0.050  | <0.050  | <0.100  | <0.100  | <0.100  | <0.100  | <0.250  | <0.150  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.100  | <0.100  | <0.100  | <0.250 | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.150  | <0.100  | <0.050  |        |
| Lead                         | mg/L   |        | <0.0005 |        | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <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 |        |
| Manganese                    | mg/L   |        | 0.0035  |        | 0.0033  | <0.0075 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |         |        |



GCC Energy Hydrologic Monitoring Data

| MW-4-MI                      |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   |        |         |        |        |         |         | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q1     |        | Q2      |        | Q3     | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |         |
| Month                        | 1      | 2      | 3       | 4      | 5      | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |
| Sample Date                  | 1/3    | 2/21   | 3/23    | 4/12   | 5/14   | 8/8     | 11/5    | 2/27    | 5/22    | 8/15    | 11/12   | 2/6     | 5/26    | 8/27    | 11/25   | 2/10    | 5/18    | 8/10    | 11/10   | 2/23    | 5/11    | 9/1     | 11/17   | 3/9     | 5/31    | 8/7     | 11/16   | 2/12    | 6/20    | 8/13    |         |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:            |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | 0.10    | 0.06    | 0.06    | 0.13    | 0.25    | 0.13    | 0.13    | 0.13    | 0.13    | 0.13    | 0.13    | 0.25    | 0.25    | 0.25    | 0.25    | 0.15    | 0.09    | 0.22    | 0.13    | 0.91    | 0.12    | 0.12    | 0.14    | 0.12    |         |
| Total Purged                 | gal    | 1.3    | 1.5     | 1.5    | 1.0    | 1.3     | 1.8     | 1.6     | 2.0     | 1.3     | 1.1     | 1.0     | 1.3     | 1.2     | 1.3     | 1.3     | 1.5     | 1.3     | 1.5     | 1.5     | 1.3     | 1.5     | 1.0     | 1.3     | 1.1     | 1.1     | 1.1     | 1.2     | 1.2     | 1.2     | 1.2     |
| Depth to Water               | ft bgs | 330.52 | 330.42  | 330.53 | 330.50 | 329.62  | 331.10  | 336.57  | 331.10  | 331.06  | 331.92  | 332.10  | 332.50  | 332.87  | 332.45  | 333.29  | 333.22  | 329.27  | 333.57  | 333.65  | 333.45  | 333.80  | 334.22  | 334.15  | 334.35  | 334.85  | 335.30  | 335.55  | 335.18  | 335.80  | 335.72  |
| Temperature                  | deg C  | 11.2   | 11.0    | 10.5   | 10.9   | 10.1    | 11.8    | 11.3    | 11.1    | 10.8    | 13.3    | 11.6    | 11.8    | 12.2    | 12.9    | 11.8    | 10.8    | 11.6    | 12.1    | 11.7    | 11.0    | 12.0    | 13.0    | 11.5    | 11.5    | 12.9    | 12.5    | 12.1    | 10.9    | 12.5    | 12.7    |
| pH                           | SU     | 8.62   | 8.48    | 8.53   | 8.01   | 8.50    | 8.14    | 8.25    | 8.38    | 8.23    | 8.14    | 8.26    | 8.18    | 8.42    | 8.45    | 8.57    | 8.57    | 8.60    | 8.59    | 8.59    | 8.46    | 8.56    | 8.51    | 7.87    | 8.62    | 8.62    | 8.62    | 8.53    | 8.08    | 7.63    | 7.61    |
| Specific Conductance         | µS/cm  | 1848   | 1856    | 1841   | 1816   | 1739    | 1756    | 1808    | 1716    | 1800    | 1830    | 1776    | 1795    | 1794    | 1730    | 1777    | 1605    | 1258    | 1711    | 1761    | 1745    | 1727    | 1718    | 1749    | 1673    | 1728    | 1710    | 1791    | 1784    | 1695    | 1712    |
| Oxygen Reduction Potential   | mV     | -112.5 | -151.3  | -145.7 | -117.7 | -130.0  | -178.2  | -202.3  | -140.4  | -154.7  | -127.3  | -76.8   | -50.6   | -131.2  | -92.0   | -87.7   | -53.9   | -105.9  | -97.8   | -118.1  | -141.5  | -128.8  | -247.1  | -131.9  | 85.0    | -139.7  | -81.2   | -267.6  | -266.9  | -140.8  | -93.9   |
| Lab Analytical Results:      |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   |        | 6.01    |        |        | 5.88    | 6.06    | 6.39    | 5.35    | 4.93    | 5.65    | 3.31    | 4.70    | <3.31   | 5.19    | 2.84    | 4.91    | 3.79    | 4.59    | 4.53    | 4.17    | 4.15    | 4.59    | <3.31   | 3.84    | 4.11    | <3.31   | 3.91    | 3.70    | 4.92    | 4.90    |
| pH (Lab)                     | SU     |        | 8.47    |        |        | 8.48    | 8.31    | 8.47    | 8.35    | 8.3     | 8.44    | 8.08    | 8.33    | 8.02    | 8.28    | 8.38    | 8.21    | 8.38    | 8.28    | 8.59    | 8.35    | 8.42    | 8.68    | 8.48    | 8.25    | 8.41    | 8.44    | 8.59    | 7.39    | 8.23    | 8.26    |
| Total Dissolved Solids (Lab) | mg/L   |        | 1220    |        |        | 1140    | 1120    | 1100    | 1130    | 1130    | 1140    | 1120    | 1110    | 1110    | 1070    | 1170    | 1130    | 1100    | 1130    | 1090    | 1100    | 1140    | 1070    | 1060    | 1030    | 1030    | 1060    | 1050    | 1000    | 1030    | 1120    |
| Calcium                      | mg/L   |        | 1.64    |        |        | 1.55    | 1.56    | 1.60    | 1.440   | 1.3     | 1.51    | 1.32    | 1.21    | 1.22    | 1.32    | 1.14    | 1.97    | 1.05    | 1.23    | 1.09    | 1.05    | 1.13    | 1.13    | 0.971   | 0.979   | 1.02    | 0.838   | 0.982   | 0.989   | 1.350   | 1.260   |
| Magnesium                    | mg/L   |        | 0.465   |        |        | 0.49    | 0.524   | 0.580   | 0.428   | 0.408   | 0.458   | <0.500  | 0.406   | <0.500  | 0.459   | <0.400  | <0.500  | 0.285   | 0.37    | 0.441   | 0.372   | 0.321   | 0.431   | <0.500  | 0.338   | 0.381   | <0.500  | 0.354   | 0.299   | 0.380   | 0.427   |
| Sodium                       | mg/L   |        | 447     |        |        | 471     | 470     | 500     | 462     | 458     | 496     | 477     | 441     | 460     | 459     | 458     | 476     | 431     | 427     | 418     | 430     | 443     | 448     | 384     | 468     | 427     | 428     | 424     | 439     | 427     | 440     |
| Potassium                    | mg/L   |        | <2.00   |        |        | 1.39    | <2.00   | <2.00   | 1.43    | 1.77    | 2.03    | <5.00   | <2.00   | <5.00   | <3.00   | <4.00   | <5.00   | <2.00   | <2.00   | <2.00   | <2.00   | <2.00   | <2.00   | <5.00   | <2.00   | <2.00   | <5.00   | <2.00   | <2.00   | <2.00   | 1.39    |
| Alkalinity, Total            | mg/L   |        | 965     |        |        | 955     | 968     | 995     | 510     | 890     | 970     | 978     | 985     | 1030    | 1020    | 1010    | 990     | 1020    | 985     | 1140    | 935     | 1020    | 1180    | 920     | 1040    | 965     | 955     | 985     | 975     | 1040    | 1070    |
| Alkalinity, Bicarbonate      | mg/L   |        | 875     |        |        | 865     | 896     | 885     | 420     | 650     | 880     | 886     | 895     | 935     | 940     | 965     | 910     | 900     | 865     | 1020    | 825     | 870     | 1040    | 720     | 980     | 865     | 907     | 945     | 975     | 995     | 1020    |
| Alkalinity, Carbonate        | mg/L   |        | 90.0    |        |        | 90      | 72.0    | 110     | 90      | 240     | 90.0    | 92.0    | 90.0    | 90.0    | 80      | 40      | 80      | 120     | 120     | 120     | 110     | 150     | 140     | 200     | 60.0    | 100     | 48.0    | 40.0    | <10.0   | 40.0    | 50.0    |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   |        | 8.74    |        |        | 7.99    | 5.68    | 5.38    | 5.98    | 5.98    | 5.83    | 5.47    | 5.37    | 5.11    | 5.02    | 4.97    | 4.89    | 4.85    | 4.91    | 4.98    | 4.55    | 4.36    | 4.29    | <5.00   | 25.4    | 3.91    | <5.00   | 3.62    | <5.00   | 3.46    | 3.36    |
| Fluoride                     | mg/L   |        | 5.02    |        |        | 4.82    | 4.84    | 4.94    | 5.49    | 5.44    | 5.38    | 5.31    | 5.11    | 5.16    | 5       | 5.27    | 4.92    | 5.03    | 5.2     | 4.78    | 5.16    | 4.73    | 5.42    | 5.13    | 5.42    | 5.31    | 4.32    | 4.83    | 5.08    | 5.66    | 5.57    |
| Sulfate as SO4               | mg/L   |        | 68.6    |        |        | 54.4    | 48.3    | 47.6    | 38.7    | 34.4    | 31.9    | 28.2    | 24.6    | 21.9    | 20      | 18.7    | 17.1    | 16.1    | 16.4    | 13.7    | 13.4    | 12.4    | 12.7    | 11.7    | 21.8    | 10.1    | <5.00   | 8.16    | 8.52    | 8.99    | 8.9     |
| Total Organic Carbon (TOC)   | mg/L   |        | 9.54    |        |        | 9.25    | 8.94    | 8.48    | 8.37    | 8.25    | 7.81    | 6.42    | 6.63    | 6.55    | 5.93    | 5.77    | 5.78    | 5.36    | 5.29    | 5.09    | 4.80    | 4.28    | 4.73    | 2.31    | 4.82    | 4.52    | 4.06    | 4.05    | 4.07    | 3.57    | 3.53    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.040   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.240   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.280   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   |        | <0.100  |        |        | <0.050  | <0.100  | <0.100  | <0.050  | <0.050  | <0.100  | <0.250  | <0.100  | <0.250  | <0.150  | <0.200  | <0.250  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.250  | <0.100  | <0.100  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |
| Arsenic                      | mg/L   |        | 0.0139  |        |        | 0.0153  | 0.014   | 0.0119  | 0.0164  | 0.0111  | 0.0116  | 0.0107  | 0.0127  | 0.0139  | 0.0084  | 0.0092  | 0.0088  | 0.011   | 0.0099  | 0.0093  | 0.0120  | 0.0092  | 0.0094  | 0.0090  | 0.0100  | 0.0074  | 0.0090  | 0.0101  | 0.0079  | 0.0082  | 0.0078  |
| Cadmium                      | mg/L   |        | <0.0001 |        |        | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0002 | <0.0001 | <0.0005 | <0.0004 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   |        | 0.0079  |        |        | 0.0063  | 0.0071  | 0.0078  | 0.0087  | 0.0153  | 0.0051  | 0.0027  | 0.0028  | 0.0020  | 0.0052  | 0.0045  | 0.004   | 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  |
| Iron                         | mg/L   |        | <0.100  |        |        | <0.050  | <0.100  | <0.100  | <0.050  | <0.050  | <0.100  | <0.250  | <0.100  | <0.250  | <0.150  | <0.200  | <0.250  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |
| Lead                         | mg/L   |        | <0.0005 |        |        | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0025 | <0.0020 | <0.0025 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.002  | <0.0010 | <0.001  | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0005 |
| Manganese                    | mg/L   |        | 0.0080  |        |        | 0.007   | 0.      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-4-C                       |        |        |         |        |        |         |         |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   |        |         |        |        |         |         | 2019    |         |         |         | 2020    |         |         |          | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q1     |        | Q2      |        | Q3     | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1       | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |         |
| Month                        | 1      | 2      | 3       | 4      | 5      | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 12       | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 3       | 5       | 8       | 11      | 2       | 6       | 8       |         |
| Sample Date                  | 1/3    | 2/21   | 3/23    | 4/12   | 5/14   | 8/8     | 11/5    | 2/27    | 5/22    | 8/15    | 11/12   | 2/4     | 5/26    | 8/27    | SQI inst | 2/10    | 5/18    | 8/10    | 11/10   | 2/23    | 5/11    | 9/1     | 11/17   | 3/9     | 5/31    | 8/18    | 11/16   | 2/12    | 6/20    | 8/13    |         |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y        | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:            |        |        |         |        |        |         |         |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | 0.10    | 0.20    | 0.12    | 0.06    | 0.13    | 0.13    | 0.13    | 0.13    | 0.10     | 0.13    | 0.13    | 0.13    | 0.25    | 0.25    | 0.18    | 0.08    | 0.09    | 0.16    | 0.08    | 0.08    | 0.12    | 0.11    | 0.08    |         |         |
| Total Purged                 | gal    | 1.5    | 1.5     | 1.5    | 1.0    | 1.5     | 1.0     | 1.3     | 1.5     | 1.3     | 1.1     | 1.0     | 1.5     | 1.2     | 1.5      | 1.3     | 1.5     | 1.5     | 1.5     | 1.5     | 1.0     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     |         |
| Depth to Water               | ft bgs | 282.35 | 281.30  | 303.30 | 304.05 | NM      | 302.55  | 302.17  | 302.45  | 303.93  | 304.93  | 305.73  | 306.44  | 304.90  | 307.80   | 308.05  | 308.65  | 308.58  | 309.32  | 309.90  | 309.80  | 311.45  | 310.88  | 311.37  | 310.15  | 311.45  | 311.85  | 311.55  | 311.35  | 310.24  | 311.74  |
| Temperature                  | deg C  | 11.7   | 10.8    | 12.5   | 11.4   | 12.4    | 12.9    | 11.5    | 11.3    | 11.2    | 12.5    | 11.7    | 11.2    | 12.7    | 13.0     | 11.4    | 10.0    | 11.4    | 12.3    | 11.7    | 10.3    | 12.2    | 13.8    | 12.1    | 11.1    | 13.8    | 13.7    | 12.4    | 11.0    | 12.8    | 12.7    |
| pH                           | SU     | 7.80   | 7.88    | 7.94   | 7.75   | 7.79    | 7.76    | 7.79    | 7.87    | 7.86    | 7.81    | 7.85    | 7.87    | 7.97    | 8.00     | 8.05    | 8.02    | 8.05    | 8.12    | 8.11    | 8.06    | 8.05    | 8.06    | 8.28    | 8.15    | 8.09    | 8.17    | 8.02    | 8.00    | 7.91    | 7.98    |
| Specific Conductance         | µS/cm  | 5834   | 5903    | 5628   | 5792   | 5592    | 5583    | 5775    | 5710    | 5712    | 5930    | 5636    | 5729    | 5636    | 5429     | 5665    | 5106    | 4047    | 5454    | 5687    | 5698    | 5645    | 5589    | 5649    | 5116    | 5678    | 5560    | 5842    | 5792    | 5580    | 5751    |
| Oxygen Reduction Potential   | mV     | -123.8 | -154.3  | -131.3 | -134.9 | -129.3  | -157.6  | -209.0  | -160.1  | -180.1  | -156.8  | -148.7  | -135.9  | -147.7  | -132.1   | -128.7  | -106.2  | -100.6  | -142.3  | -173.0  | -255.6  | -178.7  | -278.7  | -161.3  | -158.1  | -168.9  | -182.7  | -255.3  | -250.2  | -190.4  | -194.8  |
| Lab Analytical Results:      |        |        |         |        |        |         |         |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   |        | 26.5    |        |        | 26.2    | 25.9    | 28.6    | 23.6    | 22.5    | 25.2    | 24.4    | 24.0    | 22.7    | 23       | 21.8    | 25.6    | 19.6    | 21.9    | 20.9    | 22.2    | 21.4    | 26.0    | 20.1    | 21.1    | 21.0    | 24.3    | 22.1    | 23.5    | 20.9    | 23.7    |
| pH (Lab)                     | SU     |        | 7.84    |        |        | 7.97    | 7.96    | 8.27    | 7.9     | 7.92    | 7.95    | 7.85    | 7.95    | 7.76    | 7.92     | 7.94    | 7.96    | 7.97    | 7.96    | 8.08    | 8.01    | 8.07    | 8.19    | 8.15    | 7.98    | 8.12    | 8.04    | 8.13    | 7.65    | 8.01    | 8.05    |
| Total Dissolved Solids (Lab) | mg/L   |        | 3730    |        |        | 3660    | 3650    | 3590    | 3580    | 3590    | 3610    | 3610    | 3580    | 3570    | 3510     | 3610    | 3720    | 3540    | 3600    | 3630    | 3520    | 3580    | 3670    | 3530    | 3620    | 3450    | 3390    | 3560    | 3420    | 3490    | 3590    |
| Calcium                      | mg/L   |        | 6.32    |        |        | 6.15    | 5.90    | 6.60    | 5.5     | 5.21    | 5.83    | 5.61    | 5.57    | 5.31    | 5.3      | 5.15    | 5.98    | 4.64    | 5.07    | 4.77    | 5.04    | 5.14    | 6.01    | 4.65    | 4.78    | 4.78    | 5.69    | 5.15    | 5.54    | 4.89    | 5.49    |
| Magnesium                    | mg/L   |        | 2.61    |        |        | 2.62    | 2.72    | 2.94    | 2.39    | 2.3     | 2.57    | 2.53    | 2.44    | 2.30    | 2.36     | 2.18    | 2.58    | 1.95    | 2.25    | 2.19    | 2.33    | 2.07    | 2.68    | 2.07    | 2.22    | 2.20    | 2.45    | 2.23    | 2.36    | 2.11    | 2.42    |
| Sodium                       | mg/L   |        | 1410    |        |        | 1400    | 1410    | 1590    | 1410    | 1370    | 1440    | 1430    | 1440    | 1390    | 1400     | 1400    | 1520    | 1310    | 1340    | 1270    | 1360    | 1350    | 1530    | 1290    | 1410    | 1360    | 1440    | 1360    | 1410    | 1370    | 1480    |
| Potassium                    | mg/L   |        | <10.0   |        |        | <5.00   | <5.00   | 5.36    | <5.00   | <5.00   | 5.42    | <10.0   | <5.00   | <10.0   | <10.0    | <10.0   | <10.0   | <6.00   | <5.00   | <5.00   | <5.00   | <5.00   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <6.00   | 4.13    | 4.32    |
| Alkalinity, Total            | mg/L   |        | 2600    |        |        | 2410    | 2480    | 2450    | 2470    | 2550    | 2500    | 2470    | 2480    | 2460    | 2500     | 2950    | 2470    | 2500    | 2410    | 2630    | 2360    | 2500    | 2430    | 2250    | 2580    | 2240    | 2460    | 2460    | 2350    | 2580    | 2620    |
| Alkalinity, Bicarbonate      | mg/L   |        | 2600    |        |        | 2330    | 2480    | 2450    | 2470    | 2350    | 2390    | 2410    | 2420    | 2340    | 2390     | 2880    | 2430    | 2360    | 2290    | 2410    | 2180    | 2300    | 2430    | 2250    | 2490    | 2240    | 2330    | 2420    | 2330    | 2380    | 2280    |
| Alkalinity, Carbonate        | mg/L   |        | <10.0   |        |        | 80      | <10.0   | <10.0   | <10.0   | <10.0   | 200     | 110     | 60.0    | 60.0    | 120      | 110     | 70      | 40      | 140     | 120     | 220     | 180     | 200     | <10.0   | <10.0   | 90.0    | <10.0   | 130     | 40.0    | 20.0    | 340     |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   |        | 592     |        |        | 573     | 533     | 590     | 575     | 554     | 580     | 525     | 528     | 555     | 543      | 565     | 557     | 553     | 572     | 561     | 562     | 563     | 570     | 583     | 576     | 581     | 566     | 586     | 575     | 579     | 573     |
| Fluoride                     | mg/L   |        | 2.53    |        |        | 2.52    | 2.48    | 2.54    | 2.64    | 2.62    | 2.59    | 2.51    | 2.41    | 2.36    | 2.34     | 2.37    | 2.21    | 2.16    | 2.28    | 2.04    | 2.26    | 2.02    | 2.34    | 2.22    | 2.23    | 2.15    | 2.10    | 2.02    | 1.75    | 2.74    | 2.37    |
| Sulfate as SO4               | mg/L   |        | 34.5    |        |        | 27      | 18.7    | 11.2    | 5.07    | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00    | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <10.0   | <10.0   | <5.00   | <10.0   | <10.0   | 11.1    | <10.0   | <10.0   |         |
| Total Organic Carbon (TOC)   | mg/L   |        | 3.23    |        |        | 3.23    | 2.80    | 3.46    | 3.24    | 2.62    | 2.63    | 4.18    | 2.23    | 2.50    | 2.31     | 3.72    | 4.57    | 4.92    | 4.81    | 4.70    | 5.93    | 4.91    | 4.39    | 3.19    | 4.75    | 5.54    | 7.10    | 19.6    | 6.25    | 5.89    | 6.08    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.020  | <0.020  | <0.020  | 0.061   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.040  | <0.020  | <0.100  | <0.020  | <0.020  | <0.02   | <0.020  | <0.020  | 0.252   | <0.020  | <0.020  |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.424   | NA      | NA      | NA       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      | NA      | NA      | NA      | NA      | NA      | 0.182   | NA      | NA      | NA       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   |        | <0.500  |        |        | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.500  | <0.250  | <0.500  | <0.500   | <0.500  | <0.500  | <0.300  | <0.250  | <0.250  | <0.250  | <0.250  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.300  | <0.100  | <0.050  |
| Arsenic                      | mg/L   |        | 0.0246  |        |        | 0.0195  | 0.0202  | 0.0164  | 0.0211  | 0.0171  | 0.0178  | 0.0179  | 0.0203  | 0.0195  | 0.015    | 0.0182  | 0.0177  | 0.0212  | 0.0248  | 0.0213  | 0.0213  | 0.0172  | 0.0219  | 0.0207  | 0.0218  | 0.0155  | 0.0237  | 0.0179  | 0.0181  | 0.0221  | 0.0215  |
| Cadmium                      | mg/L   |        | <0.0005 |        |        | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001   | <0.001  | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0008  |
| Copper                       | mg/L   |        | 0.0482  |        |        | 0.0389  | 0.0280  | 0.0230  | 0.0249  | 0.0382  | 0.0198  | 0.0107  | 0.0111  | 0.0069  | 0.0151   | 0.0148  | 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  |
| Iron                         | mg/L   |        | <0.500  |        |        | 0.373   | 0.397   | 0.474   | 0.279   | 0.391   | 0.522   | 0.619   | 0.591   | 0.551   | <0.500   | 0.553   | 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   |
| Lead                         | mg/L   |        | <0.0025 |        |        | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0005 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0050  | <0.0050 | <0.0050 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0050 | <0.0025 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0005 |
| Manganese                    | mg/L   |        | 0.0647  |        |        | 0.0529  |         |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-5-A                       |        |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
|------------------------------|--------|-----|------|------|------|-----|------|-----|-------|------|------|------|------|------|------|-----|-------|------|------|------|-------|------|------|-----|------|------|------|------|-------|------|------|-----|
| Year                         | 2018   |     |      |      |      |     |      |     |       | 2019 |      |      |      | 2020 |      |     |       | 2021 |      |      |       | 2022 |      |     |      | 2023 |      |      |       | 2024 |      |     |
| Quarter                      | Q1     |     |      | Q2   |      | Q3  |      |     | Q4    | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  | Q4   | Q1   | Q2   | Q3   | Q4    | Q1   | Q2   | Q3  |
| Month                        | 1      | 2   | 3    | 4    | 5    | 6   | 7    | 8   | 11    | 2    | 5    | 8    | 11   | 2    | 5    | 9   | 11    | 2    | 5    | 8    | 11    | 3    | 6    | 9   | 12   | 3    | 6    | 8    | 11    | 3    | 6    | 8   |
| Sample Date                  | 1/2    | 2/9 | 3/22 | 4/11 | 5/10 | —   | 7/23 | 8/7 | 11/26 | 2/20 | 5/30 | 8/14 | 11/5 | 2/12 | 5/28 | 9/1 | 11/16 | 2/15 | 5/20 | 8/23 | 11/17 | 3/17 | 6/16 | 9/8 | 12/4 | 3/18 | 6/14 | 8/16 | 11/14 | 3/17 | 6/19 | 8/6 |
| Lab Analysis (Y/N)           | N      | N   | N    | N    | N    | N   | N    | N   | N     | N    | N    | N    | N    | N    | N    | N   | N     | N    | N    | N    | N     | N    | N    | N   | N    | N    | N    | N    | N     | N    | N    | N   |
| Field Parameters:            |        |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Purge Flow Rate              | gpm    | dry | dry  | dry  | dry  | *** | dry  | dry | dry   | dry  | dry  | dry  | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry  | dry   | dry  | dry  | dry | dry  | dry  | dry  | dry  | dry   | dry  | dry  | dry |
| Total Purged                 | gal    |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Depth to Water               | ft bgs |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Temperature                  | deg C  |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| pH                           | SU     |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Specific Conductance         | µS/cm  |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Oxygen Reduction Potential   | mV     |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Lab Analytical Results:      |        |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Hardness as CaCO3            | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| pH (Lab)                     | SU     |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Total Dissolved Solids (Lab) | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Calcium                      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Magnesium                    | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Sodium                       | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Potassium                    | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Alkalinity, Total            | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Alkalinity, Bicarbonate      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Alkalinity, Carbonate        | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Alkalinity, Hydroxide        | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Chloride                     | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Fluoride                     | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Sulfate as SO4               | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Total Organic Carbon (TOC)   | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Nitrate/Nitrite as N         | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Ammonia as N ^               | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Ortho-Phosphate as P ^       | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Aluminum                     | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Arsenic                      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Cadmium                      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Copper                       | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Iron                         | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Lead                         | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Manganese                    | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Mercury (total)              | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Mercury (total low-level)    | ng/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Molybdenum                   | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Selenium                     | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Silica (SiO2)                | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Silicon                      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Uranium                      | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |
| Zinc                         | mg/L   |     |      |      |      |     |      |     |       |      |      |      |      |      |      |     |       |      |      |      |       |      |      |     |      |      |      |      |       |      |      |     |

Notes & Definitions:

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



| Notes & Definitions: |  |   |
|----------------------|--|---|
|                      | <i>Historical data prior to 2018 can be found in earlier posted versions of this table</i> |   |
| ***                  | <i>La Plata County stage 3 fire restrictions prevented sampling activity</i>               |   |
| ^                    | one-time analysis  |   |
| ~                    | instrument error   |   |
| 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 |
|                      | 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-5-C                       |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |      |       |         |         |
|------------------------------|--------|--------|---------|--------|--------|---------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------|------|-------|---------|---------|
| Year                         | 2018   |        |         |        |        |         |      |        | 2019    |         |         |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |        | 2024  |      |       |         |         |
| Quarter                      | Q1     |        | Q2      |        | Q3     |         | Q4   |        | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4     | Q1    | Q2   | Q3    |         |         |
| Month                        | 1      | 2      | 3       | 4      | 5      | 6       | 7    | 8      | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 9       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 12      | 3       | 6       | 8      | 11    | 3    | 6     | 8       |         |
| Sample Date                  | 1/2    | 2/9    | 3/22    | 4/11   | 5/10   | --      | 7/23 | 8/7    | 11/1    | 2/20    | 5/30    | 8/14    | 11/5    | 2/12    | 5/28    | 9/1     | 11/16   | 2/15    | 5/20    | 8/23    | 11/17   | 3/17    | 6/16    | 9/12    | 12/4    | 3/18    | 6/14    | 8/16   | 11/14 | 3/17 | 6/19  | 8/6     |         |
| Lab Analysis (Y/N)           | N      | Y      | N       | N      | Y      | N       | N    | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | N       | N      | N     | N    | Y     | Y       |         |
| Field Parameters:            |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |      |       |         |         |
| Purge Flow Rate              | gpm    | NM     | 0.10    | NM     | 0.10   | 0.10    | ***  | 0.10   | 0.10    | 0.10    | 0.12    | 0.12    | 0.06    | 0.25    | 0.13    | 0.25    | 0.13    | 0.13    | 0.25    | 0.15    | 0.25    | 0.28    | 0.25    | 0.25    | 0.15    | 0.20    | 0.09    | dry    | dry   | dry  | dry   | 0.16    | 0.09    |
| Total Purged                 | gal    | 1.5    | 2.0     | 1.5    | 1.0    | 1.3     |      | 1.3    | 1.5     | 1.6     | 1.3     | 1.5     | 1.3     | 1.1     | 1.0     | 1.0     | 1.0     | 1.0     | 1.5     | 1.5     | 1.0     | 1.5     | 1.0     | 1.0     | 1.0     | 0.9     | 0.8     |        |       |      |       | 0.8     |         |
| Depth to Water               | ft bgs | 225.40 | 222.46  | 219.31 | 218.22 | 216.04  |      | 210.87 | 210.50  | 205.10  | 198.44  | 193.20  | 191.11  | 189.20  | 187.50  | 187.70  | 189.72  | 192.15  | 195.08  | 197.82  | 200.27  | 202.00  | 204.14  | 205.57  | 206.15  | 207.75  | 208.90  |        |       |      |       | 210.40  | 211.40  |
| Temperature                  | deg C  | 9.3    | 9.4     | 9.6    | 9.7    | 10.1    |      | 10.7   | 10.7    | 9.4     | 8.6     | 10.1    | 10.9    | 10.3    | 8.8     | 10.9    | 10.9    | 10.0    | 9.1     | 10.5    | 10.8    | 9.6     | 9.6     | NM      | 10.8    | 9.2     | 9.1     |        |       |      |       | 10.9    | 9.8     |
| pH                           | SU     | 7.65   | 7.68    | 7.77   | 7.56   | 7.60    |      | 7.52   | 7.61    | 7.55    | 7.72    | 7.72    | 7.74    | 7.77    | 7.87    | 7.83    | 7.93    | 7.91    | 7.93    | 8.01    | 8.05    | 8.03    | 7.86    | 7.84    | 7.85    | 7.81    | 7.84    |        |       |      |       | 7.53    | 7.57    |
| Specific Conductance         | µS/cm  | 4974   | 4958    | 4285   | 4787   | 4772    |      | 4674   | 4687    | 4768    | 4623    | 4418    | 4355    | 4359    | 4230    | 4152    | 3677    | 4013    | 3625    | 3206    | 3685    | 3835    | 3695    | 3540    | 3565    | 3723    | 3782    |        |       |      |       | 3731    | 3866    |
| Oxygen Reduction Potential   | mV     | -99.8  | -90.5   | -84.6  | -49.6  | -51.3   |      | -59.5  | -66.4   | -138.0  | -56.2   | -29.9   | -88.2   | -58.7   | -45.5   | -128.2  | -88.6   | -52.8   | -49.8   | -116.6  | -104.5  | -101.3  | -187.4  | -84.5   | -180.7  | -39.2   | 8.3     | -103.2 | -80.0 |      |       |         |         |
| Lab Analytical Results:      |        |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |       |      |       |         |         |
| Hardness as CaCO3            | mg/L   |        | 61.3    |        |        | 50.3    |      |        | 51.2    | 51.4    | 43      | 41.1    | 38.8    | 34.9    | 34.8    | 33.2    | 30.8    | 31.7    | 29.4    | 28.0    | 23.9    | 26.0    | 26.8    | 28.1    | 32.6    | 29.1    | 31.5    |        |       |      |       | 34.8    | 36.1    |
| pH (Lab)                     | SU     |        | 7.74    |        |        | 7.79    |      |        | 7.64    | 7.69    | 7.72    | 7.46    | 7.75    | 7.66    | 7.74    | 7.73    | 7.8     | 7.92    | 8.03    | 7.82    | 7.87    | 7.81    | 7.88    | 7.65    | 7.85    | 7.98    | 7.67    |        |       |      |       | 7.67    | 7.70    |
| Total Dissolved Solids (Lab) | mg/L   |        | 3480    |        |        | 3430    |      |        | 3290    | 3260    | 3160    | 3090    | 3130    | 3010    | 2970    | 2800    | 2750    | 2640    | 2710    | 2590    | 2670    | 2520    | 2530    | 2400    | 2400    | 2160    | 4910    |        |       |      |       | 2550    | 2580    |
| Calcium                      | mg/L   |        | 13.7    |        |        | 11.1    |      |        | 11.4    | 11.5    | 9.78    | 9.34    | 8.69    | 7.70    | 7.73    | 7.50    | 6.78    | 7.02    | 6.7     | 6.28    | 5.54    | 5.78    | 6.45    | 7.10    | 8.22    | 7.38    | 8.15    |        |       |      |       | 8.72    | 9.28    |
| Magnesium                    | mg/L   |        | 6.57    |        |        | 5.46    |      |        | 5.52    | 5.50    | 4.51    | 4.32    | 4.14    | 3.81    | 3.78    | 3.51    | 3.37    | 3.43    | 3.08    | 2.98    | 2.43    | 2.82    | 2.59    | 2.51    | 2.93    | 2.59    | 2.70    |        |       |      |       | 3.16    | 3.14    |
| Sodium                       | mg/L   |        | 1250    |        |        | 1200    |      |        | 1230    | 1250    | 1220    | 1070    | 1120    | 1050    | 1050    | 1060    | 1010    | 1030    | 1070    | 999     | 942     | 922     | 875     | 857     | 1020    | 916     | 939     |        |       |      |       | 971     | 953     |
| Potassium                    | mg/L   |        | <5.00   |        |        | 3.6     |      |        | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <5.00   | <10.0   | 2.75    | <10.0   | <10.0   | <10.0   | 2.63    | <10.0   | <5.00   | 2.59    | <4.00   | <5.00   | <5.00   | <10.0  |       |      |       | <5.00   | 2.90    |
| Alkalinity, Total            | mg/L   |        | 1590    |        |        | 1490    |      |        | 1520    | 1540    | 1560    | 1630    | 1620    | 1580    | 1550    | 1520    | 1590    | 1570    | 1610    | 1580    | 1540    | 1690    | 1630    | 1670    | 1680    | 1600    | 1790    |        |       |      |       | 1790    | 1840    |
| Alkalinity, Bicarbonate      | mg/L   |        | 1590    |        |        | 1490    |      |        | 1520    | 1540    | 1560    | 1630    | 1620    | 1520    | 1550    | 1470    | 1480    | 1510    | 1550    | 1580    | 1540    | 1450    | 1590    | 1670    | 1680    | 1600    | 1690    |        |       |      |       | 1790    | 1840    |
| Alkalinity, Carbonate        | mg/L   |        | <10.0   |        |        | <10.0   |      |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | 60.0    | <10.0   | 50.0    | 110     | 60      | 60      | <10.0   | <10.0   | 240     | 40.0    | <10.0   | <10.0   | <10.0   | 100     |        |       |      |       | <10.0   | <10.0   |
| Alkalinity, Hydroxide        | mg/L   |        | <10.0   |        |        | <10.0   |      |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |        |       |      | <10.0 | <10.0   |         |
| Chloride                     | mg/L   |        | 10.1    |        |        | <10.0   |      |        | 7.15    | 7.08    | 7.1     | 7.02    | 6.62    | 6.32    | 6.58    | 6.12    | 6.02    | 6.04    | 5.84    | 4.05    | 5.95    | 5.93    | 5.78    | <4.00   | 3.75    | <5.00   | <5.00   |        |       |      |       | <5.00   | <5.00   |
| Fluoride                     | mg/L   |        | 1.89    |        |        | 1.79    |      |        | 1.74    | 1.80    | 1.95    | 2.01    | 1.95    | 1.98    | 1.96    | 2.01    | 2.01    | 2.03    | 1.99    | 2.09    | 2.09    | 1.96    | 2.00    | 2.32    | 2.42    | 2.28    | 2.44    |        |       |      |       | 2.46    | 2.34    |
| Sulfate as SO4               | mg/L   |        | 1190    |        |        | 1220    |      |        | 1130    | 1070    | 1040    | 975     | 948     | 836     | 799     | 721     | 679     | 686     | 693     | 700     | 607     | 560     | 553     | 479     | 466     | 475     | 493     |        |       |      |       | 503     | 485     |
| Total Organic Carbon (TOC)   | mg/L   |        | 3.24    |        |        | 3.06    |      |        | 3.28    | 3.64    | 3.05    | 3.00    | 3.03    | 2.62    | 2.7     | 2.73    | 2.87    | 2.69    | 2.7     | 2.46    | 2.8     | 2.54    | 2.38    | 2.16    | 2.39    | 1.56    | 2.35    |        |       |      |       | 2.46    | 1.88    |
| Nitrate/Nitrite as N         | mg/L   |        | <0.020  |        |        | <0.02   |      |        | 0.026   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.040  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |        |       |      |       | <0.020  | <0.020  |
| Ammonia as N ^               | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | 0.369   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |        |       |      |       | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   |        | NA      |        |        | NA      |      |        | NA      | NA      | NA      | NA      | NA      | NA      | <0.250  | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |        |       |      |       | NA      | NA      |
| Aluminum                     | mg/L   |        | <0.250  |        |        | <0.050  |      |        | <0.250  | <0.250  | <0.250  | <0.25   | <0.250  | <0.250  | <0.250  | <0.500  | <0.050  | <0.050  | <0.500  | <0.500  | <0.500  | <0.250  | <0.100  | <0.200  | <0.250  | <0.250  | <0.050  |        |       |      |       | <0.250  | <0.050  |
| Arsenic                      | mg/L   |        | <0.0025 |        |        | 0.0044  |      |        | 0.0046  | 0.0036  | 0.004   | 0.0013  | <0.0025 | <0.0025 | <0.0025 | <0.0050 | <0.005  | <0.0050 | <0.0005 | <0.0005 | <0.0050 | <0.0025 | <0.0015 | <0.0020 | <0.0025 | <0.0025 | <0.0050 |        |       |      |       | <0.0050 | 0.0014  |
| Cadmium                      | mg/L   |        | <0.0005 |        |        | <0.0005 |      |        | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0050 | <0.0025 | <0.0015 | <0.0020 | <0.0025 | <0.0025 | <0.0050 |        |       |      |       | <0.0025 | <0.0005 |
| Copper                       | mg/L   |        | 0.0342  |        |        | 0.0171  |      |        | 0.0226  | 0.0178  | 0.0294  | 0.01    | 0.0138  | 0.0303  | 0.0165  | 0.0040  | 0.0101  | 0.0078  | 0.0066  | 0.0296  | 0.0202  | 0.0242  | 0.0313  | 0.0823  | 0.0355  | 0.0250  | 0.0130  |        |       |      |       | 0.0411  | 0.0407  |
| Iron                         | mg/L   |        | 0.399   |        |        | 0.237   |      |        | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.500  | 0.113   | <0.500  | <0.500  | 0.223   | <0.500  | 0.273   | 0.130   | <0.200  | <0.250  | <0.250  | <0.500  |        |       |      |       | <0.250  | 0.420   |
| Lead                         | mg/L   |        | <0.0025 |        |        | <0.0025 |      |        | <0.0025 | <0.0025 | <0.0025 | <0.0005 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.005  | <0.005  | <0.0050 | <0.0005 | <0.0050 | <0.0025 | <0.0015 | <0.0020 | <0.0025 | <0.0025 | <0.0050 |        |       |      |       | <0.0025 | <0.0005 |
| Manganese                    | mg/L   |        | 0.0138  |        |        | 0.0128  |      |        | 0.0131  | 0.0117  | 0.0115  | 0.0079  | 0.0078  | 0.0076  | 0.0081  | 0.0059  | <0.0050 | 0.0053  | <0.0050 | 0.0035  | <0.0050 | 0.0029  | 0.0049  | 0.0139  | 0.0099  | 0.0074  | 0.0078  |        |       |      |       | 0.012   | 0.0087  |
| Mercury (total)              | mg/L   |        | <0.0002 |        |        | <0.0002 |      |        | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |        |       |      |       |         |         |
| Mercury (total low-level)    | ng/L   |        |         |        |        |         |      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | <5.00   | <500    | <100    | <1      |        |       |      |       |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-6-A                        |        |         |        |         |        |        |         |        |        |         |      |         |         |         |         |         |         |         |         |         |         |         |       |      |      |     |       |      |      |      |
|-------------------------------|--------|---------|--------|---------|--------|--------|---------|--------|--------|---------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|------|------|-----|-------|------|------|------|
| Year                          | 2018   | 2019    |        |         |        |        |         |        |        |         |      | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |       | 2023 |      |     |       | 2024 |      |      |
| Quarter                       | Q4     | Q1      |        |         | Q2     |        |         | Q3     |        |         | Q4   | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4    | Q1   | Q2   | Q3  | Q4    | Q1   | Q2   | Q3   |
| Month                         | 12     | 1       | 2      | 3       | 4      | 5      | 6       | 7      | 8      | 9       | 11   | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11    | 3    | 5    | 8   | 11    | 2    | 6    | 8    |
| Sample Date                   | 12/28  | 1/31    | 2/21   | 3/21    | 4/23   | 5/20   | 6/19    | 7/23   | 8/15   | 9/24    | 11/7 | 2/5     | 5/14    | 8/11    | 11/25   | 2/9     | 5/17    | 8/9     | 11/9    | 2/15    | 5/10    | 8/31    | 11/25 | 3/13 | 5/18 | 8/8 | 11/16 | 2/5  | 6/19 | 8/13 |
| Lab Analysis (Y/N)            | Y      | N       | Y      | N       | N      | Y      | N       | N      | Y      | N       | Y    | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | N       | N     | N    | N    | N   | N     | N    | N    | N    |
| Field Parameters:             |        |         |        |         |        |        |         |        |        |         |      |         |         |         |         |         |         |         |         |         |         |         |       |      |      |     |       |      |      |      |
| Purge Flow Rate               | gpm    | NM      | NM     | 0.10    | 2.00   | 0.03   | 0.03    | 0.03   | 0.06   | 0.03    | 0.02 | 0.01    | 0.05    | 0.13    | 0.05    | 0.05    | 0.05    | 0.02    | 0.13    | 0.02    | 0.05    | 0.10    | dry   | dry  | dry  | dry | dry   | dry  | dry  | dry  |
| Total Purged                  | gal    | 36.3    | 0.5    | 0.5     | 2.0    | 2.0    | 1.3     | 1.0    | 1.3    | 1.1     | 1.3  | 1.5     | 1.1     | 1.0     | 1.3     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |         |       |      |      |     |       |      |      |      |
| Depth to Water                | ft bgs | 304.33  | 306.41 | 307.40  | 309.60 | 311.05 | 312.50  | 314.20 | 315.75 | 316.43  | NM   | 318.70  | 315.46  | 319.63  | 319.64  | 319.65  | 319.66  | 319.66  | 319.64  | 319.66  | 320.30  | 320.68  |       |      |      |     |       |      |      |      |
| Temperature                   | deg C  | 7.4     | 10.7   | 8.1     | 7.5    | 9.6    | 7.3     | 12.5   | 12.3   | 11.9    | 10.4 | 10.4    | 7.8     | 9.8     | 19.5    | 8.0     | 9.7     | 12.6    | 19.4    | 10.7    | 11.5    | 17.3    |       |      |      |     |       |      |      |      |
| pH                            | SU     | 7.32    | 6.64   | 6.66    | 6.74   | 6.65   | 6.73    | 6.76   | 6.75   | 6.76    | 6.80 | 6.79    | 6.89    | 6.95    | 6.97    | 7.10    | 7.03    | 7.10    | 7.11    | 7.11    | 7.02    | 7.05    |       |      |      |     |       |      |      |      |
| Specific Conductance          | µS/cm  | 6573    | 6053   | 6072    | 6107   | 6012   | 6057    | 5725   | 5598   | 5562    | 5451 | 5108    | 5043    | 4779    | 4339    | 4656    | 4051    | 3198    | 4238    | 4465    | 4486    | 4477    |       |      |      |     |       |      |      |      |
| Oxygen Reduction Potential    | mV     | -22.8   | 19.4   | 24.6    | 12.6   | 11.8   | 34.8    | 86.6   | 25.8   | 6.5     | 29.2 | 20.5    | 36.7    | 51.7    | 62.3    | 55.2    | 73.5    | 83.5    | 5.2     | 26.5    | -56.1   | 2.4     |       |      |      |     |       |      |      |      |
| Lab Analytical Results:       |        |         |        |         |        |        |         |        |        |         |      |         |         |         |         |         |         |         |         |         |         |         |       |      |      |     |       |      |      |      |
| Hardness as CaCO3             | mg/L   | 4360    |        | 4190    |        |        | 3920    |        |        | 3540    |      | 3070    | 3200    | 2780    | 2690    | 2710    | 2660    | 2550    | 2740    | 2510    | 2440    | 2490    |       |      |      |     |       |      |      |      |
| pH (Lab)                      | SU     | 7.10    |        | 6.85    |        |        | 6.77    |        |        | 6.85    |      | 6.87    | 6.9     | 6.93    | 6.66    | 7.04    | 7.20    | 6.93    | 7.1     | 6.98    | 7.19    | 7.26    |       |      |      |     |       |      |      |      |
| Total Dissolved Solids (Lab)  | mg/L   | 6520    |        | 6520    |        |        | 120*    |        |        | 6080    |      | 5210    | 4980    | 4670    | 4490    | 4570    | 4480    | 4390    | 4440    | 4310    | 4440    | 4450    |       |      |      |     |       |      |      |      |
| Calcium                       | mg/L   | 615     |        | 559     |        |        | 553     |        |        | 492     |      | 431     | 467     | 400     | 398     | 406     | 398     | 378     | 415     | 370     | 359     | 365     |       |      |      |     |       |      |      |      |
| Magnesium                     | mg/L   | 687     |        | 678     |        |        | 617     |        |        | 560     |      | 484     | 495     | 431     | 411     | 413     | 404     | 390     | 413     | 385     | 374     | 383     |       |      |      |     |       |      |      |      |
| Sodium                        | mg/L   | 294     |        | 283     |        |        | 296     |        |        | 304     |      | 276     | 296     | 274     | 261     | 273     | 272     | 266     | 263     | 254     | 257     | 268     |       |      |      |     |       |      |      |      |
| Potassium                     | mg/L   | 15.0    |        | 14.4    |        |        | 12.4    |        |        | 12.8    |      | 11.1    | <20.0   | 10.6    | 10.3    | 10.5    | 11.1    | 10.7    | 11      | 10.4    | 10.7    | 10.6    |       |      |      |     |       |      |      |      |
| Alkalinity, Total             | mg/L   | 160     |        | 160     |        |        | 143     |        |        | 183     |      | 220     | 215     | 233     | 236     | 246     | 245     | 290     | 255     | 295     | 285     | 270     |       |      |      |     |       |      |      |      |
| Alkalinity, Bicarbonate       | mg/L   | 160     |        | 160     |        |        | 143     |        |        | 183     |      | 220     | 215     | 233     | 236     | 246     | 245     | 290     | 255     | 295     | 285     | 270     |       |      |      |     |       |      |      |      |
| Alkalinity, Carbonate         | mg/L   | <10.0   |        | <10.0   |        |        | <10.0   |        |        | <10.0   |      | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |       |      |      |     |       |      |      |      |
| 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   |         |       |      |      |     |       |      |      |      |
| Chloride                      | mg/L   | 97.4    |        | 28.6    |        |        | 27.3    |        |        | 29.9    |      | 29.6    | 28.4    | 29.0    | 26.0    | 26.6    | 24.9    | 25.8    | 26      | 26.6    | 26.2    | 26.1    |       |      |      |     |       |      |      |      |
| Fluoride                      | mg/L   | 2.83    |        | <0.500  |        |        | <0.500  |        |        | <0.500  |      | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  | <0.500  |       |      |      |     |       |      |      |      |
| Sulfate as SO4                | mg/L   | 205     |        | 4300    |        |        | 4280    |        |        | 4260    |      | 3460    | 3080    | 3020    | 3160    | 2890    | 2620    | 2740    | 2780    | 2790    | 2870    | 2820    |       |      |      |     |       |      |      |      |
| Total Organic Carbon (TOC)    | mg/L   | 3.45    |        | 3.08    |        |        | 2.91    |        |        | 3.57    |      | 3.10    | 3.16    | 3.39    | 3.31    | 3.26    | 1.71    | 3.82    | 3.33    | 3.25    | 3.26    | 3.14    |       |      |      |     |       |      |      |      |
| Nitrate/Nitrite as N          | mg/L   | <0.020  |        | <0.020  |        |        | <0.020  |        |        | <0.020  |      | <0.020  | 0.049   | 0.154   | 0.117   | 0.093   | 0.039   | 0.156   | 0.118   | 0.096   | 0.131   | 0.103   |       |      |      |     |       |      |      |      |
| Ammonia as N ^                | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA      |      | 2.72    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |       |      |      |     |       |      |      |      |
| Ortho-Phosphate as P ^        | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA      |      | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |       |      |      |     |       |      |      |      |
| Aluminum                      | mg/L   | <0.500  |        | <0.250  |        |        | <0.250  |        |        | <0.250  |      | <0.250  | <1.00   | <0.500  | <0.250  | <0.500  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  | <0.250  |       |      |      |     |       |      |      |      |
| Arsenic                       | mg/L   | <0.0025 |        | <0.0025 |        |        | 0.0009  |        |        | <0.0025 |      | <0.0025 | <0.0025 | <0.0050 | <0.0025 | <0.0050 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0025 |       |      |      |     |       |      |      |      |
| Cadmium                       | mg/L   | <0.0005 |        | <0.0005 |        |        | 0.0001  |        |        | <0.0005 |      | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0025 |       |      |      |     |       |      |      |      |
| Copper                        | mg/L   | 0.0116  |        | 0.0081  |        |        | 0.0035  |        |        | 0.0039  |      | 0.0017  | 0.0028  | <0.0050 | <0.0025 | <0.0050 | <0.0025 | 0.0068  | 0.0082  | 0.0063  | 0.0065  | 0.0093  |       |      |      |     |       |      |      |      |
| Iron                          | mg/L   | 1.37    |        | 3.75    |        |        | 3.93    |        |        | 3.22    |      | 2.72    | 1.95    | 1.38    | 1.10    | 1.24    | 1.17    | 0.890   | 1.48    | 1.15    | 1.41    | 1.37    |       |      |      |     |       |      |      |      |
| Lead                          | mg/L   | <0.0025 |        | <0.0025 |        |        | <0.0005 |        |        | <0.0025 |      | <0.0025 | <0.0025 | <0.0050 | <0.0025 | <0.0050 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0025 |       |      |      |     |       |      |      |      |
| Manganese                     | mg/L   | 0.788   |        | 0.802   |        |        | 0.724   |        |        | 0.690   |      | 0.585   | 0.551   | 0.526   | 0.520   | 0.454   | 0.437   | 0.397   | 0.407   | 0.391   | 0.420   | 0.431   |       |      |      |     |       |      |      |      |
| Mercury (dissolved)           | mg/L   | <0.0002 |        | <0.0002 |        |        | <0.0002 |        |        | <0.0002 |      | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |         |       |      |      |     |       |      |      |      |
| Mercury (dissolved low-level) | ng/L   |         |        |         |        |        |         |        |        |         |      |         |         |         |         |         |         |         |         |         |         | <5.00   |       |      |      |     |       |      |      |      |
| Molybdenum                    | mg/L   | <0.0025 |        | <0.0025 |        |        | <0.0005 |        |        | <0.0025 |      | <0.0025 | <0.0025 | <0.0050 | <0.0025 | <0.005  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0025 |       |      |      |     |       |      |      |      |
| Selenium                      | mg/L   | <0.0050 |        | <0.0050 |        |        | 0.0028  |        |        | <0.0050 |      | <0.0050 | <0.005  | <0.0100 | <0.0050 | <0.0100 | <0.0050 | <0.0050 | <0.0050 | <0.0100 | <0.0040 | <0.0050 |       |      |      |     |       |      |      |      |
| Silica (SiO2)                 | mg/L   | 12.3    |        | 11.9    |        |        | 14.3    |        |        | 13.4    |      | 12.5    | <21.4   | 11.0    | 11.4    | 12.3    | 11.9    | 13.2    | 14.3    | 13.6    | 12.7    | 12.3    |       |      |      |     |       |      |      |      |
| Silicon                       | mg/L   | 5.77    |        | 5.57    |        |        | 6.69    |        |        | 6.28    |      | 5.83    | <10.00  | 5.17    | 5.35    | 5.76    | 5.58    | 6.17    | 6.67    | 6.36    | 5.96    | 5.73    |       |      |      |     |       |      |      |      |
| Uranium                       | mg/L   | <0.0005 |        | <0.0005 |        |        | <0.0001 |        |        | <0.0005 |      | <0.0005 | <0.0025 | <0.0050 | <0.0025 | <0.0050 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0020 | <0.0025 |       |      |      |     |       |      |      |      |
| Zinc                          | mg/L   | 0.0689  |        | <0.0100 |        |        | 0.0082  |        |        | 0.0108  |      | 0.0117  | 0.0107  | <0.0200 | 0.0159  | <0.0200 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0080 | <0.0100 |       |      |      |     |       |      |      |      |

Notes & Definitions:

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

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





GCC Energy Hydrologic Monitoring Data

| MW-6-MI                      |        |         |        |         |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
|------------------------------|--------|---------|--------|---------|--------|----------------|--------|------|------|------|------|------|------|------|------|-------|------|------|-----|------|------|------|-----|-------|------|------|-----|-------|------|------|------|
| Year                         | 2018   | 2019    |        |         |        |                |        |      |      |      |      |      | 2020 |      |      |       | 2021 |      |     |      | 2022 |      |     |       | 2023 |      |     |       | 2024 |      |      |
| Quarter                      | Q4     | Q1      |        |         | Q2     |                |        | Q3   |      |      | Q4   | Q1   | Q2   | Q3   | Q4   | Q1    | Q2   | Q3   | Q4  | Q1   | Q2   | Q3   | Q4  | Q1    | Q2   | Q3   | Q4  | Q1    | Q2   | Q3   |      |
| Month                        | 12     | 1       | 2      | 3       | 4      | 5              | 5      | 6    | 7    | 8    | 9    | 11   | 2    | 5    | 8    | 11    | 2    | 5    | 8   | 11   | 2    | 5    | 8   | 11    | 3    | 5    | 8   | 11    | 2    | 6    | 8    |
| Sample Date                  | 12/29  | 1/31    | 2/25   | 3/21    | 4/19   | 5/20           | 5/30   | 6/19 | 7/23 | 8/15 | 9/24 | 11/7 | 2/5  | 5/14 | 8/11 | 11/24 | 2/9  | 5/17 | 8/9 | 11/9 | 2/15 | 5/10 | 8/1 | 11/25 | 3/13 | 5/31 | 8/8 | 11/16 | 2/5  | 6/19 | 8/13 |
| Lab Analysis (Y/N)           | Y      | N       | Y      | N       | N      | N <sup>#</sup> | N      | N    | N    | N    | N    | N    | N    | N    | N    | N     | N    | N    | N   | N    | N    | N    | N   | N     | N    | N    | N   | N     | N    | N    | N    |
| Field Parameters:            |        |         |        |         |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Purge Flow Rate              | gpm    | NM      | NM     | NM      | 0.5    | 0.1            | 0.015  | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry  | dry   | dry  | dry  | dry | dry  | dry  | dry  | dry | dry   | dry  | dry  | dry | dry   | dry  | dry  |      |
| Total Purged                 | gal    | 11.3    | 0.5    | 1.5     | 0.5    | 1.0            | 0.9    |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Depth to Water               | ft bgs | 374.49  | 368.09 | 367.92  | 370.49 | 369.50         | 371.00 |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Temperature                  | deg C  | 14.3    | 13.6   | 10.8    | 9.7    | 16.7           | 3.9    |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| pH                           | SU     | 8.26    | 7.43   | 7.21    | 7.55   | 7.97           | 7.84   |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Specific Conductance         | µS/cm  | 3390    | 3620   | 3132    | 2619   | 2202           | 2527   |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Oxygen Reduction Potential   | mV     | 103.0   | -80.2  | 77.6    | 59.8   | 38.3           | 64.9   |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Lab Analytical Results:      |        |         |        |         |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Hardness as CaCO3            | mg/L   | 679     |        | 147     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| pH (Lab)                     | SU     | 8.18    |        | 8.35    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Total Dissolved Solids (Lab) | mg/L   | 2480    |        | 1880    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Calcium                      | mg/L   | 104     |        | 23.4    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Magnesium                    | mg/L   | 102     |        | 21.6    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Sodium                       | mg/L   | 646     |        | 565     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Potassium                    | mg/L   | 12.0    |        | 5.30    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Alkalinity, Total            | mg/L   | 395     |        | 615     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Alkalinity, Bicarbonate      | mg/L   | 345     |        | 615     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Alkalinity, Carbonate        | mg/L   | 50.0    |        | <10.0   |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |        | <10.0   |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Chloride                     | mg/L   | 175     |        | 178     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Fluoride                     | mg/L   | 2.06    |        | 2.46    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Sulfate as SO4               | mg/L   | 1210    |        | 585     |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Total Organic Carbon (TOC)   | mg/L   | 3.63    |        | 4.55    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Nitrate/Nitrite as N         | mg/L   | 0.023   |        | <0.020  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Aluminum                     | mg/L   | <0.100  |        | <0.100  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Arsenic                      | mg/L   | 0.0084  |        | 0.0144  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Cadmium                      | mg/L   | <0.0001 |        | <0.0002 |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Copper                       | mg/L   | 0.0113  |        | 0.0112  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Iron                         | mg/L   | <0.100  |        | <0.100  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Lead                         | mg/L   | <0.0005 |        | <0.0010 |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Manganese                    | mg/L   | 0.0500  |        | 0.0224  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Mercury (dissolved)          | mg/L   | <0.0002 |        | <0.0002 |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Molybdenum                   | mg/L   | 0.0558  |        | 0.0690  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Selenium                     | mg/L   | 0.0098  |        | 0.0127  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Silica (SiO2)                | mg/L   | 9.93    |        | 9.05    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Silicon                      | mg/L   | 4.64    |        | 4.23    |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Uranium                      | mg/L   | 0.0200  |        | 0.0118  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |
| Zinc                         | mg/L   | 0.0092  |        | 0.0143  |        |                |        |      |      |      |      |      |      |      |      |       |      |      |     |      |      |      |     |       |      |      |     |       |      |      |      |

| Notes & Definitions: |  |  |
|----------------------|--|--|
| #                    | No sample collected, due to low yield, insufficient volume for lab sample after field parameters we measured |  |
| Y/N                  | yes or no  | 1. " <sup>#</sup> " values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.   |
| gpm                  | gallons per minute   |  |
| deg C                | degrees Celsius  | 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. |
| SU                   | standard pH units  |  |
| µS/cm                | microsiemens per centimeter  | 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.  |
| 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   |  |

**Notes & Definitions:**

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  $\text{CaCO}_3$ .
3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.





GCC Energy Hydrologic Monitoring Data

| MW-6-LM                      |        |         |        |         |        |        |         |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |        |
|------------------------------|--------|---------|--------|---------|--------|--------|---------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| Year                         | 2018   | 2019    |        |         |        |        |         |        |        |        |        |        |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |        |         | 2023    |         |         |         | 2024    |         |        |
| Quarter                      | Q4     | Q1      |        |         | Q2     |        |         | Q3     |        |        | Q4     |        |         | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3     | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3     |
| Month                        | 12     | 1       | 2      | 3       | 4      | 5      | 6       | 7      | 8      | 9      | 10     | 11     | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11     | 3       | 5       | 8       | 11      | 2       | 6       | 8       |        |
| Sample Date                  | 12/30  | 1/31    | 2/25   | 3/21    | 4/23   | 5/20   | 6/19    | 7/23   | 8/15   | 9/24   | 10/28  | 11/7   | 2/5     | 5/14    | 8/11    | 11/25   | 2/9     | 5/17    | 8/9     | 11/9    | 2/15    | 5/10    | 8/31    | 11/25  | 3/13    | 5/31    | 8/8     | 11/16   | 2/12    | 6/19    | 8/13    |        |
| Lab Analysis (Y/N)           | Y      | N       | Y      | N       | N      | Y      | N       | N      | Y      | N      | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       |        |
| Field Parameters:            |        |         |        |         |        |        |         |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |        |
| Purge Flow Rate              | gpm    | NM      | NM     | 0.06    | 2.00   | 0.03   | 0.03    | 0.10   | 0.06   | 0.03   | 0.02   | 0.01   | 0.03    | 0.01    | 0.13    | 0.01    | 0.13    | 0.13    | 0.13    | 0.13    | 0.13    | 0.13    | 0.13    | 0.20   | 0.06    | 0.03    | 0.05    | 0.05    | 0.19    | 0.03    | 0.02    |        |
| Total Purged                 | gal    | 0.5     | 0.5    | 1.5     | 2.0    | 2.0    | 2.3     | 1.3    | 1.3    | 1.8    | 2.0    | 1.5    | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 1.0    | 1.5     | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     |        |
| Depth to Water               | ft bgs | 535.72  | 538.73 | 539.34  | 540.64 | 539.98 | 537.58  | 540.00 | 540.35 | 540.24 | 540.17 | 539.80 | 540.18  | 539.70  | 539.45  | 539.98  | 540.30  | 539.78  | 540.20  | 541.25  | 541.34  | 541.00  | 541.30  | 542.20 | 541.30  | 541.37  | 541.50  | 541.88  | 541.85  | 541.65  | 541.65  | 541.97 |
| Temperature                  | deg C  | 7.9     | 14.3   | 7.8     | 8.1    | 9.1    | 9.3     | 11.7   | 14.0   | 13.4   | 11.6   | 10.1   | 12.4    | 10.5    | 11.3    | 14.8    | 11.4    | 10.2    | 11.6    | 14.4    | 11.1    | 11.0    | 11.8    | 13.1   | 10.4    | 8.7     | 14.4    | 13.5    | 10.9    | 8.7     | 12.2    | 16.0   |
| pH                           | SU     | 7.64    | 7.38   | 7.51    | 7.54   | 7.49   | 7.54    | 7.67   | 7.80   | 7.65   | 7.43   | 7.45   | 7.37    | 7.39    | 7.54    | 7.44    | 7.47    | 7.44    | 7.54    | 7.52    | 7.49    | 7.46    | 7.56    | 7.64   | 7.70    | 7.77    | 7.58    | 7.67    | 7.55    | 7.65    | 7.36    | 7.49   |
| Specific Conductance         | µS/cm  | 6011    | 3784   | 3503    | 1461   | 1164   | 1296    | 1400   | 1272   | 1532   | 2104   | 2267   | 2113    | 2283    | 2287    | 2442    | 2495    | 2136    | 1629    | 2531    | 2478    | 2362    | 2297    | 2053   | 1889    | 1599    | 1321    | 1525    | 1655    | 1498    | 1153    | 1030   |
| Oxygen Reduction Potential   | mV     | 185.3   | 10.7   | 40.9    | -32.8  | -35.8  | -111.0  | -194.5 | -163.6 | -67.2  | 6.4    | -48.0  | 19.9    | -128.9  | -222.9  | 32.1    | 21.8    | 3.5     | -188.8  | -2.6    | -36.6   | -135.8  | -112.6  | -181.6 | -132.5  | -80.3   | -41.7   | -75.3   | -173.0  | -249.9  | -122.1  | -77.2  |
| Lab Analytical Results:      |        |         |        |         |        |        |         |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |         |         |         |        |
| Hardness as CaCO3            | mg/L   | 2260    |        | 1270    |        |        | 431     |        |        |        |        |        | 843     | 1060    | 965     | 1130    | 1160    | 1120    | 1010    | 1280    | 1130    | 1030    | 954     | 971    | 870     | 687     | 456     | 573     | 621     | 535     | 414     | 335    |
| pH (Lab)                     | SU     | 7.60    |        | 7.52    |        |        | 7.47    |        |        |        |        |        | 7.32    | 7.43    | 7.18    | 6.95    | 7.45    | 7.49    | 7.45    | 7.37    | 7.57    | 7.54    | 7.60    | 7.90   | 7.60    | 7.75    | 7.58    | 7.79    | 7.76    | 7.48    | 7.24    | 7.73   |
| Total Dissolved Solids (Lab) | mg/L   | 5100    |        | 2840    |        |        | 875     |        |        |        |        |        | 1630    | 1840    | 1840    | 2040    | 2020    | 1990    | 1830    | 2290    | 2050    | 1990    | 1840    | 1870   | 1620    | 1290    | 940     | 1030    | 1060    | 940     | 755     | 680    |
| Calcium                      | mg/L   | 367     |        | 216     |        |        | 75.9    |        |        |        |        |        | 136     | 173     | 150     | 179     | 184     | 176     | 154     | 201     | 174     | 159     | 145     | 152    | 133     | 109     | 76.8    | 91.5    | 99.1    | 86.9    | 70.5    | 58.1   |
| Magnesium                    | mg/L   | 325     |        | 177     |        |        | 58.7    |        |        |        |        |        | 122     | 153     | 143     | 165     | 171     | 166     | 152     | 189     | 170     | 154     | 144     | 143    | 131     | 101     | 64.2    | 83.5    | 90.6    | 77.2    | 57.8    | 46.2   |
| Sodium                       | mg/L   | 459     |        | 248     |        |        | 129     |        |        |        |        |        | 172     | 203     | 188     | 194     | 194     | 188     | 169     | 177     | 166     | 162     | 158     | 163    | 150     | 139     | 125     | 128     | 132     | 131     | 123     | 122    |
| Potassium                    | mg/L   | 173     |        | 64.5    |        |        | 14.0    |        |        |        |        |        | 11.3    | 11      | 7.82    | 7.20    | 6.04    | 5.96    | 5.22    | 5.69    | 4.99    | 5.22    | <5.00   | 4.84   | 4.34    | 4.04    | 3.14    | <5.00   | 3.34    | 3.47    | 3.11    | 2.89   |
| Alkalinity, Total            | mg/L   | 205     |        | 315     |        |        | 371     |        |        |        |        |        | 355     | 320     | 353     | 335     | 329     | 336     | 346     | 330     | 380     | 365     | 365     | 337    | 310     | 368     | 470     | 390     | 355     | 355     | 360     | 430    |
| Alkalinity, Bicarbonate      | mg/L   | 205     |        | 315     |        |        | 371     |        |        |        |        |        | 355     | 320     | 353     | 335     | 329     | 336     | 346     | 330     | 380     | 365     | 365     | 337    | 310     | 368     | 470     | 390     | 355     | 355     | 360     | 430    |
| Alkalinity, Carbonate        | mg/L   | <10.0   |        | <10.0   |        |        | <10.0   |        |        |        |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |        |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |        | <10.0   |        |        | <10.0   |        |        |        |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0  | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |        |
| Chloride                     | mg/L   | 256     |        | 43.7    |        |        | 5.73    |        |        |        |        |        | 11.4    | 11      | 11.7    | 12.2    | 12.4    | 11      | 10.5    | 12.6    | 11.1    | 10.5    | 10.9    | 10.7   | 9.29    | 6.75    | 5.09    | 5.75    | 6.09    | 6.04    | 4.47    | 3.61   |
| Fluoride                     | mg/L   | 0.530   |        | <0.500  |        |        | 0.324   |        |        |        |        |        | <0.500  | 0.352   | <0.500  | 0.346   | 0.356   | 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  |
| Sulfate as SO4               | mg/L   | 3050    |        | 1790    |        |        | 338     |        |        |        |        |        | 830     | 951     | 904     | 1260    | 1170    | 1020    | 978     | 1300    | 1100    | 555     | 931     | 1010   | 848     | 563     | 366     | 500     | 534     | 451     | 298     | 209    |
| Total Organic Carbon (TOC)   | mg/L   | 3.46    |        | 2.61    |        |        | 1.57    |        |        |        |        |        | 1.85    | 1.76    | 1.84    | 1.87    | 1.93    | 3.17    | 1.81    | 1.91    | 1.94    | 1.83    | 1.74    | 2.08   | 1.29    | 2.13    | <2.5    | 1.66    | 0.764   | 1.70    | 1.74    | 1.36   |
| Nitrate/Nitrite as N         | mg/L   | <0.020  |        | <0.020  |        |        | <0.020  |        |        |        |        |        | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020 | <0.020  | <0.020  | 0.022   | <0.020  | <0.020  | <0.020  | <0.020  |        |
| Ammonia as N ^               | mg/L   | NA      |        | NA      |        |        | NA      |        |        |        |        |        | 1.99    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |
| Ortho-Phosphate as P ^       | mg/L   | NA      |        | NA      |        |        | NA      |        |        |        |        |        | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     |
| Aluminum                     | mg/L   | <0.250  |        | <0.250  |        |        | <0.050  |        |        |        |        |        | <0.100  | <0.250  | <0.250  | <0.150  | <0.250  | <0.250  | <0.150  | <0.100  | <0.100  | <0.250  | <0.250  | <0.100 | <0.100  | <0.100  | <0.100  | <0.250  | <0.100  | <0.100  | <0.100  |        |
| Arsenic                      | mg/L   | 0.0039  |        | 0.0049  |        |        | 0.0036  |        |        |        |        |        | 0.0035  | 0.0044  | 0.0034  | 0.0038  | 0.0036  | 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  | 0.003   | 0.0030 |
| Cadmium                      | mg/L   | <0.0005 |        | <0.0005 |        |        | <0.0001 |        |        |        |        |        | <0.0002 | <0.0002 | <0.0005 | <0.0003 | <0.0005 | <0.0005 | <0.0015 | <0.0010 | <0.0010 | <0.0010 | <0.0025 | <0.001 | <0.0010 | <0.0025 | <0.0010 | <0.0025 | <0.0010 | <0.0010 | <0.0005 |        |
| Copper                       | mg/L   | 0.0135  |        | 0.0064  |        |        | 0.0017  |        |        |        |        |        | 0.0069  | 0.0014  | <0.0025 | <0.0015 | <0.0025 | <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  | 0.005   | 0.0135 |
| Iron                         | mg/L   | <0.250  |        | <0.250  |        |        | <0.050  |        |        |        |        |        | <0.100  | <0.250  | <0.250  | <0.150  | <0.250  | <0.250  | <0.150  | <0.100  | <0.100  | <0.250  | <0.250  | <0.100 | <0.100  | 0.152   | <0.1    | <0.250  | <0.100  | <0.100  | <0.050  |        |
| Lead                         | mg/L   | <0.0025 |        | <0.0025 |        |        | <0.0005 |        |        |        |        |        | <0.0010 | <0.001  | <0.0025 | <0.0015 | <0.0025 | <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 | <0.0005 |        |
| Manganese                    | mg/L   | 0.383   |        | 0.223   |        |        | 0.0692  |        |        |        |        |        | 0.166   | 0.184   | 0.171   | 0.267   | 0.292   | 0.253   | 0.203   | 0.257   | 0.263   | 0.339   | 0.249   | 0.174  | 0.220   | 0.221   | 0.0961  | 0.111   | 0.0727  | 0.215   | 0.082   | 0.0359 |
| Mercury (dissolved)          | mg/L   | <0.0002 |        | <0.0002 |        |        | <0.0002 |        |        |        |        |        | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |        |         |         |         |         |         |         |         |        |





GCC Energy Hydrologic Monitoring Data

| MW-7-EAA                     |        |         |       |         |       |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|---------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   | 2019    |       |         |       |       |         |       |       |         |       | 2020  |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |         |
| Quarter                      | Q4     | Q1      |       |         | Q2    |       |         | Q3    |       |         | Q4    |       | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                        | 12     | 1       | 2     | 3       | 4     | 5     | 6       | 7     | 8     | 9       | 10    | 11    | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 11      | 3       | 6       | 8       | 11      | 3       | 6       | 8       |         |
| Sample Date                  | 12/23  | 1/29    | 2/19  | 3/20    | 4/16  | 5/29  | 6/20    | 7/24  | 8/13  | 9/27    | 10/24 | 11/6  | 2/11    | 5/27    | 8/25    | 11/11   | 2/16    | 5/24    | 8/24    | 11/30   | 3/23    | 6/7     | 9/8     | 11/28   | 3/18    | 6/14    | 8/8     | 11/13   | 3/17    | 6/19    | 8/6     |         |
| Lab Analysis (Y/N)           | Y      | N       | Y     | N       | N     | Y     | N       | N     | Y     | N       | N     | Y     | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:            |        |         |       |         |       |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | 1.10    | 1.10  | 1.00    | 3.00  | 1.00  | 1.00    | 1.00  | 1.00  | 1.00    | 1.00  | 1.00  | 1.00    | 0.25    | 0.13    | 0.25    | 0.25    | 0.13    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.20    | 0.11    | 0.16    | 0.17    | 0.10    | 0.07    | 0.06    |         |
| Total Purged                 | gal    | 15.0    | 18.0  | 15.0    | 3.0   | 15.0  | 16.0    | 15.3  | 15.3  | 17.0    | 15.0  | 15.0  | 36.5    | 15.0    | 16.0    | 17.0    | 15.0    | 17.0    | 17.0    | 18.0    | 18.0    | 17.0    | 17.0    | 0.5     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     |         |
| Depth to Water               | ft bgs | 36.13   | 36.27 | 36.45   | 36.52 | 36.70 | 36.25   | 36.22 | 36.48 | 36.49   | 36.88 | 36.85 | 36.72   | 35.40   | 36.35   | 37.10   | 36.20   | 35.33   | 36.91   | 35.92   | 35.90   | 35.70   | 36.71   | 36.40   | 35.85   | 29.10   | 28.40   | 25.60   | 27.45   | 25.40   | 26.30   |         |
| Temperature                  | deg C  | 10.0    | 10.0  | 10.0    | 9.9   | 10.1  | 10.4    | 10.4  | 10.6  | 10.5    | 10.3  | 10.4  | 10.4    | 12.1    | 10.3    | 10.3    | 10.1    | 10.5    | 10.9    | 10.6    | 10.5    | 10.7    | 10.8    | 11.1    | 13.1    | 11.7    | 11.8    | 11.4    | 10.1    | 12.9    | 11.6    |         |
| pH                           | SU     | 6.99    | 7.01  | 7.04    | 6.93  | 7.00  | 7.06    | 7.07  | 6.28  | 6.95    | 7.06  | 7.03  | 7.06    | 6.91    | 7.17    | 7.09    | 7.12    | 7.14    | 7.19    | 7.24    | 7.23    | 7.12    | 7.15    | 7.14    | 6.28    | 7.28    | 7.16    | 7.11    | 7.16    | 7.24    | 6.90    | 6.89    |
| Specific Conductance         | µS/cm  | 2001    | 1910  | 1910    | 1926  | 1912  | 1767    | 1836  | 1885  | 1890    | 1913  | 1936  | 1922    | 1993    | 1890    | 1772    | 1628    | 1672    | 1805    | 1814    | 1878    | 1882    | 1896    | 1880    | 1808    | 1754    | 1785    | 1831    | 1966    | 2082    | 1905    | 1932    |
| Oxygen Reduction Potential   | mV     | -68.0   | -36.7 | -41.4   | -38.1 | -48.8 | 14.1    | -13.8 | -33.9 | -37.8   | -29.5 | -25.6 | -21.3   | 0.9     | -49.2   | 17.6    | -8.6    | 2.2     | -55.8   | -41.9   | -20.4   | -133.6  | -73.8   | -196.7  | -86.9   | -10.9   | -32.4   | -60.3   | -117.9  | -133.9  | -102.0  | -59.0   |
| Lab Analytical Results:      |        |         |       |         |       |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   | 936     |       | 1030    |       |       | 982     |       |       | 997     |       |       | 1020    | 963     | 1020    | 1080    | 939     | 1090    | 958     | 986     | 957     | 1040    | 958     | 916     | 962     | 1020    | 952     | 902     | 1010    | 1080    | 1080    | 1030    |
| pH (Lab)                     | SU     | 7.2     |       | 7.37    |       |       | 7.17    |       |       | 7.09    |       |       | 6.99    | 6.92    | 6.89    | 7.23    | 7.06    | 6.99    | 6.92    | 7.03    | 7.01    | 7.11    | 7.12    | 7.24    | 7.18    | 6.95    | 6.95    | 7.25    | 7.16    | 6.84    | 7.07    | 7.1     |
| Total Dissolved Solids (Lab) | mg/L   | 1460    |       | 1480    |       |       | 1490    |       |       | 1480    |       |       | 1530    | 1520    | 1430    | 1480    | 1450    | 1590    | 1460    | 1510    | 1580    | 1500    | 1500    | 1490    | 1420    | 1500    | 1400    | 1450    | 1560    | 1570    | 1550    | 1550    |
| Calcium                      | mg/L   | 170     |       | 179     |       |       | 171     |       |       | 173     |       |       | 162     | 165     | 175     | 183     | 157     | 186     | 167     | 167     | 164     | 173     | 166     | 154     | 165     | 174     | 161     | 151     | 173     | 184     | 186     | 177     |
| Magnesium                    | mg/L   | 124     |       | 142     |       |       | 135     |       |       | 137     |       |       | 144     | 134     | 142     | 150     | 133     | 152     | 131     | 138     | 133     | 149     | 132     | 129     | 134     | 143     | 134     | 127     | 141     | 150     | 149     | 141     |
| Sodium                       | mg/L   | 75.3    |       | 81.3    |       |       | 75.0    |       |       | 75.2    |       |       | 74.9    | 73.7    | 76.0    | 80.9    | 73.4    | 81.4    | 75      | 74.6    | 72.0    | 77.8    | 71.9    | 71.6    | 72.3    | 76.3    | 75.6    | 69.2    | 77.1    | 80.6    | 80.5    | 77.1    |
| Potassium                    | mg/L   | 3.87    |       | 3.9     |       |       | <5.00   |       |       | 3.74    |       |       | 3.74    | 3.82    | <5.00   | <5.00   | <5.00   | 4.25    | <5.00   | <5.00   | 3.69    | 3.88    | 3.59    | 3.71    | 3.66    | <5.00   | 3.63    | <5.00   | 3.46    | 3.62    | 3.84    | 3.78    |
| Alkalinity, Total            | mg/L   | 380     |       | 367     |       |       | 405     |       |       | 392     |       |       | 350     | 357     | 355     | 268     | 430     | 420     | 395     | 340     | 440     | 425     | 425     | 400     | 310     | 378     | 410     | 437     | 425     | 440     | 455     | 437     |
| Alkalinity, Bicarbonate      | mg/L   | 380     |       | 367     |       |       | 405     |       |       | 392     |       |       | 425     | 357     | 355     | 268     | 430     | 420     | 395     | 340     | 440     | 425     | 425     | 400     | 310     | 378     | 410     | 437     | 425     | 440     | 455     | 437     |
| Alkalinity, Carbonate        | mg/L   | <10.0   |       | <10.0   |       |       | <10.0   |       |       | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |       | <10.0   |       |       | <10.0   |       |       | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   | 11.9    |       | 10.7    |       |       | 10.8    |       |       | 10.9    |       |       | 11.6    | 10.3    | 10.7    | 10.2    | 10.1    | 10.4    | 10.1    | 10.5    | 10.3    | 10.1    | 10.3    | 11.2    | 11.0    | 11.1    | 10.8    | 11.8    | 11.9    | 11.5    | 11.4    | 11.6    |
| Fluoride                     | mg/L   | <0.500  |       | 0.332   |       |       | 0.322   |       |       | 0.322   |       |       | <0.500  | 0.354   | 0.330   | 0.322   | 0.322   | 0.300   | 0.304   | 0.312   | 0.260   | 0.292   | <0.200  | 0.310   | 0.306   | 0.340   | 0.262   | <0.200  | 0.238   | 0.282   | 0.298   | <0.500  |
| Sulfate as SO4               | mg/L   | 732     |       | 736     |       |       | 733     |       |       | 844     |       |       | 746     | 774     | 803     | 767     | 742     | 757     | 746     | 796     | 751     | 755     | 743     | 759     | 761     | 827     | 709     | 719     | 828     | 842     | 821     | 790     |
| Total Organic Carbon (TOC)   | mg/L   | 3.72    |       | 3.57    |       |       | 3.73    |       |       | 3.70    |       |       | 3.45    | 3.42    | 3.63    | 4.01    | 3.39    | 3.00    | 3.42    | 3.63    | 3.38    | 3.50    | 3.42    | 3.38    | 2.12    | 3.68    | 3.31    | 5.57    | 4.24    | 5.38    | 5.12    | 4.40    |
| Nitrate/Nitrite as N         | mg/L   | <0.020  |       | <0.020  |       |       | <0.020  |       |       | <0.020  |       |       | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |         |
| Ammonia as N ^               | mg/L   | NA      |       | NA      |       |       | NA      |       |       | NA      |       |       | 0.178   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   | NA      |       | NA      |       |       | NA      |       |       | NA      |       |       | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   | <0.050  |       | <0.100  |       |       | <0.250  |       |       | <0.100  |       |       | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.250  | <0.250  | <0.100  | <0.050  | <0.050  | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.100  | <0.150  | <0.100  | <0.050  |
| Arsenic                      | mg/L   | 0.0014  |       | 0.0015  |       |       | 0.0013  |       |       | 0.0016  |       |       | 0.0013  | 0.0013  | 0.0011  | <0.0015 | <0.0025 | 0.0016  | <0.0025 | <0.0025 | 0.0011  | 0.0009  | 0.0014  | <0.0025 | 0.0013  | <0.0025 | <0.0025 | <0.0025 | 0.0010  | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                      | mg/L   | <0.0001 |       | <0.0002 |       |       | <0.0001 |       |       | <0.0001 |       |       | <0.0002 | <0.0002 | <0.0002 | <0.0003 | <0.0005 | <0.0001 | <0.0025 | <0.0025 | <0.0010 | <0.0005 | <0.0005 | <0.0025 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   | 0.0003  |       | 0.0018  |       |       | 0.0011  |       |       | 0.0008  |       |       | 0.0006  | <0.0010 | <0.0010 | <0.0015 | <0.0025 | 0.0007  | <0.0025 | <0.0025 | 0.0018  | 0.0021  | 0.0036  | <0.0025 | 0.0030  | <0.0025 | 0.0028  | 0.0032  | 0.0018  | 0.0048  | 0.0044  | 0.0045  |
| Iron                         | mg/L   | 1.82    |       | 1.95    |       |       | 1.81    |       |       | 2.12    |       |       | 2.00    | 1.84    | 1.71    | 2.16    | 2.15    | 2.08    | 1.92    | 1.75    | 1.63    | 2.05    | 1.69    | 1.75    | 1.57    | 1.99    | 0.265   | <0.250  | 0.251   | 0.259   | 0.421   | 0.379   |
| Lead                         | mg/L   | <0.0005 |       | <0.0010 |       |       | <0.0005 |       |       | <0.0005 |       |       | <0.0010 | <0.001  | <0.0010 | <0.0015 | <0.0025 | <0.0005 | <0.0025 | <0.0025 | <0.0010 | <0.0025 | <0.0005 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Manganese                    | mg/L   | 3.72    |       | 4.49    |       |       | 4.01    |       |       | 4.22    |       |       | 4.76    | 4.86    | 3.63    | 4.49    | 4.42    | 5.22    | 4.21    | 4.39    | 4.66    | 4.48    | 4.58    | 4.61    | 4.75    | 4.69    | 4.22    | 4.46    | 4.40    | 4.65    | 4.61    | 4.65    |
| Mercury (dissolved)          | mg/L   | <0.0002 |       | <0.0002 |       |       | <0.0002 |       |       | <0      |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-8-EAA                     |        |         |       |         |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       |
|------------------------------|--------|---------|-------|---------|-------|---------|-------|-------|---------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Year                         | 2018   | 2019    |       |         |       |         |       |       |         |       |       |         | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |       |
| Quarter                      | Q4     | Q1      |       |         | Q2    |         |       | Q3    |         |       | Q4    |         | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |       |
| Month                        | 12     | 1       | 2     | 3       | 4     | 5       | 6     | 7     | 8       | 9     | 10    | 11      | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 11      | 3       | 6       | 8       | 11      | 3       | 6       | 8       |       |
| Sample Date                  | 12/23  | 1/29    | 2/19  | 3/20    | 4/16  | 5/29    | 6/20  | 7/24  | 8/13    | 9/27  | 10/24 | 11/6    | 2/11    | 5/27    | 8/25    | 11/11   | 2/16    | 5/24    | 8/24    | 11/30   | 3/23    | 6/7     | 9/8     | 11/28   | 3/18    | 6/14    | 8/8     | 11/13   | 3/17    | 6/19    | 8/6     |       |
| Lab Analysis (Y/N)           | Y      | N       | Y     | N       | N     | Y       | N     | N     | Y       | N     | N     | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |       |
| Field Parameters:            |        |         |       |         |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       |
| Purge Flow Rate              | gpm    | 0.85    | 1.10  | 0.50    | 3.00  | 0.50    | 0.75  | 1.00  | 1.00    | 0.75  | 0.50  | 1.00    | 0.25    | 1.00    | 0.25    | 0.13    | 0.13    | 0.13    | 0.13    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.33    | 0.11    | 0.09    | 0.38    | 0.15    | 0.60    | 0.06    |       |
| Total Purged                 | gal    | 18.0    | 14.0  | 15.0    | 3.0   | 15.0    | 17.0  | 15.3  | 15.3    | 18.0  | 15.3  | 15.5    | 15.0    | 15.2    | 15.0    | 16.0    | 15.0    | 16.0    | 15.0    | 14.0    | 15.0    | 15.0    | 16.0    | 0.5     | 0.5     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     |       |
| Depth to Water               | ft bgs | 40.00   | 39.95 | 40.10   | 43.45 | 40.44   | 40.05 | 39.94 | 40.10   | 40.08 | 40.25 | 40.31   | 40.22   | 40.40   | 40.45   | 34.50   | 40.83   | 41.22   | 41.00   | 40.98   | 48.04   | 40.95   | 41.00   | 41.30   | 41.30   | 41.50   | 37.19   | 37.40   | 34.90   | 36.45   | 31.78   | 32.91 |
| Temperature                  | deg C  | 10.3    | 10.2  | 10.0    | 9.9   | 10.3    | 10.5  | 10.6  | 10.5    | 10.6  | 10.3  | 10.2    | 11.2    | 10.5    | 11.0    | 11.1    | 11.0    | 10.9    | 11.0    | 11.2    | 10.7    | 10.7    | 10.8    | 10.7    | 9.7     | 11.0    | 11.6    | 12.2    | 12.3    | 9.8     | 11.7    | 12.2  |
| pH                           | SU     | 7.12    | 7.09  | 7.13    | 7.17  | 7.09    | 7.02  | 7.17  | 7.09    | 7.05  | 7.03  | 6.99    | 6.99    | 6.99    | 7.14    | 7.19    | 7.19    | 7.20    | 7.27    | 7.31    | 7.30    | 7.18    | 7.23    | 7.23    | 6.59    | 7.20    | 7.27    | 7.23    | 7.07    | 7.35    | 6.97    | 7.02  |
| Specific Conductance         | µS/cm  | 1781    | 1696  | 1720    | 1725  | 1729    | 1628  | 1676  | 1699    | 172   | 1739  | 1774    | 1739    | 1758    | 1760    | 1675    | 1716    | 1570    | 1642    | 1671    | 1746    | 1750    | 1763    | 1763    | 1793    | 1665    | 1766    | 1742    | 1761    | 1955    | 1849    | 1851  |
| Oxygen Reduction Potential   | mV     | -65.0   | -52.8 | -51.8   | -53.0 | -59.7   | 11.0  | -29.5 | -46.6   | -44.8 | -33.5 | -38.8   | -39.2   | -18.2   | -72.4   | 1.4     | -14.7   | -20.2   | -63.3   | -57.4   | -37.2   | -156.9  | -111.7  | -230.9  | -23.9   | 182.6   | -81.5   | -86.6   | -103.6  | -175.8  | -96.2   | -99.4 |
| Lab Analytical Results:      |        |         |       |         |       |         |       |       |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       |
| Hardness as CaCO3            | mg/L   | 870     |       | 861     |       | 864     |       |       | 883     |       |       | 867     | 861     | 907     | 937     | 810     | 914     | 838     | 859     | 859     | 937     | 867     | 831     | 871     | 940     | 932     | 887     | 901     | 962     | 975     | 957     |       |
| pH (Lab)                     | SU     | 7.28    |       | 7.36    |       | 7.13    |       |       | 7.05    |       |       | 7.01    | 7.11    | 6.96    | 7.18    | 7.1     | 7.03    | 6.97    | 7.06    | 6.81    | 7.19    | 7.16    | 7.27    | 7.25    | 7.05    | 7.03    | 7.33    | 7.43    | 7.02    | 7.2     | 7.17    |       |
| Total Dissolved Solids (Lab) | mg/L   | 1220    |       | 1290    |       | 1240    |       |       | 1280    |       |       | 1380    | 1290    | 1260    | 1280    | 1310    | 1400    | 1320    | 1320    | 1340    | 1380    | 1330    | 1360    | 1300    | 1320    | 1350    | 1400    | 1430    | 1480    | 1420    | 1460    |       |
| Calcium                      | mg/L   | 152     |       | 151     |       | 148     |       |       | 154     |       |       | 143     | 149     | 153     | 160     | 134     | 156     | 146     | 146     | 149     | 158     | 150     | 143     | 149     | 163     | 159     | 152     | 156     | 168     | 169     | 167     |       |
| Magnesium                    | mg/L   | 119     |       | 118     |       | 120     |       |       | 121     |       |       | 124     | 119     | 127     | 130     | 115     | 127     | 115     | 120     | 118     | 131     | 119     | 115     | 121     | 130     | 130     | 123     | 125     | 132     | 134     | 131     |       |
| Sodium                       | mg/L   | 81.7    |       | 82.6    |       | 77.2    |       |       | 78.6    |       |       | 77.1    | 77.2    | 77.7    | 82.9    | 74.3    | 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    |       |
| Potassium                    | mg/L   | 3.80    |       | 3.27    |       | 3.55    |       |       | 3.18    |       |       | 3.52    | 3.8     | <5.00   | <5.00   | <5.00   | 3.63    | 3.49    | <5.00   | 3.36    | 3.65    | 3.35    | 3.45    | 3.42    | <5.00   | 3.73    | <5.00   | 3.24    | 3.58    | 3.61    | 3.69    |       |
| Alkalinity, Total            | mg/L   | 400     |       | 435     |       | 450     |       |       | 431     |       |       | 445     | 404     | 385     | 288     | 480     | 450     | 445     | 385     | 490     | 460     | 465     | 480     | 430     | 417     | 448     | 417     | 415     | 435     | 475     | 480     |       |
| Alkalinity, Bicarbonate      | mg/L   | 400     |       | 435     |       | 450     |       |       | 431     |       |       | 445     | 404     | 385     | 288     | 480     | 450     | 445     | 385     | 490     | 460     | 465     | 480     | 430     | 417     | 448     | 417     | 415     | 435     | 475     | 480     |       |
| Alkalinity, Carbonate        | mg/L   | <10.0   |       | <10.0   |       | <10.0   |       |       | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |       |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |       | <10.0   |       | <10.0   |       |       | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |       |
| Chloride                     | mg/L   | 9.83    |       | 10.5    |       | 10.3    |       |       | 11.1    |       |       | 11.0    | 10.2    | 10.3    | 10.1    | 11.3    | 10.4    | 10.2    | 10.3    | 10.5    | 10.5    | 10.6    | 11.7    | 11.4    | 11.6    | 11.8    | 12.2    | 12.2    | 12.3    | 11.8    | 12.2    |       |
| Fluoride                     | mg/L   | 0.380   |       | 0.370   |       | 0.338   |       |       | 0.342   |       |       | <0.500  | 0.33    | 0.346   | 0.336   | 0.334   | 0.292   | 0.306   | 0.35    | 0.272   | 0.304   | 0.204   | 0.332   | 0.316   | 0.358   | 0.284   | <0.200  | 0.266   | 0.330   | 0.312   | <0.500  |       |
| Sulfate as SO4               | mg/L   | 533     |       | 559     |       | 606     |       |       | 643     |       |       | 577     | 602     | 625     | 605     | 582     | 609     | 595     | 615     | 599     | 608     | 597     | 627     | 619     | 686     | 675     | 685     | 748     | 768     | 731     | 713     |       |
| Total Organic Carbon (TOC)   | mg/L   | 3.77    |       | 3.59    |       | 3.77    |       |       | 3.68    |       |       | 3.52    | 3.49    | 3.56    | 3.82    | 3.54    | 3.04    | 3.65    | 3.71    | 3.48    | 3.49    | 3.56    | 3.64    | 1.82    | 3.63    | 3.25    | 5.64    | 3.64    | 4.76    | 4.00    | 4.20    |       |
| 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  | 0.493   | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |       |
| Ammonia as N ^               | mg/L   | NA      |       | NA      |       | NA      |       |       | NA      |       |       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |       |
| Ortho-Phosphate as P ^       | mg/L   | NA      |       | NA      |       | NA      |       |       | NA      |       |       | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |       |
| Aluminum                     | mg/L   | <0.100  |       | <0.100  |       | <0.050  |       |       | <0.100  |       |       | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.050  | <0.250  | <0.100  | <0.050  | <0.050  | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |       |
| Arsenic                      | mg/L   | 0.0020  |       | 0.0018  |       | 0.0018  |       |       | 0.0021  |       |       | 0.0018  | 0.0017  | 0.0017  | 0.0018  | <0.0025 | 0.0018  | 0.0018  | <0.0025 | 0.0017  | 0.0015  | 0.0019  | <0.0025 | 0.0020  | 0.0027  | <0.0025 | <0.0025 | 0.0020  | <0.0020 | <0.0020 | 0.0015  |       |
| Cadmium                      | mg/L   | <0.0001 |       | <0.0002 |       | <0.0001 |       |       | <0.0001 |       |       | <0.0001 | <0.0002 | <0.0002 | <0.0003 | <0.0005 | <0.0003 | <0.0015 | <0.0025 | <0.0010 | <0.0005 | <0.0005 | <0.0025 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |       |
| Copper                       | mg/L   | 0.0004  |       | 0.0024  |       | 0.0023  |       |       | 0.0008  |       |       | 0.0010  | 0.001   | <0.0010 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | 0.0017  | 0.0021  | 0.0031  | <0.0025 | 0.0021  | <0.0025 | 0.0084  | <0.0025 | 0.0020  | 0.0048  | 0.003   | 0.0033  |       |
| Iron                         | mg/L   | 2.12    |       | 2.13    |       | 2.42    |       |       | 2.46    |       |       | 2.30    | 2.28    | 2.29    | 2.31    | 0.762   | 2.33    | 2.25    | 2.2     | 2.22    | 2.52    | 2.22    | 2.28    | 2.27    | 2.43    | 2.43    | 2.19    | 2.24    | 2.34    | 2.37    | 2.32    |       |
| Lead                         | mg/L   | <0.0005 |       | <0.0010 |       | <0.0005 |       |       | <0.0005 |       |       | <0.0005 | <0.001  | <0.0010 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | <0.001  | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |       |
| Manganese                    | mg/L   | 3.17    |       | 3.52    |       | 3.06    |       |       | 3.37    |       |       | 3.39    | 3.7     | 3.36    | 3.54    | 3.81    | 3.55    | 3.5     | 3.6     | 3.66    | 3.77    | 3.70    | 3.77    | 3.87    | 3.98    | 3.85    | 3.91    | 4.16    | 3.88    | 4.26    | 4.23    |       |
| Mercury (dissolved)          | mg/L   | <0.0002 |       | <0.0002 |       | <0.0002 |       |       | <0.0002 |       |       | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.     |         |         |         |         |         |         |         |         |         |         |         |         |       |



## GCC Energy Hydrologic Monitoring Data

| MW-8-MI                      |        |         |        |         |        |       |         |       |        |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|---------|--------|---------|--------|-------|---------|-------|--------|---------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   | 2019    |        |         |        |       |         |       |        |         |       |       | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q4     | Q1      |        |         | Q2     |       |         | Q3    |        |         | Q4    |       | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                        | 12     | 1       | 2      | 3       | 4      | 5     | 6       | 7     | 8      | 9       | 10    | 11    | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 11      | 3       | 6       | 8       | 11      | 3       | 6       | 8       |         |
| Sample Date                  | 12/23  | 1/29    | 2/19   | 3/20    | 4/16   | 5/29  | 6/20    | 7/24  | 8/13   | 9/27    | 10/24 | 11/6  | 2/11    | 5/27    | 8/25    | 11/11   | 2/16    | 5/24    | 8/24    | 11/30   | 3/23    | 6/7     | 9/8     | 11/28   | 3/18    | 6/14    | 8/8     | 11/13   | 3/17    | 6/19    | 8/6     |         |
| Lab Analysis (Y/N)           | Y      | N       | Y      | N       | N      | Y     | N       | N     | Y      | N       | N     | Y     | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |         |
| Field Parameters:            |        |         |        |         |        |       |         |       |        |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | 1.10    | 1.00   | 0.50    | 3.00   | 0.50  | 0.50    | 0.25  | 0.50   | 0.75    | 0.50  | 1.00  | 0.25    | 0.25    | 0.13    | 0.10    | 0.25    | 0.25    | 0.13    | 0.25    | 0.25    | 0.13    | 0.15    | 0.50    | 0.12    | 0.13    | 0.23    | 0.19    | 0.11    | 0.18    | 0.17    |         |
| Total Purged                 | gal    | 27.5    | 18.0   | 1.0     | 3.0    | 1.5   | 2.5     | 2.5   | 2.3    | 3.0     | 2.0   | 2.5   | 1.0     | 1.0     | 1.0     | 2.0     | 1.0     | 2.0     | 3.0     | 1.0     | 1.0     | 1.0     | 0.8     | 0.5     | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     |         |
| Depth to Water               | ft bgs | 45.75   | 43.48  | 43.50   | 44.30  | 44.47 | 44.10   | 44.24 | 44.45  | 44.59   | 44.90 | 45.12 | 45.10   | 45.20   | 45.42   | 45.84   | 46.24   | 46.38   | 46.54   | 47.27   | 46.84   | 47.69   | 48.00   | 48.00   | 48.25   | 47.75   | 44.65   | 44.52   | 42.85   | 43.51   | 39.90   | 40.52   |
| Temperature                  | deg C  | 10.8    | 10.8   | 10.6    | 11.2   | 10.4  | 11.1    | 11.4  | 11.0   | 11.4    | 10.9  | 10.3  | 11.4    | 10.2    | 11.3    | 13.1    | 11.3    | 10.0    | 11.6    | 11.9    | 11.1    | 10.9    | 12.5    | 14.3    | 9.9     | 11.7    | 11.5    | 11.9    | 12.1    | 10.3    | 12.3    | 12.6    |
| pH                           | SU     | 7.57    | 7.50   | 7.48    | 7.47   | 7.34  | 7.31    | 7.48  | 7.42   | 7.38    | 7.30  | 7.23  | 7.15    | 7.08    | 7.44    | 7.44    | 7.43    | 7.47    | 7.59    | 7.55    | 7.56    | 7.41    | 7.54    | 7.59    | 6.92    | 7.52    | 7.54    | 7.51    | 7.52    | 7.66    | 7.33    | 7.28    |
| Specific Conductance         | µS/cm  | 1786    | 1667   | 1651    | 1658   | 1643  | 1595    | 1639  | 1645   | 1658    | 1637  | 1689  | 1642    | 1651    | 1659    | 1598    | 1628    | 1468    | 1616    | 1554    | 1629    | 1596    | 1575    | 1505    | 1631    | 1632    | 1607    | 1538    | 1544    | 1642    | 1526    | 1580    |
| Oxygen Reduction Potential   | mV     | -84.4   | -177.1 | -122.1  | -113.3 | -87.2 | -54.4   | -97.1 | -116.4 | -119.4  | -88.4 | -82.0 | -59.3   | -136.6  | -184.9  | -107.0  | -112.2  | -72.0   | -131.9  | -123.1  | -115.9  | -195.3  | -150.6  | -262.2  | -172.4  | -79.7   | -134.6  | -148.3  | -178.2  | -22.8   | -160.5  | -118.0  |
| Lab Analytical Results:      |        |         |        |         |        |       |         |       |        |         |       |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   | 167     |        | 249     |        |       | 273     |       |        | 253     |       |       | 267     | 254     | 309     | 355     | 339     | 376     | 288     | 377     | 317     | 406     | 378     | 374     | 390     | 405     | 388     | 363     | 361     | 366     | 388     | 389     |
| pH (Lab)                     | SU     | 7.73    |        | 7.54    |        |       | 7.24    |       |        | 7.46    |       |       | 7.44    | 7.53    | 7.25    | 7.34    | 7.27    | 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    |
| Total Dissolved Solids (Lab) | mg/L   | 1050    |        | 1030    |        |       | 1100    |       |        | 1110    |       |       | 1050    | 1060    | 1040    | 1010    | 1040    | 1060    | 1040    | 1000    | 1100    | 1050    | 1040    | 1050    | 990     | 1050    | 995     | 1060    | 1050    | 995     | 985     | 1030    |
| Calcium                      | mg/L   | 34.0    |        | 48.5    |        |       | 52.4    |       |        | 49.7    |       |       | 51.3    | 48.7    | 58.5    | 65.9    | 62.6    | 69.7    | 54      | 70.3    | 59.8    | 75.5    | 71.2    | 69.2    | 72.3    | 76.0    | 72.1    | 67.4    | 66.3    | 68.4    | 72.9    | 73.5    |
| Magnesium                    | mg/L   | 19.9    |        | 31.0    |        |       | 34.5    |       |        | 31.4    |       |       | 33.8    | 32.1    | 39.6    | 46.2    | 44.4    | 49.1    | 37.2    | 48.9    | 40.8    | 52.7    | 48.7    | 48.8    | 50.8    | 52.3    | 50.4    | 47.1    | 47.5    | 47.4    | 50.1    | 50.0    |
| Sodium                       | mg/L   | 344     |        | 312     |        |       | 289     |       |        | 289     |       |       | 275     | 269     | 272     | 260     | 232     | 237     | 256     | 229     | 238     | 226     | 220     | 213     | 210     | 230     | 236     | 216     | 215     | 219     | 221     | 228     |
| Potassium                    | mg/L   | 4.47    |        | 5.25    |        |       | <5.00   |       |        | 4.55    |       |       | 5.07    | 4.71    | 5.00    | 5.56    | 5.22    | 5.88    | 5.05    | 5.69    | 5.14    | 5.98    | 5.47    | 5.59    | 5.63    | 5.44    | 6.18    | 5.09    | 5.12    | 5.38    | 5.65    | 5.73    |
| Alkalinity, Total            | mg/L   | 500     |        | 565     |        |       | 560     |       |        | 573     |       |       | 585     | 543     | 545     | 448     | 590     | 590     | 575     | 570     | 605     | 590     | 590     | 500     | 540     | 550     | 568     | 553     | 560     | 555     | 595     | 580     |
| Alkalinity, Bicarbonate      | mg/L   | 500     |        | 565     |        |       | 560     |       |        | 573     |       |       | 585     | 543     | 545     | 448     | 590     | 590     | 575     | 570     | 605     | 590     | 590     | 500     | 540     | 550     | 568     | 553     | 560     | 555     | 595     | 580     |
| Alkalinity, Carbonate        | mg/L   | <10.0   |        | <10.0   |        |       | <10.0   |       |        | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |        | <10.0   |        |       | <10.0   |       |        | <10.0   |       |       | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   | 12.7    |        | 10.0    |        |       | 9.33    |       |        | 9.06    |       |       | 9.66    | 8.19    | 8.23    | 8.12    | 7.91    | 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    |
| Fluoride                     | mg/L   | <0.500  |        | <0.200  |        |       | <0.200  |       |        | <0.200  |       |       | <0.500  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | <0.200  | 0.112   | <0.200  | <0.200  | <0.200  | <0.500  |         |
| Sulfate as SO4               | mg/L   | 347     |        | 353     |        |       | 343     |       |        | 366     |       |       | 317     | 314     | 316     | 335     | 319     | 326     | 314     | 324     | 312     | 325     | 322     | 352     | 351     | 335     | 327     | 323     | 320     | 329     | 329     | 356     |
| Total Organic Carbon (TOC)   | mg/L   | 2.73    |        | 2.83    |        |       | 2.81    |       |        | 2.74    |       |       | 2.65    | 2.6     | 2.94    | 2.87    | 2.76    | 2.6     | 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    |
| Nitrate/Nitrite as N         | mg/L   | <0.020  |        | <0.020  |        |       | <0.020  |       |        | <0.020  |       |       | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |         |
| Ammonia as N ^               | mg/L   | NA      |        | NA      |        |       | NA      |       |        | NA      |       |       | 1.31    | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   | NA      |        | NA      |        |       | NA      |       |        | NA      |       |       | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   | <0.050  |        | <0.100  |        |       | <0.250  |       |        | <0.100  |       |       | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.050  | <0.250  | <0.100  | <0.050  | <0.050  | <0.100  | <0.100  | <0.250  | <0.250  | <0.250  | <0.100  | <0.100  | <0.100  | <0.050  |
| Arsenic                      | mg/L   | 0.0008  |        | <0.0010 |        |       | 0.0006  |       |        | 0.0005  |       |       | 0.0005  | <0.0010 | <0.0010 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | <0.0010 | <0.0005 | 0.0006  | <0.0025 | 0.0010  | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                      | mg/L   | <0.0001 |        | <0.0002 |        |       | <0.0001 |       |        | <0.0001 |       |       | <0.0001 | <0.0002 | <0.0002 | <0.0003 | <0.0005 | <0.0003 | <0.0015 | <0.0025 | <0.0010 | <0.0005 | <0.0005 | <0.0025 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   | 0.0031  |        | 0.0066  |        |       | 0.0036  |       |        | 0.0035  |       |       | 0.0037  | 0.0027  | <0.0010 | <0.0015 | <0.0025 | 0.0015  | 0.0046  | 0.0047  | 0.0054  | 0.0055  | 0.0087  | 0.0038  | 0.0044  | 0.0025  | 0.0104  | 0.0031  | 0.0044  | 0.0088  | 0.0083  | 0.0081  |
| Iron                         | mg/L   | 0.137   |        | 0.162   |        |       | <0.250  |       |        | 0.129   |       |       | 0.130   | 0.108   | <0.250  | <0.250  | <0.250  | <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   |
| Lead                         | mg/L   | <0.0005 |        | <0.0010 |        |       | <0.0005 |       |        | <0.0005 |       |       | <0.0005 | <0.0010 | <0.0025 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Manganese                    | mg/L   | 0.0495  |        | 0.0383  |        |       | 0.0327  |       |        | 0.0351  |       |       | 0.0377  | 0.0391  | 0.0393  | 0.0551  | 0.0546  | 0.0579  | 0.0412  | 0.0544  | 0.0443  | 0.0603  | 0.0553  | 0.0597  | 0.0693  | 0.0569  | 0.0560  | 0.0562  | 0.05    |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-8-LM                      |        |         |        |         |        |        |         |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|---------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   | 2019    |        |         |        |        |         |        |        |         |        |        | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q4     | Q1      |        |         | Q2     |        |         | Q3     |        |         | Q4     |        | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                        | 12     | 1       | 2      | 3       | 4      | 5      | 6       | 7      | 8      | 9       | 10     | 11     | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 11      | 3       | 6       | 8       | 11      | 3       | 6       | 8       |         |
| Sample Date                  | 12/28  | 1/29    | 2/19   | 3/21    | 4/16   | 5/29   | 6/18    | 7/24   | 8/13   | 9/27    | 10/24  | 11/6   | 2/11    | 5/27    | 8/25    | 11/11   | 2/16    | 5/24    | 8/24    | 11/30   | 3/23    | 6/7     | 9/8     | 11/28   | 3/18    | 6/14    | 8/8     | 11/13   | 3/17    | 6/19    | 8/6     |         |
| Lab Analysis (Y/N)           | Y      | N       | Y      | N       | N      | Y      | N       | N      | Y      | N       | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |         |
| Purge Flow Rate              | gpm    | NM      | 1.00   | 0.25    | 1.00   | 0.50   | 0.10    | 0.25   | 0.25   | 0.50    | 0.25   | 0.12   | 0.25    | 0.25    | 0.13    | 0.13    | 0.13    | 0.13    | 0.25    | 0.25    | 0.25    | 0.25    | 0.15    | NM      | 0.14    | 0.03    | 0.16    | 0.20    | 0.15    | 0.20    | 0.18    |         |
| Total Purged                 | gal    | 30      | 4.0    | 1.5     | 1.0    | 2.0    | 1.3     | 6.8    | 2.0    | 2.0     | 1.0    | 1.0    | 1.5     | 1.0     | 1.0     | 2.0     | 1.0     | 1.5     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | NM      | 0.7     | 0.7     | 0.7     | 0.7     | 0.7     | 0.7     | 0.7     |         |
| Depth to Water               | ft bgs | 136.39  | 130.52 | 134.30  | 144.03 | 140.03 | 137.48  | 142.23 | 144.15 | 138.06  | 137.50 | 137.60 | 137.34  | 139.15  | 129.70  | 127.90  | 125.75  | 126.72  | 126.13  | 125.25  | 123.55  | 124.10  | 123.75  | 126.81  | NM      | 126.10  | 125.80  | 126.12  | 125.92  | 124.95  | 125.05  | 125.12  |
| Temperature                  | deg C  | 4.1     | 13.9   | 13.2    | 8.7    | 13.6   | 13.9    | 12.8   | 13.7   | 13.4    | 13.0   | 11.7   | 13.3    | 11.4    | 13.4    | 13.6    | 8.8     | 12.1    | 12.8    | 13.5    | 12.5    | 12.3    | 14.1    | 13.4    | 11.9    | 12.7    | 13.0    | 13.1    | 13.2    | 11.5    | 12.8    | 13.8    |
| pH                           | SU     | 8.37    | 8.70   | 8.71    | 8.41   | 8.70   | 8.50    | 8.66   | 8.64   | 8.58    | 8.44   | 8.44   | 8.47    | 7.98    | 8.76    | 8.83    | 8.81    | 8.82    | 8.90    | 8.90    | 8.91    | 8.79    | 8.84    | 8.82    | 8.29    | 8.88    | 8.88    | 8.83    | 8.84    | 8.94    | 8.66    | 8.67    |
| Specific Conductance         | µS/cm  | 2306    | 1274   | 1265    | 1310   | 1262   | 1234    | 1264   | 1226   | 1269    | 1252   | 1299   | 1255    | 1294    | 1282    | 1055    | 1117    | 1132    | 1121    | 1196    | 1262    | 1260    | 1232    | 1255    | 1276    | 1233    | 1252    | 1241    | 1224    | 1305    | 1229    | 1227    |
| Oxygen Reduction Potential   | mV     | 37.5    | -114.3 | 112.8   | 77.0   | -36.2  | 33.2    | -63.9  | -93.5  | -103.0  | -115.9 | -94.4  | -47.4   | -106.6  | -204.5  | -106.9  | -93.6   | -87.8   | -164.1  | -106.1  | -99.3   | -241.3  | -149.4  | -247.4  | -66.9   | -58.6   | -137.0  | -147.9  | -210.0  | -26.4   | -149.5  | -106.3  |
| Lab Analytical Results:      |        |         |        |         |        |        |         |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   | 45.0    |        | 7.29    |        |        | 16.9    |        |        | 6.67    |        |        | 6.38    | 6.79    | 7.76    | 7.53    | 6.35    | 6.93    | 7.23    | 4.65    | 7.11    | 7.29    | 6.61    | 6.43    | 6.29    | 4.01    | 6.22    | 4.01    | 7.08    | 6.62    | 6.92    | 7.96    |
| pH (Lab)                     | SU     | 8.57    |        | 8.63    |        |        | 8.02    |        |        | 8.56    |        |        | 8.52    | 8.55    | 8.41    | 8.45    | 8.48    | 8.54    | 8.57    | 8.48    | 8.31    | 8.61    | 8.63    | 8.99    | 8.59    | 8.47    | 8.51    | 8.71    | 8.84    | 8.42    | 8.66    | 8.70    |
| Total Dissolved Solids (Lab) | mg/L   | 1420    |        | 770     |        |        | 780     |        |        | 785     |        |        | 780     | 840     | 730     | 740     | 700     | 795     | 720     | 740     | 760     | 740     | 795     | 755     | 685     | 765     | 745     | 805     | 755     | 755     | 760     | 760     |
| Calcium                      | mg/L   | 10.8    |        | 1.93    |        |        | 3.84    |        |        | 1.78    |        |        | 1.68    | 1.77    | 2.09    | 2.05    | 1.71    | 1.87    | 1.92    | 1.86    | 1.88    | 1.96    | 1.77    | 1.70    | 1.65    | 1.61    | 1.71    | 1.61    | 1.87    | 1.77    | 1.84    | 2.11    |
| Magnesium                    | mg/L   | 4.39    |        | 0.600   |        |        | 1.77    |        |        | 0.541   |        |        | 0.528   | 0.574   | 0.620   | 0.587   | 0.502   | 0.550   | 0.592   | <0.500  | 0.587   | 0.580   | 0.530   | 0.532   | 0.524   | <0.500  | 0.473   | <0.500  | 0.583   | 0.534   | 0.563   | 0.655   |
| Sodium                       | mg/L   | 382     |        | 341     |        |        | 317     |        |        | 306     |        |        | 305     | 309     | 315     | 337     | 304     | 319     | 315     | 308     | 291     | 316     | 298     | 298     | 301     | 287     | 315     | 289     | 299     | 304     | 311     | 304     |
| Potassium                    | mg/L   | 45.7    |        | 3.49    |        |        | <5.00   |        |        | 2.27    |        |        | 2.18    | 2.06    | <5.00   | <5.00   | <5.00   | <3.00   | 2.24    | <5.00   | 2.12    | 2.31    | 2.06    | <2.00   | 2.12    | <5.00   | 1.85    | <5.00   | 2.07    | 2.00    | 2.13    | 2.22    |
| Alkalinity, Total            | mg/L   | 615     |        | 720     |        |        | 745     |        |        | 731     |        |        | 745     | 685     | 630     | 675     | 780     | 730     | 755     | 750     | 770     | 780     | 765     | 760     | 750     | 714     | 732     | 714     | 700     | 690     | 760     | 745     |
| Alkalinity, Bicarbonate      | mg/L   | 535     |        | 610     |        |        | 645     |        |        | 645     |        |        | 685     | 595     | 530     | 585     | 680     | 630     | 645     | 650     | 620     | 640     | 655     | 580     | 510     | 666     | 732     | 646     | 620     | 640     | 640     | 665     |
| Alkalinity, Carbonate        | mg/L   | 80.0    |        | 110     |        |        | 100     |        |        | 86.0    |        |        | 60.0    | 90      | 100     | 90      | 100     | 100     | 110     | 100     | 150     | 140     | 110     | 180     | 240     | 48.0    | <10.0   | 68.0    | 80.0    | 50.0    | 120     | 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   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   | 175     |        | 5.11    |        |        | 6.80    |        |        | 2.63    |        |        | 2.48    | 3.04    | 3.01    | 2.98    | 2.47    | 2.5     | 2.48    | 2.55    | 2.47    | 2.47    | 2.49    | 2.64    | 2.65    | 2.66    | 2.76    | 2.67    | 2.75    | 2.66    | 2.64    | 2.57    |
| Fluoride                     | mg/L   | 2.06    |        | 3.91    |        |        | 3.95    |        |        | 3.97    |        |        | 3.88    | 3.61    | 3.63    | 3.53    | 3.66    | 3.58    | 3.48    | 3.67    | 3.40    | 3.44    | 3.25    | 3.79    | 3.73    | 3.84    | 3.65    | 3.15    | 3.42    | 3.93    | 3.94    | 3.86    |
| Sulfate as SO4               | mg/L   | 190     |        | 3.79    |        |        | 9.58    |        |        | 1.02    |        |        | <1.00   | <2.00   | <2.00   | <2.00   | <1.00   | <1.00   | <1.00   | <1.00   | <1.00   | <1.00   | <2.00   | <2.00   | <2.00   | <2.00   | 0.886   | <2.00   | <2.00   | <2.00   | <2.00   | <2.00   |
| Total Organic Carbon (TOC)   | mg/L   | 2.80    |        | 1.80    |        |        | 3.33    |        |        | 1.94    |        |        | 1.69    | 1.69    | 1.92    | 1.82    | 1.66    | 1.2     | 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    |
| Nitrate/Nitrite as N         | mg/L   | <0.020  |        | <0.020  |        |        | <0.020  |        |        | <0.020  |        |        | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |
| Ammonia as N ^               | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA      |        |        | 0.282   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA      |        |        | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   | <0.050  |        | <0.100  |        |        | <0.250  |        |        | <0.050  |        |        | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.050  | <0.250  | <0.100  | <0.050  | <0.050  | <0.100  | <0.050  | <0.250  | <0.250  | <0.250  | <0.050  | <0.100  | <0.100  | <0.050  |
| Arsenic                      | mg/L   | 0.0106  |        | <0.0010 |        |        | 0.0006  |        |        | 0.0007  |        |        | 0.0006  | <0.0005 | <0.0010 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | <0.0010 | 0.0008  | 0.0008  | <0.0025 | <0.0005 | <0.0025 | <0.0015 | <0.0025 | <0.0010 | <0.0020 | <0.0020 | <0.0010 |
| Cadmium                      | mg/L   | <0.0001 |        | <0.0002 |        |        | <0.0001 |        |        | <0.0001 |        |        | <0.0001 | <0.0001 | <0.0002 | <0.0003 | <0.0005 | <0.0003 | <0.0015 | <0.0025 | <0.0010 | <0.0005 | <0.0005 | <0.0025 | <0.0005 | <0.0025 | <0.0015 | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Copper                       | mg/L   | 0.0337  |        | 0.0077  |        |        | 0.0047  |        |        | 0.0041  |        |        | 0.0051  | 0.0033  | 0.0012  | 0.0017  | <0.0025 | 0.0025  | 0.0057  | 0.0068  | 0.0065  | 0.0075  | 0.0167  | 0.0052  | 0.0079  | 0.0043  | 0.0155  | 0.0040  | 0.0068  | 0.0128  | 0.0132  | 0.0130  |
| Iron                         | mg/L   | <0.050  |        | <0.100  |        |        | <0.250  |        |        | <0.050  |        |        | <0.050  | <0.100  | <0.250  | <0.250  | <0.250  | <0.150  | <0.050  | <0.250  | <0.100  | <0.050  | <0.050  | <0.100  | <0.050  | <0.250  | <0.250  | <0.250  | <0.050  | <0.100  | <0.100  | <0.050  |
| Lead                         | mg/L   | <0.0005 |        | <0.0010 |        |        | <0.0005 |        |        | <0.0005 |        |        | <0.0010 | <0.0005 | <0.0010 | <0.0015 | <0.0025 | <0.0015 | <0.0015 | <0.0025 | <0.0010 | <0.0025 | <0.0025 | <0.0025 | <0.0005 | <0.0025 | 0.0002  | <0.0025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 |
| Manganese                    |        |         |        |         |        |        |         |        |        |         |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |





GCC Energy Hydrologic Monitoring Data

| MW-8-PL                      |        |         |        |         |        |        |         |        |        |           |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------|--------|---------|--------|---------|--------|--------|---------|--------|--------|-----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Year                         | 2018   | 2019    |        |         |        |        |         |        |        |           |        |        | 2020    |         |         |         | 2021    |         |         |         | 2022    |         |         |         | 2023    |         |         |         | 2024    |         |         |         |
| Quarter                      | Q4     | Q1      |        |         | Q2     |        |         | Q3     |        |           | Q4     |        | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      | Q4      | Q1      | Q2      | Q3      |         |
| Month                        | 12     | 1       | 2      | 3       | 4      | 5      | 6       | 7      | 8      | 9         | 10     | 11     | 2       | 5       | 8       | 11      | 2       | 5       | 8       | 11      | 3       | 6       | 9       | 11      | 3       | 6       | 8       | 11      | 3       | 6       | 8       |         |
| Sample Date                  | 12/27  | 1/29    | 2/19   | 3/20    | 4/16   | 5/29   | 6/20    | 7/24   | 8/13   | 9/27      | 10/24  | 11/6   | 2/11    | 5/27    | 8/25    | 11/11   | 2/16    | 5/24    | 8/24    | 11/30   | 3/23    | 6/7     | 9/8     | 11/28   | 3/18    | 6/14    | 8/8     | 11/13   | 3/17    | 6/19    | 8/6     |         |
| Lab Analysis (Y/N)           | Y      | N       | Y      | N       | N      | Y      | N       | N      | Y      | N         | N      | Y      | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       | Y       |         |
| Field Parameters:            |        |         |        |         |        |        |         |        |        |           |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Purge Flow Rate              | gpm    | 0.25    | 1.00   | 0.50    | 3.00   | 0.50   | 0.25    | 0.50   | 1.00   | 0.50      | 0.50   | 0.75   | 0.25    | 0.25    | 0.25    | 0.25    | 0.75    | 0.25    | 0.25    | 0.25    | 0.25    | 0.25    | 0.13    | 1.00    | 0.22    | 0.18    | 0.13    | 0.16    | 0.22    | 0.13    | 0.13    |         |
| Total Purged                 | gal    | 20.0    | 5.0    | 2.0     | 3.0    | 2.0    | 3.0     | 2.5    | 2.3    | 2.5       | 2.0    | 2.5    | 1.3     | 2.0     | 2.0     | 2.3     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     | 1.8     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |         |
| Depth to Water               | ft bgs | 125.97  | 126.29 | 126.40  | 127.10 | 126.98 | 126.70  | 126.82 | 127.25 | 127.38    | 127.42 | 127.48 | 127.59  | 127.32  | 127.34  | 128.00  | 127.31  | 127.50  | 127.83  | 127.89  | 127.90  | 128.30  | 128.40  | 128.53  | 128.75  | 128.10  | 128.05  | 128.48  | 128.50  | 128.25  | 128.19  | 128.36  |
| Temperature                  | deg C  | 10.3    | 14.2   | 13.4    | 12.9   | 13.2   | 14.2    | 14.8   | 14.7   | 14.9      | 14.0   | 13.2   | 14.9    | 13.8    | 14.8    | 14.9    | 14.1    | 12.9    | 14.6    | 14.8    | 13.4    | 14.1    | 14.1    | 14.3    | 12.8    | 13.2    | 14.2    | 13.4    | 13.3    | 12.2    | 13.1    | 13.5    |
| pH                           | SU     | 7.50    | 7.30   | 7.49    | 7.30   | 7.29   | 7.31    | 7.57   | 7.56   | 7.52      | 7.45   | 7.47   | 7.52    | 7.55    | 7.47    | 7.52    | 7.53    | 7.58    | 7.55    | 7.57    | 7.43    | 7.49    | 7.44    | 7.67    | 7.61    | 7.56    | 7.53    | 7.57    | 7.69    | 7.33    | 7.34    |         |
| Specific Conductance         | µS/cm  | 1690    | 1531   | 1571    | 1558   | 1554   | 1411    | 1326   | 1165   | 1083      | 947    | 940    | 900     | 862     | 844     | 792     | 827     | 760     | 813     | 816     | 836     | 817     | 826     | 822     | 848     | 853     | 825     | 814     | 815     | 854     | 813     | 824     |
|                              | mV     | 30.2    | -116.5 | 97.9    | -108.7 | -110.6 | 34.2    | -57.6  | -74.0  | -79.5     | -51.3  | -52.5  | -30.8   | -59.9   | -101.9  | -38.0   | -37.3   | -11.5   | -76.6   | -64.4   | -53.5   | -161.9  | -94.6   | -215.9  | -104.0  | -36.3   | -87.6   | -113.8  | -140.3  | -210.9  | -141.2  | -101.5  |
| Lab Analytical Results:      |        |         |        |         |        |        |         |        |        |           |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Hardness as CaCO3            | mg/L   | 617     |        | 644     |        |        | 596     |        |        | 411       |        |        | 294     | 278     | 298     | 292     | 268     | 281     | 283     | 280     | 272     | 292     | 276     | 275     | 274     | 303     | 282     | 274     | 269     | 279     | 282     | 296     |
| pH (Lab)                     | SU     | 7.28    |        | 7.40    |        |        | 7.26    |        |        | 7.22      |        |        | 7.39    | 7.47    | 7.19    | 7.16    | 7.41    | 7.36    | 7.41    | 7.29    | 7.16    | 7.42    | 7.47    | 7.88    | 7.39    | 7.33    | 7.36    | 7.51    | 7.70    | 7.26    | 7.52    | 7.56    |
| Total Dissolved Solids (Lab) | mg/L   | 1150    |        | 1090    |        |        | 995     |        |        | 705       |        |        | 620     | 500     | 490     | 525     | 465     | 525     | 505     | 475     | 465     | 485     | 505     | 500     | 430     | 500     | 465     | 540     | 505     | 460     | 490     | 480     |
| Calcium                      | mg/L   | 112     |        | 120     |        |        | 105     |        |        | 73.1      |        |        | 52.1    | 49.3    | 53.8    | 53.3    | 49.1    | 52.2    | 53.3    | 53      | 51.1    | 55.7    | 53.1    | 52.4    | 52.0    | 57.9    | 53.3    | 52.4    | 51.4    | 53.5    | 55.1    | 57.7    |
| Magnesium                    | mg/L   | 82.1    |        | 83.8    |        |        | 81.4    |        |        | 55.4      |        |        | 39.7    | 37.6    | 39.7    | 38.5    | 35.4    | 36.6    | 36.5    | 35.9    | 35.0    | 37.1    | 34.9    | 35.1    | 34.9    | 38.4    | 36.1    | 34.8    | 34.1    | 35.4    | 35.2    | 36.9    |
| Sodium                       | mg/L   | 106     |        | 124     |        |        | 102     |        |        | 91.7      |        |        | 83.3    | 78.5    | 80.4    | 81.6    | 77.2    | 78.6    | 79.7    | 77.8    | 73.7    | 80.8    | 75.4    | 76.3    | 75.0    | 81.7    | 77.4    | 75.3    | 75.1    | 76.0    | 78.2    | 77.5    |
| Potassium                    | mg/L   | 5.14    |        | 5.62    |        |        | <5.00   |        |        | 2.80      |        |        | 2.35    | 2.32    | 2.11    | <2.00   | <2.00   | 1.78    | 1.73    | <2.00   | 1.54    | 1.71    | 1.48    | 1.53    | 1.55    | <2.00   | 1.59    | <2.00   | 1.46    | 1.54    | <2.00   | 1.67    |
| Alkalinity, Total            | mg/L   | 370     |        | 415     |        |        | 435     |        |        | 393       |        |        | 390     | 339     | 340     | 315     | 410     | 370     | 385     | 360     | 385     | 362     | 380     | 356     | 410     | 350     | 388     | 350     | 335     | 370     | 375     | 375     |
| Alkalinity, Bicarbonate      | mg/L   | 370     |        | 415     |        |        | 435     |        |        | 393       |        |        | 390     | 339     | 340     | 315     | 410     | 370     | 385     | 360     | 385     | 362     | 380     | 340     | 410     | 338     | 388     | 350     | 335     | 370     | 375     | 375     |
| 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   | 16.0    | <10.0   | 12.0    | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Alkalinity, Hydroxide        | mg/L   | <10.0   |        | <10.0   |        |        | <10.0   |        |        | <10.0     |        |        | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   | <10.0   |         |
| Chloride                     | mg/L   | 18.8    |        | 18.5    |        |        | 9.03    |        |        | 5.61      |        |        | 5.66    | 3.51    | 3.38    | 3.33    | 3.32    | 3.39    | 3.30    | 3.33    | 3.38    | 3.33    | 3.34    | 3.66    | 3.51    | 3.70    | 3.61    | 3.67    | 3.58    | 3.56    | 3.56    | 3.48    |
| Fluoride                     | mg/L   | 0.505   |        | 0.474   |        |        | 0.290   |        |        | 0.291     |        |        | <0.500  | 0.258   | 0.240   | 0.233   | 0.224   | 0.219   | 0.200   | 0.222   | 0.196   | 0.195   | 0.159   | 0.198   | 0.187   | 0.218   | 0.175   | 0.126   | 0.159   | 0.206   | 0.201   | 0.211   |
| Sulfate as SO4               | mg/L   | 478     |        | 471     |        |        | 390     |        |        | 232       |        |        | 127     | 109     | 103     | 99.2    | 99      | 101     | 96.3    | 102     | 98.4    | 100     | 94.7    | 106     | 107     | 107     | 106     | 104     | 104     | 106     | 107     | 106     |
| Total Organic Carbon (TOC)   | mg/L   | 4.17    |        | 4.02    |        |        | 2.92    |        |        | 2.21      |        |        | 1.75    | 1.63    | 1.63    | 1.61    | 1.44    | 0.928   | 1.42    | 1.54    | 1.40    | 1.54    | 1.36    | 1.60    | 0.774   | 1.44    | 1.15    | 1.59    | <1.00   | 1.45    | 1.46    | 1.40    |
| Nitrate/Nitrite as N         | mg/L   | <0.020  |        | <0.020  |        |        | <0.020  |        |        | <0.020    |        |        | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  |         |
| Ammonia as N ^               | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA        |        |        | 0.199   | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Ortho-Phosphate as P ^       | mg/L   | NA      |        | NA      |        |        | NA      |        |        | NA        |        |        | <0.0500 | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      |
| Aluminum                     | mg/L   | <0.050  |        | <0.100  |        |        | <0.250  |        |        | <0.050    |        |        | <0.050  | <0.050  | <0.100  | <0.100  | <0.100  | <0.050  | <0.050  | <0.100  | <0.050  | <0.050  | <0.050  | <0.050  | <0.100  | <0.050  | <0.100  | <0.050  | <0.050  | <0.100  | <0.050  |         |
| Arsenic                      | mg/L   | 0.0074  |        | 0.0124  |        |        | 0.0190  |        |        | 0.0156    |        |        | 0.0104  | 0.0073  | 0.0075  | 0.0064  | 0.0058  | 0.0074  | 0.0055  | 0.0017  | 0.0051  | 0.0046  | 0.0047  | 0.0042  | 0.0037  | 0.0033  | 0.0036  | 0.0029  | 0.0030  | 0.0029  | 0.0029  | 0.0030  |
| Cadmium                      | mg/L   | <0.0001 |        | <0.0002 |        |        | <0.0001 |        |        | <0.0001   |        |        | <0.0001 | <0.0002 | <0.0001 | <0.0002 | <0.0002 | <0.0001 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0025 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 |
| Copper                       | mg/L   | 0.0016  |        | 0.0025  |        |        | 0.0017  |        |        | 0.0011    |        |        | 0.0004  | 0.001   | <0.0025 | <0.001  | 0.0014  | 0.0005  | 0.0013  | <0.0010 | 0.0015  | 0.0023  | 0.0040  | 0.0014  | 0.0015  | 0.0028  | 0.0027  | 0.0020  | 0.0026  | 0.0030  | 0.0038  | 0.0039  |
| Iron                         | mg/L   | <0.050  |        | 0.352   |        |        | <0.250  |        |        | 0.129     |        |        | 0.075   | 0.054   | <0.100  | <0.100  | <0.100  | <0.050  | <0.050  | <0.100  | 0.070   | 0.079   | <0.050  | 0.063   | 0.057   | <0.100  | 0.062   | <0.100  | 0.051   | 0.066   | <0.100  | 0.064   |
| Lead                         | mg/L   | <0.0005 |        | <0.0010 |        |        | <0.0005 |        |        | <0.0005   |        |        | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <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 |
| Manganese                    | mg/L   | 1.31    |        | 1.22    |        |        | 0.697   |        |        | 0.505     |        |        | 0.313   | 0.303   | 0.307   | 0.259   | 0.219   | 0.196   | 0.175   | 0.0772  | 0.161   | 0.163   | 0.150   | 0.145   | 0.134   | 0.122   | 0.111   | 0.120   | 0.105   | 0.0976  | 0.111   | 0.0906  |
| Mercury (dissolved)          | mg/L   | <0.0002 |        | <0.0002 |        |        | <0.0002 |        |        | <0.0002</ |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |