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DRC-2022-022209

October 21, 2022

Sent VIA OVERNIGHT DELIVERY

Mr. Doug Hansen
Director
Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
Salt Lake City, UT 84116

**Re: Transmittal of 3rd Quarter 2022 Groundwater Monitoring Report
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill**

Dear Mr. Hansen:

Enclosed are two copies of the White Mesa Uranium Mill Groundwater Monitoring Report for the 3rd Quarter of 2022 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs each containing a word searchable electronic copy of the report.

If you should have any questions regarding this report please contact me.

Yours very truly,

A handwritten signature in blue ink that reads 'Kathy Weinel'.

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Director, Regulatory Compliance

cc: David Frydenlund
Scott Bakken
Logan Shumway
Garrin Palmer
Jordan App

White Mesa Uranium Mill
Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

3rd Quarter
(July through September)
2022

Prepared by:



Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
Lakewood, CO 80228

October 21, 2022

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ACRONYM LIST

AWAL	American West Analytical Laboratory
COC	Chain-of-Custody
DWMRC	Utah Division of Waste Management and Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
GEL	GEL Laboratories, Inc.
GWCLs	Groundwater Compliance Limits
GWDP	Groundwater Discharge Permit
LCS	Laboratory Control Spike
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QAP	Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
SOPs	Standard Operating Procedures
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

This is the Routine Groundwater Monitoring Report, as required under Part I.F.1 of State of Utah Groundwater Discharge Permit No. UGW370004 (the “GWDP”) for the third quarter of 2022 for Energy Fuels Resources (USA) Inc’s. (“EFRI’s”) White Mesa Uranium Mill (the “Mill”). As required under Parts I.E.1, I.E.2, I.E.3, and I.E.5 of the GWDP, this Report includes recorded field measurements and laboratory analyses for well monitoring conducted during the quarter.

2.0 GROUNDWATER MONITORING

2.1 Samples and Measurements Taken During the Quarter

A map showing the location of groundwater monitoring wells, piezometers, existing wells, chloroform contaminant investigation wells and nitrate contaminant investigation wells is attached under Tab A. Groundwater samples and measurements were taken during this reporting period, as discussed in the remainder of this section.

2.1.1 Groundwater Compliance Monitoring

Groundwater samples and field measurements collected during the quarter included both quarterly and accelerated monitoring. Accelerated monitoring is discussed below in Section 2.1.2. In this report, samples classified as being collected quarterly include those wells which are routinely sampled every quarter as well as semi-annual wells which are sampled on an accelerated quarterly schedule due to exceedances reported in previous quarterly reports. Wells which are sampled routinely every quarter were analyzed for the parameters listed in Table 2 and Part I.E.1.d) 2)ii of the GWDP dated March 8, 2021. The semi-annual wells which have been accelerated to quarterly are analyzed only for those parameters which exceeded the Groundwater Compliance Limits (“GWCLs”) in Table 2 described in previous reports and Exceedance Notices.

Table 1 of this report provides an overview of wells sampled during the current period, along with the required sampling frequency applicable to each well during the current monitoring period, the date samples were collected from each well, and the date(s) analytical data were received from the contract laboratory(ies). Table 1 also indicates which sample numbers are associated with the required duplicates.

During this quarter, one well was resampled. MW-24 was resampled for Gross Alpha minus radon and uranium (“gross alpha”) because of laboratory issues. MW-24 was resampled for gross alpha on July 28, 2022.

2.1.2 Accelerated Groundwater Monitoring

Accelerated monthly sampling was also performed (quarterly wells accelerated to monthly), and results reported, for the wells indicated in Table 1. The accelerated

sampling frequency, analyte list and well list were determined based on the previous analytical results as shown in Table 2 and previous Exceedance Notices.

As a result of the issuance of a revised GWDP on March 8, 2021, which sets revised GWCLs, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on March 8, 2021, and the effect of the issuance of the revised GWDP was to create a “clean slate” for constituents in some wells going forward. The GWCLs for some constituents were not “reset” and continued on an accelerated sampling frequency as shown on Table 2.

Table 1 provides an overview of the wells sampled for the accelerated monthly program along with the routine sampling frequency as well as the accelerated sampling frequency, the date samples were collected from each well, the associated duplicates and the date(s) which analytical data were received from the contract laboratory(ies).

2.1.3 Background Well Monitoring

Monitor wells MW-38, MW-39, and MW-40 were installed in the first quarter 2018 pursuant to the GWDP Part 1.H.2 and quarterly sampling commenced in fourth quarter 2018. The GWDP Part 1.H.3 requires the completion of a background report for each of these wells after the completion of 8 quarters of sampling. The background reports and resultant Groundwater Compliance Limits (“GWCLs”) were calculated based on eight statistically valid data points.

The background report for wells MW-38, MW-39 and MW-40 was submitted to DWMRC on March 4, 2021. EFRI submitted errata pages by letter dated June 7, 2021 based on the DWMRC review comments. The Background Report for MW-38, MW-39 and MW-40 was approved by DWMRC by letter dated June 16, 2021. MW-38, MW-39 and MW-40 will continue to be sampled on a quarterly basis until such time as these wells are included in the GWDP.

The analytical results for MW-38, MW-39, and MW-40 for this period are included in Tab E.

2.1.4 Parameters Analyzed

Routine quarterly groundwater monitoring samples were analyzed for the parameters listed in Table 2 and Part I.E.1.d) 2) ii of the GWDP. The accelerated monitoring samples were analyzed for a more limited and specific parameter list as shown in Table 2.

2.1.5 Groundwater Head Monitoring

Depth to groundwater was measured in the following wells and/or piezometers, pursuant to Part I.E.3 of the GWDP:

- The groundwater monitoring wells (including general monitoring wells, quarterly and semi-annual monitoring wells, and (MW-34).
- Existing monitoring well MW-4 and the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3A, P-4 and P-5.
- Nitrate monitoring wells.
- The DR piezometers which were installed during the Southwest Hydrogeologic Investigation.
- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

Water levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement dates in the summary sheet under Tab D.

2.2 Field Data

Attached under Tab B are copies of field data sheets recorded in association with the quarterly effort for the groundwater compliance monitoring wells referred to in paragraph 2.1.1, above. Sampling dates are listed in Table 1.

Attached under Tab C, are copies of field data sheets recorded in association with the accelerated monthly monitoring sampling efforts, referred to in paragraph 2.1.2, above. Sampling dates are listed in Table 1.

2.3 Laboratory Results - Quarterly Sampling

2.3.1 Copy of Laboratory Results

Analytical results are provided by two contract analytical laboratories: GEL and Chemtech-Ford (“CTF”).

Table 1 lists the dates when analytical results were reported to the Director, Regulatory Compliance for each well.

Results from analysis of samples collected under the GWDP (i.e., regular quarterly and accelerated semi-annual samples) are provided in Tab E. Also included under Tab E are the results of analyses for duplicate samples as identified in Table 1.

2.3.2 Regulatory Framework and Groundwater Background

Under the GWDP, background groundwater quality has been determined on a well-by-well basis, as defined by the DWMRC-approved flowchart included in the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*. GWCLs that reflect this background groundwater quality have been set for compliance monitoring wells except MW-38, MW-39, and MW-40. As discussed in Section 2.1.3 above, EFRI submitted the background report for MW-38, MW-39, and MW-40 March 4, 2021.

Exceedances of the GWCLs during the preceding quarter determined the accelerated monthly monitoring program implemented during this quarter as noted in Tables 1 and 2 as modified under the renewed GWDP.

As a result of the issuance of the GWDP on March 8, 2021, which sets revised GWCLs, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on March 8, 2021, and the effect of the issuance of the revised GWDP was to create a “clean slate” for constituents in some wells going forward. The GWCLs for some constituents were not ‘reset’ and continued on an accelerated sampling frequency as shown on Table 2.

Exceedances of the GWCLs for this quarter are listed in Table 2 for sampling required under the GWDP. Accelerated requirements resulting from this quarter are highlighted for ease of reference. Table 3 documents the accelerated sampling program since the issuance of the March 8, 2021 GWDP.

It should be noted, however, that, because the GWCLs have been set at the mean plus second standard deviation, or the equivalent, un-impacted groundwater would normally be expected to exceed the GWCLs approximately 2.5% of the time. Therefore, exceedances are expected in approximately 2.5% of sample results, and do not necessarily represent impacts to groundwater from Mill operations. In fact, more frequent sampling of a given analyte will increase the number of exceedances due to statistical variation and not due to Mill activity. Additionally, given the slow velocity of groundwater movement, accelerated sampling monthly may result in resampling of the same water and may lead to repeat exceedances for accelerated constituents not due to Mill activities, but due to repeat sampling of the same water.

2.4 Laboratory Results – Accelerated Monitoring

2.4.1 Copy of Laboratory Results

Results from analysis of samples collected for the monthly accelerated sampling (i.e. quarterly accelerated to monthly) are provided in Tab F. Also included under Tab F are the results of analyses for duplicate samples for this sampling effort, as identified in Table 1.

2.4.2 Regulatory Framework and Groundwater Background

As a result of the issuance of a revised GWDP on March 8, 2021, which sets revised GWCLs for some constituents, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP for certain constituents ceased effective March 8, 2021, and the effect of the issuance of the revised GWDP was to create a “clean slate” for certain constituents in a limited list of wells going forward.

This means that accelerated monitoring during this quarter was required under the GWDP for only those constituents that exceeded the GWCLs since March 8, 2021.

2.4.3 Compliance Status

Analytes that have exceeded the GWCLs for this quarter as set forth in the GWDP are summarized in Table 2. The analytes which exceeded their respective GWCLs during the quarter will be sampled on an accelerated schedule as noted in Table 2. Table 3 summarizes the results of the accelerated sampling program since the March 8, 2021 GWDP for the reasons stated in Section 2.3.2 above.

Part I.G.4 c) of the GWDP states, with respect to exceedances of GWCLs, “The Permittee shall prepare and submit within 30 calendar days to the Director a plan and a time schedule for assessment of the sources, extent and potential dispersion of the contamination, and an evaluation of potential remedial action to restore and maintain groundwater quality to insure that Permit limits will not be exceeded at the compliance monitoring point and that DMT or BAT will be reestablished.” EFRI submits an Exceedance Notice quarterly and the summary in the Exceedance Notice includes, for each exceedance, a brief discussion of whether such a plan and schedule is required at this time in light of other actions currently being undertaken by EFRI. The determination of whether a Plan and Time Schedule is required is based on discussions with DWMRC Staff in teleconferences on April 27 and May 2, 2011 and the constituents covered by previously submitted Source Assessment Reports.

2.5 Depth to Groundwater and Water Table Contour Map

As stated above, a listing of groundwater level readings for the quarter (shown as depth to groundwater in feet) is included under Tab D. The data from Tab D has been interpreted (kriged) and plotted in a water table contour map, provided under Tab H.

The water table contour map provides the location and identity of the wells and piezometers for which depth to groundwater is recorded. The groundwater elevation at each well and piezometer, measured in feet above mean sea level, and isocontour lines to delineate groundwater flow directions observed during the quarter’s sampling event are displayed on the map.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The Mill Director, Regulatory Compliance performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Groundwater Monitoring Quality Assurance Plan (“QAP”). As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and quality control review of laboratory data methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures (“SOPs”) is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

The Analytical Laboratories have provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference certification and reporting protocol. The analytical laboratory QA/QC Summary Reports, including copies of the Mill’s COC and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tabs E and F. Review of the laboratory QA/QC information is provided under Tab G.

3.1 Field QC Samples

The following field QC samples were generated by Mill personnel and submitted to the analytical laboratory in order to assess the quality of data resulting from the field sampling program:

One duplicate sample was collected during quarterly sampling as indicated in Table 1. The QC samples were sent blind to the analytical laboratory and analyzed for the same parameters as permit-required samples.

One duplicate sample was collected during each of the monthly sampling events as indicated in Table 1. The QC samples were sent blind to the analytical laboratory and analyzed for the same accelerated parameters as the parent sample.

Two trip blanks were provided by CTF and returned and analyzed with the quarterly monitoring samples.

One trip blank for each of the monthly accelerated sample events was provided by CTF and returned and analyzed with the accelerated monthly monitoring samples.

Rinsate samples were not collected during the quarter because equipment used during sample collection was dedicated and did not require decontamination. All wells except MW-20, MW-37 and MW-38 have dedicated pumps for purging and sampling and as such no rinsate blanks samples are required. MW-20, MW-37 and MW-38 were purged and sampled with a disposable bailer and no rinsate blank was required. A deionized

field blank was not required because equipment decontamination was not required and deionized water was not used during this sampling event.

3.2 Adherence to Mill Sampling SOPs

On a review of adherence by Mill personnel to the existing sampling SOPs, the Director, Regulatory Compliance observed that QA/QC requirements established in the QAP were met and that the SOP's were implemented as required.

3.3 Analyte Completeness Review

Analyses required by the GWDP for the quarterly and semi-annual wells were performed. The accelerated sampling for the semi-annual wells (semi-annual to quarterly) was completed as required by the GWDP and as shown in Tables 2 and 3. The accelerated quarterly sampling (quarterly to monthly) required for this quarter, as shown in Tables 2 and 3, was performed as required.

The monthly accelerated sampling program shown on Tables 2 and 3 is required as a result of exceedances in quarterly well monitoring results reported in previous quarters.

3.4 Data Validation

The QAP and GWDP identify the data validation steps and data quality control checks required for the groundwater monitoring program. Consistent with these requirements, the Director, Regulatory Compliance completed the following evaluations: a field data QA/QC evaluation, a receipt temperature check, a holding time check, an analytical method check, a reporting limit check, a trip blank check, a QA/QC evaluation of routine sample duplicates, a QA/QC evaluation of accelerated sample duplicates, a gross alpha counting error evaluation and a review of each laboratory's reported QA/QC information. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab G.

3.4.1 Field Data QA/QC Evaluation

The Director, Regulatory Compliance performs a review of field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and the stability of the following field parameters (based upon the purging method chosen): specific conductance, pH, temperature, redox potential, dissolved oxygen ("DO") and turbidity. Stability of field parameters and well sampling techniques are dependent on the purging technique employed. Review of the Depth to Water data confirms that depth measurements were conducted within a five-day period. The results of this quarter's review are provided in Tab G.

There are three purging strategies specified in the QAP that are used to remove stagnant water from the casing during groundwater sampling at the Mill. The three strategies are as follows:

1. Purging three well casing volumes with a single measurement of field parameters
2. Purging two casing volumes with stable field parameters (within 10% [Relative Percent Difference] (“RPD”))
3. Purging a well to dryness and stability (within 10% RPD) of a limited list of field parameters after recovery

During both the quarterly sampling event and the two monthly events, the purging technique used was two casing volumes with stable field parameters (pH, Conductivity, Redox, temperature, DO, and turbidity) except for the following wells that were purged to dryness: MW-24, MW-24A and MW-38.

MW-24, MW-24A, and MW-38 conformed to the QAP requirement for sampling low yield wells which includes the collection of three field parameters (pH, specific conductance [“conductivity”] and temperature) immediately prior to and immediately following sample collection. Stabilization of pH, conductivity and temperature were within the 10% RPD required by the QAP. MW-24, MW-24A, and MW-38 were purged to dryness and the low yield sampling procedures were used for the collection of field parameters. Stabilization of pH, conductivity and temperature were within the 10% RPD required by the QAP for well MW-24, MW-24A, and MW-38.

Additionally, two casing volumes were not purged from MW-26, prior to sampling because MW-26 is a continuously pumped well. If a well is continuously pumped, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample; however, if a pumping well has been out of service for 48 hours or more, EFRI follows the purging requirements outlined in Attachment 2-3 of the QAP.

The review of the field sheets for compliance with QAP requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least two consecutive measurements. The QAP Attachment 2-3 states that turbidity should be less than 5 NTU prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP Attachment 2-3 does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements greater than 5 NTU below are included for information purposes only.

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-11, MW-29, and MW-32. Per the QAP, Attachment 2-3, turbidity measurements prior to sampling were within a 10% RPD for the quarterly and semi-annual wells.

- Turbidity measurements were less than 5 NTU for the accelerated sampling wells except MW-11. Per the QAP, Attachment 2-3, turbidity measurements prior to sampling were within a 10% RPD for the quarterly and semi-annual wells. Turbidity measurements prior to sampling were within a 10% RPD for the accelerated sampling wells.

The other field parameters (conductance, pH, redox potential, DO, and temperature) for the wells were within the required RPD for the quarterly, semi-annual and accelerated sampling.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water for the quarterly, semi-annual and accelerated sampling programs to the nearest 0.01 foot.

EFRI's letter to DWMRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DWMRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI has completed a monitoring well redevelopment program. The redevelopment report was submitted to DWMRC on September 30, 2011. DWMRC responded to the redevelopment report via letter on November 15, 2012. Per the DWMRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

3.4.2 Holding Time Evaluation

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided under Tab G. The samples were received and analyzed within the required holding time.

All accelerated samples were received and analyzed within the required holding time.

3.4.3 Receipt Temperature Evaluation

COC sheets were reviewed to confirm compliance with the QAP requirement in Table 1 that samples be received at 6°C or lower. Sample receipt temperature checks are provided under Tab G. The quarterly, semi-annual and accelerated samples were received within the required temperature limit.

As noted in Tab G, samples for gross alpha analyses were shipped without using ice. Per Table 1 in the approved QAP, samples submitted for gross alpha analyses do not have a sample temperature requirement.

3.4.4 Analytical Method Checklist

The analytical methods reported by both laboratories were checked against the required methods specified in the QAP. Analytical method check results are provided in Tab G.

The review indicated that the quarterly, semi-annual and accelerated samples were analyzed in accordance with Table 1 of the QAP.

3.4.5 Reporting Limit Evaluation

The analytical method RLs reported by both laboratories were checked against the RLs specified in the QAP Table 1. RL evaluations are provided in Tab G. The analytes were measured and reported to the required RLs except that several sets of quarterly, semi-annual and accelerated sample results had the RL raised for at least one analyte due to matrix interference and/or sample dilution as noted in Section 3.4.9. In all cases the reported value for the analyte was higher than the increased RL.

3.4.6 Trip Blank Evaluation

The trip blank results were reviewed to identify any VOC sample contamination which is the result of sample handling and shipment. Trip blank evaluations are provided in Tab G. The trip blank results associated with the quarterly, semi-annual and accelerated samples were all nondetect for VOCs.

3.4.7 QA/QC Evaluation for Routine Sample Duplicates

Section 9.1.4 a) of the QAP states that RPDs will be calculated for the comparison of duplicate and original field samples. The QAP acceptance limits for RPDs between the duplicate and original field sample is less than or equal to 20% unless the measured results are less than 5 times the detection limit. This standard is based on the EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994, 9240.1-05-01 as cited in the QAP. The RPDs are calculated for the duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data will be considered noncompliant only when the results are greater than 5 times the required detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

Field duplicate sample results were assessed as required by the QAP. Duplicate results were within the acceptance limits specified in the QAP except for fluoride in MW-38/MW-65. The fluoride results were not greater than 5 times the RL and as such are acceptable. Field duplicate results are shown in Attachment G.

The duplicate results were within a 20% RPD in the accelerated samples. Results of the RPD test are provided under Tab G.

3.4.8 Radiologics Counting Error and Duplicate Evaluation

Section 9.14 of the QAP requires that when gross alpha results are reported with an activity equal to or greater than the GWCL the counting variance shall be equal to or less than 20% of the reported activity concentration. An error term may be greater than 20%

of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL. The quarterly and semi-annual radiologic sample results met the counting error requirements specified in the QAP except as noted in Tab G. The results for MW-26, MW-31, and MW-39 did not meet the requirement that the counting error be equal to or less than 20% of the reported activity concentration, likely because the reported concentrations are very near the RL. As stated above the error term may be greater than 20% of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL; however MW-39 does not have a GWCL and this second level check cannot be performed. MW-26 and MW-31 passed the secondary check. The results are usable for the intended purpose and there is no adverse effect on the data.

Section 9.4 of the QAP also requires a comparability check between the sample and field duplicate sample results utilizing the formula provided in the text.

Results of quarterly and semi-annual, radiologic sample QC are provided under Tab G. The quarterly and semi-annual sample results met the duplicate counting error requirements specified in the QAP.

3.4.9 Other Laboratory QA/QC

Section 9.2 of the QAP requires that the laboratory's QA/QC Manager check the following items in developing data reports: (1) sample preparation information is correct and complete, (2) analysis information is correct and complete, (3) appropriate analytical laboratory procedures are followed, (4) analytical results are correct and complete, (5) QC samples are within established control limits, (6) blanks are within QC limits, (7) special sample preparation and analytical requirements have been met, and (8) documentation is complete. In addition to other laboratory checks described above, EFRI's Director, Regulatory Compliance rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided under Tab G. The lab QA/QC results from both GEL and CTF samples for compounds regulated under the GWDP met these requirements.

The check samples included at least the following: a method blank, a laboratory control spike ("LCS"), a matrix spike ("MS") and a matrix spike duplicate ("MSD"), or the equivalent, where applicable. It should be noted that:

- Laboratory fortified blanks are equivalent to LCSs.
- Laboratory reagent blanks are equivalent to method blanks.
- Post digestion spikes are equivalent to MSs.
- Post digestion spike duplicates are equivalent to MSDs.
- Laboratory Duplicates are equivalent to MSDs.

The qualifiers, and the corresponding explanations reported in the QA/QC Summary Reports for the check samples for the analytical methods were reviewed by the QA Manager.

The QAP, Section 8.1.2 requires that a MS/MSD pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on EFRI samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the requirements in the QAP to analyze a MS/MSD pair with each analytical batch was met. While the QAP does not require it, the recoveries were reviewed for compliance with the laboratory established acceptance limits. The QAP does not require this level of review and the results of this review are provided for information only.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the quarterly and semi-annual samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab G. The data recoveries and RPDs which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above or below the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the accelerated samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab G. The data recoveries and RPDs which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above or below the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The QAP specifies that surrogate compounds shall be employed for all organic analyses but the QAP does not specify acceptance limits for surrogate recoveries. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for the quarterly and accelerated samples were within acceptable laboratory limits for the surrogate compounds.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for the quarterly samples were within acceptable laboratory limits for the LCS compounds except as noted in Tab G. The LCS recovery for acetone, chloromethane and iron was above the upper acceptance limit (i.e. high recovery). The acetone and chloromethane LCS recoveries affected samples MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-39, MW-40, and the trip blank. The iron LCS recovery

affected samples MW-12, MW-24, MW-24A, MW-27, MW-28, MW-29, MW-32, MW-38, and MW-65 (the duplicate of MW-38). The data were flagged in accordance with EPA Methods. The flagging requirements do not adversely affect the data. The data are usable for the intended purpose because the high LCS recovery is indicative of a high bias to the sample results. A high bias results in a more conservative data application. EFRI does not believe the data quality has been affected.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for the accelerated samples were within acceptable laboratory limits for the LCS compounds as noted in Tab G.

The QAP, Section 8.1.2 requires that each analytical batch shall be accompanied by a method blank. The analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank was prepared for the analytical methods. Per the approved QAP, contamination detected in analysis of method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP states that non-conformance conditions will exist when contaminant levels in the samples(s) are not an order of magnitude greater than the blank result. All method blanks for both the quarterly and accelerated samples were nondetect.

Method blank results are included in Tab E and Tab F.

Laboratory duplicates are completed by the analytical laboratories as required by the analytical method specifications. Acceptance limits for laboratory duplicates are set by the laboratories. The QAP does not require the completion of laboratory duplicates or the completion of a QA assessment of them. EFRI reviews the QC data provided by the laboratories for completeness and to assess the overall quality of the data provided. During the review, it was noted that recovery for one laboratory duplicate for carbonate as CaCO_3 could not be calculated due to the concentration in the sample. There is no affect on the usability on the date due to the inability to calculate a duplicate value as other laboratory QC recoveries and data are acceptable.

4.0 CORRECTIVE ACTION REPORT

There are no corrective actions required during the current monitoring period.

4.1 Assessment of Corrective Actions from Previous Period

No corrective actions were identified in the previous report.

5.0 TIME CONCENTRATION PLOTS

Time concentration plots for each monitoring well for the following constituents: chloride, fluoride, sulfate, and uranium, are included under Tab I. The data points collected to date are reflected on the plots.

Time concentration plots included with quarterly groundwater reports prior to and including first quarter 2012 did not include data that were determined to be outliers using the statistical methods used for the background determinations at the Mill. Based on conversations with DWMRC, all of the data have been included in the quarterly time concentration plots since first quarter 2012.

6.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Director electronic copies of the laboratory results from groundwater quality monitoring conducted during the quarter in Comma Separated Values format, from the analytical laboratories. A copy of the transmittal e-mail is included under Tab J.

7.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc.

Energy Fuels Resources (USA) Inc.

By:



Scott A. Bakken
Vice President, Regulatory Affairs



Date

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Scott A. Bakken
Vice President, Regulatory Affairs
Energy Fuels Resources (USA) Inc.

Tables

Table 1: Summary of Well Sampling for Q1 2022

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-11	Quarterly	Quarterly	7/12/2022	(8/11/22) [8/22/22]
MW-12	Semi-annually	Semi-annually	7/14/2022	(8/12/22)
MW-14	Quarterly	Quarterly	7/13/2022	(8/11/22) [8/22/22]
MW-24	Semi-annually	Semi-annually	7/20/2022	(8/12/22)
MW-24 Resample	Semi-annually	Semi-annually	7/28/2022	[8/25/22]
MW-24A	Semi-annually	Semi-annually	7/19/2022	(8/12/22) [8/22/22]
MW-25	Quarterly	Quarterly	7/13/2022	(8/11/22) [8/22/22]
MW-26	Quarterly	Quarterly	7/14/2022	(8/11/22) [8/22/22]
MW-27	Semi-annually	Semi-annually	7/15/2022	(8/12/22)
MW-28	Semi-annually	Semi-annually	7/15/2022	(8/12/22)
MW-29	Semi-annually	Semi-annually	7/14/2022	(8/12/22)
MW-30	Quarterly	Quarterly	7/13/2022	(8/11/22) [8/22/22]
MW-31	Quarterly	Quarterly	7/12/2022	(8/11/22) [8/22/22]
MW-32	Semi-annually	Semi-annually	7/15/2022	(8/12/22)
MW-36	Quarterly	Quarterly	7/13/2022	(8/11/22) [8/22/22]
MW-38	Quarterly	Background	7/20/2022	(8/12/22) [8/22/22]
MW-39	Quarterly	Background	7/14/2022	(8/11/22) [8/22/22]
MW-40	Quarterly	Background	7/14/2022	(8/11/22) [8/22/22]
MW-65	1 per Batch	Duplicate of MW-38	7/20/2022	(8/12/22) [8/22/22]
Accelerated August Monthly				
MW-11	Monthly	Accelerated	8/8/2022	(9/1/22)
MW-25	Monthly	Accelerated	8/9/2022	(9/1/22)
MW-26	Monthly	Accelerated	8/9/2022	(9/1/22)
MW-30	Monthly	Accelerated	8/9/2022	(9/1/22)
MW-31	Monthly	Accelerated	8/8/2022	(9/1/22)
MW-65	Monthly	Duplicate of MW-30	8/9/2022	(9/1/22)
Accelerated September Monthly				
MW-11	Monthly	Accelerated	9/21/2022	(10/6/22)
MW-25	Monthly	Accelerated	9/20/2022	(10/6/22)
MW-26	Monthly	Accelerated	9/20/2022	(10/6/22)
MW-30	Monthly	Accelerated	9/20/2022	(10/6/22)
MW-31	Monthly	Accelerated	9/20/2022	(10/6/22)
MW-65	1 per Batch	Duplicate of MW-25	9/20/2022	(10/6/22)

Notes:
 When more than 1 date is shown for a certain laboratory, the date(s) in italics are the resubmission dates. Resubmissions were required to correct reporting errors or to address reanalyses.
 Date in parenthesis depicts the date that data were reported from Chemtech-Ford (CTF).
 Date in brackets depicts the date the data were reported from GEL Laboratories.

**Table 2
Exceedances and Acceleration Requirements**

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Routine Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
Quarterly Wells Accelerated to Monthly Sampling							
MW-11 (Class II)	Total Dissolved Solids (mg/L)	2528	2680	Quarterly	Monthly	Q3 2021	November 2021
	Manganese (ug/L)	237	376	Quarterly	Monthly	Q3 2021	November 2021
	Nitrate + Nitrite (as N) (mg/L)	2.5	2.55	Quarterly	Monthly	Q1 2022	June 2022
	Chloride (mg/L)	39.16	48.4	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Sulfate (mg/L)	1309	1410	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
MW-25 (Class III)	Total Dissolved Solids (mg/L)	2976	3100	Quarterly	Monthly	Q3 2021	November 2021
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1.3	Quarterly	Monthly	Q1 2010	May 2010
	Chloroform (ug/L)	70	700	Quarterly	Monthly	Q1 2010	May 2010
	Total Dissolved Solids (mg/L)	3284.19	3390	Quarterly	Monthly	Q3 2021	November 2021
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Carbon Tetrachloride (ug/L)	5	26.1	Quarterly	Monthly	Q1 2021	Q2 2021
	Methylene Chloride (ug/L)	5	6.59	Quarterly	Monthly	Q3 2020	August 2020
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	16.1	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	128	134	Quarterly	Monthly	Q1 2011	May 2011
	Total Dissolved Solids (mg/L)	1918	2010	Quarterly	Monthly	Q3 2021	November 2021
	Selenium (ug/L)	53.6	56.3	Quarterly	Monthly	Q1 2021	Q2 2021
	Uranium (ug/L)	9.82	10.2	Quarterly	Monthly	Q1 2021	Q2 2021
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	21.7	Quarterly	Monthly	Q1 2010	May 2010
	Total Dissolved Solids (mg/L)	2132	2580	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Uranium (ug/L)	15	15.5	Quarterly	Monthly	Q2 2020	August 2020
	Sulfate (mg/L)	993	1150	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
Semi-Annual Wells Accelerated to Quarterly Sampling							
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
MW-12 (Class III)	Uranium (ug/L)	23.5	23.7	Semi-Annually	Quarterly	Q2 2017	Q3 2017
	Selenium (ug/L)	39	41.2	Semi-Annually	Quarterly	Q2 2020	Q3 2020
MW-24 (Class III)	Cadmium (ug/L)	6.43	6.97	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Beryllium (ug/L)	2	2.42	Semi-Annually	Quarterly	Q4 2017	Q1 2018
	Thallium (ug/L)	2.01	2.44	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Nickel (ug/L)	50	57.7	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	Sulfate (mg/L)	2903	2960	Semi-Annually	Quarterly	Q1 2020	Q3 2020
	Manganese (ug/L)	7507	7700	Semi-Annually	Quarterly	Q4 2019	Q1 2020
	Fluoride (mg/L)	0.47	0.797	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	Gross Alpha (pCi/L)	7.5	9.03	Semi-Annually	Quarterly	Q4 2020	Q3 2021
	TDS (mg/L)	4450	4460	Semi-Annually	Quarterly	Q2 2021	Q3 2021
Field pH (S.U.)	5.03	4.45	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.85	0.90	Semi-Annually	Quarterly	Q2 2022	Q3 2022
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	5	5.14	Semi-Annually	Quarterly	Q4 2019	Q3 2020
	Selenium (ug/L)	11.1	12.4	Semi-Annually	Quarterly	Q2 2019	Q3 2019
	Cadmium (ug/L)	5.2	5.41	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Uranium (ug/L)	4.9	61.3	Semi-Annually	Quarterly	Q2 2014	Q4 2014
MW-29 (Class III)	Uranium (ug/L)	15	15.3	Semi-Annually	Quarterly	Q4 2020	Q3 2021
MW-32 (Class III)	Chloride (mg/L)	35.99	36.3	Semi-Annually	Quarterly	Q2 2014 (Q1 2015)	Q2 2014

Table 3 – GWCL Exceedances under the March 8, 2021 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in March 8, 2021 GWDP	Q1 2022 Results						Q2 2022 Results						Q3 2022 Results					
			Q1 2022 Sample Date	Q1 2022 Result	February 2022 Monthly Sample Date	February 2022 Monthly Result	March 2022 Monthly Sample Date	March 2022 Monthly Result	Q2 2022 Sample Date	Q2 2022 Result	May 2022 Monthly Sample Date	May 2022 Monthly Result	June 2022 Monthly Sample Date	June 2022 Monthly Result	Q3 2022 Sample Date	Q3 2022 Result	August 2022 Monthly Sample Date	August 2022 Monthly Result	September 2022 Monthly Sample Date	September 2022 Monthly Result
			Required Quarterly Sampling Wells						Required Quarterly Sampling Wells						Required Quarterly Sampling Wells					
MW-11 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/18/22	2.55	2/8/22	NA	3/8/22	NA	4/18/22	2.2	5/4/22	1.6	6/6/22	1.9	7/12/22	2.12	8/8/22	2.45	9/21/22	2.65
	Chloride (mg/L)	39.16		51.1		57.2		67.7		54.9		59.5		46.4		54.0		67.4		68.1
	Manganese (ug/L)	237		156		233		224		180		254		228		297		201		212
	Sulfate (mg/L)	1309		1020		1240		1170		1240		1270		866		1390		1260		1300
	TDS (mg/L)	2528		2050		1900		2080		2060		2290		2360		2520		3230		2280
MW-25 (Class III)	TDS (mg/L)	2976	1/17/22	2720	2/9/2022	2690	3/7/2022	2610	4/12/22	3600	5/3/2022	2660	6/7/2022	2730	7/13/22	2830	8/9/2022	2780	9/20/2022	2750
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/20/22	0.601	2/9/22	0.367	3/8/22	0.600	4/20/22	0.8	5/4/22	1.1	6/7/22	0.60	7/14/22	1.63	8/9/22	1.56	9/20/22	0.491
	Chloroform (ug/L)	70		818		1580		1460		447		616		1250		<1.0		1120		810
	Chloride (mg/L)	58.31		77.1		58.6		64.1		56.8		63.2		47.4		61.0		65.0		62.1
	TDS (mg/L)	3284.19		3080		2980		2870		2560		2860		3120		3140		3120		NA
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/17/22	14.5	2/9/22	13.6	3/7/22	16.6	4/20/22	17	5/4/22	15	6/7/22	11.0	7/13/22	17.6	8/9/22	13.5	9/20/22	16.5
	Chloride (mg/L)	128		181		184		196		173		195		126		108		185		182
	Selenium (ug/L)	53.6		56.7		57.7		62.0		64.9		69.4		65.7		61.1		64.3		70.0
	TDS (mg/L)	1918		1680		1640		1500		1400		1640		1660		1710		1580		NA
	Uranium (ug/L)	9.82		10.1		10.3		9.9		9.6		10.1		9.6		10.0		10.1		8.3
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/19/22	18.0	2/8/22	13.5	3/7/22	17.0	4/11/22	18.0	5/3/22	13.0	6/6/22	13.0	7/12/22	16.9	8/8/22	16.8	9/20/22	17.1
	Sulfate (mg/L)	993		1210		1250		731		1180		1220		1110		1260		1230		1200
	TDS (mg/L)	2132		2620		2680		2530		4300		2660		2690		2700		2700		2830
	Uranium (ug/L)	15		21.7		22.1		22.5		22.0		22.9		21.5		22.6		22.7		18.8
	Chloride (mg/L)	143		370		379		416		372		381		351		421		396		390
			Required Semiannual Sampling Wells						Required Semiannual Sampling Wells						Required Semiannual Sampling Wells					
MW-12 (Class III)	Uranium (ug/L)	23.5	1/20/22	22.1	NS	NA	NS	NA	4/19/22	20.5	NS	NA	NS	NA	7/14/22	21.6	NS	NA	NS	NA
	Selenium (ug/L)	39		25.6		NA		31.3		NA		29.2		NA		NA				
MW-24 (Class III)	Beryllium (ug/L)	2	1/27/22	2.71	NS	NA	NS	NA	4/27/22	2.5	NS	NA	NS	NA	7/20/22 7/28/22	2.7	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		8.46		NA		9.20		NA		8.6		NA		NA				
	Fluoride (mg/L)	0.47		1		NA		0.8		NA		0.760		NA		NA				
	Nickel (mg/L)	50		80.9		NA		74.3		NA		69.9		NA		NA				
	Manganese (ug/L)	7507		7630		NA		7070		NA		7540		NA		NA				
	Thallium (ug/L)	2.01		2.66		NA		3.1		NA		3.0		NA		NA				
	Gross Alpha (pCi/L)	7.5		2.26		NA		2.28		NA		2.55		NA		NA				
	Sulfate (mg/L)	2903		3060		NA		3120		NA		2800		NA		NA				
	TDS (mg/L)	4450		4140		NA		3350		NA		4200		NA		NA				
	Field pH (S.U.)	5.03 - 8.5		5.31		NA		4.81		NA		4.89		4.80		NA		NA		
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/18/22	6.25	NS	NA	NS	NA	4/12/22	6.30	NS	NA	NS	NA	7/15/22	5.18	NS	NA	NS	NA
	Fluoride (mg/L)	0.85		NA		0.90		NA		0.530		NA		NA						
MW-28 (Class III)	Chloride (mg/L)	105	1/20/22	140	NS	NA	NS	NA	4/19/22	130	NS	NA	NS	NA	7/15/22	159	NS	NA	NS	NA
	Selenium (ug/L)	11.1		13.3		NA		19.8		NA		20.8		NA		NA				
	Nitrate + Nitrite (as N) (mg/L)	5		4.03		NA		5.1		NA		5.16		NA		NA				
	Uranium (ug/L)	4.9		8.50		NA		10.10		NA		12.4		NA		NA				
MW-29 (Class III)	Uranium (ug/L)	15	1/18/22	15.1	NS	NA	NS	NA	4/14/22	15.7	NS	NA	NS	NA	7/14/22	15.1	NS	NA	NS	NA
MW-32 (Class III)	Chloride (mg/L)	35.39	1/19/22	35.0	NS	NA	NS	NA	4/11/22	28.6	NS	NA	NS	NA	7/15/22	28.2	NS	NA	NS	NA

Pursuant to the DWMRC letter of August 8, 2022, these constituents will no longer be monitored on an accelerated schedule. These constituents will be dropped from this report after this quarter.

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Tab C Field Data Worksheets Accelerated Monitoring

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G-7A/B	QA/QC Evaluation for Sample Duplicates
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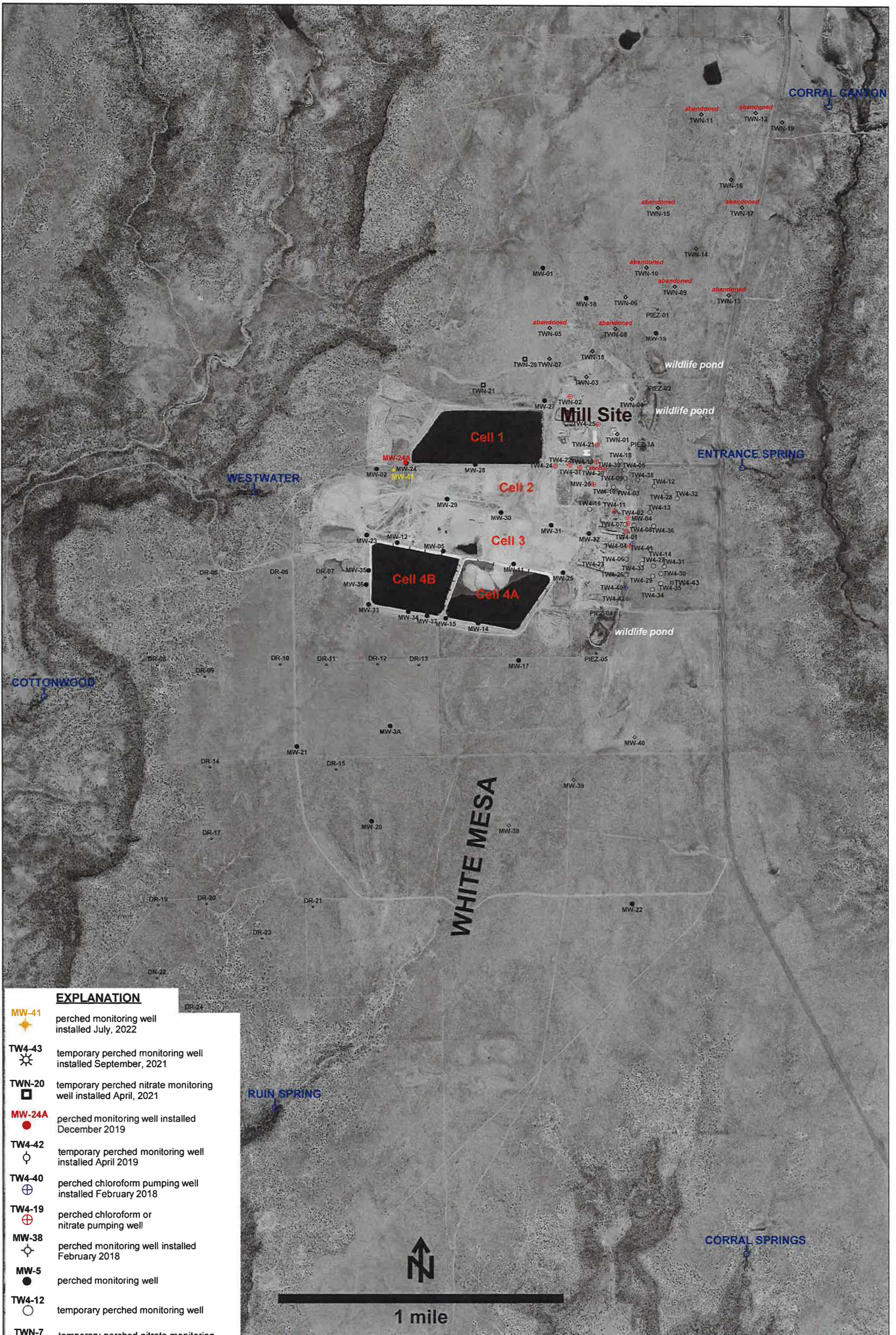
Tab H Kriged Current Quarterly Groundwater Contour Map

Tab I Groundwater Time Concentration Plots













Tab J CSV Transmittal Letter

Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

-  **MW-41** perched monitoring well installed July, 2022
-  **TW4-43** temporary perched monitoring well installed September, 2021
-  **TWN-20** temporary perched nitrate monitoring well installed April, 2021
-  **MW-24A** perched monitoring well installed December 2019
-  **TW4-42** temporary perched monitoring well installed April 2019
-  **TW4-40** perched chloroform pumping well installed February 2018
-  **TW4-19** perched chloroform or nitrate pumping well
-  **MW-38** perched monitoring well installed February 2018
-  **MW-5** perched monitoring well
-  **TW4-12** temporary perched monitoring well
-  **TWN-7** temporary perched nitrate monitoring well
-  **PIEZ-1** perched piezometer

RUIN SPRING
 seep or spring



**HYDRO
 GEO
 CHEM, INC.**

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may22/Uwelloc0922.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_07122022
Purge Date & Time	7/12/2022 6:50
Sample Date & Time	7/12/2022 11:20
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.18
Calculated Casing Volumes Purge Duration (min)	269.02
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	MW-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/12/2022 11:17	57.93	3181	7.55	15.15	356	98.0	4.3	
7/12/2022 11:18	58.15	3185	7.53	15.13	353	105.0	4.0	
7/12/2022 11:19	58.37	3190	7.53	15.12	350	107.0	4.0	
7/12/2022 11:20	58.59	3184	7.52	15.10	347	110.0	4.2	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	86.95
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Name of Certified Analytical Laboratory	AWSL
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 0647. Purge began at 0650. Purged well for a total 270 minutes. Purge ended and samples collected at 1120. Water was mostly clear with tiny little bubbles surfacing. Left site at 1130.

Signature of Field Technician

James H. Hickey

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	270.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-12
Field Sample ID	MW-12_07142022
Purge Date & Time	7/14/2022 10:30
Sample Date & Time	7/14/2022 12:40

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	13.60
Calculated Casing Volumes Purge Duration (min)	125.36
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	27
Previous Well Sampled	MW-29

Well Depth (ft)	130.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.57

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/14/2022 12:37	27.55	4140	6.90	15.67	250	0	30.0	
7/14/2022 12:38	27.77	4158	6.88	15.67	251	0	30.3	
7/14/2022 12:39	27.99	4165	6.87	15.72	252	0	31.0	
7/14/2022 12:40	28.21	4163	6.87	15.73	253	0	31.4	

Volume of water purged (gals)	28.21
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Final Depth to Water (feet)	122.37
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	130.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 1027. Purge began at 1030. Purged well for a total of 130 minutes. Purge ended and samples collected at 1240. Water was clear. Left site at 1242.
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Signature of Field Technician

Jessica Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_07132022
Purge Date & Time	7/13/2022 10:45
Sample Date & Time	7/13/2022 13:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.61
Calculated Casing Volumes Purge Duration (min)	162.37
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	MW-25

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	101.72

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/13/2022 13:42	38.40	3902	6.76	13.25	324	1.4	1.2	
7/13/2022 13:43	38.62	3906	6.74	15.40	324	1.4	1.1	
7/13/2022 13:44	38.84	3898	6.72	14.38	324	1.4	1.1	
7/13/2022 13:45	39.06	3894	6.72	15.30	324	1.5	1.1	

Volume of water purged (gals)	39.06
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Final Depth to Water (feet)	102.95
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	180.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 1042. Purge began at 1045. Purged well for a total of 180 minutes. Purge ended and samples collected at 1345. Water was clear. Left site at 1355.
--

Signature of Field Technician

Jessica H. Libby



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_07202022
Purge Date & Time	7/19/2022 7:15
Sample Date & Time	7/20/2022 8:10
Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	6.85
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	MW-24A

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.50

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/19/2022 7:23	5.00	4484	4.90	15.12	552	73.0	81.0	
7/20/2022 8:10		4475	4.88	16.50				Before
7/20/2022 8:14		4477	4.89	16.38				After

Volume of water purged (gals)	14.00
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Final Depth to Water (feet)	119.95
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Name of Certified Analytical Laboratory	
GEL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (gals)	14.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0711. Purge began at 0715. Bailed a total of 14 gallons from well. Bailed well dry. Water was dirty. Left site at 0739. Arrived on site at 0805. Depth to water was 109.55. Samples bailed and collected at 0810. Left site at 0815.

Signature of Field Technician

Denise Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_07282022
Purge Date & Time	7/27/2022 12:05
Sample Date & Time	7/28/2022 7:00

Sampling Program	
Sampling Event	2022 GW MW-24Resamp - Rev 1

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	6.94
Calculated Casing Volumes Purge Duration (min)	72.30
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	25
Previous Well Sampled	N/A

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.37

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/27/2022 13:20	14.40	3436	4.89	16.18	425	1.1	92.0	
7/28/2022 6:59		4476	4.78	16.20				Before
7/28/2022 7:03		4483	4.80	16.15				After

Volume of water purged (gals)	14.40
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Final Depth to Water (feet)	118.93
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.192
Time to evacuate 2 Casing Volumes (min)	75.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 1200. Purge began at 1205. Purged well for a total of 75 minutes. Purged well dry. Purge ended at 1320. Water was clear. Left site at 1323. Arrived on site at 0655. Depth to water was 109.37. Samples collected at 0700. Left site at 0704.

Signature of Field Technician

James H. Aldrey



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24A
Field Sample ID	MW-24A_07192022
Purge Date & Time	7/18/2022 12:00
Sample Date & Time	7/19/2022 7:00
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.45
Calculated Casing Volumes Purge Duration (min)	77.67
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	30
Previous Well Sampled	MW-28

Well Depth (ft)	122.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.58

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/18/2022 13:20	15.36	4353	4.98	15.36	425	3.6	97.2	
7/19/2022 7:00		4431	4.88	15.75				Before
7/19/2022 7:10		4446	4.90	15.70				After

Volume of water purged (gals)	15.36
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Final Depth to Water (feet)	120.03
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Name of Certified Analytical Laboratory	
GEL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.192
Time to evacuate 2 Casing Volumes (min)	80.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (gals)	15.36

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 1156. Purge began at 1200. Purged well for a total of 80 minutes. Purged well dry. Purge ended at 1320. Water was clear. Left site at 1321. Arrived on site at 0655. Depth to water was 110.58. Samples collected at 0700. Left site at 0711.

Signature of Field Technician

Summer Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_07132022
Purge Date & Time	7/13/2022 7:30
Sample Date & Time	7/13/2022 11:00
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.53
Calculated Casing Volumes Purge Duration (min)	198.48
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	MW-30

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.02

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/13/2022 10:57	44.91	3179	7.04	15.51	362	2.4	4.8	
7/13/2022 10:58	45.13	3181	7.00	15.31	362	2.0	4.6	
7/13/2022 10:59	45.35	3185	6.99	15.25	361	2.1	4.5	
7/13/2022 11:00	45.57	3190	6.98	15.16	361	2.0	4.6	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	84.67
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 0727. Purge began at 0730. Purged well for a total of 210 minutes. Purge ended and samples collected at 1100. Water was clear. Left site at 1110.

Signature of Field Technician

Darlene Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_07142022
Purge Date & Time	7/14/2022 8:00
Sample Date & Time	7/14/2022 8:00

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	29.28
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	MW-40

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.48

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/14/2022 7:59		3469	7.20	16.50	317	0	41.4	

Volume of water purged ()	
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Final Depth to Water (feet)	103.41
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 0755. Samples collected at 0800. Water was clear. Left site at 0807.

Signature of Field Technician

James H. Libby



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-27
Field Sample ID	MW-27_07152022
Purge Date & Time	7/15/2022 6:55
Sample Date & Time	7/15/2022 10:45

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.73
Calculated Casing Volumes Purge Duration (min)	218.70
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	21
Previous Well Sampled	MW-12

Well Depth (ft)	95.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	58.66

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/15/2022 10:42	49.25	1211	7.70	15.90	316	0	96.0	
7/15/2022 10:43	49.47	1212	7.69	15.92	315	0	97.0	
7/15/2022 10:44	49.69	1220	7.69	15.70	314	0	97.0	
7/15/2022 10:45	49.91	1202	7.69	15.67	314	0	97.3	

Volume of water purged (gals)	49.91
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Final Depth to Water (feet)	60.27
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	230.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (l)	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Fluoride	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 0650. Purge began at 0655. Purged well for a total of 230 minutes. Purge ended and samples collected at 1045. Water was clear. Left site at 1048.
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Signature of Field Technician

Junner Hilliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-28
Field Sample ID	MW-28_07152022
Purge Date & Time	7/15/2022 11:00
Sample Date & Time	7/15/2022 14:35

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	23.08
Calculated Casing Volumes Purge Duration (min)	212.75
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	28
Previous Well Sampled	MW-32

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.65

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/15/2022 14:32	46.00	4220	6.72	16.00	297	2.2	33.0	
7/15/2022 14:33	46.22	4229	6.71	15.93	296	2.1	34.2	
7/15/2022 14:34	46.43	4239	6.71	15.85	296	2.0	34.9	
7/15/2022 14:35	46.65	4230	6.70	15.79	295	2.0	34.5	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	77.65
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	215.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1057. Purge began at 1100. Purged well for a total of 215 minutes. Purge ended and samples collected at 1435. Water was clear. Left site at 1440.

Signature of Field Technician

Sharon Hillberg



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-29
Field Sample ID	MW-29_07142022
Purge Date & Time	7/14/2022 10:20
Sample Date & Time	7/14/2022 13:20

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	18.27
Calculated Casing Volumes Purge Duration (min)	168.39
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	27
Previous Well Sampled	MW-26

Well Depth (ft)	135.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	107.02

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/14/2022 13:17	38.40	4549	6.68	15.69	224	12.1	1.3	
7/14/2022 13:18	38.62	4550	6.66	15.79	223	13.0	1.1	
7/14/2022 13:19	38.84	4501	6.65	15.75	222	14.0	1.2	
7/14/2022 13:20	39.06	4540	6.64	15.65	221	13.0	1.1	

Volume of water purged (gals)	39.06
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Final Depth to Water (feet)	109.55
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	180.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Heavy Metals - U only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 1015. Purge began at 1020. Purged well for a total of 180 minutes. Purge ended and sample collected at 1320. Water was clear. Left site at 1322.

Signature of Field Technician

Doreen Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_07132022
Purge Date & Time	7/13/2022 7:05
Sample Date & Time	7/13/2022 10:35
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.60
Calculated Casing Volumes Purge Duration (min)	208.35
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	MW-11

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.38

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/13/2022 10:32	44.91	2236	7.38	15.21	368	0	54.0	
7/13/2022 10:33	45.13	2232	7.35	15.10	366	0	53.0	
7/13/2022 10:34	45.35	2238	7.33	15.06	365	0	52.0	
7/13/2022 10:35	45.57	2237	7.33	15.00	364	0	52.5	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	76.98
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 0700. Purge began at 0705. Purged well for a total of 210 minutes. Purge ended and samples collected at 1035. Water was clear. Left site at 1045.
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Signature of Field Technician

Turner H. Libby



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_07122022
Purge Date & Time	7/12/2022 6:40
Sample Date & Time	7/12/2022 12:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.40
Calculated Casing Volumes Purge Duration (min)	363.21
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.65

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/12/2022 12:42	78.55	3300	7.34	15.55	339	0	114.0	
7/12/2022 12:43	78.77	3387	7.31	15.48	338	0	115.0	
7/12/2022 12:44	78.98	3418	7.30	15.45	338	0	115.0	
7/12/2022 12:45	79.20	3440	7.28	15.43	337	0	115.0	

Volume of water purged (gals)	79.20
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Final Depth to Water (feet)	72.87
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	365.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:
Arrived on site at 0635. Purge began at 0640. Purged well for a total of 365 minutes. Purge ended and samples collected at 1245. Water was clear. Left site at 1255.

Signature of Field Technician

Turner Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_07152022
Purge Date & Time	7/15/2022 7:20
Sample Date & Time	7/15/2022 12:20
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	31.14
Calculated Casing Volumes Purge Duration (min)	287.07
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	22
Previous Well Sampled	MW-27

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.90

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/15/2022 12:17	64.44	3677	6.71	15.55	215	4.9	6.9	
7/15/2022 12:18	64.66	3734	6.69	15.45	216	5.1	6.8	
7/15/2022 12:19	64.88	3724	6.67	15.44	216	5.2	6.9	
7/15/2022 12:20	65.10	3722	6.65	15.43	216	5.2	6.8	

Volume of water purged (gals)	65.10
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Final Depth to Water (feet)	86.97
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	300.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Arrived on site at 0715. Purge began at 0720. Purged well for a total of 300 minutes. Purge ended and samples collected at 1220. Water was a little murky. Left site at 1222.

Signature of Field Technician

Juanes Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_07132022
Purge Date & Time	7/13/2022 11:20
Sample Date & Time	7/13/2022 12:30
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.21
Calculated Casing Volumes Purge Duration (min)	66.50
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	MW-14

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/13/2022 12:27	14.53	4747	7.15	15.76	352	1.0	76.0	
7/13/2022 12:28	14.75	4821	7.14	15.70	351	1.0	80.0	
7/13/2022 12:29	14.97	4763	7.12	15.70	351	1.0	81.0	
7/13/2022 12:30	15.19	4841	7.11	15.74	350	1.0	83.0	

Volume of water purged (gals)	15.19
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Final Depth to Water (feet)	111.43
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	70.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (l)	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 1115. Purge began at 1120. Purged well for a total of 70 minutes. Purge ended and samples collected at 1230. Water was clear. Left site at 1240.

Signature of Field Technician

Summer Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-38
Field Sample ID	MW-38_07202022
Purge Date & Time	7/19/2022 8:00
Sample Date & Time	7/20/2022 8:30

Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	2.73
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	MW-24

Well Depth (ft)	74.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.21

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/19/2022 8:04	5.00	4325	6.04	15.86	526	65.0	105.0	
7/20/2022 8:30		4300	6.70	16.50				Before
7/20/2022 8:38		4297	6.71	16.40				After

Volume of water purged (gals)	5.00
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Final Depth to Water (feet)	74.31
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Name of Certified Analytical Laboratory	
GEL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.82
Volume, if well evacuated to dryness (gals)	5.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0755. Bailing began at 0800. Bailed a total of 5 gallons from well. Bailed well dry. Water started clear and ended murky. Bailing ended at 0804. Left site at 0807. Arrived on site at 0825. Depth to water was 70.25. Samples bailed and collected at 0830. Left site at 0840.

Signature of Field Technician

James H. Hildrey



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-39
Field Sample ID	MW-39_07142022
Purge Date & Time	7/14/2022 5:45
Sample Date & Time	7/14/2022 9:35
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.78
Calculated Casing Volumes Purge Duration (min)	228.39
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	20
Previous Well Sampled	MW-36

Well Depth (ft)	102.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	64.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/14/2022 9:32	49.25	4812	4.40	15.40	368	0	4.1	
7/14/2022 9:33	49.47	4800	4.35	15.37	408	0	4.0	
7/14/2022 9:34	49.69	4810	4.30	15.35	422	0	4.0	
7/14/2022 9:35	49.91	4811	4.28	15.34	434	0	4.0	

Volume of water purged (gals)	49.91
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Final Depth to Water (feet)	67.94
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	230.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (')	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0542. Purge began at 0545. Purged well for a total of 230 minutes. Purge ended and samples collected at 0935. Water was clear. Left site at 0945.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-40
Field Sample ID	MW-40_07142022
Purge Date & Time	7/14/2022 5:55
Sample Date & Time	7/14/2022 10:00
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.21
Calculated Casing Volumes Purge Duration (min)	241.64
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	20
Previous Well Sampled	MW-39

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	79.85

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/14/2022 9:57	52.51	3870	7.28	15.31	250	0	109.0	
7/14/2022 9:58	52.73	3877	7.22	15.33	253	0	107.0	
7/14/2022 9:59	52.94	3880	7.18	15.25	256	0	106.3	
7/14/2022 10:00	53.16	3890	7.17	15.23	259	0	106.7	

Volume of water purged (gals)	53.16
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Final Depth to Water (feet)	80.78
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	245.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0552. Purge began at 0555. Purged well for a total of 245 minutes. Purge ended and samples collected at 1000. Water was clear. Left site at 1010.
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Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_07202022
Purge Date & Time	
Sample Date & Time	7/20/2022 8:30

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp	Redox	Turbidity	Dissolved Oxygen	Before/After
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Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Duplicate of MW-38

Signature of Field Technician

Jessica Holliday

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

August 2022



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_08082022
Purge Date & Time	8/8/2022 8:15
Sample Date & Time	8/8/2022 12:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.15
Calculated Casing Volumes Purge Duration (min)	268.72
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	August Monthly
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	MW-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.35

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/8/2022 12:42	57.93	3091	7.55	15.43	312	111.0	5.1	
8/8/2022 12:43	58.15	3087	7.60	15.15	310	120.0	4.2	
8/8/2022 12:44	58.37	3060	7.61	15.10	308	126.0	4.0	
8/8/2022 12:45	58.59	3059	7.61	15.19	307	127.0	3.9	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	85.52
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	270.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Heavy Metals - Mn only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0810. Purge began at 0815. Purged well for a total of 270 minutes. Purge ended and samples collected at 1245. Water was mostly clear but had tiny little bubbles surfacing. Left site at 1353.

Signature of Field Technician

Jurane Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_08092022
Purge Date & Time	8/9/2022 7:35
Sample Date & Time	8/9/2022 11:05

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.53
Calculated Casing Volumes Purge Duration (min)	198.48
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	21
Previous Well Sampled	MW-30

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.02

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/9/2022 11:02	44.91	3162	7.12	15.80	314	0	3.4	
8/9/2022 11:03	45.13	3139	7.09	15.84	314	0	3.5	
8/9/2022 11:04	45.35	3145	7.07	15.72	313	1.0	3.4	
8/9/2022 11:05	45.57	3149	7.06	15.70	313	1.0	3.4	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	83.88
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0730. Purge began at 0735. Purged well for a total of 210 minutes. Purge ended and sample collected at 1105. Water was clear. Left site at 1107.

Signature of Field Technician

Jessica Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_08092022
Purge Date & Time	8/9/2022 13:00
Sample Date & Time	8/9/2022 13:00

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.73
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Weather Conditions	Sunny
External Ambient Temperature (C)	30
Previous Well Sampled	MW-25

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	77.32

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/9/2022 13:00		3462	7.02	18.2	254	2.0	35.0	

Volume of water purged ()	
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Final Depth to Water (feet)	97.68
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1256. Samples collected at 1300. Water was clear. Left site at 1305.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_08092022
Purge Date & Time	8/9/2022 7:20
Sample Date & Time	8/9/2022 10:50

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.59
Calculated Casing Volumes Purge Duration (min)	208.23
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	20
Previous Well Sampled	MW-11

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.40

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/9/2022 10:47	44.91	2230	7.37	15.50	307	0	53.0	
8/9/2022 10:48	45.13	2242	7.35	15.55	306	0	55.0	
8/9/2022 10:49	45.35	2234	7.34	15.49	306	0	54.0	
8/9/2022 10:50	45.57	2230	7.33	15.48	306	0	54.0	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.90
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0715. Purge began at 0720. Purged well for a total of 210 minutes. Purge ended and samples collected at 1050. Water was clear. Left site at 1100.
--

Signature of Field Technician

Dunstan Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_08082022
Purge Date & Time	8/8/2022 7:30
Sample Date & Time	8/8/2022 13:40

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.37
Calculated Casing Volumes Purge Duration (min)	362.91
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.70

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/8/2022 13:37	79.63	3438	7.40	15.60	293	2.5	114.0	
8/8/2022 13:38	79.85	3433	7.38	15.40	293	2.0	114.0	
8/8/2022 13:39	80.07	3436	7.36	15.43	293	1.9	114.3	
8/8/2022 13:40	80.29	3437	7.35	15.44	293	1.8	114.5	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	73.85
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	370.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - U only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 0725. Purge began at 0730. Purged well for a total of 370 minutes. Purge ended and samples collected at 1340. Water was clear. Left site at 1346.

Signature of Field Technician

James H. Wilkey



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_08092022
Purge Date & Time	
Sample Date & Time	8/9/2022 10:50

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp	Redox	Turbidity	Dissolved Oxygen	Before/After
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Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Duplicate of MW-30

Signature of Field Technician

James Holliday

Tab C2

Field Data Worksheets Accelerated Monitoring

September 2022



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_09212022
Purge Date & Time	9/21/2022 6:00
Sample Date & Time	9/21/2022 10:30
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.20
Calculated Casing Volumes Purge Duration (min)	269.14
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	September Monthly
Sampler	TH/DL
Weather Conditions	Cloudy with rain
External Ambient Temperature (C)	16
Previous Well Sampled	MW-26

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.28

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/21/2022 10:27	57.93	3050	7.05	15.40	421	2.1	1.2	
9/21/2022 10:28	58.15	3069	7.06	14.75	419	2.3	1.0	
9/21/2022 10:29	58.37	3051	7.05	14.70	417	2.0	1.0	
9/21/2022 10:30	58.59	3067	7.08	14.73	416	2.1	1.0	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	87.04
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	270.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Heavy Metals - Mn only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0555. Purge began at 0600. Purged well for a total of 270 minutes. Purge ended and samples collected at 1030. Water was clear.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_09202022
Purge Date & Time	9/20/2022 10:15
Sample Date & Time	9/20/2022 13:45

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.53
Calculated Casing Volumes Purge Duration (min)	198.48
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy with rain
External Ambient Temperature (C)	20
Previous Well Sampled	MW-31

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.02

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/20/2022 13:42	44.91	3177	6.59	15.20	334	0	3.7	
9/20/2022 13:43	45.13	3172	6.60	15.18	334	0	4.0	
9/20/2022 13:44	45.35	3170	6.61	15.12	334	0	4.1	
9/20/2022 13:45	45.57	3171	6.62	15.07	334	0	4.1	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	84.98
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 1011. Purge began at 1015. Purged well for a total of 210 minutes. Purge ended and samples collected at 1345. Water was clear. Left site at 1348.
--

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_09202022
Purge Date & Time	9/20/2022 10:44
Sample Date & Time	9/20/2022 10:45

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	25.61
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy with rain
External Ambient Temperature (C)	21
Previous Well Sampled	MW-25

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.11

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/20/2022 10:44		3536	6.69	16.11	373	0	28.4	

Volume of water purged ()	
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Final Depth to Water (feet)	100.43
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1040. Samples collected at 1045. Water was clear. Left site at 1049.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_09202022
Purge Date & Time	9/20/2022 6:30
Sample Date & Time	9/20/2022 10:00

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.65
Calculated Casing Volumes Purge Duration (min)	208.83
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	17
Previous Well Sampled	N/A

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/20/2022 9:57	44.91	2234	6.74	14.74	416	0	52.0	
9/20/2022 9:58	45.13	2271	6.77	14.78	415	0	55.0	
9/20/2022 9:59	45.35	2250	6.80	14.82	414	0	53.9	
9/20/2022 10:00	45.57	2249	6.81	14.80	413	0	54.0	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.90
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	210.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 0627. Purge began at 0630. Purged well for a total of 210 minutes. Purge ended and samples collected at 1000. Water was clear. Left site at 1008.
--

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_09202022
Purge Date & Time	9/20/2022 6:40
Sample Date & Time	9/20/2022 12:50
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.44
Calculated Casing Volumes Purge Duration (min)	363.51
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	September Monthly
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	17
Previous Well Sampled	MW-30

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.60

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/20/2022 12:47	79.63	3407	6.44	15.33	333	0	112.0	
9/20/2022 12:48	79.85	3434	6.60	15.25	331	0	112.0	
9/20/2022 12:49	80.07	3422	6.66	15.23	331	0	111.9	
9/20/2022 12:50	80.29	3428	6.70	15.21	330	0	111.5	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	73.80
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	370.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - U only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 0635. Purge began at 0640. Purged well for a total of 370 minutes. Purge ended and samples collected at 1250. Water was clear. Left site at 1256.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_09202022
Purge Date & Time	
Sample Date & Time	9/20/2022 13:45

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp	Redox	Turbidity	Dissolved Oxygen	Before/After
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Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Duplicate of MW-25

Signature of Field Technician

Juanita Holliday

Tab D

Quarterly Depth to Water

Name: Tanner Holliday, Deen Lyman
8/15/2022

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)
8/15/2022	1255	MW-01	65.09	8/15/2022	839	MW-04	81.66	8/15/2022	1325	PIEZ-01	67.60
8/15/2022	1332	MW-02	109.60	8/15/2022	845	TW4-01	99.98	8/15/2022	1333	PIEZ-02	46.95
8/15/2022	928	MW-03A	83.96	8/15/2022	748	TW4-02	58.20	8/15/2022	1222	PIEZ-03A	54.97
8/15/2022	1345	MW-05	108.10	8/15/2022	1314	TW4-03	65.40	8/15/2022	705	PIEZ-04	68.48
8/15/2022	1349	MW-11	85.32	8/15/2022	901	TW4-04	88.52	8/15/2022	1340	PIEZ-05	67.05
8/15/2022	1342	MW-12	109.51	8/15/2022	1303	TW4-05	72.66	8/15/2022	1256	TWN-01	70.12
8/15/2022	1052	MW-14	101.61	8/15/2022	1326	TW4-06	79.94	8/15/2022	1303	TWN-02	68.21
8/15/2022	1038	MW-15	105.13	8/15/2022	1322	TW4-07	82.43	8/15/2022	1229	TWN-03	44.22
8/15/2022	903	MW-17	72.27	8/15/2022	1318	TW4-08	85.42	8/15/2022	1219	TWN-04	63.13
8/15/2022	1259	MW-18	74.20	8/15/2022	1307	TW4-09	70.76	8/15/2022	1306	TWN-06	81.05
8/15/2022	1329	MW-19	66.66	8/15/2022	1259	TW4-10	70.15	8/15/2022	1238	TWN-07	80.16
8/15/2022	746	MW-20	86.08	8/15/2022	830	TW4-11	89.78	8/15/2022	1322	TWN-14	59.26
8/15/2022	720	MW-22	66.27	8/15/2022	1233	TW4-12	56.31	8/15/2022	1315	TWN-16	47.97
8/15/2022	1340	MW-23	113.92	8/15/2022	1229	TW4-13	57.60	8/15/2022	1214	TWN-18	63.03
8/15/2022	1321	MW-24A	110.50	8/15/2022	1222	TW4-14	77.40	8/15/2022	712	TWN-19	54.42
8/15/2022	1324	MW-24	109.35	8/15/2022	1252	TW4-16	74.18	8/15/2022	1446	TWN-20	78.23
8/15/2022	1249	MW-25	81.91	8/15/2022	1259	TW4-18	73.93	8/15/2022	1350	TWN-21	79.27
8/15/2022	820	MW-26	74.13	8/15/2022	930	TW4-19	73.45	8/15/2022	1003	DR-05	83.26
8/15/2022	1209	MW-27	58.69	8/15/2022	718	TW4-21	75.84	8/15/2022	952	DR-06	93.98
8/15/2022	1307	MW-28	74.60	8/15/2022	802	TW4-22	80.75	8/15/2022	945	DR-07	92.06
8/15/2022	1313	MW-29	106.90	8/15/2022	1335	TW4-23	76.53	8/15/2022	934	DR-08	51.42
8/15/2022	954	MW-30	75.34	8/15/2022	756	TW4-24	69.21	8/15/2022	926	DR-09	86.68
8/15/2022	946	MW-31	69.60	8/15/2022	735	TW4-25	70.45	8/15/2022	950	DR-10	78.42
8/15/2022	1356	MW-32	82.80	8/15/2022	1330	TW4-26	74.82	8/15/2022	920	DR-11	97.93
8/15/2022	1352	MW-33	DRY	8/15/2022	1352	TW4-27	79.25	8/15/2022	913	DR-12	DRY
8/15/2022	1029	MW-34	107.24	8/15/2022	1235	TW4-28	49.27	8/15/2022	908	DR-13	69.56
8/15/2022	1344	MW-35	112.14	8/15/2022	1355	TW4-29	79.15	8/15/2022	939	DR-14	76.18
8/15/2022	1348	MW-36	110.41	8/15/2022	1216	TW4-30	75.31	8/15/2022	920	DR-15	92.53
8/15/2022	1035	MW-37	106.03	8/15/2022	1219	TW4-31	76.28	8/15/2022	932	DR-17	64.65
8/15/2022	735	MW-38	70.18	8/15/2022	1238	TW4-32	57.08	8/15/2022	910	DR-19	63.32
8/15/2022	728	MW-39	64.36	8/15/2022	1349	TW4-33	78.95	8/15/2022	905	DR-20	55.50
8/15/2022	853	MW-40	79.80	8/15/2022	1205	TW4-34	77.51	8/15/2022	809	DR-21	100.50
				8/15/2022	1209	TW4-35	75.78	8/15/2022	918	DR-22	DRY
				8/15/2022	1225	TW4-36	58.73	8/15/2022	859	DR-23	70.41
				8/15/2022	809	TW4-37	71.30	8/15/2022	924	DR-24	44.70
				8/15/2022	1311	TW4-38	60.48				
				8/15/2022	814	TW4-39	73.82				
				8/15/2022	907	TW4-40	72.31				
				8/15/2022	855	TW4-41	89.13				
				8/15/2022	1345	TW4-42	70.75				
				8/15/2022	1212	TW4-43	73.48				

MW-26 = TW4-15

MW-32 = TW4-17

Comments:

Tab E

Laboratory Analytical Reports – Quarterly Sampling

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-11_07122022

Matrix: Water

Lab ID: 22G1280-01

Date Sampled: 7/12/22 11:20

Sampled By: Tanner Holliday

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	34.9	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-5.3	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	31.4	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.11	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	277	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Ammonia as N	0.610	mg/L	0.250	EPA 350.1	7/26/22	7/26/22	
Chloride	54.0	mg/L	1.0	EPA 300.0	7/15/22	7/16/22	
Fluoride	0.247	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	2.12	mg/L	0.100	EPA 353.2	7/26/22	7/27/22	
Sulfate	1390	mg/L	20.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	2520	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	2260	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	152	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	55.1	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	0.297	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	7.3	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.0093	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	440	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-11_07122022 (cont.)

Matrix: Water

Lab ID: 22G1280-01

Date Sampled: 7/12/22 11:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0026	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-11_07122022 Project: DNMI00100
Sample ID: 587184001 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 12-JUL-22 11:20
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.327	0.861	1.00	pCi/L			JXC9	08/19/22	1124	2296158	I

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
I	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			105	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: 8/12/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-12_07142022**

Matrix: **Water**

Lab ID: **22G1743-01**

Date Sampled: **7/14/22 12:40**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals							
Selenium, Dissolved	0.0292	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Uranium, Dissolved	0.0216	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-14_07132022**

Matrix: **Water**

Lab ID: **22G1280-03**

Date Sampled: **7/13/22 13:45**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	50.9	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-4.1	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	46.9	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.14	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	362	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Ammonia as N	0.112	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	14.5	mg/L	1.0	EPA 300.0	7/15/22	7/16/22	
Fluoride	< 0.100	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	< 0.100	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	2140	mg/L	50.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	3720	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	3260	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	438	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	145	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	1.70	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	10.6	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	297	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-14_07132022 (cont.)

Matrix: Water

Lab ID: 22G1280-03

Date Sampled: 7/13/22 13:45

Sampled By: Tanner Holliday

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals (cont.)							
Uranium, Dissolved	0.0591	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-14_07132022 Project: DNMI00100
Sample ID: 587184003 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 13-JUL-22 13:45
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.246	0.949	1.00	pCi/L			JXC9	08/17/22	1446	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			109	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: **8/12/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-24_07202022**

Matrix: **Water**

Lab ID: **22G1743-07**

Date Sampled: **7/20/22 8:10**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	59.6	meq/L		SM 1030 E	7/29/22	8/12/22	
Cation/Anion Balance	-3.1	%		SM 1030 E	7/29/22	8/12/22	
Cations, Total	56.1	meq/L		SM 1030 E	7/29/22	8/12/22	
TDS Ratio	1.07	None		SM 2340 B	7/29/22	8/12/22	
Inorganic							
Alkalinity- Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/22/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/22/22	
Ammonia as N	0.104	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	46.2	mg/L	1.0	EPA 300.0	7/21/22	7/22/22	
Fluoride	0.760	mg/L	0.100	EPA 300.0	7/21/22	7/22/22	
Nitrate + Nitrite, Total, as N	0.345	mg/L	0.100	EPA 353.2	7/29/22	7/29/22	
Sulfate	2800	mg/L	100	EPA 300.0	7/22/22	7/22/22	
Total Dissolved Solids (TDS)	4200	mg/L	20	SM 2540 C	7/22/22	7/22/22	
TDS, Calculated	3930	mg/L	5	SM 2540 C	7/29/22	8/12/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Beryllium, Dissolved	0.0027	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Cadmium, Dissolved	0.0086	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Calcium, Dissolved	463	mg/L	2.0	EPA 200.7	8/11/22	8/11/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Cobalt, Dissolved	0.113	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Copper, Dissolved	0.0142	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	8/3/22	8/3/22	
Lead, Dissolved	0.0023	mg/L	0.0010	EPA 200.8	8/1/22	8/1/22	
Magnesium, Dissolved	164	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Manganese, Dissolved	7.54	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/22/22	7/27/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Nickel, Dissolved	0.0699	mg/L	0.0200	EPA 200.8	8/1/22	8/1/22	
Potassium, Dissolved	10.9	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Selenium, Dissolved	0.0141	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Sodium, Dissolved	441	mg/L	5.0	EPA 200.7	8/11/22	8/11/22	
Thallium, Dissolved	0.0030	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	8/3/22	8/3/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	8/1/22	8/1/22	
Zinc, Dissolved	0.11	mg/L	0.01	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: 8/12/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-24_07202022 (cont.)**

Matrix: **Water**

Lab ID: **22G1743-07**

Date Sampled: **7/20/22 8:10**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0071	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 24, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-24_07282022	Project: DNMI00100
Sample ID: 587833001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-JUL-22 07:00	
Receive Date: 29-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		2.55	+/-0.449	0.782	1.00	pCi/L			JXC9	08/19/22	1133	2300524	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			107	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: 8/12/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-24A_07192022**

Matrix: **Water**

Lab ID: **22G1743-06**

Date Sampled: **7/19/22 7:00**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	63.6	meq/L		SM 1030 E	7/29/22	8/12/22	
Cation/Anion Balance	-4.4	%		SM 1030 E	7/29/22	8/12/22	
Cations, Total	58.2	meq/L		SM 1030 E	7/29/22	8/12/22	
TDS Ratio	1.03	None		SM 2340 B	7/29/22	8/12/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/22/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/22/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	46.7	mg/L	1.0	EPA 300.0	7/21/22	7/22/22	
Fluoride	1.13	mg/L	0.100	EPA 300.0	7/21/22	7/22/22	
Nitrate + Nitrite, Total, as N	0.275	mg/L	0.100	EPA 353.2	7/29/22	7/29/22	
Sulfate	2990	mg/L	100	EPA 300.0	7/22/22	7/22/22	
Total Dissolved Solids (TDS)	4310	mg/L	20	SM 2540 C	7/22/22	7/22/22	
TDS, Calculated	4170	mg/L	5	SM 2540 C	7/29/22	8/12/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Beryllium, Dissolved	0.0048	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Cadmium, Dissolved	0.0086	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Calcium, Dissolved	475	mg/L	2.0	EPA 200.7	8/11/22	8/11/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Cobalt, Dissolved	0.119	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Copper, Dissolved	0.0175	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	8/3/22	8/3/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	8/1/22	8/1/22	
Magnesium, Dissolved	161	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Manganese, Dissolved	7.10	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/22/22	7/27/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Nickel, Dissolved	0.0590	mg/L	0.0200	EPA 200.8	8/1/22	8/1/22	
Potassium, Dissolved	10.7	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Selenium, Dissolved	0.0161	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Sodium, Dissolved	482	mg/L	5.0	EPA 200.7	8/11/22	8/11/22	
Thallium, Dissolved	0.0027	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	8/3/22	8/3/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	8/1/22	8/1/22	
Zinc, Dissolved	0.04	mg/L	0.01	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: 8/12/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-24A_07192022 (cont.)**

Matrix: **Water**

Lab ID: **22G1743-06**

Date Sampled: **7/19/22 7:00**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0086	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-24A_07192022 Project: DNMI00100
Sample ID: 587184010 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 19-JUL-22 07:00
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		3.56	+/-0.653	0.981	1.00	pCi/L			JXC9	08/17/22	1447	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-25_07132022

Matrix: Water

Lab ID: 22G1280-04

Date Sampled: 7/13/22 11:00

Sampled By: Tanner Holliday

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	40.7	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-5.8	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	36.3	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.10	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	311	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Ammonia as N	0.453	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	22.4	mg/L	1.0	EPA 300.0	7/15/22	7/16/22	
Fluoride	0.171	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	< 0.100	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	1680	mg/L	20.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	2830	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	2580	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	0.0013	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	311	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	114	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	1.27	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	0.0155	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	8.5	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	256	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	0.0008	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-25_07132022 (cont.)

Matrix: Water

Lab ID: 22G1280-04

Date Sampled: 7/13/22 11:00

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0065	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-25_07132022 Project: DNMI00100
Sample ID: 587184004 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 13-JUL-22 11:00
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.253	0.915	1.00	pCi/L			JXC9	08/19/22	0830	2296158	I

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-26_07142022**

Matrix: **Water**
Date Sampled: **7/14/22 8:00**

Lab ID: **22G1280-09**
Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	42.7	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	6.9	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	49.1	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.09	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	315	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Ammonia as N	0.487	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	61.0	mg/L	1.0	EPA 300.0	7/19/22	7/19/22	
Fluoride	0.196	mg/L	0.100	EPA 300.0	7/18/22	7/19/22	
Nitrate + Nitrite, Total, as N	1.63	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	1720	mg/L	50.0	EPA 300.0	7/19/22	7/19/22	
Total Dissolved Solids (TDS)	3140	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	2880	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	0.0006	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	434	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	187	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	0.942	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	7.2	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.0077	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	273	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-26_07142022 (cont.)**

Matrix: **Water**

Lab ID: **22G1280-09**

Date Sampled: **7/14/22 8:00**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0524	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-26_07142022 Project: DNMI00100
Sample ID: 587184007 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 14-JUL-22 08:00
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		1.67	+/-0.429	0.952	1.00	pCi/L			JXC9	08/17/22	1446	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			105	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-27_07152022

Matrix: Water

Lab ID: 22G1743-02

Date Sampled: 7/15/22 10:45

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Fluoride	0.530	mg/L	0.100	EPA 300.0	7/21/22	7/22/22	
Nitrate + Nitrite, Total, as N	5.18	mg/L	0.500	EPA 353.2	8/2/22	8/2/22	

Certificate of Analysis

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-28_07152022

Matrix: Water

Lab ID: 22G1743-03

Date Sampled: 7/15/22 14:35

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	159	mg/L	10.0	EPA 300.0	8/11/22	8/12/22	
Nitrate + Nitrite, Total, as N	5.16	mg/L	0.500	EPA 353.2	8/2/22	8/2/22	
Metals							
Selenium, Dissolved	0.0208	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Uranium, Dissolved	0.0124	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	



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Blanding, UT 84511

PO#:
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-29_07142022

Matrix: Water

Lab ID: 22G1743-04

Date Sampled: 7/14/22 13:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals							
Uranium, Dissolved	0.0151	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-30_07132022**

Matrix: **Water**

Lab ID: **22G1280-05**

Date Sampled: **7/13/22 10:35**

Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	22.0	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	2.3	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	23.1	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.20	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	154	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	108	mg/L	20.0	EPA 300.0	7/15/22	7/16/22	
Fluoride	0.227	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	17.6	mg/L	0.500	EPA 353.2	7/26/22	7/27/22	
Sulfate	779	mg/L	10.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	1710	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	1430	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	255	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	73.6	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	6.2	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.0611	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	95.4	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-30_07132022 (cont.)**

Matrix: **Water**
Date Sampled: **7/13/22 10:35**

Sampled By: **Tanner Holliday**

Lab ID: **22G1280-05**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0100	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-30_07132022	Project: DNMI00100
Sample ID: 587184005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 13-JUL-22 10:35	
Receive Date: 25-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.306	0.973	1.00	pCi/L			JXC9	08/17/22	1446	2296158	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: **8/11/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-31_07122022**

Matrix: **Water**

Lab ID: **22G1280-02**

Date Sampled: **7/12/22 12:45**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	41.3	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-4.8	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	37.6	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.10	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	186	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/19/22	
Ammonia as N	0.121	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	421	mg/L	5.0	EPA 300.0	8/1/22	8/1/22	
Fluoride	0.442	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	16.9	mg/L	1.00	EPA 353.2	7/18/22	7/18/22	
Sulfate	1260	mg/L	20.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	2700	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	2460	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	350	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	177	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	7.4	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.0920	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	122	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-31_07122022 (cont.)**

Matrix: **Water**

Lab ID: **22G1280-02**

Date Sampled: **7/12/22 12:45**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0226	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-31_07122022 Project: DNMI00100
Sample ID: 587184002 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 12-JUL-22 12:45
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		1.22	+/-0.412	1.01	1.00	pCi/L			JXC9	08/17/22	1446	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			104	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-32_07152022

Matrix: Water

Lab ID: 22G1743-05

Date Sampled: 7/15/22 12:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	28.2	mg/L	1.0	EPA 300.0	7/21/22	7/22/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: **8/11/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-36_07132022**

Matrix: **Water**

Lab ID: **22G1280-06**

Date Sampled: **7/13/22 12:30**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	65.8	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-8.1	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	55.9	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.04	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	270	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	45.4	mg/L	1.0	EPA 300.0	7/15/22	7/16/22	
Fluoride	0.188	mg/L	0.100	EPA 300.0	7/15/22	7/16/22	
Nitrate + Nitrite, Total, as N	0.174	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	2890	mg/L	50.0	EPA 300.0	8/1/22	8/1/22	
Total Dissolved Solids (TDS)	4380	mg/L	20	SM 2540 C	7/15/22	7/18/22	
TDS, Calculated	4210	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	401	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	133	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	8.7	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.233	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	612	mg/L	5.0	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	0.0006	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: 8/11/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-36_07132022 (cont.)**

Matrix: **Water**

Lab ID: **22G1280-06**

Date Sampled: **7/13/22 12:30**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0231	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-36_07132022	Project: DNMI00100
Sample ID: 587184006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 13-JUL-22 12:30	
Receive Date: 25-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.340	0.910	1.00	pCi/L			JXC9	08/17/22	1446	2296158	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			105	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-38_07202022

Matrix: Water
Date Sampled: 7/20/22 8:30

Sampled By: Tanner Holliday

Lab ID: 22G1743-08

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	55.0	meq/L		SM 1030 E	7/29/22	8/12/22	
Cation/Anion Balance	1.1	%		SM 1030 E	7/29/22	8/12/22	
Cations, Total	56.2	meq/L		SM 1030 E	7/29/22	8/12/22	
TDS Ratio	1.06	None		SM 2340 B	7/29/22	8/12/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	103	mg/L	1.0	SM 2320 B	7/21/22	7/21/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/21/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	44.5	mg/L	1.0	EPA 300.0	7/21/22	7/22/22	
Fluoride	0.291	mg/L	0.100	EPA 300.0	7/21/22	7/22/22	
Nitrate + Nitrite, Total, as N	14.4	mg/L	1.00	EPA 353.2	8/2/22	8/2/22	
Sulfate	2490	mg/L	100	EPA 300.0	7/22/22	7/22/22	
Total Dissolved Solids (TDS)	3910	mg/L	20	SM 2540 C	7/22/22	7/22/22	
TDS, Calculated	3680	mg/L	5	SM 2540 C	7/29/22	8/12/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Calcium, Dissolved	461	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	8/3/22	8/3/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	8/1/22	8/1/22	
Magnesium, Dissolved	190	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/22/22	7/27/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	8/1/22	8/1/22	
Potassium, Dissolved	26.6	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Selenium, Dissolved	0.156	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Sodium, Dissolved	387	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	8/3/22	8/3/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	8/1/22	8/1/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-38_07202022 (cont.)

Matrix: Water

Lab ID: 22G1743-08

Date Sampled: 7/20/22 8:30

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0060	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-38_07202022	Project: DNMI00100
Sample ID: 587184012	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-JUL-22 08:30	
Receive Date: 25-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.304	0.928	1.00	pCi/L			JXC9	08/17/22	1447 2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.3	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: **8/11/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-39_07142022**

Matrix: **Water**

Lab ID: **22G1280-07**

Date Sampled: **7/14/22 9:35**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	65.4	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-10	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	53.1	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	0.720	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Ammonia as N	0.231	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	42.5	mg/L	1.0	EPA 300.0	7/18/22	7/18/22	
Fluoride	0.555	mg/L	0.100	EPA 300.0	7/18/22	7/18/22	
Nitrate + Nitrite, Total, as N	1.34	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	3090	mg/L	50.0	EPA 300.0	7/19/22	7/19/22	
Total Dissolved Solids (TDS)	2960	mg/L	20	SM 2540 C	7/18/22	7/18/22	
TDS, Calculated	4130	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	0.0059	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	0.0025	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	386	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	0.060	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	0.0222	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	2.09	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	183	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	2.33	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	0.0309	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	11.9	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.0068	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	421	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Thallium, Dissolved	0.0039	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	0.19	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-39_07142022 (cont.)

Matrix: Water

Lab ID: 22G1280-07

Date Sampled: 7/14/22 9:35

Sampled By: Tanner Holliday

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals (cont.)							
Uranium, Dissolved	0.0114	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-39_07142022	Project: DNMI00100
Sample ID: 587184008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-JUL-22 09:35	
Receive Date: 25-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		2.04	+/-0.475	0.904	1.00	pCi/L			JXC9	08/17/22	1447	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			103	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **7/15/22 13:20 @ 1.1 °C**
Date Reported: **8/11/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-40_07142022**

Matrix: **Water**

Lab ID: **22G1280-08**

Date Sampled: **7/14/22 10:00**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	49.8	meq/L		SM 1030 E	7/29/22	8/8/22	
Cation/Anion Balance	-3.5	%		SM 1030 E	7/29/22	8/8/22	
Cations, Total	46.4	meq/L		SM 1030 E	7/29/22	8/8/22	
TDS Ratio	1.13	None		SM 2340 B	7/29/22	8/8/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	215	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	7/19/22	7/20/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	34.3	mg/L	1.0	EPA 300.0	7/18/22	7/18/22	
Fluoride	0.391	mg/L	0.100	EPA 300.0	7/18/22	7/18/22	
Nitrate + Nitrite, Total, as N	2.13	mg/L	0.100	EPA 353.2	7/26/22	7/26/22	
Sulfate	2180	mg/L	50.0	EPA 300.0	7/19/22	7/19/22	
Total Dissolved Solids (TDS)	3630	mg/L	20	SM 2540 C	7/18/22	7/18/22	
TDS, Calculated	3220	mg/L	5	SM 2540 C	7/29/22	8/8/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Calcium, Dissolved	429	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	7/29/22	7/29/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	7/28/22	7/28/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	7/29/22	7/29/22	
Magnesium, Dissolved	149	mg/L	0.2	EPA 200.7	7/28/22	7/28/22	
Manganese, Dissolved	0.130	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/19/22	7/21/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	7/29/22	7/29/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	7/29/22	7/29/22	
Potassium, Dissolved	9.4	mg/L	0.5	EPA 200.7	7/28/22	7/28/22	
Selenium, Dissolved	0.209	mg/L	0.0050	EPA 200.8	7/29/22	7/29/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	7/29/22	7/29/22	
Sodium, Dissolved	289	mg/L	0.5	EPA 200.7	7/28/22	8/1/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	7/29/22	7/29/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	7/28/22	7/28/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	7/29/22	7/29/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	7/29/22	7/29/22	

Certificate of Analysis

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: MW-40_07142022 (cont.)

Matrix: Water

Lab ID: 22G1280-08

Date Sampled: 7/14/22 10:00

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0201	mg/L	0.0003	EPA 200.8	7/29/22	7/29/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: White Mesa Mill GW

Client Sample ID: MW-40_07142022 Project: DNMI00100
Sample ID: 587184009 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 14-JUL-22 10:00
Receive Date: 25-JUL-22
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.280	0.899	1.00	pCi/L			JXC9	08/17/22	1447	2296158	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
i	EPA 903.0												

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			94.6	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: **8/12/2022**
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-65_07202022**

Matrix: **Water**

Lab ID: **22G1743-09**

Date Sampled: **7/20/22 8:30**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	54.7	meq/L		SM 1030 E	7/29/22	8/12/22	
Cation/Anion Balance	4.5	%		SM 1030 E	7/29/22	8/12/22	
Cations, Total	59.8	meq/L		SM 1030 E	7/29/22	8/12/22	
TDS Ratio	1.06	None		SM 2340 B	7/29/22	8/12/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	102	mg/L	1.0	SM 2320 B	7/21/22	7/21/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	7/21/22	7/21/22	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	7/26/22	7/26/22	
Chloride	44.4	mg/L	1.0	EPA 300.0	7/21/22	7/22/22	
Fluoride	0.395	mg/L	0.100	EPA 300.0	7/21/22	7/22/22	
Nitrate + Nitrite, Total, as N	14.1	mg/L	1.00	EPA 353.2	8/2/22	8/2/22	
Sulfate	2480	mg/L	100	EPA 300.0	7/26/22	7/26/22	
Total Dissolved Solids (TDS)	3950	mg/L	20	SM 2540 C	7/22/22	7/22/22	
TDS, Calculated	3720	mg/L	5	SM 2540 C	7/29/22	8/12/22	
Metals							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Calcium, Dissolved	509	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	8/1/22	8/1/22	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	8/3/22	8/3/22	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	8/1/22	8/1/22	
Magnesium, Dissolved	206	mg/L	0.2	EPA 200.7	8/3/22	8/3/22	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	7/22/22	7/27/22	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	8/1/22	8/1/22	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	8/1/22	8/1/22	
Potassium, Dissolved	27.0	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Selenium, Dissolved	0.154	mg/L	0.0050	EPA 200.8	8/1/22	8/1/22	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	8/1/22	8/1/22	
Sodium, Dissolved	386	mg/L	0.5	EPA 200.7	8/3/22	8/3/22	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	8/1/22	8/1/22	
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	8/3/22	8/3/22	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	8/1/22	8/1/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	8/1/22	8/1/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **7/21/22 11:40 @ 0.1 °C**
Date Reported: 8/12/2022
Project Name: **3rd Quarter Ground Water 2022**

Sample ID: **MW-65_0720222 (cont.)**

Matrix: **Water**

Lab ID: **22G1743-09**

Date Sampled: **7/20/22 8:30**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0060	mg/L	0.0003	EPA 200.8	8/1/22	8/1/22	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/29/22	7/29/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/29/22	7/29/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: Trip Blank

Matrix: Water

Lab ID: 22G1280-10

Date Sampled: 7/12/22 11:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/18/22	7/18/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/18/22	7/18/22	



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Tanner Holliday
6425 South Highway 191
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PO#: _____
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Sample ID: Trip Blank

Matrix: Water
Date Sampled: 7/19/22 7:00

Sampled By: Tanner Holliday

Lab ID: 22G1743-10

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/30/22	7/30/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	7/30/22	7/30/22	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	7/30/22	7/30/22	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-65_07202022	Project: DNMI00100
Sample ID: 587184013	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-JUL-22 08:30	
Receive Date: 25-JUL-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		1.14	+/-0.354	0.884	1.00	pCi/L			JXC9	08/17/22	1447	2296158	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			109	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |



8/11/2022

Work Order: 22G1280
Project: 3rd Quarter Ground Water 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Melissa Connolly, Project Manager



Energy Fuels Resources, Inc.

Project: 3rd Quarter Ground Water 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22G1280-01	MW-11_07122022
22G1280-02	MW-31_07122022
22G1280-03	MW-14_07132022
22G1280-04	MW-25_07132022
22G1280-05	MW-30_07132022
22G1280-06	MW-36_07132022
22G1280-07	MW-39_07142022
22G1280-08	MW-40_07142022
22G1280-09	MW-26_07142022
22G1280-10	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/15/22 13:20 @ 1.1 °C
Date Reported: 8/11/2022
Project Name: 3rd Quarter Ground Water 2022

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).
1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.



American West
Analytical Laboratories

UPS GROUND

TRACKING #: 1Z 187 Y4Y 03 9757 9912

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

AWAL Lab Sample Set #

Page 1 of 1

Due Date: _____

QC Level: **3**

Turn Around Time: **Standard**

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Laboratory Use Only

Samples Were:

- Shipped or hand delivered
- Ambient or Chilled
- Temperature 6.1 °C
- Received Broken/Leaking (Improperly Sealed)
Y N
- Properly Preserved
Y N
Checked at bench
Y N
- Received Within Holding Times
Y N

COC Tape Was:

- Present on Outer Package
Y N NA
- Unbroken on Outer Package
Y N NA
- Present on Sample
Y N NA
- Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N

# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, C Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
7	W	x	x	x	x	x	x	x	x	x
3	W									x

X Include EDD:
LOCUS UPLOAD EXCEL

X Field Filtered For:
Dissolved Metals

For Compliance With:

NELAP
 RCRA
 CWA
 SDWA
 ELAP / A2LA
 NLLAP
 Non-Compliance
 Other:

Known Hazards & Sample Comments

Client: **Energy Fuels Resources, Inc.**

Address: **6425 S. Hwy. 191**
Blanding, UT 84511

Contact: **Tanner Holliday**

Phone #: **(435) 678-2221** Cell #: _____

Email: **tholliday@energyfuels.com; KWeinl@energyfuels.com**

Project Name: **3rd Quarter Ground Water 2022**

Project #: _____

PO #: _____

Sampler Name: **Tanner Holliday**

Sample ID:	Date Sampled	Time Sampled	# of Containers
2261280			
MW-11_07122022	7/12/2022	1120	7
MW-31_07122022	7/12/2022	1245	7
MW-14_07132022	7/13/2022	1345	7
MW-25_07132022	7/13/2022	1100	7
MW-30_07132022	7/13/2022	1035	7
MW-36_07132022	7/13/2022	1230	7
MW-39_07142022	7/14/2022	935	7
MW-40_07142022	7/14/2022	1000	7
MW-26_07142022	7/14/2022	800	7
Trip Blank	7/12/2022	1120	3

Relinquished by: <i>Tanner Holliday</i> Signature	Date: 7/14/2022	Received by: <i>Denise Brown</i> Signature	Date: 7/15/22
Print Name: Tanner Holliday	Time: 1100	Print Name: Denise Brown	Time: 13:20
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____

Special Instructions:

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Work Order # 22G1280

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD LABORATORIES

Delivery Method:

- UPS USPS
 FedEx Chemtech Courier
 Walk-in Customer Courier

Receiving Temperature 1.1 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
1-9	Ap	1188						
	N	1216						
	M	1186						
	1/2 P	no lot						
	W	1203 (3)						

Sample Condition (check if yes)
<input checked="" type="checkbox"/> Custody Seals
<input checked="" type="checkbox"/> Containers Intact
<input checked="" type="checkbox"/> COC can be matched to bottles
<input checked="" type="checkbox"/> Received on Ice
<input checked="" type="checkbox"/> Correct Containers(s)
<input checked="" type="checkbox"/> Sufficient Sample Volume
<input type="checkbox"/> Headspace Present (VOC)
<input checked="" type="checkbox"/> Temperature Blank
<input checked="" type="checkbox"/> Received within Holding Time

Plastic Containers
A- Plastic Unpreserved
B- Miscellaneous Plastic
C- Cyanide Qt (NaOH)
E- Coliform/Ecoli/HPC
F- Sulfide Qt (Zn Acetate)
L- Mercury 1631
M- Metals Pint (HNO3)
N- Nutrient Pint (H2SO4)
R- Radiological (HNO3)
S- Sludge Cups/Tubs
Q- Plastic Bag

Glass Containers
D- 625 (Na2S2O3)
G- Glass Unpreserved
H- HAAs (NH4Cl)
J- 508/515/525 (Na2SO3)
K- 515.3 Herbicides
O- Oil & Grease (HCl)
P- Phenols (H2SO4)
T- TOC/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.7									
QC Sample ID: BWG1311-BLK1	Batch: BWG1311								
Date Prepared: 07/28/2022	Date Analyzed: 07/28/2022								
Calcium, Dissolved					ND			0.2	1.00
Iron, Dissolved					ND			0.03	1.00
Magnesium, Dissolved					ND			0.2	1.00
Potassium, Dissolved					ND			0.5	1.00
Sodium, Dissolved					ND			0.5	1.00
Tin, Dissolved					ND			0.10	1.00

LCS - EPA 200.7

QC Sample ID: BWG1311-BS1	Batch: BWG1311								
Date Prepared: 07/28/2022	Date Analyzed: 07/28/2022								
Calcium, Dissolved	95.8		85 - 115		9.8		10.2	0.2	1.00
Iron, Dissolved	95.0		85 - 115		0.190		0.200	0.02	1.00
Magnesium, Dissolved	100		85 - 115		10.2		10.2	0.2	1.00
Potassium, Dissolved	98.3		85 - 115		9.8		10.0	0.5	1.00
Sodium, Dissolved	98.2		85 - 115		9.8		10.0	0.5	1.00
Tin, Dissolved	96.9		85 - 155		0.19		0.200	0.02	1.00

Matrix Spike - EPA 200.7

QC Sample ID: BWG1311-MS2	Batch: BWG1311		QC Source Sample: 22G1280-01						
Date Prepared: 07/28/2022	Date Analyzed: 07/28/2022								
Calcium, Dissolved	139		70 - 130		166	152	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	91.5		70 - 130		0.183	ND	0.200	0.02	1.00
Magnesium, Dissolved	106		70 - 130		65.9	55.1	10.2	0.2	1.00
Potassium, Dissolved	88.4		70 - 130		16.2	7.3	10.0	0.5	1.00
Sodium, Dissolved	-113		70 - 130		428	440	10.0	0.5	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	80.5		70 - 130		0.16	ND	0.200	0.02	1.00

Matrix Spike Dup - EPA 200.7

QC Sample ID: BWG1311-MSD2	Batch: BWG1311		QC Source Sample: 22G1280-01						
Date Prepared: 07/28/2022	Date Analyzed: 07/28/2022								
Calcium, Dissolved	151	0.730	70 - 130	20	167	152	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	91.2	0.328	70 - 130	20	0.182	ND	0.200	0.02	1.00
Magnesium, Dissolved	110	0.620	70 - 130	20	66.3	55.1	10.2	0.2	1.00
Potassium, Dissolved	88.7	0.180	70 - 130	20	16.2	7.3	10.0	0.5	1.00
Sodium, Dissolved	-119	0.146	70 - 130	20	428	440	10.0	0.5	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	82.6	2.58	70 - 130	20	0.17	ND	0.200	0.02	1.00

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 200.8

QC Sample ID: BWG1406-BLK1	Batch: BWG1406								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Arsenic, Dissolved					ND		0.0050	1.00	
Beryllium, Dissolved					ND		0.0005	1.00	
Cadmium, Dissolved					ND		0.0005	1.00	
Chromium, Dissolved					ND		0.0250	1.00	
Cobalt, Dissolved					ND		0.010	1.00	
Copper, Dissolved					ND		0.0100	1.00	
Lead, Dissolved					ND		0.0010	1.00	
Manganese, Dissolved					ND		0.0100	1.00	
Molybdenum, Dissolved					ND		0.0100	1.00	
Nickel, Dissolved					ND		0.0200	1.00	
Selenium, Dissolved					ND		0.0050	1.00	
Silver, Dissolved					ND		0.010	1.00	
Thallium, Dissolved					ND		0.0005	1.00	
Uranium, Dissolved					ND		0.0003	1.00	
Vanadium, Dissolved					ND		0.0150	1.00	
Zinc, Dissolved					ND		0.01	1.00	

LCS - EPA 200.8

QC Sample ID: BWG1406-BS1	Batch: BWG1406								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Arsenic, Dissolved	99.5	85 - 115		0.040		0.0400	0.0005	1.00	
Beryllium, Dissolved	112	85 - 115		0.045		0.0400	0.0005	1.00	
Cadmium, Dissolved	102	85 - 115		0.041		0.0400	0.0002	1.00	
Chromium, Dissolved	103	85 - 115		0.041		0.0400	0.0005	1.00	
Cobalt, Dissolved	102	85 - 115		0.041		0.0400	0.0005	1.00	
Copper, Dissolved	99.6	85 - 115		0.040		0.0400	0.0010	1.00	
Lead, Dissolved	101	85 - 115		0.041		0.0400	0.0005	1.00	
Manganese, Dissolved	103	85 - 115		0.041		0.0400	0.0005	1.00	
Molybdenum, Dissolved	104	85 - 115		0.041		0.0400	0.0005	1.00	
Nickel, Dissolved	102	85 - 115		0.0410		0.0400	0.0005	1.00	
Selenium, Dissolved	106	85 - 115		0.042		0.0400	0.0005	1.00	
Silver, Dissolved	96.9	85 - 115		0.039		0.0400	0.0005	1.00	
Thallium, Dissolved	104	85 - 115		0.041		0.0400	0.0002	1.00	
Uranium, Dissolved	102	85 - 115		0.041		0.0400	0.0003	1.00	
Vanadium, Dissolved	101	85 - 115		0.040		0.0400	0.0005	1.00	
Zinc, Dissolved	105	85 - 115		0.04		0.0400	0.01	1.00	

Matrix Spike - EPA 200.8

QC Sample ID: BWG1406-MS1	Batch: BWG1406		QC Source Sample: 22G1280-01						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Arsenic, Dissolved	102	70 - 130		0.041	ND	0.0400	0.0005	1.00	
Beryllium, Dissolved	104	70 - 130		0.042	ND	0.0400	0.0005	1.00	
Cadmium, Dissolved	98.1	70 - 130		0.039	0.0002	0.0400	0.0002	1.00	
Chromium, Dissolved	89.1	70 - 130		0.038	0.003	0.0400	0.0005	1.00	
Cobalt, Dissolved	92.7	70 - 130		0.038	0.001	0.0400	0.0005	1.00	
Copper, Dissolved	91.0	70 - 130		0.037	0.0009	0.0400	0.0010	1.00	
Lead, Dissolved	100	70 - 130		0.040	0.00004	0.0400	0.0005	1.00	
Manganese, Dissolved	100	70 - 130		0.337	0.297	0.0400	0.0005	1.00	
Molybdenum, Dissolved	104	70 - 130		0.044	0.002	0.0400	0.0005	1.00	
Nickel, Dissolved	90.5	75 - 125		0.0385	0.0024	0.0400	0.0005	1.00	
Selenium, Dissolved	102	70 - 130		0.050	0.009	0.0400	0.0005	1.00	
Silver, Dissolved	71.5	70 - 130		0.029	ND	0.0400	0.0005	1.00	

QC Report for Work Order (WO) - 22G1280

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike - EPA 200.8 (cont.)

QC Sample ID: BWG1406-MS1

Batch: BWG1406

QC Source Sample: 22G1280-01

Date Prepared: 07/29/2022

Date Analyzed: 07/29/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Thallium, Dissolved	102		70 - 130		0.041	0.0003	0.0400	0.0002	1.00
Uranium, Dissolved	104		70 - 130		0.044	0.003	0.0400	0.0003	1.00
Vanadium, Dissolved	92.0		70 - 130		0.037	0.0007	0.0400	0.0005	1.00
Zinc, Dissolved	94.7		70 - 130		0.04	0.002	0.0400	0.01	1.00

QC Report for Work Order (WO) - 22G1280

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - EPA 245.1

QC Sample ID: BWG0807-BLK1

Batch: BWG0807

Date Prepared: 07/18/2022

Date Analyzed: 07/21/2022

Mercury, Dissolved

ND

0.00050

1.00

LCS - EPA 245.1

QC Sample ID: BWG0807-BS1

Batch: BWG0807

Date Prepared: 07/18/2022

Date Analyzed: 07/21/2022

Mercury, Dissolved

97.0

85 - 115

0.00485

0.00500

0.00015

1.00

Matrix Spike - EPA 245.1

QC Sample ID: BWG0807-MS1

Batch: BWG0807

QC Source Sample: 22G1280-01

Date Prepared: 07/18/2022

Date Analyzed: 07/21/2022

Mercury, Dissolved

101

75 - 125

0.00507

ND

0.00500

0.00015

1.00

Matrix Spike Dup - EPA 245.1

QC Sample ID: BWG0807-MSD1

Batch: BWG0807

QC Source Sample: 22G1280-01

Date Prepared: 07/18/2022

Date Analyzed: 07/21/2022

Mercury, Dissolved

96.9

4.68

75 - 125

20

0.00484

ND

0.00500

0.00015

1.00

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BWG0728-BLK1	Batch: BWG0728								
Date Prepared: 07/15/2022	Date Analyzed: 07/15/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.100	1.00
QC Sample ID: BWG0813-BLK1	Batch: BWG0813								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.100	1.00
QC Sample ID: BWG0817-BLK1	Batch: BWG0817								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.100	1.00
QC Sample ID: BWG0861-BLK1	Batch: BWG0861								
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Sulfate					ND			1.0	1.00
QC Sample ID: BWH0292-BLK1	Batch: BWH0292								
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Chloride					ND			1.0	1.00
Sulfate					ND			1.0	1.00
LCS - EPA 300.0									
QC Sample ID: BWG0728-BS1	Batch: BWG0728								
Date Prepared: 07/15/2022	Date Analyzed: 07/15/2022								
Chloride	103		90 - 110		51.4		50.0	1.0	1.00
Fluoride	95.1		90 - 110		4.75		5.00	0.100	1.00
QC Sample ID: BWG0813-BS1	Batch: BWG0813								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Chloride	101		90 - 110		50.3		50.0	1.0	1.00
Fluoride	96.4		90 - 110		4.82		5.00	0.100	1.00
QC Sample ID: BWG0817-BS1	Batch: BWG0817								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Chloride	103		90 - 110		51.5		50.0	1.0	1.00
Fluoride	94.8		90 - 110		4.74		5.00	0.100	1.00
QC Sample ID: BWG0861-BS1	Batch: BWG0861								
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Sulfate	97.2		90 - 110		48.6		50.0	1.0	1.00
QC Sample ID: BWH0292-BS1	Batch: BWH0292								
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Chloride	104		90 - 110		52.1		50.0	1.0	1.00
Sulfate	99.8		90 - 110		49.9		50.0	1.0	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BWG0728-MS2	Batch: BWG0728			QC Source Sample: 22G1280-01					
Date Prepared: 07/16/2022	Date Analyzed: 07/16/2022								
Chloride	97.2		80 - 120		248	54.0	200	22.0	1.00
Fluoride	99.9		80 - 120		20.0	ND	20.0	2.20	1.00
QC Sample ID: BWH0292-MS1	Batch: BWH0292			QC Source Sample: 22G1280-01					
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Chloride	104		80 - 120		264	55.8	200	22.0	1.00

QC Report for Work Order (WO) - 22G1280

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike - EPA 300.0 (cont.)

QC Sample ID: BWH0292-MS1	Batch: BWH0292		QC Source Sample: 22G1280-01						
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Sulfate	109		80 - 120		1600	1390	200	22.0	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWG0728-MSD2	Batch: BWG0728		QC Source Sample: 22G1280-01						
Date Prepared: 07/16/2022	Date Analyzed: 07/16/2022								
Chloride	98.1	0.725	80 - 120	20	250	54.0	200	22.0	1.00
Fluoride	98.7	1.21	80 - 120	20	19.7	ND	20.0	2.20	1.00

QC Sample ID: BWH0292-MSD1	Batch: BWH0292		QC Source Sample: 22G1280-01						
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Chloride	107	1.79	80 - 120	20	269	55.8	200	22.0	1.00
Sulfate	128	2.37	80 - 120	20	1640	1390	200	22.0	1.00

QM-12 - The MSD recovery was outside acceptance limits, but passed duplicate spike acceptance criteria. The batch was accepted based on the acceptability of the MS.

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 350.1									
QC Sample ID: BWG1206-BLK1	Batch: BWG1206								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N					ND			0.0500	1.00
LCS - EPA 350.1									
QC Sample ID: BWG1206-BS1	Batch: BWG1206								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	96.2		90 - 110		0.962		1.00	0.0500	1.00
Matrix Spike - EPA 350.1									
QC Sample ID: BWG1206-MS1	Batch: BWG1206		QC Source Sample: 22G1280-01						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	87.0		80 - 120		1.48	0.610	1.00	0.250	5.00
QC Sample ID: BWG1206-MS2	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	95.2		80 - 120		1.06	0.104	1.00	0.0500	1.00
QC Sample ID: BWG1206-MS3	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	98.9		80 - 120		0.989	ND	1.00	0.0500	1.00
Matrix Spike Dup - EPA 350.1									
QC Sample ID: BWG1206-MSD1	Batch: BWG1206		QC Source Sample: 22G1280-01						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	82.3	3.25	80 - 120	20	1.43	0.610	1.00	0.250	5.00
QC Sample ID: BWG1206-MSD2	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	97.8	2.42	80 - 120	20	1.08	0.104	1.00	0.0500	1.00
QC Sample ID: BWG1206-MSD3	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	103	3.55	80 - 120	20	1.03	ND	1.00	0.0500	1.00

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWG0770-BLK1	Batch: BWG0770								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
QC Sample ID: BWG1165-BLK1	Batch: BWG1165								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
QC Sample ID: BWG1177-BLK1	Batch: BWG1177								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BWG0770-BS1	Batch: BWG0770								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N	106		80 - 120		2.12		2.00	0.100	1.00
QC Sample ID: BWG1165-BS1	Batch: BWG1165								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Nitrate + Nitrite, Total, as N	108		80 - 120		2.16		2.00	0.100	1.00
QC Sample ID: BWG1177-BS1	Batch: BWG1177								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Nitrate + Nitrite, Total, as N	108		80 - 120		2.15		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWG0770-MS1	Batch: BWG0770		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N	96.2		80 - 120		1.01	0.0460	1.00	0.100	1.00
QC Sample ID: BWG0770-MS2	Batch: BWG0770		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N	99.1		80 - 120		1.02	0.0340	1.00	0.100	1.00
QC Sample ID: BWG1165-MS1	Batch: BWG1165		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	102		80 - 120		1.27	0.251	1.00	0.100	1.00
QC Sample ID: BWG1165-MS2	Batch: BWG1165		QC Source Sample: 22G1280-01						
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	99.7		80 - 120		3.11	2.12	1.00	0.100	1.00
QC Sample ID: BWG1177-MS1	Batch: BWG1177		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	97.4		80 - 120		1.07	0.100	1.00	0.100	1.00
QC Sample ID: BWG1177-MS2	Batch: BWG1177		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	112		80 - 120		9.22	8.10	1.00	0.500	5.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWG0770-MSD1	Batch: BWG0770		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N	98.2	1.96	80 - 120	20	1.03	0.0460	1.00	0.100	1.00
QC Sample ID: BWG0770-MSD2	Batch: BWG0770		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Nitrate + Nitrite, Total, as N	100	1.26	80 - 120	20	1.04	0.0340	1.00	0.100	1.00

QC Report for Work Order (WO) - 22G1280

Analyte

% Rec RPD Limits RPD Max Result Source Conc Spk Value MRL DF

Matrix Spike Dup - EPA 353.2 (cont.)

QC Sample ID: BWG1165-MSD1	Batch: BWG1165	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	104	1.80	80 - 120	20	1.29	0.251	1.00	0.100	1.00
QC Sample ID: BWG1165-MSD2	Batch: BWG1165	QC Source Sample: 22G1280-01							
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	104	1.31	80 - 120	20	3.16	2.12	1.00	0.100	1.00
QC Sample ID: BWG1177-MSD1	Batch: BWG1177	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	96.3	1.03	80 - 120	20	1.06	0.100	1.00	0.100	1.00
QC Sample ID: BWG1177-MSD2	Batch: BWG1177	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 07/26/2022	Date Analyzed: 07/27/2022								
Nitrate + Nitrite, Total, as N	119	0.789	80 - 120	20	9.29	8.10	1.00	0.500	5.00

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 8260D /5030A

QC Sample ID: BWG0844-BLK1	Batch: BWG0844								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Acetone					ND	20.0	1.00		
Benzene					ND	1.0	1.00		
Carbon Tetrachloride					ND	1.0	1.00		
Chloroform					ND	1.0	1.00		
Chloromethane					ND	1.0	1.00		
Methyl Ethyl Ketone					ND	20.0	1.00		
Methylene Chloride					ND	1.0	1.00		
Naphthalene					ND	1.0	1.00		
Tetrahydrofuran					ND	1.0	1.00		
Toluene					ND	1.0	1.00		
Xylenes, total					ND	1.0	1.00		

LCS - EPA 8260D /5030A

QC Sample ID: BWG0844-BS1	Batch: BWG0844								
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Acetone	141	70 - 130		141		100	10.0	1.00	
HB - Recovery for this parameter exceeded the upper acceptance limit. Associated sample(s) were all non-detect and therefore accepted and reported for this parameter.									
Benzene	112	70 - 130		11.2		10.0	1.0	1.00	
Carbon Tetrachloride	103	70 - 130		10.3		10.0	1.0	1.00	
Chloroform	126	70 - 130		12.6		10.0	1.0	1.00	
Chloromethane	150	70 - 130		15.0		10.0	1.0	1.00	
HB - Recovery for this parameter exceeded the upper acceptance limit. Associated sample(s) were all non-detect and therefore accepted and reported for this parameter.									
Methyl Ethyl Ketone	100	70 - 130		100		100	10.0	1.00	
Methylene Chloride	117	70 - 130		11.7		10.0	1.0	1.00	
Naphthalene	103	70 - 130		10.3		10.0	1.0	1.00	
Tetrahydrofuran	110	70 - 130		11.0		10.0	1.0	1.00	
Toluene	107	70 - 130		10.7		10.0	1.0	1.00	
Xylenes, total	113	70 - 130		33.8		30.0	1.0	1.00	

Matrix Spike - EPA 8260D /5030A

QC Sample ID: BWG0844-MS1	Batch: BWG0844	QC Source Sample: 22G1280-01							
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Acetone	122	70 - 130		122	ND	100	10.0	1.00	
Benzene	93.8	70 - 130		9.38	ND	10.0	1.0	1.00	
Carbon Tetrachloride	78.4	70 - 130		7.84	ND	10.0	1.0	1.00	
Chloroform	106	70 - 130		10.6	ND	10.0	1.0	1.00	
Chloromethane	149	70 - 130		14.9	ND	10.0	1.0	1.00	
MS-High - Estimated high due to Matrix Spike recovery.									
Methyl Ethyl Ketone	83.6	70 - 130		83.6	ND	100	10.0	1.00	
Methylene Chloride	102	70 - 130		10.2	ND	10.0	1.0	1.00	
Naphthalene	75.3	70 - 130		7.53	ND	10.0	1.0	1.00	
Tetrahydrofuran	103	70 - 130		10.3	ND	10.0	1.0	1.00	
Toluene	90.1	70 - 130		9.01	ND	10.0	1.0	1.00	
Xylenes, total	90.8	70 - 130		27.2	ND	30.0	1.0	1.00	

Matrix Spike Dup - EPA 8260D /5030A

QC Sample ID: BWG0844-MSD1	Batch: BWG0844	QC Source Sample: 22G1280-01							
Date Prepared: 07/18/2022	Date Analyzed: 07/18/2022								
Acetone	121	0.840	70 - 130	20	121	ND	100	10.0	1.00
Benzene	92.2	1.72	70 - 130	20	9.22	ND	10.0	1.0	1.00

QC Report for Work Order (WO) - 22G1280

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike Dup - EPA 8260D /5030A (cont.)

QC Sample ID: BWG0844-MSD1

Batch: BWG0844

QC Source Sample: 22G1280-01

Date Prepared: 07/18/2022

Date Analyzed: 07/18/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Carbon Tetrachloride	77.0	1.80	70 - 130	20	7.70	ND	10.0	1.0	1.00
Chloroform	108	1.50	70 - 130	20	10.8	ND	10.0	1.0	1.00
Chloromethane	145	3.06	70 - 130	20	14.5	ND	10.0	1.0	1.00
MS-High - Estimated high due to Matrix Spike recovery.									
Methyl Ethyl Ketone	83.9	0.406	70 - 130	20	83.9	ND	100	10.0	1.00
Methylene Chloride	100	1.39	70 - 130	20	10.0	ND	10.0	1.0	1.00
Naphthalene	83.3	10.1	70 - 130	20	8.33	ND	10.0	1.0	1.00
Tetrahydrofuran	107	3.14	70 - 130	20	10.7	ND	10.0	1.0	1.00
Toluene	87.7	2.70	70 - 130	20	8.77	ND	10.0	1.0	1.00
Xylenes, total	91.3	0.549	70 - 130	20	27.4	ND	30.0	1.0	1.00

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2320 B									
QC Sample ID: BWG0881-BLK1	Batch: BWG0881								
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
QC Sample ID: BWG0913-BLK1	Batch: BWG0913								
Date Prepared: 07/19/2022	Date Analyzed: 07/20/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Duplicate - SM 2320 B									
QC Sample ID: BWG0881-DUP1	Batch: BWG0881		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.147			20	204	204		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)	0.147			20	204	204		1.0	1.00
QC Sample ID: BWG0881-DUP2	Batch: BWG0881		QC Source Sample: 22G1280-01						
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.144			20	277	277		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)	0.144			20	277	277		1.0	1.00
QC Sample ID: BWG0881-DUP3	Batch: BWG0881		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.173			20	232	231		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)	0.173			20	232	231		1.0	1.00
QC Sample ID: BWG0881-DUP4	Batch: BWG0881		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.0461			20	434	433		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)	0.0461			20	434	433		1.0	1.00
QC Sample ID: BWG0881-DUP5	Batch: BWG0881		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Bicarbonate (as CaCO3)	2.12			20	424	433		1.0	1.00
Alkalinity - Carbonate (as CaCO3)	162			20	11.3	1.2		1.0	1.00
Alkalinity - Total (as CaCO3)	0.230			20	435	434		1.0	1.00
QC Sample ID: BWG0913-DUP1	Batch: BWG0913		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/19/2022	Date Analyzed: 07/20/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.169			20	473	474		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)	0.169			20	473	474		1.0	1.00
LCS - SM 2320 B									
QC Sample ID: BWG0881-BS1	Batch: BWG0881								
Date Prepared: 07/19/2022	Date Analyzed: 07/19/2022								
Alkalinity - Total (as CaCO3)	94.5		90 - 110		223		236	1.0	1.00
QC Sample ID: BWG0913-BS1	Batch: BWG0913								
Date Prepared: 07/19/2022	Date Analyzed: 07/20/2022								
Alkalinity - Total (as CaCO3)	94.7		90 - 110		224		236	1.0	1.00

QM-020 - The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the low concentration of analyte inherent in the sample. The batch was accepted based on acceptable LCS recovery.

QC Report for Work Order (WO) - 22G1280

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BWG0730-BLK1									
Date Prepared: 07/15/2022									
Total Dissolved Solids (TDS)					ND			10	1.00
QC Sample ID: BWG0730-BS1									
Date Prepared: 07/15/2022									
Total Dissolved Solids (TDS)	100		90 - 110		400		400	20	1.00
QC Sample ID: BWG0730-DUP1									
Date Prepared: 07/15/2022									
Total Dissolved Solids (TDS)		0		10	320	320		100	1.00
QC Sample ID: BWG0730-DUP2									
Date Prepared: 07/15/2022									
Total Dissolved Solids (TDS)		0.6		10	2500	2520		20	1.00
QC Sample ID: BWG0788-BLK1									
Date Prepared: 07/18/2022									
Total Dissolved Solids (TDS)					ND			10	1.00
QC Sample ID: BWG0788-BS1									
Date Prepared: 07/18/2022									
Total Dissolved Solids (TDS)	99		90 - 110		396		400	20	1.00
QC Sample ID: BWG0788-DUP1									
Date Prepared: 07/18/2022									
Total Dissolved Solids (TDS)		0		10	872	872		20	1.00
QC Sample ID: BWG0788-DUP2									
Date Prepared: 07/18/2022									
Total Dissolved Solids (TDS)		2		10	11900	12100		50	1.00

Surrogates Report for Work Order (WO) - 22G1280

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BWG0844-BLK1	1,2-Dichloroethane-d4	111	64.2	126	11.1	10.0	BWG0844	1.00
BWG0844-BLK1	4-Bromofluorobenzene	102	71.4	122	10.2	10.0	BWG0844	1.00
BWG0844-BLK1	Toluene-d8	102	63.2	129	10.2	10.0	BWG0844	1.00
LCS - EPA 8260D /5030A								
BWG0844-BS1	1,2-Dichloroethane-d4	107	64.2	126	10.7	10.0	BWG0844	1.00
BWG0844-BS1	4-Bromofluorobenzene	108	71.4	122	10.8	10.0	BWG0844	1.00
BWG0844-BS1	Toluene-d8	103	63.2	129	10.3	10.0	BWG0844	1.00
Matrix Spike - EPA 8260D /5030A								
BWG0844-MS1	1,2-Dichloroethane-d4	104	64.2	126	10.4	10.0	BWG0844	1.00
BWG0844-MS1	4-Bromofluorobenzene	104	71.4	122	10.4	10.0	BWG0844	1.00
BWG0844-MS1	Toluene-d8	100	63.2	129	10.0	10.0	BWG0844	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BWG0844-MSD1	1,2-Dichloroethane-d4	104	64.2	126	10.4	10.0	BWG0844	1.00
BWG0844-MSD1	4-Bromofluorobenzene	108	71.4	122	10.8	10.0	BWG0844	1.00
BWG0844-MSD1	Toluene-d8	100	63.2	129	10.0	10.0	BWG0844	1.00

Surrogate Recoveries (Field Samples)

<u>LabNumber</u>	<u>Analyte</u>	<u>Result</u>	<u>SpkLvl</u>	<u>%Rec</u>	<u>LCL</u>	<u>UCL</u>	<u>Qualifier</u>
8260 Low Level Volatiles							
22G1280-01	4-Bromofluorobenzene	10.5	10.0	105	71.4	122	
22G1280-01	Toluene-d8	10.0	10.0	100	63.2	129	
22G1280-01	1,2-Dichloroethane-d4	10.3	10.0	103	64.2	126	
8260 Low Level Volatiles							
22G1280-02	1,2-Dichloroethane-d4	10.2	10.0	102	64.2	126	
22G1280-02	4-Bromofluorobenzene	10.2	10.0	102	71.4	122	
22G1280-02	Toluene-d8	10.0	10.0	100	63.2	129	
8260 Low Level Volatiles							
22G1280-03	1,2-Dichloroethane-d4	10.4	10.0	104	64.2	126	
22G1280-03	4-Bromofluorobenzene	10.2	10.0	102	71.4	122	
22G1280-03	Toluene-d8	10.3	10.0	103	63.2	129	
8260 Low Level Volatiles							
22G1280-04	1,2-Dichloroethane-d4	10.2	10.0	102	64.2	126	
22G1280-04	4-Bromofluorobenzene	10.1	10.0	101	71.4	122	
22G1280-04	Toluene-d8	10.0	10.0	100	63.2	129	
8260 Low Level Volatiles							
22G1280-05	Toluene-d8	10.2	10.0	102	63.2	129	
22G1280-05	1,2-Dichloroethane-d4	10.2	10.0	102	64.2	126	
22G1280-05	4-Bromofluorobenzene	10.3	10.0	103	71.4	122	
8260 Low Level Volatiles							
22G1280-06	4-Bromofluorobenzene	10.2	10.0	102	71.4	122	
22G1280-06	Toluene-d8	10.0	10.0	100	63.2	129	
22G1280-06	1,2-Dichloroethane-d4	10.4	10.0	104	64.2	126	
8260 Low Level Volatiles							
22G1280-07	1,2-Dichloroethane-d4	10.5	10.0	105	64.2	126	
22G1280-07	4-Bromofluorobenzene	9.89	10.0	98.9	71.4	122	
22G1280-07	Toluene-d8	10.0	10.0	100	63.2	129	
8260 Low Level Volatiles							
22G1280-08	1,2-Dichloroethane-d4	11.2	10.0	112	64.2	126	
22G1280-08	4-Bromofluorobenzene	10.1	10.0	101	71.4	122	

22G1280-08	Toluene-d8	10.0	10.0	100	63.2	129
8260 Low Level Volatiles						
22G1280-09	1,2-Dichloroethane-d4	10.6	10.0	106	64.2	126
22G1280-09	4-Bromofluorobenzene	9.87	10.0	98.7	71.4	122
22G1280-09	Toluene-d8	10.2	10.0	102	63.2	129

8260 Low Level Volatiles						
22G1280-10	Toluene-d8	10.0	10.0	100	63.2	129
22G1280-10	1,2-Dichloroethane-d4	10.9	10.0	109	64.2	126
22G1280-10	4-Bromofluorobenzene	10.2	10.0	102	71.4	122



8/12/2022

Work Order: 22G1743
Project: 3rd Quarter Ground Water 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Melissa Connolly, Project Manager



Energy Fuels Resources, Inc.

Project: 3rd Quarter Ground Water 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22G1743-01	MW-12_07142022
22G1743-02	MW-27_07152022
22G1743-03	MW-28_07152022
22G1743-04	MW-29_07142022
22G1743-05	MW-32_07152022
22G1743-06	MW-24A_07192022
22G1743-07	MW-24_07202022
22G1743-08	MW-38_07202022
22G1743-09	MW-65_07202022
22G1743-10	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.



Chemtech-Ford Laboratories

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Sandy, UT 84070
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www.ChemtechFord.com



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 7/21/22 11:40 @ 0.1 °C
Date Reported: 8/12/2022
Project Name: 3rd Quarter Ground Water 2022

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.



**American West
Analytical Laboratories**

463 W. 3600 S. Salt Lake City, UT 84115
 Phone # (801) 263-8686 Toll Free # (888) 263-8686
 Fax # (801) 263-8687 Email awal@awal-labs.com
 www.awal-labs.com

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

22 G-1743

AWAL Lab Sample Set #
 Page 1 of 2

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; KHedrick@energyfuels.com**
 Project Name: **3rd Quarter Ground Water 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level: 3	Turn Around Time: Standard	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
-----------------------	--------------------------------------	--	------------------

Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Thallium (200.7/200.8)	SO ₄ (4500 or 300.0)	F ⁻ (4500 or 300.0)	Dissolved Beryllium (200.7/200.8)	Ammonia (350.1)	Dissolved Nickel (200.7/200.8)	Known Hazards & Sample Comments
MW-12_07142022	7/14/2022	1240	1	W				X	X								
MW-27_07152022	7/15/2022	1045	2	W	X							X					
MW-28_07152022	7/15/2022	1435	3	W	X	X		X	X								
MW-29_07142022	7/14/2022	1320	1	W				X									
MW-32_07152022	7/15/2022	1220	1	W		X											

Include EDD:
LOCUS UPLOAD
EXCEL

Field Filtered For:
Dissolved Metals

For Compliance With:

NELAP
 RCRA
 CWA
 SDWA
 ELAP / A2LA
 NLLAP
 Non-Compliance
 Other:

Laboratory Use Only

Sampled Wets:

Shipped or hand delivered

Ambient or Chilled

Temperature 16 °C

Received Broken/Leaking (Improperly Sealed)
 Y N

Properly Preserved
 Y N

Checked at bench
 Y N

Received Within Holding Times
 Y N

Present on Outer Package
 Y N NA

Unbroken on Outer Package
 Y N NA

Present on Sample
 Y N NA

Unbroken on Sample
 Y N NA

Discrepancies Between Sample Labels and COC Record?
 Y N

4
5
6
7
8
9
10
11
12

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 7/20/2022	Received by: Signature: _____	Date: _____	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1130	Received by: Signature: <i>Elaine Chis</i>	Date: 7/21/22	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: <i>Elaine Chis</i>	Date: 1140	
Print Name: _____	Time: _____	Received by: Signature: _____	Date: _____	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: _____	Date: _____	
Print Name: _____	Time: _____	Received by: Signature: _____	Date: _____	

UPS GROUND
 TRACKING #: 1Z 187 Y4Y 03 9650 9187



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Analytical Laboratories**

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 Fax # (801) 263-8687 Email awal@awal-labs.com
 www.awal-labs.com

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

22G1743

AWAL Lab Sample Set #
 Page 2 of 2

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; kweinel@energyfuels.com**
 Project Name: **3rd Quarter Ground Water 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:						
3		Standard										
# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Laboratory Use Only	
											Samples Were:	
											1 Shipped or hand delivered	
											2 Ambient or Chilled	
											3 Temperature <u>22</u> °C	
											4 Received Broken/Leaking (Improperly Sealed)	Y N
											5 Properly Preserved	Y N
											Checked at bench	Y N
											6 Received Within Holding Times	Y N
											COC Tape Was:	
											1 Present on Outer Package	Y N NA
											2 Unbroken on Outer Package	Y N NA
											3 Present on Sample	Y N NA
											4 Unbroken on Sample	Y N NA
											Discrepancies Between Sample Labels and COC Record?	
											Y	N

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
MW-24A_07192022	7/19/2022	700	7	W	x	x	x	x	x	x	x	x	x	
MW-24_07202022	7/20/2022	810	7	W	x	x	x	x	x	x	x	x	x	
MW-38_07202022	7/20/2022	830	7	W	x	x	x	x	x	x	x	x	x	
MW-65_07202022	7/20/2022	830	7	W	x	x	x	x	x	x	x	x	x	
Trip Blank	7/19/2022	700	3	W									x	

Relinquished by Signature: <u>Tanner Holliday</u>	Date: <u>7/20/2022</u>	Received by Signature: <u>Erin Haynes</u>	Date: <u>7/20</u>
Print Name: <u>Tanner Holliday</u>	Time: <u>1130</u>	Print Name: <u>Erin Haynes</u>	Time: <u>1140</u>
Relinquished by Signature: _____	Date: _____	Received by Signature: _____	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by Signature: _____	Date: _____	Received by Signature: _____	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by Signature: _____	Date: _____	Received by Signature: _____	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____

Special Instructions:
 Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Work Order # 2261743

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD
LABORATORIES

Delivery Method:

- UPS
- USPS
- FedEx
- Chemtech Courier
- Walk-in
- Customer Courier

Receiving Temperature 20.1 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
01-04	M	1180						
02	N	1210						
	AP	1180						
03	m	1180						
	N	1210						
	AP	1180						
05	AP	client						
06-09	M (C)	1180						
	N (C)	1210						
	AP	1180						
	AP	client						
	W(3)	1203						
10	W(3)	1203						

Sample Condition
(check if yes)

- Custody Seals
- Containers Intact
- COC can be matched to bottles
- Received on Ice
- Correct Containers(s)
- Sufficient Sample Volume
- Headspace Present (VOC)
- Temperature Blank
- Received within Holding Time

Plastic Containers

- A- Plastic Unpreserved
- B- Miscellaneous Plastic
- C- Cyanide Qt (NaOH)
- E- Coliform/Ecoli/HPC
- F- Sulfide Qt (Zn Acetate)
- L- Mercury 1631
- M- Metals Pint (HNO3)
- N- Nutrient Pint (H2SO4)
- R- Radiological (HNO3)
- S- Sludge Cups/Tubs
- Q- Plastic Bag

Glass Containers

- D- 625 (Na2SO3)
- G- Glass Unpreserved
- H- HAAs (NH4Cl)
- J- 508/515/525 (Na2SO3)
- K- 515.3 Herbicides
- O- Oil & Grease (HCl)
- P- Phenols (H2SO4)
- T- TOC/TOX (H3PO4)
- U- 531 (MCAA, Na2SO3)
- V- 524/THMs (Ascorbic Acid)
- W- 8260 VOC (1:1 HCl)
- X- Vial Unpreserved
- Y- 624/504 (Na2SO3)
- Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.7									
QC Sample ID: BWH0230-BLK1	Batch: BWH0230								
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved					ND			0.2	1.00
Iron, Dissolved					ND			0.03	1.00
Magnesium, Dissolved					ND			0.2	1.00
Potassium, Dissolved					ND			0.5	1.00
Sodium, Dissolved					ND			0.5	1.00
Tin, Dissolved					ND			0.10	1.00

QC Sample ID: BWH0702-BLK1	Batch: BWH0702								
Date Prepared: 08/11/2022	Date Analyzed: 08/11/2022								
Calcium, Dissolved					ND			0.2	1.00
Sodium, Dissolved					ND			0.5	1.00

LCS - EPA 200.7

QC Sample ID: BWH0230-BS1	Batch: BWH0230								
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved	102	85 - 115		10.4		10.2	0.2	1.00	
Iron, Dissolved	117	85 - 115		0.234		0.200	0.02	1.00	
QM-11 - The Laboratory Control Sample recovery was outside acceptance limits. The analytical batch was accepted based on the recovery of the Method Spike.									
Magnesium, Dissolved	106	85 - 115		10.9		10.2	0.2	1.00	
Potassium, Dissolved	107	85 - 115		10.7		10.0	0.5	1.00	
Sodium, Dissolved	104	85 - 115		10.4		10.0	0.5	1.00	
Tin, Dissolved	102	85 - 155		0.20		0.200	0.02	1.00	

QC Sample ID: BWH0702-BS1	Batch: BWH0702								
Date Prepared: 08/11/2022	Date Analyzed: 08/11/2022								
Calcium, Dissolved	90.6	85 - 115		9.2		10.2	0.2	1.00	
Sodium, Dissolved	93.4	85 - 115		9.3		10.0	0.5	1.00	

Matrix Spike - EPA 200.7

QC Sample ID: BWH0230-MS1	Batch: BWH0230	QC Source Sample: 22G1743-07							
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved	-608	70 - 130		401	463	10.2	0.2	1.00	
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	85.8	70 - 130		0.177	0.006	0.200	0.02	1.00	
Magnesium, Dissolved	146	70 - 130		179	164	10.2	0.2	1.00	
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Potassium, Dissolved	91.6	70 - 130		20.1	10.9	10.0	0.5	1.00	
Sodium, Dissolved	-797	70 - 130		361	441	10.0	0.5	1.00	
Tin, Dissolved	78.3	70 - 130		0.16	0.004	0.200	0.02	1.00	

QC Sample ID: BWH0230-MS2	Batch: BWH0230	QC Source Sample: 22G1743-08							
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved	116	70 - 130		473	461	10.2	0.2	1.00	
Iron, Dissolved	105	70 - 130		0.210	ND	0.200	0.02	1.00	
Magnesium, Dissolved	106	70 - 130		200	190	10.2	0.2	1.00	
Potassium, Dissolved	96.3	70 - 130		36.2	26.6	10.0	0.5	1.00	
Sodium, Dissolved	-30.8	70 - 130		384	387	10.0	0.5	1.00	

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike - EPA 200.7 (cont.)									
QC Sample ID: BWH0230-MS2	Batch: BWH0230		QC Source Sample: 22G1743-08						
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	97.6		70 - 130		0.20	ND	0.200	0.02	1.00
QC Sample ID: BWH0702-MS1	Batch: BWH0702		QC Source Sample: 22G1743-07						
Date Prepared: 08/11/2022	Date Analyzed: 08/11/2022								
Calcium, Dissolved	80.3		70 - 130		545	463	102	2.0	1.00
Sodium, Dissolved	75.8		70 - 130		516	441	100	5.0	1.00

Matrix Spike Dup - EPA 200.7

QC Sample ID: BWH0230-MSD1	Batch: BWH0230		QC Source Sample: 22G1743-07						
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved	-614	0.144	70 - 130	20	400	463	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	94.0	8.89	70 - 130	20	0.194	0.006	0.200	0.02	1.00
Magnesium, Dissolved	136	0.558	70 - 130	20	178	164	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Potassium, Dissolved	88.7	1.43	70 - 130	20	19.8	10.9	10.0	0.5	1.00
Sodium, Dissolved	-891	2.65	70 - 130	20	351	441	10.0	0.5	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	82.3	4.86	70 - 130	20	0.17	0.004	0.200	0.02	1.00

QC Sample ID: BWH0230-MSD2	Batch: BWH0230		QC Source Sample: 22G1743-08						
Date Prepared: 08/03/2022	Date Analyzed: 08/03/2022								
Calcium, Dissolved	385	5.62	70 - 130	20	501	461	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	109	4.11	70 - 130	20	0.219	ND	0.200	0.02	1.00
Magnesium, Dissolved	218	5.52	70 - 130	20	212	190	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Potassium, Dissolved	114	4.82	70 - 130	20	38.0	26.6	10.0	0.5	1.00
Sodium, Dissolved	130	4.09	70 - 130	20	400	387	10.0	0.5	1.00
Tin, Dissolved	105	7.21	70 - 130	20	0.21	ND	0.200	0.02	1.00

QC Sample ID: BWH0702-MSD1	Batch: BWH0702		QC Source Sample: 22G1743-07						
Date Prepared: 08/11/2022	Date Analyzed: 08/11/2022								
Calcium, Dissolved	51.9	5.47	70 - 130	20	516	463	102	2.0	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Sodium, Dissolved	49.6	5.21	70 - 130	20	490	441	100	5.0	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.8									
QC Sample ID: BWH0023-BLK1	Batch: BWH0023								
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Arsenic, Dissolved					ND		0.0050	1.00	
Beryllium, Dissolved					ND		0.0005	1.00	
Cadmium, Dissolved					ND		0.0005	1.00	
Chromium, Dissolved					ND		0.0250	1.00	
Cobalt, Dissolved					ND		0.010	1.00	
Copper, Dissolved					ND		0.0100	1.00	
Lead, Dissolved					ND		0.0010	1.00	
Manganese, Dissolved					ND		0.0100	1.00	
Molybdenum, Dissolved					ND		0.0100	1.00	
Nickel, Dissolved					ND		0.0200	1.00	
Selenium, Dissolved					ND		0.0050	1.00	
Silver, Dissolved					ND		0.010	1.00	
Thallium, Dissolved					ND		0.0005	1.00	
Uranium, Dissolved					ND		0.0003	1.00	
Vanadium, Dissolved					ND		0.0150	1.00	
Zinc, Dissolved					ND		0.01	1.00	

LCS - EPA 200.8

QC Sample ID: BWH0023-BS1	Batch: BWH0023								
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Arsenic, Dissolved	98.7		85 - 115		0.039		0.0400	0.0005	1.00
Beryllium, Dissolved	101		85 - 115		0.040		0.0400	0.0005	1.00
Cadmium, Dissolved	97.4		85 - 115		0.039		0.0400	0.0002	1.00
Chromium, Dissolved	97.8		85 - 115		0.039		0.0400	0.0005	1.00
Cobalt, Dissolved	95.4		85 - 115		0.038		0.0400	0.0005	1.00
Copper, Dissolved	93.5		85 - 115		0.037		0.0400	0.0010	1.00
Lead, Dissolved	102		85 - 115		0.041		0.0400	0.0005	1.00
Manganese, Dissolved	97.2		85 - 115		0.039		0.0400	0.0005	1.00
Molybdenum, Dissolved	99.0		85 - 115		0.040		0.0400	0.0005	1.00
Nickel, Dissolved	94.0		85 - 115		0.0376		0.0400	0.0005	1.00
Selenium, Dissolved	98.7		85 - 115		0.039		0.0400	0.0005	1.00
Silver, Dissolved	97.7		85 - 115		0.039		0.0400	0.0005	1.00
Thallium, Dissolved	109		85 - 115		0.044		0.0400	0.0002	1.00
Uranium, Dissolved	106		85 - 115		0.042		0.0400	0.0003	1.00
Vanadium, Dissolved	97.9		85 - 115		0.039		0.0400	0.0005	1.00
Zinc, Dissolved	96.2		85 - 115		0.04		0.0400	0.01	1.00

Matrix Spike - EPA 200.8

QC Sample ID: BWH0023-MS1	Batch: BWH0023		QC Source Sample: 22G1743-07						
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Arsenic, Dissolved	100		70 - 130		0.040	ND	0.0400	0.0005	1.00
Beryllium, Dissolved	91.0		70 - 130		0.039	0.003	0.0400	0.0005	1.00
Cadmium, Dissolved	91.1		70 - 130		0.045	0.009	0.0400	0.0002	1.00
Chromium, Dissolved	90.5		70 - 130		0.037	0.0006	0.0400	0.0005	1.00
Cobalt, Dissolved	82.2		70 - 130		0.146	0.113	0.0400	0.0005	1.00
Copper, Dissolved	79.8		70 - 130		0.046	0.014	0.0400	0.0010	1.00
Lead, Dissolved	91.9		70 - 130		0.039	0.002	0.0400	0.0005	1.00
Manganese, Dissolved	-2440		70 - 130		6.56	7.54	0.0400	0.0005	1.00

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Molybdenum, Dissolved	104		70 - 130		0.042	0.0002	0.0400	0.0005	1.00
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QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike - EPA 200.8 (cont.)									
QC Sample ID: BWH0023-MS1	Batch: BWH0023		QC Source Sample: 22G1743-07						
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Nickel, Dissolved	77.0		75 - 125		0.101	0.0699	0.0400	0.0005	1.00
Selenium, Dissolved	103		70 - 130		0.055	0.014	0.0400	0.0005	1.00
Silver, Dissolved	87.7		70 - 130		0.035	ND	0.0400	0.0005	1.00
Thallium, Dissolved	98.9		70 - 130		0.043	0.003	0.0400	0.0002	1.00
Uranium, Dissolved	101		70 - 130		0.047	0.007	0.0400	0.0003	1.00
Vanadium, Dissolved	96.4		70 - 130		0.039	0.0003	0.0400	0.0005	1.00
Zinc, Dissolved	73.0		70 - 130		0.14	0.11	0.0400	0.01	1.00

QC Sample ID: BWH0023-MS2	Batch: BWH0023		QC Source Sample: 22G1743-08						
Date Prepared: 08/01/2022	Date Analyzed: 08/01/2022								
Arsenic, Dissolved	103		70 - 130		0.041	ND	0.0400	0.0005	1.00
Beryllium, Dissolved	90.0		70 - 130		0.036	ND	0.0400	0.0005	1.00
Cadmium, Dissolved	95.2		70 - 130		0.038	0.00008	0.0400	0.0002	1.00
Chromium, Dissolved	97.6		70 - 130		0.040	0.0007	0.0400	0.0005	1.00
Cobalt, Dissolved	93.7		70 - 130		0.038	0.0005	0.0400	0.0005	1.00
Copper, Dissolved	87.2		70 - 130		0.038	0.003	0.0400	0.0010	1.00
Lead, Dissolved	96.8		70 - 130		0.039	ND	0.0400	0.0005	1.00
Manganese, Dissolved	95.4		70 - 130		0.039	0.001	0.0400	0.0005	1.00
Molybdenum, Dissolved	107		70 - 130		0.051	0.008	0.0400	0.0005	1.00
Nickel, Dissolved	89.1		75 - 125		0.0383	0.0027	0.0400	0.0005	1.00
Selenium, Dissolved	102		70 - 130		0.197	0.156	0.0400	0.0005	1.00
Silver, Dissolved	84.5		70 - 130		0.034	0.0002	0.0400	0.0005	1.00
Thallium, Dissolved	99.5		70 - 130		0.040	0.0001	0.0400	0.0002	1.00
Uranium, Dissolved	108		70 - 130		0.049	0.006	0.0400	0.0003	1.00
Vanadium, Dissolved	102		70 - 130		0.041	0.0006	0.0400	0.0005	1.00
Zinc, Dissolved	87.2		70 - 130		0.04	0.003	0.0400	0.01	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 245.1									
QC Sample ID: BWG1118-BLK1	Batch: BWG1118								
Date Prepared: 07/22/2022	Date Analyzed: 07/26/2022								
Mercury, Dissolved					ND		0.00050		1.00
LCS - EPA 245.1									
QC Sample ID: BWG1118-BS1	Batch: BWG1118								
Date Prepared: 07/22/2022	Date Analyzed: 07/26/2022								
Mercury, Dissolved	114		85 - 115		0.00570		0.00500	0.00015	1.00
Matrix Spike - EPA 245.1									
QC Sample ID: BWG1118-MS1	Batch: BWG1118		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	111		75 - 125		0.00556	ND	0.00500	0.00015	1.00
QC Sample ID: BWG1118-MS3	Batch: BWG1118		QC Source Sample: 22G1743-07						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	114		75 - 125		0.00572	ND	0.00500	0.00015	1.00
QC Sample ID: BWG1118-MS4	Batch: BWG1118		QC Source Sample: 22G1743-08						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	112		75 - 125		0.00561	ND	0.00500	0.00015	1.00
Matrix Spike Dup - EPA 245.1									
QC Sample ID: BWG1118-MSD1	Batch: BWG1118		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	107	3.53	75 - 125	20	0.00536	ND	0.00500	0.00015	1.00
QC Sample ID: BWG1118-MSD3	Batch: BWG1118		QC Source Sample: 22G1743-07						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	109	4.86	75 - 125	20	0.00544	ND	0.00500	0.00015	1.00
QC Sample ID: BWG1118-MSD4	Batch: BWG1118		QC Source Sample: 22G1743-08						
Date Prepared: 07/22/2022	Date Analyzed: 07/27/2022								
Mercury, Dissolved	110	1.86	75 - 125	20	0.00551	ND	0.00500	0.00015	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BWG1039-BLK1	Batch: BWG1039								
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.100	1.00
Sulfate					ND			1.0	1.00
QC Sample ID: BWG1113-BLK1	Batch: BWG1113								
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.100	1.00
Sulfate					ND			1.0	1.00
QC Sample ID: BWG1175-BLK1	Batch: BWG1175								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate					ND			1.0	1.00
QC Sample ID: BWH0714-BLK1	Batch: BWH0714								
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride					ND			1.0	1.00
LCS - EPA 300.0									
QC Sample ID: BWG1039-BS1	Batch: BWG1039								
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride	103	90 - 110			51.5		50.0	1.0	1.00
Fluoride	99.5	90 - 110			4.97		5.00	0.100	1.00
Sulfate	98.6	90 - 110			49.3		50.0	1.0	1.00
QC Sample ID: BWG1113-BS1	Batch: BWG1113								
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride	103	90 - 110			51.6		50.0	1.0	1.00
Fluoride	94.0	90 - 110			4.70		5.00	0.100	1.00
Sulfate	98.9	90 - 110			49.4		50.0	1.0	1.00
QC Sample ID: BWG1175-BS1	Batch: BWG1175								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate	98.1	90 - 110			49.0		50.0	1.0	1.00
QC Sample ID: BWH0714-BS1	Batch: BWH0714								
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride	101	90 - 110			50.5		50.0	1.0	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BWG1039-MS1	Batch: BWG1039		QC Source Sample: 22G1743-07						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride	102	80 - 120			148	46.2	100	11.0	1.00
Fluoride	90.3	80 - 120			9.79	0.760	10.0	1.10	1.00
Sulfate	266	80 - 120			3070	2800	100	11.0	1.00
<p>E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).</p> <p>QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.</p>									
QC Sample ID: BWG1039-MS2	Batch: BWG1039		QC Source Sample: 22G1743-08						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride	103	80 - 120			147	44.5	100	11.0	1.00
Fluoride	63.7	80 - 120			6.66	0.291	10.0	1.10	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike - EPA 300.0 (cont.)									
QC Sample ID: BWG1039-MS2	Batch: BWG1039		QC Source Sample: 22G1743-08						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Sulfate	312		80 - 120		2800	2490	100	11.0	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).									
QC Sample ID: BWG1113-MS1	Batch: BWG1113		QC Source Sample: 22G1743-07						
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride	98.8		80 - 120		1030	40.7	1000	110	1.00
Fluoride	82.0		80 - 120		82.0	ND	100	11.0	1.00
Sulfate	103		80 - 120		3830	2800	1000	110	1.00
QC Sample ID: BWG1113-MS2	Batch: BWG1113		QC Source Sample: 22G1743-08						
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride	98.1		80 - 120		1030	44.5	1000	110	1.00
Fluoride	80.0		80 - 120		80.0	ND	100	11.0	1.00
Sulfate	103		80 - 120		3530	2490	1000	110	1.00
QC Sample ID: BWG1175-MS1	Batch: BWG1175		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate	98.2		80 - 120		285	187	100	11.0	1.00
QC Sample ID: BWG1175-MS2	Batch: BWG1175		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate	88.2		80 - 120		90.9	2.7	100	11.0	1.00
QC Sample ID: BWH0714-MS1	Batch: BWH0714		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride	109		80 - 120		359	250	100	11.0	1.00
QC Sample ID: BWH0714-MS2	Batch: BWH0714		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride	387		80 - 120		387		100	11.0	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWG1039-MSD1	Batch: BWG1039		QC Source Sample: 22G1743-07						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride	101	0.577	80 - 120	20	147	46.2	100	11.0	1.00
Fluoride	91.6	1.37	80 - 120	20	9.92	0.760	10.0	1.10	1.00
Sulfate	234	1.03	80 - 120	20	3040	2800	100	11.0	1.00
E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).									
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
QC Sample ID: BWG1039-MSD2	Batch: BWG1039		QC Source Sample: 22G1743-08						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Chloride	102	0.758	80 - 120	20	146	44.5	100	11.0	1.00
Fluoride	64.5	1.18	80 - 120	20	6.74	0.291	10.0	1.10	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike Dup - EPA 300.0 (cont.)									
QC Sample ID: BWG1039-MSD2	Batch: BWG1039		QC Source Sample: 22G1743-08						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Sulfate	301	0.364	80 - 120	20	2790	2490	100	11.0	1.00
E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).									
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
QC Sample ID: BWG1113-MSD1	Batch: BWG1113		QC Source Sample: 22G1743-07						
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride	99.1	0.335	80 - 120	20	1030	40.7	1000	110	1.00
Fluoride	80.5	1.92	80 - 120	20	80.5	ND	100	11.0	1.00
Sulfate	103	0.117	80 - 120	20	3830	2800	1000	110	1.00
QC Sample ID: BWG1113-MSD2	Batch: BWG1113		QC Source Sample: 22G1743-08						
Date Prepared: 07/22/2022	Date Analyzed: 07/22/2022								
Chloride	96.9	1.15	80 - 120	20	1010	44.5	1000	110	1.00
Fluoride	77.2	3.55	80 - 120	20	77.2	ND	100	11.0	1.00
QM-12 - The MSD recovery was outside acceptance limits, but passed duplicate spike acceptance criteria. The batch was accepted based on the acceptability of the MS.									
Sulfate	101	0.599	80 - 120	20	3500	2490	1000	110	1.00
QC Sample ID: BWG1175-MSD1	Batch: BWG1175		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate	99.4	0.431	80 - 120	20	286	187	100	11.0	1.00
QC Sample ID: BWG1175-MSD2	Batch: BWG1175		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Sulfate	90.4	2.44	80 - 120	20	93.1	2.7	100	11.0	1.00
QC Sample ID: BWH0714-MSD1	Batch: BWH0714		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride	106	0.866	80 - 120	20	356	250	100	11.0	1.00
QC Sample ID: BWH0714-MSD2	Batch: BWH0714		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/11/2022	Date Analyzed: 08/12/2022								
Chloride	388	0.226	80 - 120	20	388		100	11.0	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 350.1									
QC Sample ID: BWG1206-BLK1	Batch: BWG1206								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N					ND			0.0500	1.00
LCS - EPA 350.1									
QC Sample ID: BWG1206-BS1	Batch: BWG1206								
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	96.2		90 - 110		0.962		1.00	0.0500	1.00
Matrix Spike - EPA 350.1									
QC Sample ID: BWG1206-MS1	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	87.0		80 - 120		1.48	0.610	1.00	0.250	5.00
QC Sample ID: BWG1206-MS2	Batch: BWG1206		QC Source Sample: 22G1743-07						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	95.2		80 - 120		1.06	0.104	1.00	0.0500	1.00
QC Sample ID: BWG1206-MS3	Batch: BWG1206		QC Source Sample: 22G1743-08						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	98.9		80 - 120		0.989	ND	1.00	0.0500	1.00
Matrix Spike Dup - EPA 350.1									
QC Sample ID: BWG1206-MSD1	Batch: BWG1206		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	82.3	3.25	80 - 120	20	1.43	0.610	1.00	0.250	5.00
QC Sample ID: BWG1206-MSD2	Batch: BWG1206		QC Source Sample: 22G1743-07						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	97.8	2.42	80 - 120	20	1.08	0.104	1.00	0.0500	1.00
QC Sample ID: BWG1206-MSD3	Batch: BWG1206		QC Source Sample: 22G1743-08						
Date Prepared: 07/26/2022	Date Analyzed: 07/26/2022								
Ammonia as N	103	3.55	80 - 120	20	1.03	ND	1.00	0.0500	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWG1417-BLK1	Batch: BWG1417								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
QC Sample ID: BWH0106-BLK1	Batch: BWH0106								
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BWG1417-BS1	Batch: BWG1417								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N	94.6		80 - 120		1.89		2.00	0.100	1.00
QC Sample ID: BWH0106-BS1	Batch: BWH0106								
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N	105		80 - 120		2.10		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWG1417-MS1	Batch: BWG1417		QC Source Sample: 22G1743-07						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N	92.5		80 - 120		1.27	0.345	1.00	0.100	1.00
QC Sample ID: BWG1417-MS2	Batch: BWG1417		QC Source Sample: 22G1743-08						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N	90.2		80 - 120		16.5	15.6	1.00	0.100	1.00
QC Sample ID: BWH0106-MS1	Batch: BWH0106		QC Source Sample: 22G1743-08						
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N	96.5		80 - 120		15.3	14.4	1.00	1.00	10.00
QC Sample ID: BWH0106-MS2	Batch: BWH0106		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N	91.3		80 - 120		5.95	5.04	1.00	0.500	5.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWG1417-MSD1	Batch: BWG1417		QC Source Sample: 22G1743-07						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N	96.3	2.95	80 - 120	20	1.31	0.345	1.00	0.100	1.00
QC Sample ID: BWG1417-MSD2	Batch: BWG1417		QC Source Sample: 22G1743-08						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Nitrate + Nitrite, Total, as N	70.7	1.19	80 - 120	20	16.3	15.6	1.00	0.100	1.00
QM-12 - The MSD recovery was outside acceptance limits, but passed duplicate spike acceptance criteria. The batch was accepted based on the acceptability of the MS.									
QC Sample ID: BWH0106-MSD1	Batch: BWH0106		QC Source Sample: 22G1743-08						
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N	101	0.267	80 - 120	20	15.4	14.4	1.00	1.00	10.00
QC Sample ID: BWH0106-MSD2	Batch: BWH0106		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/02/2022	Date Analyzed: 08/02/2022								
Nitrate + Nitrite, Total, as N	90.6	0.118	80 - 120	20	5.94	5.04	1.00	0.500	5.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BWH0006-BLK1	Batch: BWH0006								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Acetone					ND		20.0	1.00	
Benzene					ND		1.0	1.00	
Carbon Tetrachloride					ND		1.0	1.00	
Chloroform					ND		1.0	1.00	
Chloromethane					ND		1.0	1.00	
Methyl Ethyl Ketone					ND		20.0	1.00	
Methylene Chloride					ND		1.0	1.00	
Naphthalene					ND		1.0	1.00	
Tetrahydrofuran					ND		1.0	1.00	
Toluene					ND		1.0	1.00	
Xylenes, total					ND		1.0	1.00	

LCS - EPA 8260D /5030A

QC Sample ID: BWH0006-BS1	Batch: BWH0006								
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Acetone	86.0		70 - 130		86.0		100	10.0	1.00
Benzene	105		70 - 130		10.5		10.0	1.0	1.00
Carbon Tetrachloride	91.2		70 - 130		9.12		10.0	1.0	1.00
Chloroform	121		70 - 130		12.1		10.0	1.0	1.00
Chloromethane	90.3		70 - 130		9.03		10.0	1.0	1.00
Methyl Ethyl Ketone	98.7		70 - 130		98.7		100	10.0	1.00
Methylene Chloride	119		70 - 130		11.9		10.0	1.0	1.00
Naphthalene	93.0		70 - 130		9.30		10.0	1.0	1.00
Tetrahydrofuran	122		70 - 130		12.2		10.0	1.0	1.00
Toluene	98.9		70 - 130		9.89		10.0	1.0	1.00
Xylenes, total	102		70 - 130		30.7		30.0	1.0	1.00

Matrix Spike - EPA 8260D /5030A

QC Sample ID: BWH0006-MS1	Batch: BWH0006		QC Source Sample: 22G1743-07						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Acetone	89.0		70 - 130		89.0	ND	100	10.0	1.00
Benzene	93.7		70 - 130		9.37	ND	10.0	1.0	1.00
Carbon Tetrachloride	74.4		70 - 130		7.44	ND	10.0	1.0	1.00
Chloroform	112		70 - 130		11.2	ND	10.0	1.0	1.00
Chloromethane	74.1		70 - 130		7.41	ND	10.0	1.0	1.00
Methyl Ethyl Ketone	98.3		70 - 130		98.3	ND	100	10.0	1.00
Methylene Chloride	107		70 - 130		10.7	ND	10.0	1.0	1.00
Naphthalene	84.0		70 - 130		8.40	ND	10.0	1.0	1.00
Tetrahydrofuran	119		70 - 130		11.9	ND	10.0	1.0	1.00
Toluene	86.7		70 - 130		8.67	ND	10.0	1.0	1.00
Xylenes, total	91.2		70 - 130		27.4	ND	30.0	1.0	1.00

Matrix Spike Dup - EPA 8260D /5030A

QC Sample ID: BWH0006-MSD1	Batch: BWH0006		QC Source Sample: 22G1743-07						
Date Prepared: 07/29/2022	Date Analyzed: 07/29/2022								
Acetone	87.2	2.01	70 - 130	20	87.2	ND	100	10.0	1.00
Benzene	94.5	0.850	70 - 130	20	9.45	ND	10.0	1.0	1.00
Carbon Tetrachloride	74.9	0.670	70 - 130	20	7.49	ND	10.0	1.0	1.00
Chloroform	110	1.80	70 - 130	20	11.0	ND	10.0	1.0	1.00
Chloromethane	75.3	1.61	70 - 130	20	7.53	ND	10.0	1.0	1.00
Methyl Ethyl Ketone	97.1	1.21	70 - 130	20	97.1	ND	100	10.0	1.00
Methylene Chloride	107	0.655	70 - 130	20	10.7	ND	10.0	1.0	1.00

QC Report for Work Order (WO) - 22G1743

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike Dup - EPA 8260D /5030A (cont.)

QC Sample ID: BWH0006-MSD1

Batch: BWH0006

QC Source Sample: 22G1743-07

Date Prepared: 07/29/2022

Date Analyzed: 07/29/2022

Naphthalene	87.6	4.20	70 - 130	20	8.76	ND	10.0	1.0	1.00
Tetrahydrofuran	124	4.37	70 - 130	20	12.4	ND	10.0	1.0	1.00
Toluene	87.8	1.26	70 - 130	20	8.78	ND	10.0	1.0	1.00
Xylenes, total	92.9	1.85	70 - 130	20	27.9	ND	30.0	1.0	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2320 B									
QC Sample ID: BWG1044-BLK1	Batch: BWG1044								
Date Prepared: 07/21/2022	Date Analyzed: 07/21/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
QC Sample ID: BWG1045-BLK1	Batch: BWG1045								
Date Prepared: 07/21/2022	Date Analyzed: 07/21/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Duplicate - SM 2320 B									
QC Sample ID: BWG1044-DUP1	Batch: BWG1044		QC Source Sample: 22G1743-08						
Date Prepared: 07/21/2022	Date Analyzed: 07/21/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.0973		20	103	103			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.0973		20	103	103			1.0	1.00
QC Sample ID: BWG1045-DUP1	Batch: BWG1045		QC Source Sample: 22G1743-07						
Date Prepared: 07/21/2022	Date Analyzed: 07/22/2022								
Alkalinity - Bicarbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)			20	ND	ND			1.0	1.00
LCS - SM 2320 B									
QC Sample ID: BWG1044-BS1	Batch: BWG1044								
Date Prepared: 07/21/2022	Date Analyzed: 07/21/2022								
Alkalinity - Total (as CaCO3)	94.3		90 - 110		223		236	1.0	1.00
QC Sample ID: BWG1045-BS1	Batch: BWG1045								
Date Prepared: 07/21/2022	Date Analyzed: 07/21/2022								
Alkalinity - Total (as CaCO3)	96.2		90 - 110		227		236	1.0	1.00

QC Report for Work Order (WO) - 22G1743

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BWG1099-BLK1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)					ND			10	1.00
QC Sample ID: BWG1099-BS1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	102		90 - 110		408		400	20	1.00
QC Sample ID: BWG1099-DUP1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	1			10	3860	3910		20	1.00
QC Sample ID: BWG1099-DUP2									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	2			10	4140	4200		20	1.00
QC Sample ID: BWG1100-BLK1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)					ND			10	1.00
QC Sample ID: BWG1100-BS1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	98		90 - 110		392		400	20	1.00
QC Sample ID: BWG1100-DUP1									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	0			10	568	568		20	1.00
QC Sample ID: BWG1100-DUP2									
Date Prepared: 07/22/2022									
Total Dissolved Solids (TDS)	0			10	704	704		20	1.00

Surrogates Report for Work Order (WO) - 22G1743

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BWH0006-BLK1	1,2-Dichloroethane-d4	120	64.2	126	12.0	10.0	BWH0006	1.00
BWH0006-BLK1	4-Bromofluorobenzene	109	71.4	122	10.9	10.0	BWH0006	1.00
BWH0006-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWH0006	1.00
LCS - EPA 8260D /5030A								
BWH0006-BS1	1,2-Dichloroethane-d4	111	64.2	126	11.1	10.0	BWH0006	1.00
BWH0006-BS1	4-Bromofluorobenzene	113	71.4	122	11.3	10.0	BWH0006	1.00
BWH0006-BS1	Toluene-d8	100	63.2	129	10.0	10.0	BWH0006	1.00
Matrix Spike - EPA 8260D /5030A								
BWH0006-MS1	1,2-Dichloroethane-d4	111	64.2	126	11.1	10.0	BWH0006	1.00
BWH0006-MS1	4-Bromofluorobenzene	116	71.4	122	11.6	10.0	BWH0006	1.00
BWH0006-MS1	Toluene-d8	100	63.2	129	10.0	10.0	BWH0006	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BWH0006-MSD1	1,2-Dichloroethane-d4	107	64.2	126	10.7	10.0	BWH0006	1.00
BWH0006-MSD1	4-Bromofluorobenzene	113	71.4	122	11.3	10.0	BWH0006	1.00
BWH0006-MSD1	Toluene-d8	100	63.2	129	10.0	10.0	BWH0006	1.00

Surrogate Recoveries (Field Samples)

<u>LabNumber</u>	<u>Analyte</u>	<u>Result</u>	<u>SpkLvl</u>	<u>%Rec</u>	<u>LCL</u>	<u>UCL</u>	<u>Qualifier</u>
8260 Low Level Volatiles							
22G1743-06	Toluene-d8	10.0	10.0	100	63.2	129	
22G1743-06	4-Bromofluorobenzene	11.0	10.0	110	71.4	122	
22G1743-06	1,2-Dichloroethane-d4	11.4	10.0	114	64.2	126	
8260 Low Level Volatiles							
22G1743-07	Toluene-d8	10.2	10.0	102	63.2	129	
22G1743-07	4-Bromofluorobenzene	11.1	10.0	111	71.4	122	
22G1743-07	1,2-Dichloroethane-d4	11.2	10.0	112	64.2	126	
8260 Low Level Volatiles							
22G1743-08	Toluene-d8	10.1	10.0	101	63.2	129	
22G1743-08	4-Bromofluorobenzene	11.2	10.0	112	71.4	122	
22G1743-08	1,2-Dichloroethane-d4	11.1	10.0	111	64.2	126	
8260 Low Level Volatiles							
22G1743-09	Toluene-d8	10.3	10.0	103	63.2	129	
22G1743-09	4-Bromofluorobenzene	10.9	10.0	109	71.4	122	
22G1743-09	1,2-Dichloroethane-d4	11.0	10.0	110	64.2	126	
8260 Low Level Volatiles							
22G1743-10	Toluene-d8	10.3	10.0	103	63.2	129	
22G1743-10	4-Bromofluorobenzene	11.0	10.0	110	71.4	122	
22G1743-10	1,2-Dichloroethane-d4	11.2	10.0	112	64.2	126	



August 22, 2022

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 587184

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 25, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 587184**

August 22, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on July 25, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
587184001	MW-11_07122022
587184002	MW-31_07122022
587184003	MW-14_07132022
587184004	MW-25_07132022
587184005	MW-30_07132022
587184006	MW-36_07132022
587184007	MW-26_07142022
587184008	MW-39_07142022
587184009	MW-40_07142022
587184010	MW-24A_07192022
587184011	MW-24_07202022
587184012	MW-38_07202022
587184013	MW-65_07202022

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

A handwritten signature in black ink that reads "Julie Robinson". The signature is written in a cursive, flowing style.

Julie Robinson
Project Manager



CHAIN OF CUSTODY

587184

Samples Shipped to: GEL Laboratories, LLC Contact: Tanner Holliday
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 tholliday@energyfuels.com
(843) 556 8171

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
Q3 Ground Water 2022	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11_07122022	7/12/2022	1120	Gross Alpha
MW-31_07122022	7/12/2022	1245	Gross Alpha
MW-14_07132022	7/13/2022	1345	Gross Alpha
MW-25_07132022	7/13/2022	1100	Gross Alpha
MW-30_07132022	7/13/2022	1035	Gross Alpha
MW-36_07132022	7/13/2022	1230	Gross Alpha
MW-26_07142022	7/14/2022	800	Gross Alpha
MW-39_07142022	7/14/2022	935	Gross Alpha
MW-40_07142022	7/14/2022	1000	Gross Alpha
MW-24A_07192022	7/19/2022	700	Gross Alpha
MW-24_07202022	7/20/2022	810	Gross Alpha
MW-38_07202022	7/20/2022	830	Gross Alpha
MW-65_07202022	7/20/2022	830	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i> Tanner Holliday	Date/Time 7/21/2022 1100	Received By:(Signature) <i>[Signature]</i>	Date/Time 7/25/22 810
Relinquished By:(Signature) <i>[Signature]</i>	Date/Time 7/25/22	Received By:(Signature) <i>[Signature]</i>	Date/Time

SAMPLE RECEIPT & REVIEW FORM *AR*

Client: <u>Dnmi</u>		SDG/AR/COC/Work Order: <u>587184</u>			
Received By: <u>MVH</u>		Date Received: <u>7/25/2022</u>			
Carrier and Tracking Number		Circle Applicable: <input type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Field Services <input type="checkbox"/> Courier <input type="checkbox"/> Other <u>121871440191902399</u>			
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. <input type="checkbox"/> PCB's <input type="checkbox"/> Flammable <input type="checkbox"/> Foreign Soil <input type="checkbox"/> RCRA <input type="checkbox"/> Asbestos <input type="checkbox"/> Beryllium <input type="checkbox"/> Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice <input checked="" type="checkbox"/> None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>25</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>LR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>mw-24-07202022</u> If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials flm Date 7/26/22 Page 1 of 1

GEL Laboratories LLC – Login Review Report

Report Date: 22-AUG-22

Work Order: 587184

Page 1 of 2

GEL Work Order/SDG: 587184 Q3 Ground Water 2022
 Client SDG: 587184
 Project Manager: Julie Robinson
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 22-AUG-22
 Package Due Date: 22-AUG-22
 EDD Due Date: 22-AUG-22
 Due Date: 22-AUG-22
 JAR1

Collector: C
 Prelogin #: 20190487484
 Project Workdef ID: 1294356
 SDG Status: Closed
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
587184001	MW-11_07122022		12-JUL-22 11:20	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184002	MW-31_07122022		12-JUL-22 12:45	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184003	MW-14_07132022		13-JUL-22 13:45	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184004	MW-25_07132022		13-JUL-22 11:00	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184005	MW-30_07132022		13-JUL-22 10:35	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184006	MW-36_07132022		13-JUL-22 12:30	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184007	MW-26_07142022		14-JUL-22 08:00	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184008	MW-39_07142022		14-JUL-22 09:35	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184009	MW-40_07142022		14-JUL-22 10:00	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184010	MW-24A_07192022		19-JUL-22 07:00	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184011	MW-24_07202022	Client will recollect	20-JUL-22 08:10	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184012	MW-38_07202022		20-JUL-22 08:30	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		
587184013	MW-65_07202022		20-JUL-22 08:30	25-JUL-22 08:10	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-11_07122022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-31_07122022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-14_07132022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-25_07132022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-30_07132022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-36_07132022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-26_07142022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-39_07142022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-009 MW-40_07142022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-010 MW-24A_07192022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-011 MW-24_07202022							

GEL Laboratories LLC – Login Review Report

Report Date: 22-AUG-22

Work Order: 587184

Page 2 of 2

-012 MW-38_07202022 REWV GFPC, Total Alpha Radium, Liquid Gross Alpha
 -013 MW-65_07202022 REWV GFPC, Total Alpha Radium, Liquid Gross Alpha

Product: GFCTORAL Workdef ID: 1458614 In Product Group? No Group Name: Group Reference:
 Method: EPA 903.0 Path: Drinking Water (903.0 or 9315)
 Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha
 Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 012, 013 Moisture Correction: "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	No

Action	Product Name	Description	Samples
Contingent Tests			

Login Requirements:

Requirement	Include?	Comments

Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

Julie Robinson

From: Kathy Weinel <KWeinel@energyfuels.com>
Sent: Monday, July 25, 2022 11:50 AM
To: Julie Robinson
Subject: RE: Sample MW-24_07202022

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Julie,

Discard the sample and we will recollect



Energy Fuels Resources (USA) Inc.

Kathy Weinel
Director, Regulatory Compliance

t:303.389.4134 | c: | f:303.389.4125
KWeinel@energyfuels.com

225 Union Blvd., Suite 600
Lakewood, CO 80228

<http://www.energyfuels.com>

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From: Julie Robinson <Julie.Robinson@gel.com>
Sent: Monday, July 25, 2022 8:49 AM
To: Kathy Weinel <KWeinel@energyfuels.com>
Cc: N. Tanner Holliday <tholliday@energyfuels.com>
Subject: Sample MW-24_07202022

Good morning Kathy,

Sample MW-24_072022 did not hold its nitric acid preservation. Please advise if you would like GEL to reduce the pH < 2 before proceeding with the prep and analysis.

Thanks,
Julie Robinson
Project Manager



2040 Savage Road, Charleston, SC 29407 | P.O. Box 30712, Charleston, SC 29417
Office Direct: 843.769.7393 | Office Main: 843.556.8171 | Fax: 843.766.1178



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**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 587184**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

Analytical Procedure: GL-RAD-A-044 REV# 10

Analytical Batch: 2296158

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
587184001	MW-11_07122022
587184002	MW-31_07122022
587184003	MW-14_07132022
587184004	MW-25_07132022
587184005	MW-30_07132022
587184006	MW-36_07132022
587184007	MW-26_07142022
587184008	MW-39_07142022
587184009	MW-40_07142022
587184010	MW-24A_07192022
587184012	MW-38_07202022
587184013	MW-65_07202022
1205151295	Method Blank (MB)
1205151296	587184001(MW-11_07122022) Sample Duplicate (DUP)
1205151297	587184001(MW-11_07122022) Matrix Spike (MS)
1205151298	587184001(MW-11_07122022) Matrix Spike Duplicate (MSD)
1205151299	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Samples 587184001 (MW-11_07122022) and 587184004 (MW-25_07132022) were recounted due to high MDCs. The recounts are reported.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 587184 GEL Work Order: 587184

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Theresa Austin

Date: 19 AUG 2022

Title: Group Leader

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 19, 2022

Page 1 of

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel
Workorder: 587184

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2296158										
QC1205151296	587184001 DUP										
Gross Radium Alpha	U	0.886	U	0.661	pCi/L	N/A		N/A	JXC9	08/17/22	14:4
	Uncertainty	+/-0.327		+/-0.334							
QC1205151299	LCS										
Gross Radium Alpha	1040			1000	pCi/L		95.9	(75%-125%)		08/17/22	14:4
	Uncertainty			+/-11.5							
QC1205151295	MB										
Gross Radium Alpha			U	0.446	pCi/L					08/17/22	14:4
	Uncertainty			+/-0.295							
QC1205151297	587184001 MS										
Gross Radium Alpha	2150 U	0.886		1770	pCi/L		82.2	(75%-125%)		08/17/22	14:4
	Uncertainty	+/-0.327		+/-21.3							
QC1205151298	587184001 MSD										
Gross Radium Alpha	2090 U	0.886		1770	pCi/L	0.0951	84.5	(0%-20%)		08/17/22	14:4
	Uncertainty	+/-0.327		+/-21.3							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 587184

Page 2 of

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
M											
M											
N/A											
N1											
ND											
NJ											
Q											
R											
U											
UI											
UJ											
UL											
X											
Y											
^											
h											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



August 25, 2022

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 587833

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 29, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 587833**

August 25, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on July 29, 2022 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.


Sample Identification: The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
587833001	MW-24_07282022

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Heather Millar for
Julie Robinson
Project Manager

SAMPLE RECEIPT & REVIEW FORM *JR*

Client: <i>DAMI</i>		SDG/AR/COC/Work Order: <i>587833</i>	
Received By: <i>MVH</i>		Date Received: <i>07/29/2022</i>	
Carrier and Tracking Number		FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other <i>121874440196353625</i>	
Suspected Hazard Information		Yes	No
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA
		No	
		Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: Client contacted and provided COC COC created upon receipt	
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Preservation Method: Wet Ice Ice Packs Dry ice <u>None</u> Other: *all temperatures are recorded in Celsius TEMP: <i>23</i>	
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Temperature Device Serial #: <i>LR2-21</i> Secondary Temperature Device Serial # (If Applicable):	
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Sample ID's and Containers Affected: If Preservation added, Lot#:	
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:	
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		ID's and tests affected:	
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		ID's and containers affected:	
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: No container count on COC Other (describe)	
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials *SW* Date *8/1/22* Page *1* of *1*

GEL Laboratories LLC – Login Review Report

Report Date: 25-AUG-22
 Work Order: 587833
 Page 1 of 2

GEL Work Order/SDG: 587833 Q3 Ground Water 2022
 Client SDG: 587833
 Project Manager: Julie Robinson
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 26-AUG-22
 Package Due Date: 26-AUG-22
 EDD Due Date: 26-AUG-22
 Due Date: 26-AUG-22
 JAR1

Collector: C
 Prelogin #: 20190487484
 Project Workdef ID: 1294356
 SDG Status: Closed
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
587833001	MW-24_07282022		28-JUL-22 07:00	29-JUL-22 10:45	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-24_07282022	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

Product: GFCTORAL Workdef ID: 1458614 In Product Group? No Group Name: Group Reference:
 Method: EPA 903.0 Path: Drinking Water (903.0 or 9315)
 Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha
 Samples: 001 Moisture Correction: "As Received"
 Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	No

Action	Product Name	Description	Samples
--------	--------------	-------------	---------

Contingent Tests

Login Requirements:

Requirement	Include?	Comments
-------------	----------	----------

GEL Laboratories LLC – Login Review Report

Report Date: 25-AUG-22

Work Order: 587833

Page 2 of 2

Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 587833**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

Analytical Procedure: GL-RAD-A-044 REV# 10

Analytical Batch: 2300524

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
587833001	MW-24_07282022
1205159246	Method Blank (MB)
1205159247	587833001(MW-24_07282022) Sample Duplicate (DUP)
1205159248	587833001(MW-24_07282022) Matrix Spike (MS)
1205159249	587833001(MW-24_07282022) Matrix Spike Duplicate (MSD)
1205159250	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Samples 1205159248 (MW-24_07282022MS) and 1205159250 (LCS) were recounted due to low recovery. The recounts are reported.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 587833 GEL Work Order: 587833

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Theresa Austin

Date: 24 AUG 2022

Title: Group Leader

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 24, 2022

Page 1 of

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 587833

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2300524										
QC1205159247 587833001 DUP											
Gross Radium Alpha		2.55		2.85	pCi/L	11.2		(0% - 100%)	JXC9	08/19/22	11:3
	Uncertainty	+/-0.449		+/-0.475							
QC1205159250 LCS											
Gross Radium Alpha	539			410	pCi/L		76	(75%-125%)		08/22/22	12:1
	Uncertainty			+/-5.10							
QC1205159246 MB											
Gross Radium Alpha			U	0.340	pCi/L					08/19/22	11:3
	Uncertainty			+/-0.234							
QC1205159248 587833001 MS											
Gross Radium Alpha	2150	2.55		1640	pCi/L		76.3	(75%-125%)		08/22/22	12:1
	Uncertainty	+/-0.449		+/-16.4							
QC1205159249 587833001 MSD											
Gross Radium Alpha	2110	2.55		1610	pCi/L	2.21	76.1	(0%-20%)		08/19/22	11:3
	Uncertainty	+/-0.449		+/-21.1							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 587833

Page 2 of

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
M										
Matrix Related Failure										
N/A										
RPD or %Recovery limits do not apply.										
N1										
See case narrative										
ND										
Analyte concentration is not detected above the detection limit										
NJ										
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q										
One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R										
Sample results are rejected										
U										
Analyte was analyzed for, but not detected above the CRDL.										
UI										
Gamma Spectroscopy--Uncertain identification										
UJ										
Gamma Spectroscopy--Uncertain identification										
UL										
Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X										
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y										
QC Samples were not spiked with this compound										
^										
RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h										
Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

August 2022



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-11_08082022

Matrix: Water

Lab ID: 22H1255-01

Date Sampled: 8/8/22 12:45

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	67.4	mg/L	1.0	EPA 300.0	8/16/22	8/17/22	
Nitrate + Nitrite, Total, as N	2.45	mg/L	0.100	EPA 353.2	8/16/22	8/16/22	
Sulfate	1260	mg/L	20.0	EPA 300.0	8/30/22	8/31/22	
Total Dissolved Solids (TDS)	3230	mg/L	20	SM 2540 C	8/12/22	8/12/22	
Metals							
Manganese, Dissolved	0.201	mg/L	0.0100	EPA 200.8	8/19/22	8/19/22	



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Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-25_08092022

Matrix: Water
Date Sampled: 8/9/22 11:05

Sampled By: Tanner Holliday

Lab ID: 22H1255-02

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Total Dissolved Solids (TDS)	2780	mg/L	20	SM 2540 C	8/12/22	8/12/22	

Certificate of Analysis

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Blanding, UT 84511

PO#: _____
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-26_08092022

Matrix: Water

Lab ID: 22H1255-03

Date Sampled: 8/9/22 13:00

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	65.0	mg/L	1.0	EPA 300.0	8/19/22	8/19/22	
Nitrate + Nitrite, Total, as N	1.56	mg/L	0.100	EPA 353.2	8/16/22	8/16/22	
Total Dissolved Solids (TDS)	3120	mg/L	20	SM 2540 C	8/12/22	8/12/22	
Volatile Organic Compounds							
Chloroform	1120	ug/L	100	EPA 8260D /5030A	8/12/22	8/12/22	



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PO#:
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-30_08092022

Matrix: Water

Lab ID: 22H1255-04

Date Sampled: 8/9/22 10:50

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	185	mg/L	100	EPA 300.0	8/19/22	8/19/22	
Nitrate + Nitrite, Total, as N	13.5	mg/L	0.500	EPA 353.2	8/16/22	8/17/22	
Total Dissolved Solids (TDS)	1580	mg/L	20	SM 2540 C	8/12/22	8/12/22	
Metals							
Selenium, Dissolved	0.0643	mg/L	0.0050	EPA 200.8	8/19/22	8/19/22	
Uranium, Dissolved	0.0101	mg/L	0.0003	EPA 200.8	8/19/22	8/19/22	

Certificate of Analysis

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-31_08082022

Matrix: Water

Lab ID: 22H1255-05

Date Sampled: 8/8/22 13:40

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	396	mg/L	1.0	EPA 300.0	8/16/22	8/17/22	
Nitrate + Nitrite, Total, as N	16.8	mg/L	0.500	EPA 353.2	8/16/22	8/17/22	
Sulfate	1230	mg/L	20.0	EPA 300.0	8/30/22	8/31/22	
Total Dissolved Solids (TDS)	2700	mg/L	20	SM 2540 C	8/12/22	8/12/22	
Metals							
Uranium, Dissolved	0.0227	mg/L	0.0003	EPA 200.8	8/19/22	8/19/22	



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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: MW-65_08092022

Matrix: Water

Lab ID: 22H1255-06

Date Sampled: 8/9/22 10:50

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	180	mg/L	100	EPA 300.0	8/19/22	8/20/22	
Nitrate + Nitrite, Total, as N	16.1	mg/L	0.500	EPA 353.2	8/16/22	8/17/22	
Total Dissolved Solids (TDS)	1700	mg/L	20	SM 2540 C	8/12/22	8/12/22	
Metals							
Selenium, Dissolved	0.0638	mg/L	0.0050	EPA 200.8	8/19/22	8/19/22	
Uranium, Dissolved	0.0100	mg/L	0.0003	EPA 200.8	8/19/22	8/19/22	



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Blanding, UT 84511

PO#: _____
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: August Ground Water 2022

Sample ID: Trip Blank

Matrix: Water

Lab ID: 22H1255-07

Date Sampled: 8/9/22 13:00

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	8/12/22	8/12/22	



9/1/2022

Work Order: 22H1255
Project: August Ground Water 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Melissa Connolly, Project Manager



Energy Fuels Resources, Inc.

Project: August Ground Water 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22H1255-01	MW-11_08082022
22H1255-02	MW-25_08092022
22H1255-03	MW-26_08092022
22H1255-04	MW-30_08092022
22H1255-05	MW-31_08082022
22H1255-06	MW-65_08092022
22H1255-07	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 8/11/22 11:20 @ -0.3 °C
Date Reported: 9/1/2022
Project Name: **August Ground Water 2022**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.



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 Fax # (801) 263-8687 Email awal@awal-labs.com
 www.awal-labs.com

CHAIN OF CUSTODY

1Z 187 Y4Y 03 9595 0282

22H1255

AWAL Lab Sample Set #
 Page 1 of 1

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; kweinel@energyfuels.com;**
 Project Name: **August Ground Water 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:							
3		Standard											
# of Containers	Sample Matrix	NO2/NO3 (353.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Manganese (200.7/200.8)	SO ₄ (4500 or 300.0)	VOCs Chloroform (8260D)	Laboratory Use Only	
												X Include EDD: LOCUS UPLOAD EXCEL X Field Filtered For: Dissolved Metals	
For Compliance With:												3 Temperature -0.3 °C	
<input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:												4 Received Broken/Leaking (Improperly Sealed) Y N	
Known Hazards & Sample Comments												5 Properly Preserved Y N	
												6 Received Within Holding Times Y N	
1	MW-11_08082022	8/8/2022	1245	4	W	X	X	X	X	X	X		1 Present on Outer Package Y N NA
2	MW-25_08092022	8/9/2022	1105	1	W			X					2 Unbroken on Outer Package Y N NA
3	MW-26_08092022	8/9/2022	1300	6	W	X	X	X			X		3 Present on Sample Y N NA
4	MW-30_08092022	8/9/2022	1050	4	W	X	X	X	X				4 Unbroken on Sample Y N NA
5	MW-31_08082022	8/8/2022	1340	4	W	X	X	X		X			Discrepancies Between Sample Labels and COC Record? Y N
6	MW-65_08092022	8/9/2022	1050	4	W	X	X	X	X				
7													
8													
9	Trip Blank	8/9/2022	1300	3	W						X		
10													
11													
12													
13													

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 8/10/2022	Received by: Signature <i>Calvin Ho</i>	Date: 8/10/22	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Print Name: Calvin Ho	Time: 1120	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD
LABORATORIES

Work Order # 22H1255

Delivery Method:

- UPS USPS
- FedEx Chemtech Courier
- Walk-in Customer Courier

Receiving Temperature -0.3 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
01, ^{04, 05, 06}	AP	AWAL						
	m	1186						
	n	1216						
	A ¹ / ₂ P							
02	A ¹ / ₂ P							
03	AP	AWAL						
	n	1216						
	A ¹ / ₂ P							
	W(3)	1203						
07	W(3)	AWAL						Trip Blank

Sample Condition
(check if yes)

- Custody Seals
- Containers Intact
- COC can be matched to bottles
- Received on Ice
- Correct Containers(s)
- Sufficient Sample Volume
- Headspace Present (VOC)
- Temperature Blank
- Received within Holding Time

Plastic Containers

- A- Plastic Unpreserved
- B- Miscellaneous Plastic
- C- Cyanide Qt (NaOH)
- E- Coliform/Ecoli/HPC
- F- Sulfide Qt (Zn Acetate)
- L- Mercury 1631
- M- Metals Pint (HNO3)
- N- Nutrient Pint (H2SO4)
- R- Radiological (HNO3)
- S- Sludge Cups/Tubs
- Q- Plastic Bag

Glass Containers

- D- 625 (Na2S2O3)
- G- Glass Unpreserved
- H- MAAs (NH4Cl)
- J- 508/515/525 (Na2SO3)
- K- 515 3 Herbicides
- O- Oil & Grease (HCl)
- P- Phenols (H2SO4)
- T- TOC/TOX (H3PO4)
- U- 531 (MCAA, Na2S2O3)
- V- 524/THMs (Ascorbic Acid)
- W- 8260 VOC (1:1 HCl)
- X- Vial Unpreserved
- Y- 624/504 (Na2S2O3)
- Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
---------	-------	-----	--------	---------	--------	-------------	-----------	-----	----

Blank - EPA 200.8

QC Sample ID: BWH1180-BLK1	Batch: BWH1180								
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Manganese, Dissolved					ND		0.0100	1.00	
Selenium, Dissolved					ND		0.0050	1.00	
Uranium, Dissolved					ND		0.0003	1.00	

LCS - EPA 200.8

QC Sample ID: BWH1180-BS1	Batch: BWH1180								
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Manganese, Dissolved	98.9	85 - 115		0.040		0.0400	0.0005	1.00	
Selenium, Dissolved	102	85 - 115		0.041		0.0400	0.0005	1.00	
Uranium, Dissolved	107	85 - 115		0.043		0.0400	0.0003	1.00	

Matrix Spike - EPA 200.8

QC Sample ID: BWH1180-MS1	Batch: BWH1180	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Manganese, Dissolved	93.5	70 - 130		0.049	0.012	0.0400	0.0005	1.00	
Selenium, Dissolved	107	70 - 130		0.046	0.003	0.0400	0.0005	1.00	
Uranium, Dissolved	104	70 - 130		0.048	0.007	0.0400	0.0003	1.00	

QC Sample ID: BWH1180-MS2	Batch: BWH1180	QC Source Sample: 22H1255-04							
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Manganese, Dissolved	94.6	70 - 130		0.045	0.007	0.0400	0.0005	1.00	
Selenium, Dissolved	100	70 - 130		0.104	0.064	0.0400	0.0005	1.00	
Uranium, Dissolved	105	70 - 130		0.052	0.010	0.0400	0.0003	1.00	

QC Sample ID: BWH1180-MS3	Batch: BWH1180	QC Source Sample: 22H1255-06							
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Manganese, Dissolved	94.3	70 - 130		0.045	0.008	0.0400	0.0005	1.00	
Selenium, Dissolved	99.9	70 - 130		0.104	0.064	0.0400	0.0005	1.00	
Uranium, Dissolved	106	70 - 130		0.052	0.010	0.0400	0.0003	1.00	

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BWH0933-BLK1	Batch: BWH0933								
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride					ND			1.0	1.00
QC Sample ID: BWH1196-BLK1	Batch: BWH1196								
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride					ND			1.0	1.00
QC Sample ID: BWH1197-BLK1	Batch: BWH1197								
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride					ND			1.0	1.00
QC Sample ID: BWH1777-BLK1	Batch: BWH1777								
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate					ND			1.0	1.00
LCS - EPA 300.0									
QC Sample ID: BWH0933-BS1	Batch: BWH0933								
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride	102		90 - 110		50.9		50.0	1.0	1.00
QC Sample ID: BWH1196-BS1	Batch: BWH1196								
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride	101		90 - 110		50.7		50.0	1.0	1.00
QC Sample ID: BWH1197-BS1	Batch: BWH1197								
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride	102		90 - 110		50.8		50.0	1.0	1.00
QC Sample ID: BWH1777-BS1	Batch: BWH1777								
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate	98.7		90 - 110		49.3		50.0	1.0	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BWH0933-MS1	Batch: BWH0933		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride	103		80 - 120		12.7	1.2	11.1	1.1	1.00
QC Sample ID: BWH0933-MS2	Batch: BWH0933		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride	103		80 - 120		16.3	4.9	11.1	1.1	1.00
QC Sample ID: BWH1196-MS1	Batch: BWH1196		QC Source Sample: 22H1255-03						
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride	102		80 - 120		1080	65.0	1000	110	1.00
QC Sample ID: BWH1196-MS2	Batch: BWH1196		QC Source Sample: 22H1255-04						
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride	103		80 - 120		1210	185	1000	110	1.00
QC Sample ID: BWH1197-MS1	Batch: BWH1197		QC Source Sample: 22H1255-06						
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride	99.2		80 - 120		1170	180	1000	110	1.00
QC Sample ID: BWH1197-MS2	Batch: BWH1197		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride	101		80 - 120		16.9	5.7	11.1	1.1	1.00

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike - EPA 300.0 (cont.)									
QC Sample ID: BWH1777-MS1	Batch: BWH1777		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate	97.2		80 - 120		139	42.0	100	11.0	1.00
QC Sample ID: BWH1777-MS2	Batch: BWH1777		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate	104		80 - 120		66.3	54.7	11.1	1.1	1.00
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BWH0933-MSD1	Batch: BWH0933		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride	104	0.913	80 - 120	20	12.8	1.2	11.1	1.1	1.00
QC Sample ID: BWH0933-MSD2	Batch: BWH0933		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Chloride	105	1.64	80 - 120	20	16.6	4.9	11.1	1.1	1.00
QC Sample ID: BWH1196-MSD1	Batch: BWH1196		QC Source Sample: 22H1255-03						
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride	99.7	1.69	80 - 120	20	1060	65.0	1000	110	1.00
QC Sample ID: BWH1196-MSD2	Batch: BWH1196		QC Source Sample: 22H1255-04						
Date Prepared: 08/19/2022	Date Analyzed: 08/19/2022								
Chloride	102	0.699	80 - 120	20	1210	185	1000	110	1.00
QC Sample ID: BWH1197-MSD1	Batch: BWH1197		QC Source Sample: 22H1255-06						
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride	101	1.34	80 - 120	20	1190	180	1000	110	1.00
QC Sample ID: BWH1197-MSD2	Batch: BWH1197		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/19/2022	Date Analyzed: 08/20/2022								
Chloride	103	1.58	80 - 120	20	17.2	5.7	11.1	1.1	1.00
QC Sample ID: BWH1777-MSD1	Batch: BWH1777		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate	96.0	0.906	80 - 120	20	138	42.0	100	11.0	1.00
QC Sample ID: BWH1777-MSD2	Batch: BWH1777		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 08/30/2022	Date Analyzed: 08/31/2022								
Sulfate	105	0.132	80 - 120	20	66.4	54.7	11.1	1.1	1.00

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWH0908-BLK1	Batch: BWH0908								
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BWH0908-BS1	Batch: BWH0908								
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N	93.8		80 - 120		1.88		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWH0908-MS1	Batch: BWH0908			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N	98.1		80 - 120		1.40	0.424	1.00	0.100	1.00
QC Sample ID: BWH0908-MS2	Batch: BWH0908			QC Source Sample: 22H1255-03					
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N	99.0		80 - 120		2.56	1.56	1.00	0.100	1.00
QC Sample ID: BWH0908-MS3	Batch: BWH0908			QC Source Sample: 22H1255-04					
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Nitrate + Nitrite, Total, as N	102		80 - 120		14.6	13.5	1.00	0.500	5.00
QC Sample ID: BWH0908-MS4	Batch: BWH0908			QC Source Sample: 22H1255-06					
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Nitrate + Nitrite, Total, as N	102		80 - 120		17.1	16.1	1.00	0.500	5.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWH0908-MSD1	Batch: BWH0908			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N	88.2	7.30	80 - 120	20	1.31	0.424	1.00	0.100	1.00
QC Sample ID: BWH0908-MSD2	Batch: BWH0908			QC Source Sample: 22H1255-03					
Date Prepared: 08/16/2022	Date Analyzed: 08/16/2022								
Nitrate + Nitrite, Total, as N	116	6.62	80 - 120	20	2.73	1.56	1.00	0.100	1.00
QC Sample ID: BWH0908-MSD3	Batch: BWH0908			QC Source Sample: 22H1255-04					
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Nitrate + Nitrite, Total, as N	103	0.0618	80 - 120	20	14.6	13.5	1.00	0.500	5.00
QC Sample ID: BWH0908-MSD4	Batch: BWH0908			QC Source Sample: 22H1255-06					
Date Prepared: 08/16/2022	Date Analyzed: 08/17/2022								
Nitrate + Nitrite, Total, as N	84.3	1.06	80 - 120	20	16.9	16.1	1.00	0.500	5.00

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 8260D /5030A

QC Sample ID: BWH0811-BLK1	Batch: BWH0811	
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022	

Acetone		ND		20.0	1.00
Benzene		ND		1.0	1.00
Carbon Tetrachloride		ND		1.0	1.00
Chloroform		ND		1.0	1.00
Chloromethane		ND		1.0	1.00
Methyl Ethyl Ketone		ND		20.0	1.00
Methylene Chloride		ND		1.0	1.00
Naphthalene		ND		1.0	1.00
Tetrahydrofuran		ND		1.0	1.00
Toluene		ND		1.0	1.00
Xylenes, total		ND		1.0	1.00

LCS - EPA 8260D /5030A

QC Sample ID: BWH0811-BS1	Batch: BWH0811	
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022	

Acetone	112	70 - 130	112	100	10.0	1.00
Benzene	106	70 - 130	10.6	10.0	1.0	1.00
Carbon Tetrachloride	103	70 - 130	10.3	10.0	1.0	1.00
Chloroform	112	70 - 130	11.2	10.0	1.0	1.00
Chloromethane	103	70 - 130	10.3	10.0	1.0	1.00
Methyl Ethyl Ketone	111	70 - 130	111	100	10.0	1.00
Methylene Chloride	115	70 - 130	11.5	10.0	1.0	1.00
Naphthalene	103	70 - 130	10.3	10.0	1.0	1.00
Tetrahydrofuran	108	70 - 130	10.8	10.0	1.0	1.00
Toluene	104	70 - 130	10.4	10.0	1.0	1.00
Xylenes, total	106	70 - 130	31.9	30.0	1.0	1.00

Matrix Spike - EPA 8260D /5030A

QC Sample ID: BWH0811-MS1	Batch: BWH0811	QC Source Sample: 22H1255-03
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022	

Acetone	116	70 - 130	578	ND	500	50.0	1.00
Benzene	79.3	70 - 130	39.6	ND	50.0	5.0	1.00
Carbon Tetrachloride	52.2	70 - 130	26.1	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.							
Chloroform	-112	70 - 130	1070	1120	50.0	5.0	1.00
MS-High - Estimated high due to Matrix Spike recovery.							
Chloromethane	64.9	70 - 130	32.4	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.							
Methyl Ethyl Ketone	108	70 - 130	541	ND	500	50.0	1.00
Methylene Chloride	95.7	70 - 130	47.8	ND	50.0	5.0	1.00
Naphthalene	99.7	70 - 130	49.8	ND	50.0	5.0	1.00
Tetrahydrofuran	103	70 - 130	51.6	ND	50.0	5.0	1.00
Toluene	76.4	70 - 130	38.2	ND	50.0	5.0	1.00
Xylenes, total	77.8	70 - 130	117	ND	150	5.0	1.00

Matrix Spike Dup - EPA 8260D /5030A

QC Sample ID: BWH0811-MSD1	Batch: BWH0811	QC Source Sample: 22H1255-03
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022	

Acetone	116	0.673	70 - 130	20	581	ND	500	50.0	1.00
Benzene	74.4	6.38	70 - 130	20	37.2	ND	50.0	5.0	1.00
Carbon Tetrachloride	50.3	3.71	70 - 130	20	25.2	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
---------	-------	-----	--------	---------	--------	-------------	-----------	-----	----

Matrix Spike Dup - EPA 8260D /5030A (cont.)

QC Sample ID: BWH0811-MSD1	Batch: BWH0811	QC Source Sample: 22H1255-03
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022	

Chloroform	-164	-38.1	70 - 130	20	1040	1120	50.0	5.0	1.00
MS-High - Estimated high due to Matrix Spike recovery.									
Chloromethane	63.3	2.50	70 - 130	20	31.6	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									
Methyl Ethyl Ketone	106	2.12	70 - 130	20	530	ND	500	50.0	1.00
Methylene Chloride	93.5	2.33	70 - 130	20	46.8	ND	50.0	5.0	1.00
Naphthalene	97.2	2.54	70 - 130	20	48.6	ND	50.0	5.0	1.00
Tetrahydrofuran	108	4.17	70 - 130	20	53.8	ND	50.0	5.0	1.00
Toluene	72.0	5.93	70 - 130	20	36.0	ND	50.0	5.0	1.00
Xylenes, total	75.1	3.62	70 - 130	20	113	ND	150	5.0	1.00

QC Report for Work Order (WO) - 22H1255

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - SM 2540 C

QC Sample ID: BWH0740-BLK1	Batch: BWH0740								
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)					ND			10	1.00

QC Sample ID: BWH0741-BLK1	Batch: BWH0741								
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)					ND			10	1.00

Duplicate - SM 2540 C

QC Sample ID: BWH0740-DUP1	Batch: BWH0740	QC Source Sample: 22H1255-04							
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	10		10	1420	1580			20	1.00

QC Sample ID: BWH0740-DUP2	Batch: BWH0740	QC Source Sample: 22H1255-06							
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	10		10	1540	1700			20	1.00

QC Sample ID: BWH0741-DUP1	Batch: BWH0741	QC Source Sample: 22H1255-03							
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	1		10	3090	3120			20	1.00

QC Sample ID: BWH0741-DUP2	Batch: BWH0741	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	0		10	376	376			20	1.00

LCS - SM 2540 C

QC Sample ID: BWH0740-BS1	Batch: BWH0740								
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	93	90 - 110		372			400	20	1.00

QC Sample ID: BWH0741-BS1	Batch: BWH0741								
Date Prepared: 08/12/2022	Date Analyzed: 08/12/2022								
Total Dissolved Solids (TDS)	95	90 - 110		380			400	20	1.00

Surrogates Report for Work Order (WO) - 22H1255

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BWH0811-BLK1	1,2-Dichloroethane-d4	110	64.2	126	11.0	10.0	BWH0811	1.00
BWH0811-BLK1	4-Bromofluorobenzene	103	71.4	125	10.3	10.0	BWH0811	1.00
BWH0811-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWH0811	1.00
LCS - EPA 8260D /5030A								
BWH0811-BS1	1,2-Dichloroethane-d4	99.4	64.2	126	9.94	10.0	BWH0811	1.00
BWH0811-BS1	4-Bromofluorobenzene	104	71.4	125	10.4	10.0	BWH0811	1.00
BWH0811-BS1	Toluene-d8	99.6	63.2	129	9.96	10.0	BWH0811	1.00
Matrix Spike - EPA 8260D /5030A								
BWH0811-MS1	1,2-Dichloroethane-d4	104	64.2	126	52.1	50.0	BWH0811	1.00
BWH0811-MS1	4-Bromofluorobenzene	102	71.4	125	51.2	50.0	BWH0811	1.00
BWH0811-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BWH0811	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BWH0811-MSD1	1,2-Dichloroethane-d4	102	64.2	126	51.2	50.0	BWH0811	1.00
BWH0811-MSD1	4-Bromofluorobenzene	104	71.4	125	51.8	50.0	BWH0811	1.00
BWH0811-MSD1	Toluene-d8	100	63.2	129	50.0	50.0	BWH0811	1.00

Surrogate Recoveries (Field Samples)

<u>LabNumber</u>	<u>Analyte</u>	<u>Result</u>	<u>SpkLvl</u>	<u>%Rec</u>	<u>LCL</u>	<u>UCL</u>	<u>Qualifier</u>
8260 Low Level Volatiles							
22H1255-03	Toluene-d8	10.3	10.0	103	63.2	129	
22H1255-03	4-Bromofluorobenzene	10.2	10.0	102	71.4	125	
22H1255-03	1,2-Dichloroethane-d4	10.3	10.0	103	64.2	126	
8260 Low Level Volatiles							
22H1255-07	Toluene-d8	10.2	10.0	102	63.2	129	
22H1255-07	4-Bromofluorobenzene	10.3	10.0	103	71.4	125	
22H1255-07	1,2-Dichloroethane-d4	10.2	10.0	102	64.2	126	

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

September 2022



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **9/23/22 11:20 @ -0.3 °C**
Date Reported: 10/6/2022
Project Name: **September Ground Water 2022**

Sample ID: **MW-11_09212022**

Matrix: **Water**

Lab ID: **22I2016-01**

Date Sampled: **9/21/22 10:30**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	68.1	mg/L	1.0	EPA 300.0	9/30/22	10/1/22	
Nitrate + Nitrite, Total, as N	2.65	mg/L	0.100	EPA 353.2	9/23/22	9/23/22	
Sulfate	1300	mg/L	20.0	EPA 300.0	10/4/22	10/4/22	
Total Dissolved Solids (TDS)	2280	mg/L	20	SM 2540 C	9/28/22	9/28/22	
Metals							
Manganese, Dissolved	0.212	mg/L	0.0100	EPA 200.8	9/29/22	9/29/22	



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Blanding, UT 84511

PO#: _____
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: September Ground Water 2022

Sample ID: MW-25_09202022

Matrix: Water

Lab ID: 22I2016-02

Date Sampled: 9/20/22 13:45

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Total Dissolved Solids (TDS)	2750	mg/L	20	SM 2540 C	9/27/22	9/27/22	

Certificate of Analysis

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PO#:
Receipt: **9/23/22 11:20 @ -0.3 °C**
Date Reported: 10/6/2022
Project Name: **September Ground Water 2022**

Sample ID: **MW-26_09202022**

Matrix: **Water**

Lab ID: **22I2016-03**

Date Sampled: **9/20/22 10:45**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	62.1	mg/L	1.0	EPA 300.0	9/30/22	10/1/22	
Nitrate + Nitrite, Total, as N	0.491	mg/L	0.100	EPA 353.2	9/23/22	9/23/22	
Volatile Organic Compounds							
Chloroform	810	ug/L	100	EPA 8260D /5030A	9/30/22	9/30/22	

Certificate of Analysis

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PO#: _____
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: **September Ground Water 2022**

Sample ID: **MW-30_09202022**

Matrix: **Water**

Lab ID: **22I2016-04**

Date Sampled: **9/20/22 10:00**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	182	mg/L	5.0	EPA 300.0	10/4/22	10/5/22	
Nitrate + Nitrite, Total, as N	16.5	mg/L	0.500	EPA 353.2	9/23/22	9/23/22	
Metals							
Selenium, Dissolved	0.0700	mg/L	0.0050	EPA 200.8	9/29/22	9/29/22	
Uranium, Dissolved	0.0083	mg/L	0.0003	EPA 200.8	9/29/22	9/29/22	

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PO#:
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: **September Ground Water 2022**

Sample ID: **MW-31_09202022**

Matrix: **Water**

Lab ID: **22I2016-05**

Date Sampled: **9/20/22 12:50**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	390	mg/L	5.0	EPA 300.0	10/4/22	10/5/22	
Nitrate + Nitrite, Total, as N	17.1	mg/L	0.500	EPA 353.2	9/23/22	9/23/22	
Sulfate	1200	mg/L	100	EPA 300.0	10/4/22	10/4/22	
Total Dissolved Solids (TDS)	2830	mg/L	20	SM 2540 C	9/27/22	9/27/22	
Metals							
Uranium, Dissolved	0.0188	mg/L	0.0003	EPA 200.8	9/29/22	9/29/22	



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PO#: _____
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: September Ground Water 2022

Sample ID: MW-65_09202022

Matrix: Water

Lab ID: 22I2016-06

Date Sampled: 9/20/22 13:45

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Total Dissolved Solids (TDS)	2640	mg/L	20	SM 2540 C	9/27/22	9/27/22	



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Tanner Holliday
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Blanding, UT 84511

PO#: _____
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: September Ground Water 2022

Sample ID: Trip Blank

Matrix: Water

Lab ID: 22I2016-07

Date Sampled: 9/22/22 11:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	9/30/22	9/30/22	



10/6/2022

Work Order: 2212016
Project: September Ground Water 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Melissa Connolly, Project Manager



Energy Fuels Resources, Inc.

Project: September Ground Water 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22I2016-01	MW-11_09212022
22I2016-02	MW-25_09202022
22I2016-03	MW-26_09202022
22I2016-04	MW-30_09202022
22I2016-05	MW-31_09202022
22I2016-06	MW-65_09202022
22I2016-07	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.



Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 9/23/22 11:20 @ -0.3 °C
Date Reported: 10/6/2022
Project Name: **September Ground Water 2022**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.



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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

AWAL Lab Sample Set #
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; kweinek@energyfuels.com;**
 Project Name: **September Ground Water 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:									
3		Standard													
Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO ₂ /NO ₃ (353.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	TDB (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Manganese (200.7/200.8)	SO ₄ (4500 or 300.0)	VOCs Chloroform (8260D)	Known Hazards & Sample Comments
1 MW-11_09212022	9/21/2022	1030	4	W	X	X	X					X	X		QC
MW-25_09202022	9/20/2022	1345	1	W				X							
3 MW-26_09202022	9/20/2022	1045	5	W	X	X							X		QC
4 MW-30_09202022	9/20/2022	1000	3	W	X	X			X	X					
5 MW-31_09202022	9/20/2022	1250	4	W	X	X	X	X					X		
6 MW-65_09202022	9/20/2022	1345	1	W				X							
7															
8															
9 Trip Blank	9/20/2022	1045	3	W									X		
10															
11															
12															
13															

X Include EDD:
LOCUS UPLOAD
EXCEL
 X Field Filtered For:
Dissolved Metals

For Compliance With:
 NELAP
 RCRA
 CWA
 SDWA
 ELAP / A2LA
 NLLAP
 Non-Compliance
 Other:

Laboratory Use Only

Samples Were:

- Shipped or hand delivered
- Ambient or Chilled
- Temperature -0.3 °C
- Received Broken/Leaking (Improperly Sealed)
Y N
- Properly Preserved
Y N
Checked at bench
Y N
- Received Within Holding Times
Y N

1 Broken on Outer Package
Y N NA

2 Unbroken on Outer Package
Y N NA

3 Present on Sample
Y N NA

4 Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N

Relinquished by: <i>Tanner Holliday</i> Signature	Date: <u>9/21/2022</u> 9/22/2022	Received by: <i>[Signature]</i> Signature	Date: <u>9/23/20</u> 11:20
Print Name: Tanner Holliday	Time: 1130	Print Name:	Time:
Relinquished by: _____ Signature	Date:	Received by: _____ Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: _____ Signature	Date:	Received by: _____ Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: _____ Signature	Date:	Received by: _____ Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:
 Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Work Order # 2272016

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD
LABORATORIES

Delivery Method:

- UPS USPS
 FedEx Chemtech Courier
 Walk-in Customer Courier

Receiving Temperature -0.3°C

12 187 440 397 149654

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
01	Ah							No lot
	Ap	1188						
	N	1216						
	M	1186						
02	Ah							No lot
03	Ap	1188						
	N	1216						
	W(3)	1203						
04	Ap	1188						
	N	1216						
	M	1186						
05	Ah							No lot
	Ap	1188						1188 & 1216
	N	1216						1216
	M	1186						1186
06	Ah							No lot
07	W(3)							No lot

Sample Condition (check if yes)
<input checked="" type="checkbox"/> Custody Seals
<input checked="" type="checkbox"/> Containers Intact
<input checked="" type="checkbox"/> CDC can be matched to bottles
<input checked="" type="checkbox"/> Received on Ice
<input checked="" type="checkbox"/> Correct Containers(s)
<input checked="" type="checkbox"/> Sufficient Sample Volume
<input type="checkbox"/> Headspace Present (VOC)
<input type="checkbox"/> Temperature Blank
<input checked="" type="checkbox"/> Received within Holding Time

Plastic Containers
A- Plastic Unpreserved
B- Miscellaneous Plastic
C- Cyanide Qt (NaOH)
E- Coliform/Ecoli/HPC
F- Sulfide Qt (Zn Acetate)
L- Mercury 1631
M- Metals Pint (HNO3)
N- Nutrient Pint (H2SO4)
R- Radiological (HNO3)
S- Sludge Cups/Tubs
Q- Plastic Bag

Glass Containers
D- 625 (Na2S2O3)
G- Glass Unpreserved
H- HAAs (NH4Cl)
J- 508/515/525 (Na2SO3)
K- 515.3 Herbicides
O- Oil & Grease (HCl)
P- Phenols (H2SO4)
T- TOC/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22I2016

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - EPA 200.8

QC Sample ID: BWI1505-BLK1	Batch: BWI1505						
Date Prepared: 09/29/2022	Date Analyzed: 09/29/2022		Units: mg/L				
Manganese, Dissolved			ND		0.0100	1.00	
Selenium, Dissolved			ND		0.0050	1.00	
Uranium, Dissolved			ND		0.0003	1.00	

LCS - EPA 200.8

QC Sample ID: BWI1505-BS1	Batch: BWI1505						
Date Prepared: 09/29/2022	Date Analyzed: 09/29/2022		Units: mg/L				
Manganese, Dissolved	100	85 - 115	0.040		0.0400	0.0005	1.00
Selenium, Dissolved	102	85 - 115	0.041		0.0400	0.0005	1.00
Uranium, Dissolved	101	85 - 115	0.041		0.0400	0.0003	1.00

Matrix Spike - EPA 200.8

QC Sample ID: BWI1505-MS1	Batch: BWI1505	QC Source Sample: XXXXXXXX-XX					
Date Prepared: 09/29/2022	Date Analyzed: 09/29/2022	Units: mg/L					
Manganese, Dissolved	104	70 - 130	0.055	0.013	0.0400	0.0005	1.00
Selenium, Dissolved	106	70 - 130	0.043	0.0002	0.0400	0.0005	1.00
Uranium, Dissolved	73.2	70 - 130	0.029	ND	0.0400	0.0003	1.00

QC Sample ID: BWI1505-MS2	Batch: BWI1505	QC Source Sample: XXXXXXXX-XX					
Date Prepared: 09/29/2022	Date Analyzed: 09/29/2022	Units: mg/L					
Manganese, Dissolved	98.9	70 - 130	0.040	ND	0.0400	0.0005	1.00
Selenium, Dissolved	105	70 - 130	0.045	0.003	0.0400	0.0005	1.00
Uranium, Dissolved	109	70 - 130	0.044	0.0001	0.0400	0.0003	1.00

QC Sample ID: BWI1505-MS3	Batch: BWI1505	QC Source Sample: 22I2016-01					
Date Prepared: 09/29/2022	Date Analyzed: 09/29/2022	Units: mg/L					
Manganese, Dissolved	95.0	70 - 130	0.250	0.212	0.0400	0.0005	1.00
Selenium, Dissolved	108	70 - 130	0.059	0.016	0.0400	0.0005	1.00
Uranium, Dissolved	92.5	70 - 130	0.039	0.002	0.0400	0.0003	1.00

QC Report for Work Order (WO) - 22I2016

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BWI1594-BLK1	Batch: BWI1594								
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022								
Chloride					ND			1.0	1.00
Units:	mg/L								
QC Sample ID: BWJ0073-BLK1	Batch: BWJ0073								
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022								
Sulfate					ND			1.0	1.00
Units:	mg/L								
QC Sample ID: BWJ0135-BLK1	Batch: BWJ0135								
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022								
Chloride					ND			1.0	1.00
Units:	mg/L								
LCS - EPA 300.0									
QC Sample ID: BWI1594-BS1	Batch: BWI1594								
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022								
Chloride	96.1		90 - 110		48.1		50.0	1.0	1.00
Units:	mg/L								
QC Sample ID: BWJ0073-BS1	Batch: BWJ0073								
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022								
Sulfate	99.1		90 - 110		49.5		50.0	1.0	1.00
Units:	mg/L								
QC Sample ID: BWJ0135-BS1	Batch: BWJ0135								
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022								
Chloride	97.6		90 - 110		48.8		50.0	1.0	1.00
Units:	mg/L								
Matrix Spike - EPA 300.0									
QC Sample ID: BWI1594-MS1	Batch: BWI1594		QC Source Sample: 22I2016-01						
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022								
Chloride	74.7		80 - 120		76.4	68.1	11.1	1.1	1.00
Units:	mg/L								
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
QC Sample ID: BWI1594-MS2	Batch: BWI1594		QC Source Sample: 22I2016-03						
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022								
Chloride	92.7		80 - 120		72.4	62.1	11.1	1.1	1.00
Units:	mg/L								
QC Sample ID: BWJ0073-MS1	Batch: BWJ0073		QC Source Sample: 22I2016-01						
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022								
Sulfate	68.6		80 - 120		1440	1300	200	22.0	1.00
Units:	mg/L								
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
QC Sample ID: BWJ0073-MS2	Batch: BWJ0073		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022								
Sulfate	-1850		80 - 120		ND	185	10.0	1.0	1.00
Units:	mg/L								
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).									
QC Sample ID: BWJ0135-MS1	Batch: BWJ0135		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022								
Chloride	99.7		80 - 120		36.3	25.2	11.1	1.1	1.00
Units:	mg/L								
QC Sample ID: BWJ0135-MS2	Batch: BWJ0135		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022								
Chloride	97.6		80 - 120		45.4	34.5	11.1	1.1	1.00
Units:	mg/L								

QC Report for Work Order (WO) - 22I2016

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BWI1594-MSD1	Batch: BWI1594		QC Source Sample: 22I2016-01						
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022		Units: mg/L						
Chloride	89.2	2.09	80 - 120	20	78.0	68.1	11.1	1.1	1.00
QC Sample ID: BWI1594-MSD2	Batch: BWI1594		QC Source Sample: 22I2016-03						
Date Prepared: 09/30/2022	Date Analyzed: 10/01/2022		Units: mg/L						
Chloride	93.3	0.105	80 - 120	20	72.4	62.1	11.1	1.1	1.00
QC Sample ID: BWJ0073-MSD1	Batch: BWJ0073		QC Source Sample: 22I2016-01						
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022		Units: mg/L						
Sulfate	60.6	1.12	80 - 120	20	1420	1300	200	22.0	1.00
<p>QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.</p>									
QC Sample ID: BWJ0073-MSD2	Batch: BWJ0073		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/04/2022		Units: mg/L						
Sulfate	-1850		80 - 120	20	ND	185	10.0	1.0	1.00
<p>QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.</p> <p>E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).</p>									
QC Sample ID: BWJ0135-MSD1	Batch: BWJ0135		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022		Units: mg/L						
Chloride	101	0.378	80 - 120	20	36.4	25.2	11.1	1.1	1.00
QC Sample ID: BWJ0135-MSD2	Batch: BWJ0135		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 10/04/2022	Date Analyzed: 10/05/2022		Units: mg/L						
Chloride	99.1	0.367	80 - 120	20	45.6	34.5	11.1	1.1	1.00

QC Report for Work Order (WO) - 22I2016

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWI1260-BLK1	Batch: BWI1260								
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BWI1260-BS1	Batch: BWI1260								
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N	98.5		80 - 120		1.97		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWI1260-MS1	Batch: BWI1260		QC Source Sample: 22I2016-01						
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N	99.4		80 - 120		3.65	2.65	1.00	0.100	1.00
QC Sample ID: BWI1260-MS2	Batch: BWI1260		QC Source Sample: 22I2016-03						
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N	91.8		80 - 120		1.41	0.491	1.00	0.100	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWI1260-MSD1	Batch: BWI1260		QC Source Sample: 22I2016-01						
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N	84.5	4.17	80 - 120	20	3.50	2.65	1.00	0.100	1.00
QC Sample ID: BWI1260-MSD2	Batch: BWI1260		QC Source Sample: 22I2016-03						
Date Prepared: 09/23/2022	Date Analyzed: 09/23/2022			Units: mg/L					
Nitrate + Nitrite, Total, as N	90.4	0.999	80 - 120	20	1.40	0.491	1.00	0.100	1.00

QC Report for Work Order (WO) - 22I2016

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BWJ0002-BLK1	Batch: BWJ0002								
Date Prepared: 09/30/2022	Date Analyzed: 09/30/2022			Units: ug/L					
Acetone					ND			20.0	1.00
Benzene					ND			1.0	1.00
Carbon Tetrachloride					ND			1.0	1.00
Chloroform					ND			1.0	1.00
Chloromethane					ND			1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Methyl Ethyl Ketone					ND			20.0	1.00
Methylene Chloride					ND			1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Naphthalene					ND			1.0	1.00
Tetrahydrofuran					ND			1.0	1.00
Toluene					ND			1.0	1.00
Xylenes, total					ND			1.0	1.00

LCS - EPA 8260D /5030A

QC Sample ID: BWJ0002-BS1	Batch: BWJ0002									
Date Prepared: 09/30/2022	Date Analyzed: 09/30/2022			Units: ug/L						
Chloroform	83.8		70 - 130		8.38			10.0	1.0	1.00

Matrix Spike - EPA 8260D /5030A

QC Sample ID: BWJ0002-MS1	Batch: BWJ0002		QC Source Sample: 22I2016-03							
Date Prepared: 09/30/2022	Date Analyzed: 09/30/2022			Units: ug/L						
Chloroform	-6790		70 - 130		131	810		10.0	1.0	1.00

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Matrix Spike Dup - EPA 8260D /5030A

QC Sample ID: BWJ0002-MSD1	Batch: BWJ0002		QC Source Sample: 22I2016-03							
Date Prepared: 09/30/2022	Date Analyzed: 09/30/2022			Units: ug/L						
Chloroform	-6810	-0.279	70 - 130	20	129	810		10.0	1.0	1.00

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

QC Report for Work Order (WO) - 22I2016

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - SM 2540 C

QC Sample ID: BWI1280-BLK1	Batch: BWI1280								
Date Prepared: 09/28/2022	Date Analyzed: 09/28/2022				Units: mg/L				
Total Dissolved Solids (TDS)				ND			20		1.00

Duplicate - SM 2540 C

QC Sample ID: BWI1280-DUP1	Batch: BWI1280	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 09/28/2022	Date Analyzed: 09/28/2022				Units: mg/L				
Total Dissolved Solids (TDS)	0.8	10	948	940			20		1.00

QC Sample ID: BWI1280-DUP2	Batch: BWI1280	QC Source Sample: 22I2016-01							
Date Prepared: 09/28/2022	Date Analyzed: 09/28/2022				Units: mg/L				
Total Dissolved Solids (TDS)	0.4	10	2270	2280			20		1.00

LCS - SM 2540 C

QC Sample ID: BWI1280-BS1	Batch: BWI1280								
Date Prepared: 09/28/2022	Date Analyzed: 09/28/2022				Units: mg/L				
Total Dissolved Solids (TDS)	99	90 - 110	396				400	20	1.00

Surrogates Report for Work Order (WO) - 22I2016

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BWJ0002-BLK1	1,2-Dichloroethane-d4	110	64.2	126	11.0	10.0	BWJ0002	1.00
BWJ0002-BLK1	4-Bromofluorobenzene	99.7	71.4	125	9.97	10.0	BWJ0002	1.00
BWJ0002-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWJ0002	1.00
LCS - EPA 8260D /5030A								
BWJ0002-BS1	1,2-Dichloroethane-d4	108	64.2	126	10.8	10.0	BWJ0002	1.00
BWJ0002-BS1	4-Bromofluorobenzene	99.5	71.4	125	9.95	10.0	BWJ0002	1.00
BWJ0002-BS1	Toluene-d8	99.5	63.2	129	9.95	10.0	BWJ0002	1.00
Matrix Spike - EPA 8260D /5030A								
BWJ0002-MS1	1,2-Dichloroethane-d4	107	64.2	126	10.7	10.0	BWJ0002	1.00
BWJ0002-MS1	4-Bromofluorobenzene	98.6	71.4	125	9.86	10.0	BWJ0002	1.00
BWJ0002-MS1	Toluene-d8	100	63.2	129	10.0	10.0	BWJ0002	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BWJ0002-MSD1	1,2-Dichloroethane-d4	108	64.2	126	10.8	10.0	BWJ0002	1.00
BWJ0002-MSD1	4-Bromofluorobenzene	98.8	71.4	125	9.88	10.0	BWJ0002	1.00
BWJ0002-MSD1	Toluene-d8	100	63.2	129	10.0	10.0	BWJ0002	1.00

Surrogate Recoveries (Field Samples)

<u>LabNumber</u>	<u>Analyte</u>	<u>Result</u>	<u>SpkLvl</u>	<u>%Rec</u>	<u>LCL</u>	<u>UCL</u>	<u>Qualifier</u>
8260 Low Level Volatiles							
22I2016-03	Toluene-d8	10.0	10.0	100	63.2	129	
22I2016-03	4-Bromofluorobenzene	10.1	10.0	101	71.4	125	
22I2016-03	1,2-Dichloroethane-d4	10.5	10.0	105	64.2	126	
8260 Low Level Volatiles							
22I2016-07	Toluene-d8	10.0	10.0	100	63.2	129	
22I2016-07	4-Bromofluorobenzene	10.0	10.0	100	71.4	125	
22I2016-07	1,2-Dichloroethane-d4	9.76	10.0	97.6	64.2	126	

Tab G

Quality Assurance and Data Validation Tables

G-1A: Quarterly Field QA/QC Evaluation

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
MW-11	29.18	58.59	58.36	okay	3190	3184	0.19	7.53	7.52	0.13	15.12	15.10	0.13	350	347	0.86	107.0	110.0	2.76	4.0	4.2	4.88
MW-12	13.60	28.21	27.2	okay	4165	4163	0.05	6.87	6.87	0.00	15.72	15.73	0.06	252	253	0.40	0	0	0.00	31.0	31.4	1.28
MW-14	17.61	39.06	35.22	okay	3898	3894	0.10	6.72	6.72	0.00	14.38	15.30	6.20	324	324	0.00	1.4	1.5	6.90	1.1	1.1	0.00
MW-24	6.85	14.00	13.7	Pumped Dry	4475	4477	0.04	4.88	4.89	0.20	16.50	16.38	0.73	NM	NC		NM	NC	NM	NC	NC	
MW-24	6.94	14.40	13.88	Pumped Dry	4476	4483	0.16	4.78	4.80	0.42	16.20	16.15	0.31	NM	NC		NM	NC	NM	NC	NC	
MW-24A	7.45	15.36	14.9	Pumped Dry	4431	4446	0.34	4.88	4.90	0.41	15.75	15.70	0.32	NM	NC		NM	NC	NM	NC	NC	
MW-25	21.53	45.57	43.06	okay	3185	3190	0.16	6.99	6.98	0.14	15.25	15.16	0.59	361	361	0.00	2.1	2.0	4.88	4.5	4.6	2.20
MW-26	NA	Continuously Pumped well	--	--	3469		NC	7.20		NC	16.50		NC	317		NC	0		NC	41.4		NC
MW-27	23.73	49.91	47.46	okay	1220	1202	1.49	7.69	7.69	0.00	15.70	15.67	0.19	314	314	0.00	0	0	0.00	97.0	97.3	0.31
MW-28	23.08	46.65	46.16	okay	4239	4230	0.21	6.71	6.70	0.15	15.85	15.79	0.38	296	295	0.34	2.0	2.0	0.00	34.9	34.5	1.15
MW-29	18.27	39.06	36.54	okay	4501	4540	0.86	6.65	6.64	0.15	15.75	15.65	0.64	222	221	0.45	14.0	13.0	7.41	1.2	1.1	8.70
MW-30	22.60	45.57	45.2	okay	2238	2237	0.04	7.33	7.33	0.00	15.06	15.00	0.40	365	364	0.27	0	0	0.00	52.0	52.5	0.96
MW-31	39.40	79.20	78.8	okay	3418	3440	0.64	7.30	7.28	0.27	15.45	15.43	0.13	338	337	0.30	0	0	0.00	115.0	115.0	0.00
MW-32	31.14	65.10	62.28	okay	3724	3722	0.05	6.67	6.65	0.30	15.44	15.43	0.06	216	216	0.00	5.2	5.2	0.00	6.9	6.8	1.46
MW-36	7.21	15.19	14.42	okay	4763	4841	1.62	7.12	7.11	0.14	15.70	15.74	0.25	351	350	0.29	1.0	1.0	0.00	81.0	83.0	2.44
MW-38	2.73	5.00	5.46	Pumped Dry	4300	4297	0.07	6.70	6.71	0.15	16.50	16.40	0.61	NM	NC		NM	NC	NM	NC	NC	
MW-39	24.78	49.91	49.56	okay	4810	4811	0.02	4.30	4.28	0.47	15.35	15.34	0.07	422	434	2.80	0	0	0.00	4.0	4.0	0.00
MW-40	26.21	53.16	52.42	okay	3880	3890	0.26	7.18	7.17	0.14	15.25	15.23	0.13	256	259	1.17	0	0	0.00	106.3	106.7	0.38

MW-26 is a continually pumped well.

MW-24, MW-24A, MW-38 were pumped dry and sampled after recovery.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

RPD = Relative Percent Difference

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

G-1B: Accelerated Field QA/QC Evaluation

August																						
Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
MW-11	29.15	58.59	58.3	okay	3060	3059	0.03	7.61	7.61	0.00	15.10	15.19	0.59	308	307	0.33	126.0	127.0	0.79	4.0	3.9	2.53
MW-25	21.53	45.57	43.06	okay	3145	3149	0.13	7.07	7.06	0.14	15.72	15.70	0.13	313	313	0.00	1.0	1.0	0.00	3.4	3.4	0.00
MW-26	NA	Continuously Pumped well	--		3462		NC	7.02		NC	18.20		NC	254		NC	2.0		NC	35.0		NC
MW-30	22.59	45.57	45.18	okay	2234	2230	0.18	7.34	7.33	0.14	15.49	15.48	0.06	306	306	0.00	0	0	0.00	54.0	54.0	0.00
MW-31	39.37	80.29	78.74	okay	3436	3437	0.03	7.36	7.35	0.14	15.43	15.44	0.06	293	293	0.00	1.9	1.8	5.41	114.3	114.5	0.17
September																						
MW-11	29.20	58.59	58.4	okay	3051	3067	0.52	7.05	7.08	0.42	14.70	14.73	0.20	417	416	0.24	2.0	2.1	4.88	1.0	1.0	0.00
MW-25	21.53	45.57	43.06	okay	3170	3171	0.03	6.61	6.62	0.15	15.12	15.07	0.33	334	334	0.00	0	0	0.00	4.1	4.1	0.00
MW-26	NA	Continuously Pumped well	--		3536		NC	6.69		NC	16.11		NC	373		NC	0		NC	28.4		NC
MW-30	22.65	45.57	45.3	okay	2250	2249	0.04	6.80	6.81	0.15	14.82	14.80	0.14	414	413	0.24	0	0	0.00	53.9	54.0	0.19
MW-31	39.44	80.29	78.88	okay	3422	3428	0.18	6.66	6.70	0.60	15.23	15.21	0.13	331	330	0.30	0	0	0.00	111.9	111.5	0.36

MW-26, is a continually pumped well.

There are no wells that were pumped dry and sampled after recovery.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

RPD = Relative Percent Difference

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Acetone	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Benzene	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Carbon Tetrachloride	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Chloroform	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Chloromethane	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Methyl Ethyl Ketone	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Methylene Chloride	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Naphthalene	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Tetrahydrofuran	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Toluene	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Xylenes, total	7/12/2022	7/18/2022	6	14	OK
Trip Blank	Acetone	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Benzene	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Carbon Tetrachloride	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Chloroform	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Chloromethane	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Methyl Ethyl Ketone	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Methylene Chloride	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Naphthalene	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Tetrahydrofuran	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Toluene	7/19/2022	7/30/2022	11	14	OK
Trip Blank	Xylenes, total	7/19/2022	7/30/2022	11	14	OK
MW-11	Acetone	7/12/2022	7/18/2022	6	14	OK
MW-11	Arsenic	7/12/2022	7/29/2022	17	180	OK
MW-11	Benzene	7/12/2022	7/18/2022	6	14	OK
MW-11	Beryllium	7/12/2022	7/29/2022	17	180	OK
MW-11	Bicarbonate as CaCO3	7/12/2022	7/19/2022	7	14	OK
MW-11	Cadmium	7/12/2022	7/29/2022	17	180	OK
MW-11	Calcium	7/12/2022	7/28/2022	16	180	OK
MW-11	Carbon Tetrachloride	7/12/2022	7/18/2022	6	14	OK
MW-11	Carbonate as CO3	7/12/2022	7/19/2022	7	14	OK
MW-11	Chloride	7/12/2022	7/16/2022	4	28	OK
MW-11	Chloroform	7/12/2022	7/18/2022	6	14	OK
MW-11	Chloromethane	7/12/2022	7/18/2022	6	14	OK
MW-11	Chromium	7/12/2022	7/29/2022	17	180	OK
MW-11	Cobalt	7/12/2022	7/29/2022	17	180	OK
MW-11	Copper	7/12/2022	7/29/2022	17	180	OK
MW-11	Fluoride	7/12/2022	7/16/2022	4	28	OK
MW-11	Gross Radium Alpha	7/12/2022	8/19/2022	38	180	OK
MW-11	Iron	7/12/2022	7/28/2022	16	180	OK
MW-11	Lead	7/12/2022	7/29/2022	17	180	OK
MW-11	Magnesium	7/12/2022	7/28/2022	16	180	OK
MW-11	Manganese	7/12/2022	7/29/2022	17	180	OK
MW-11	Mercury	7/12/2022	7/21/2022	9	180	OK
MW-11	Methyl Ethyl Ketone	7/12/2022	7/18/2022	6	14	OK
MW-11	Methylene Chloride	7/12/2022	7/18/2022	6	14	OK
MW-11	Molybdenum	7/12/2022	7/29/2022	17	180	OK
MW-11	Naphthalene	7/12/2022	7/18/2022	6	14	OK
MW-11	Nickel	7/12/2022	7/29/2022	17	180	OK
MW-11	Nitrate + Nitrite as N	7/12/2022	7/27/2022	15	28	OK
MW-11	Nitrogen, Ammonia as N	7/12/2022	7/26/2022	14	28	OK
MW-11	Potassium	7/12/2022	7/28/2022	16	180	OK
MW-11	Selenium	7/12/2022	7/29/2022	17	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-11	Silver	7/12/2022	7/29/2022	17	180	OK
MW-11	Sodium	7/12/2022	7/28/2022	16	180	OK
MW-11	Sulfate	7/12/2022	8/1/2022	20	28	OK
MW-11	Tetrahydrofuran	7/12/2022	7/18/2022	6	14	OK
MW-11	Thallium	7/12/2022	7/29/2022	17	180	OK
MW-11	Tin	7/12/2022	7/28/2022	16	180	OK
MW-11	Toluene	7/12/2022	7/18/2022	6	14	OK
MW-11	Total Dissolved Solids	7/12/2022	7/18/2022	6	7	OK
MW-11	Uranium	7/12/2022	7/29/2022	17	180	OK
MW-11	Vanadium	7/12/2022	7/29/2022	17	180	OK
MW-11	Xylenes, total	7/12/2022	7/18/2022	6	14	OK
MW-11	Zinc	7/12/2022	7/29/2022	17	180	OK
MW-12	Selenium	7/14/2022	8/1/2022	18	180	OK
MW-12	Uranium	7/14/2022	8/1/2022	18	180	OK
MW-14	Acetone	7/13/2022	7/18/2022	5	14	OK
MW-14	Arsenic	7/13/2022	7/29/2022	16	180	OK
MW-14	Benzene	7/13/2022	7/18/2022	5	14	OK
MW-14	Beryllium	7/13/2022	7/29/2022	16	180	OK
MW-14	Bicarbonate as CaCO3	7/13/2022	7/19/2022	6	14	OK
MW-14	Cadmium	7/13/2022	7/29/2022	16	180	OK
MW-14	Calcium	7/13/2022	7/28/2022	15	180	OK
MW-14	Carbon Tetrachloride	7/13/2022	7/18/2022	5	14	OK
MW-14	Carbonate as CO3	7/13/2022	7/19/2022	6	14	OK
MW-14	Chloride	7/13/2022	7/16/2022	3	28	OK
MW-14	Chloroform	7/13/2022	7/18/2022	5	14	OK
MW-14	Chloromethane	7/13/2022	7/18/2022	5	14	OK
MW-14	Chromium	7/13/2022	7/29/2022	16	180	OK
MW-14	Cobalt	7/13/2022	7/29/2022	16	180	OK
MW-14	Copper	7/13/2022	7/29/2022	16	180	OK
MW-14	Fluoride	7/13/2022	7/16/2022	3	28	OK
MW-14	Gross Radium Alpha	7/13/2022	8/17/2022	35	180	OK
MW-14	Iron	7/13/2022	7/28/2022	15	180	OK
MW-14	Lead	7/13/2022	7/29/2022	16	180	OK
MW-14	Magnesium	7/13/2022	7/28/2022	15	180	OK
MW-14	Manganese	7/13/2022	7/29/2022	16	180	OK
MW-14	Mercury	7/13/2022	7/21/2022	8	180	OK
MW-14	Methyl Ethyl Ketone	7/13/2022	7/18/2022	5	14	OK
MW-14	Methylene Chloride	7/13/2022	7/18/2022	5	14	OK
MW-14	Molybdenum	7/13/2022	7/29/2022	16	180	OK
MW-14	Naphthalene	7/13/2022	7/18/2022	5	14	OK
MW-14	Nickel	7/13/2022	7/29/2022	16	180	OK
MW-14	Nitrate + Nitrite as N	7/13/2022	7/26/2022	13	28	OK
MW-14	Nitrogen, Ammonia as N	7/13/2022	7/26/2022	13	28	OK
MW-14	Potassium	7/13/2022	7/28/2022	15	180	OK
MW-14	Selenium	7/13/2022	7/29/2022	16	180	OK
MW-14	Silver	7/13/2022	7/29/2022	16	180	OK
MW-14	Sodium	7/13/2022	7/28/2022	15	180	OK
MW-14	Sulfate	7/13/2022	8/1/2022	19	28	OK
MW-14	Tetrahydrofuran	7/13/2022	7/18/2022	5	14	OK
MW-14	Thallium	7/13/2022	7/29/2022	16	180	OK
MW-14	Tin	7/13/2022	7/28/2022	15	180	OK
MW-14	Toluene	7/13/2022	7/18/2022	5	14	OK
MW-14	Total Dissolved Solids	7/13/2022	7/18/2022	5	7	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-14	Uranium	7/13/2022	7/29/2022	16	180	OK
MW-14	Vanadium	7/13/2022	7/29/2022	16	180	OK
MW-14	Xylenes, total	7/13/2022	7/18/2022	5	14	OK
MW-14	Zinc	7/13/2022	7/29/2022	16	180	OK
MW-24	Acetone	7/20/2022	7/29/2022	9	14	OK
MW-24	Arsenic	7/20/2022	8/1/2022	12	180	OK
MW-24	Benzene	7/20/2022	7/29/2022	9	14	OK
MW-24	Beryllium	7/20/2022	8/1/2022	12	180	OK
MW-24	Bicarbonate as CaCO3	7/20/2022	7/22/2022	2	14	OK
MW-24	Cadmium	7/20/2022	8/1/2022	12	180	OK
MW-24	Calcium	7/20/2022	8/11/2022	22	180	OK
MW-24	Carbon Tetrachloride	7/20/2022	7/29/2022	9	14	OK
MW-24	Carbonate as CO3	7/20/2022	7/22/2022	2	14	OK
MW-24	Chloride	7/20/2022	7/22/2022	2	28	OK
MW-24	Chloroform	7/20/2022	7/29/2022	9	14	OK
MW-24	Chloromethane	7/20/2022	7/29/2022	9	14	OK
MW-24	Chromium	7/20/2022	8/1/2022	12	180	OK
MW-24	Cobalt	7/20/2022	8/1/2022	12	180	OK
MW-24	Copper	7/20/2022	8/1/2022	12	180	OK
MW-24	Fluoride	7/20/2022	7/22/2022	2	28	OK
MW-24	Iron	7/20/2022	8/3/2022	14	180	OK
MW-24	Lead	7/20/2022	8/1/2022	12	180	OK
MW-24	Magnesium	7/20/2022	8/3/2022	14	180	OK
MW-24	Manganese	7/20/2022	8/1/2022	12	180	OK
MW-24	Mercury	7/20/2022	7/27/2022	7	180	OK
MW-24	Methyl Ethyl Ketone	7/20/2022	7/29/2022	9	14	OK
MW-24	Methylene Chloride	7/20/2022	7/29/2022	9	14	OK
MW-24	Molybdenum	7/20/2022	8/1/2022	12	180	OK
MW-24	Naphthalene	7/20/2022	7/29/2022	9	14	OK
MW-24	Nickel	7/20/2022	8/1/2022	12	180	OK
MW-24	Nitrate + Nitrite as N	7/20/2022	7/29/2022	9	28	OK
MW-24	Nitrogen, Ammonia as N	7/20/2022	7/26/2022	6	28	OK
MW-24	Potassium	7/20/2022	8/3/2022	14	180	OK
MW-24	Selenium	7/20/2022	8/1/2022	12	180	OK
MW-24	Silver	7/20/2022	8/1/2022	12	180	OK
MW-24	Sodium	7/20/2022	8/11/2022	22	180	OK
MW-24	Sulfate	7/20/2022	7/22/2022	2	28	OK
MW-24	Tetrahydrofuran	7/20/2022	7/29/2022	9	14	OK
MW-24	Thallium	7/20/2022	8/1/2022	12	180	OK
MW-24	Tin	7/20/2022	8/3/2022	14	180	OK
MW-24	Toluene	7/20/2022	7/29/2022	9	14	OK
MW-24	Total Dissolved Solids	7/20/2022	7/22/2022	2	7	OK
MW-24	Uranium	7/20/2022	8/1/2022	12	180	OK
MW-24	Vanadium	7/20/2022	8/1/2022	12	180	OK
MW-24	Xylenes, total	7/20/2022	7/29/2022	9	14	OK
MW-24	Zinc	7/20/2022	8/1/2022	12	180	OK
MW-24	Gross Radium Alpha	7/28/2022	8/19/2022	22	180	OK
MW-24A	Acetone	7/19/2022	7/29/2022	10	14	OK
MW-24A	Arsenic	7/19/2022	8/1/2022	13	180	OK
MW-24A	Benzene	7/19/2022	7/29/2022	10	14	OK
MW-24A	Beryllium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Bicarbonate as CaCO3	7/19/2022	7/22/2022	3	14	OK
MW-24A	Cadmium	7/19/2022	8/1/2022	13	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-24A	Calcium	7/19/2022	8/11/2022	23	180	OK
MW-24A	Carbon Tetrachloride	7/19/2022	7/29/2022	10	14	OK
MW-24A	Carbonate as CO3	7/19/2022	7/22/2022	3	14	OK
MW-24A	Chloride	7/19/2022	7/22/2022	3	28	OK
MW-24A	Chloroform	7/19/2022	7/29/2022	10	14	OK
MW-24A	Chloromethane	7/19/2022	7/29/2022	10	14	OK
MW-24A	Chromium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Cobalt	7/19/2022	8/1/2022	13	180	OK
MW-24A	Copper	7/19/2022	8/1/2022	13	180	OK
MW-24A	Fluoride	7/19/2022	7/22/2022	3	28	OK
MW-24A	Gross Radium Alpha	7/19/2022	8/17/2022	29	180	OK
MW-24A	Iron	7/19/2022	8/3/2022	15	180	OK
MW-24A	Lead	7/19/2022	8/1/2022	13	180	OK
MW-24A	Magnesium	7/19/2022	8/3/2022	15	180	OK
MW-24A	Manganese	7/19/2022	8/1/2022	13	180	OK
MW-24A	Mercury	7/19/2022	7/27/2022	8	180	OK
MW-24A	Methyl Ethyl Ketone	7/19/2022	7/29/2022	10	14	OK
MW-24A	Methylene Chloride	7/19/2022	7/29/2022	10	14	OK
MW-24A	Molybdenum	7/19/2022	8/1/2022	13	180	OK
MW-24A	Naphthalene	7/19/2022	7/29/2022	10	14	OK
MW-24A	Nickel	7/19/2022	8/1/2022	13	180	OK
MW-24A	Nitrate + Nitrite as N	7/19/2022	7/29/2022	10	28	OK
MW-24A	Nitrogen, Ammonia as N	7/19/2022	7/26/2022	7	28	OK
MW-24A	Potassium	7/19/2022	8/3/2022	15	180	OK
MW-24A	Selenium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Silver	7/19/2022	8/1/2022	13	180	OK
MW-24A	Sodium	7/19/2022	8/11/2022	23	180	OK
MW-24A	Sulfate	7/19/2022	7/22/2022	3	28	OK
MW-24A	Tetrahydrofuran	7/19/2022	7/29/2022	10	14	OK
MW-24A	Thallium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Tin	7/19/2022	8/3/2022	15	180	OK
MW-24A	Toluene	7/19/2022	7/29/2022	10	14	OK
MW-24A	Total Dissolved Solids	7/19/2022	7/22/2022	3	7	OK
MW-24A	Uranium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Vanadium	7/19/2022	8/1/2022	13	180	OK
MW-24A	Xylenes, total	7/19/2022	7/29/2022	10	14	OK
MW-24A	Zinc	7/19/2022	8/1/2022	13	180	OK
MW-25	Acetone	7/13/2022	7/18/2022	5	14	OK
MW-25	Arsenic	7/13/2022	7/29/2022	16	180	OK
MW-25	Benzene	7/13/2022	7/18/2022	5	14	OK
MW-25	Beryllium	7/13/2022	7/29/2022	16	180	OK
MW-25	Bicarbonate as CaCO3	7/13/2022	7/19/2022	6	14	OK
MW-25	Cadmium	7/13/2022	7/29/2022	16	180	OK
MW-25	Calcium	7/13/2022	7/28/2022	15	180	OK
MW-25	Carbon Tetrachloride	7/13/2022	7/18/2022	5	14	OK
MW-25	Carbonate as CO3	7/13/2022	7/19/2022	6	14	OK
MW-25	Chloride	7/13/2022	7/16/2022	3	28	OK
MW-25	Chloroform	7/13/2022	7/18/2022	5	14	OK
MW-25	Chloromethane	7/13/2022	7/18/2022	5	14	OK
MW-25	Chromium	7/13/2022	7/29/2022	16	180	OK
MW-25	Cobalt	7/13/2022	7/29/2022	16	180	OK
MW-25	Copper	7/13/2022	7/29/2022	16	180	OK
MW-25	Fluoride	7/13/2022	7/16/2022	3	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Gross Radium Alpha	7/13/2022	8/19/2022	37	180	OK
MW-25	Iron	7/13/2022	7/28/2022	15	180	OK
MW-25	Lead	7/13/2022	7/29/2022	16	180	OK
MW-25	Magnesium	7/13/2022	7/28/2022	15	180	OK
MW-25	Manganese	7/13/2022	7/29/2022	16	180	OK
MW-25	Mercury	7/13/2022	7/21/2022	8	180	OK
MW-25	Methyl Ethyl Ketone	7/13/2022	7/18/2022	5	14	OK
MW-25	Methylene Chloride	7/13/2022	7/18/2022	5	14	OK
MW-25	Molybdenum	7/13/2022	7/29/2022	16	180	OK
MW-25	Naphthalene	7/13/2022	7/18/2022	5	14	OK
MW-25	Nickel	7/13/2022	7/29/2022	16	180	OK
MW-25	Nitrate + Nitrite as N	7/13/2022	7/26/2022	13	28	OK
MW-25	Nitrogen, Ammonia as N	7/13/2022	7/26/2022	13	28	OK
MW-25	Potassium	7/13/2022	7/28/2022	15	180	OK
MW-25	Selenium	7/13/2022	7/29/2022	16	180	OK
MW-25	Silver	7/13/2022	7/29/2022	16	180	OK
MW-25	Sodium	7/13/2022	7/28/2022	15	180	OK
MW-25	Sulfate	7/13/2022	8/1/2022	19	28	OK
MW-25	Tetrahydrofuran	7/13/2022	7/18/2022	5	14	OK
MW-25	Thallium	7/13/2022	7/29/2022	16	180	OK
MW-25	Tin	7/13/2022	7/28/2022	15	180	OK
MW-25	Toluene	7/13/2022	7/18/2022	5	14	OK
MW-25	Total Dissolved Solids	7/13/2022	7/18/2022	5	7	OK
MW-25	Uranium	7/13/2022	7/29/2022	16	180	OK
MW-25	Vanadium	7/13/2022	7/29/2022	16	180	OK
MW-25	Xylenes, total	7/13/2022	7/18/2022	5	14	OK
MW-25	Zinc	7/13/2022	7/29/2022	16	180	OK
MW-26	Acetone	7/14/2022	7/18/2022	4	14	OK
MW-26	Arsenic	7/14/2022	7/29/2022	15	180	OK
MW-26	Benzene	7/14/2022	7/18/2022	4	14	OK
MW-26	Beryllium	7/14/2022	7/29/2022	15	180	OK
MW-26	Bicarbonate as CaCO3	7/14/2022	7/20/2022	6	14	OK
MW-26	Cadmium	7/14/2022	7/29/2022	15	180	OK
MW-26	Calcium	7/14/2022	7/28/2022	14	180	OK
MW-26	Carbon Tetrachloride	7/14/2022	7/18/2022	4	14	OK
MW-26	Carbonate as CO3	7/14/2022	7/20/2022	6	14	OK
MW-26	Chloride	7/14/2022	7/19/2022	5	28	OK
MW-26	Chloroform	7/14/2022	7/18/2022	4	14	OK
MW-26	Chloromethane	7/14/2022	7/18/2022	4	14	OK
MW-26	Chromium	7/14/2022	7/29/2022	15	180	OK
MW-26	Cobalt	7/14/2022	7/29/2022	15	180	OK
MW-26	Copper	7/14/2022	7/29/2022	15	180	OK
MW-26	Fluoride	7/14/2022	7/19/2022	5	28	OK
MW-26	Gross Radium Alpha	7/14/2022	8/17/2022	34	180	OK
MW-26	Iron	7/14/2022	7/28/2022	14	180	OK
MW-26	Lead	7/14/2022	7/29/2022	15	180	OK
MW-26	Magnesium	7/14/2022	7/28/2022	14	180	OK
MW-26	Manganese	7/14/2022	7/29/2022	15	180	OK
MW-26	Mercury	7/14/2022	7/21/2022	7	180	OK
MW-26	Methyl Ethyl Ketone	7/14/2022	7/18/2022	4	14	OK
MW-26	Methylene Chloride	7/14/2022	7/18/2022	4	14	OK
MW-26	Molybdenum	7/14/2022	7/29/2022	15	180	OK
MW-26	Naphthalene	7/14/2022	7/18/2022	4	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Nickel	7/14/2022	7/29/2022	15	180	OK
MW-26	Nitrate + Nitrite as N	7/14/2022	7/26/2022	12	28	OK
MW-26	Nitrogen, Ammonia as N	7/14/2022	7/26/2022	12	28	OK
MW-26	Potassium	7/14/2022	7/28/2022	14	180	OK
MW-26	Selenium	7/14/2022	7/29/2022	15	180	OK
MW-26	Silver	7/14/2022	7/29/2022	15	180	OK
MW-26	Sodium	7/14/2022	7/28/2022	14	180	OK
MW-26	Sulfate	7/14/2022	7/19/2022	5	28	OK
MW-26	Tetrahydrofuran	7/14/2022	7/18/2022	4	14	OK
MW-26	Thallium	7/14/2022	7/29/2022	15	180	OK
MW-26	Tin	7/14/2022	7/28/2022	14	180	OK
MW-26	Toluene	7/14/2022	7/18/2022	4	14	OK
MW-26	Total Dissolved Solids	7/14/2022	7/18/2022	4	7	OK
MW-26	Uranium	7/14/2022	7/29/2022	15	180	OK
MW-26	Vanadium	7/14/2022	7/29/2022	15	180	OK
MW-26	Xylenes, total	7/14/2022	7/18/2022	4	14	OK
MW-26	Zinc	7/14/2022	7/29/2022	15	180	OK
MW-27	Fluoride	7/15/2022	7/22/2022	7	28	OK
MW-27	Nitrate + Nitrite as N	7/15/2022	8/2/2022	18	28	OK
MW-28	Chloride	7/15/2022	8/12/2022	28	28	OK
MW-28	Nitrate + Nitrite as N	7/15/2022	8/2/2022	18	28	OK
MW-28	Selenium	7/15/2022	8/1/2022	17	180	OK
MW-28	Uranium	7/15/2022	8/1/2022	17	180	OK
MW-29	Uranium	7/14/2022	8/1/2022	18	180	OK
MW-30	Acetone	7/13/2022	7/18/2022	5	14	OK
MW-30	Arsenic	7/13/2022	7/29/2022	16	180	OK
MW-30	Benzene	7/13/2022	7/18/2022	5	14	OK
MW-30	Beryllium	7/13/2022	7/29/2022	16	180	OK
MW-30	Bicarbonate as CaCO3	7/13/2022	7/19/2022	6	14	OK
MW-30	Cadmium	7/13/2022	7/29/2022	16	180	OK
MW-30	Calcium	7/13/2022	7/28/2022	15	180	OK
MW-30	Carbon Tetrachloride	7/13/2022	7/18/2022	5	14	OK
MW-30	Carbonate as CO3	7/13/2022	7/19/2022	6	14	OK
MW-30	Chloride	7/13/2022	7/16/2022	3	28	OK
MW-30	Chloroform	7/13/2022	7/18/2022	5	14	OK
MW-30	Chloromethane	7/13/2022	7/18/2022	5	14	OK
MW-30	Chromium	7/13/2022	7/29/2022	16	180	OK
MW-30	Cobalt	7/13/2022	7/29/2022	16	180	OK
MW-30	Copper	7/13/2022	7/29/2022	16	180	OK
MW-30	Fluoride	7/13/2022	7/16/2022	3	28	OK
MW-30	Gross Radium Alpha	7/13/2022	8/17/2022	35	180	OK
MW-30	Iron	7/13/2022	7/28/2022	15	180	OK
MW-30	Lead	7/13/2022	7/29/2022	16	180	OK
MW-30	Magnesium	7/13/2022	7/28/2022	15	180	OK
MW-30	Manganese	7/13/2022	7/29/2022	16	180	OK
MW-30	Mercury	7/13/2022	7/21/2022	8	180	OK
MW-30	Methyl Ethyl Ketone	7/13/2022	7/18/2022	5	14	OK
MW-30	Methylene Chloride	7/13/2022	7/18/2022	5	14	OK
MW-30	Molybdenum	7/13/2022	7/29/2022	16	180	OK
MW-30	Naphthalene	7/13/2022	7/18/2022	5	14	OK
MW-30	Nickel	7/13/2022	7/29/2022	16	180	OK
MW-30	Nitrate + Nitrite as N	7/13/2022	7/27/2022	14	28	OK
MW-30	Nitrogen, Ammonia as N	7/13/2022	7/26/2022	13	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Potassium	7/13/2022	7/28/2022	15	180	OK
MW-30	Selenium	7/13/2022	7/29/2022	16	180	OK
MW-30	Silver	7/13/2022	7/29/2022	16	180	OK
MW-30	Sodium	7/13/2022	7/28/2022	15	180	OK
MW-30	Sulfate	7/13/2022	8/1/2022	19	28	OK
MW-30	Tetrahydrofuran	7/13/2022	7/18/2022	5	14	OK
MW-30	Thallium	7/13/2022	7/29/2022	16	180	OK
MW-30	Tin	7/13/2022	7/28/2022	15	180	OK
MW-30	Toluene	7/13/2022	7/18/2022	5	14	OK
MW-30	Total Dissolved Solids	7/13/2022	7/18/2022	5	7	OK
MW-30	Uranium	7/13/2022	7/29/2022	16	180	OK
MW-30	Vanadium	7/13/2022	7/29/2022	16	180	OK
MW-30	Xylenes, total	7/13/2022	7/18/2022	5	14	OK
MW-30	Zinc	7/13/2022	7/29/2022	16	180	OK
MW-31	Acetone	7/12/2022	7/18/2022	6	14	OK
MW-31	Arsenic	7/12/2022	7/29/2022	17	180	OK
MW-31	Benzene	7/12/2022	7/18/2022	6	14	OK
MW-31	Beryllium	7/12/2022	7/29/2022	17	180	OK
MW-31	Bicarbonate as CaCO3	7/12/2022	7/19/2022	7	14	OK
MW-31	Cadmium	7/12/2022	7/29/2022	17	180	OK
MW-31	Calcium	7/12/2022	7/28/2022	16	180	OK
MW-31	Carbon Tetrachloride	7/12/2022	7/18/2022	6	14	OK
MW-31	Carbonate as CO3	7/12/2022	7/19/2022	7	14	OK
MW-31	Chloride	7/12/2022	8/1/2022	20	28	OK
MW-31	Chloroform	7/12/2022	7/18/2022	6	14	OK
MW-31	Chloromethane	7/12/2022	7/18/2022	6	14	OK
MW-31	Chromium	7/12/2022	7/29/2022	17	180	OK
MW-31	Cobalt	7/12/2022	7/29/2022	17	180	OK
MW-31	Copper	7/12/2022	7/29/2022	17	180	OK
MW-31	Fluoride	7/12/2022	7/16/2022	4	28	OK
MW-31	Gross Radium Alpha	7/12/2022	8/17/2022	36	180	OK
MW-31	Iron	7/12/2022	7/28/2022	16	180	OK
MW-31	Lead	7/12/2022	7/29/2022	17	180	OK
MW-31	Magnesium	7/12/2022	7/28/2022	16	180	OK
MW-31	Manganese	7/12/2022	7/29/2022	17	180	OK
MW-31	Mercury	7/12/2022	7/21/2022	9	180	OK
MW-31	Methyl Ethyl Ketone	7/12/2022	7/18/2022	6	14	OK
MW-31	Methylene Chloride	7/12/2022	7/18/2022	6	14	OK
MW-31	Molybdenum	7/12/2022	7/29/2022	17	180	OK
MW-31	Naphthalene	7/12/2022	7/18/2022	6	14	OK
MW-31	Nickel	7/12/2022	7/29/2022	17	180	OK
MW-31	Nitrate + Nitrite as N	7/12/2022	7/18/2022	6	28	OK
MW-31	Nitrogen, Ammonia as N	7/12/2022	7/26/2022	14	28	OK
MW-31	Potassium	7/12/2022	7/28/2022	16	180	OK
MW-31	Selenium	7/12/2022	7/29/2022	17	180	OK
MW-31	Silver	7/12/2022	7/29/2022	17	180	OK
MW-31	Sodium	7/12/2022	7/28/2022	16	180	OK
MW-31	Sulfate	7/12/2022	8/1/2022	20	28	OK
MW-31	Tetrahydrofuran	7/12/2022	7/18/2022	6	14	OK
MW-31	Thallium	7/12/2022	7/29/2022	17	180	OK
MW-31	Tin	7/12/2022	7/28/2022	16	180	OK
MW-31	Toluene	7/12/2022	7/18/2022	6	14	OK
MW-31	Total Dissolved Solids	7/12/2022	7/18/2022	6	7	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-31	Uranium	7/12/2022	7/29/2022	17	180	OK
MW-31	Vanadium	7/12/2022	7/29/2022	17	180	OK
MW-31	Xylenes, total	7/12/2022	7/18/2022	6	14	OK
MW-31	Zinc	7/12/2022	7/29/2022	17	180	OK
MW-32	Chloride	7/15/2022	7/22/2022	7	28	OK
MW-36	Acetone	7/13/2022	7/18/2022	5	14	OK
MW-36	Arsenic	7/13/2022	7/29/2022	16	180	OK
MW-36	Benzene	7/13/2022	7/18/2022	5	14	OK
MW-36	Beryllium	7/13/2022	7/29/2022	16	180	OK
MW-36	Bicarbonate as CaCO3	7/13/2022	7/20/2022	7	14	OK
MW-36	Cadmium	7/13/2022	7/29/2022	16	180	OK
MW-36	Calcium	7/13/2022	7/28/2022	15	180	OK
MW-36	Carbon Tetrachloride	7/13/2022	7/18/2022	5	14	OK
MW-36	Carbonate as CO3	7/13/2022	7/20/2022	7	14	OK
MW-36	Chloride	7/13/2022	7/16/2022	3	28	OK
MW-36	Chloroform	7/13/2022	7/18/2022	5	14	OK
MW-36	Chloromethane	7/13/2022	7/18/2022	5	14	OK
MW-36	Chromium	7/13/2022	7/29/2022	16	180	OK
MW-36	Cobalt	7/13/2022	7/29/2022	16	180	OK
MW-36	Copper	7/13/2022	7/29/2022	16	180	OK
MW-36	Fluoride	7/13/2022	7/16/2022	3	28	OK
MW-36	Gross Radium Alpha	7/13/2022	8/17/2022	35	180	OK
MW-36	Iron	7/13/2022	7/28/2022	15	180	OK
MW-36	Lead	7/13/2022	7/29/2022	16	180	OK
MW-36	Magnesium	7/13/2022	7/28/2022	15	180	OK
MW-36	Manganese	7/13/2022	7/29/2022	16	180	OK
MW-36	Mercury	7/13/2022	7/21/2022	8	180	OK
MW-36	Methyl Ethyl Ketone	7/13/2022	7/18/2022	5	14	OK
MW-36	Methylene Chloride	7/13/2022	7/18/2022	5	14	OK
MW-36	Molybdenum	7/13/2022	7/29/2022	16	180	OK
MW-36	Naphthalene	7/13/2022	7/18/2022	5	14	OK
MW-36	Nickel	7/13/2022	7/29/2022	16	180	OK
MW-36	Nitrate + Nitrite as N	7/13/2022	7/26/2022	13	28	OK
MW-36	Nitrogen, Ammonia as N	7/13/2022	7/26/2022	13	28	OK
MW-36	Potassium	7/13/2022	7/28/2022	15	180	OK
MW-36	Selenium	7/13/2022	7/29/2022	16	180	OK
MW-36	Silver	7/13/2022	7/29/2022	16	180	OK
MW-36	Sodium	7/13/2022	7/28/2022	15	180	OK
MW-36	Sulfate	7/13/2022	8/1/2022	19	28	OK
MW-36	Tetrahydrofuran	7/13/2022	7/18/2022	5	14	OK
MW-36	Thallium	7/13/2022	7/29/2022	16	180	OK
MW-36	Tin	7/13/2022	7/28/2022	15	180	OK
MW-36	Toluene	7/13/2022	7/18/2022	5	14	OK
MW-36	Total Dissolved Solids	7/13/2022	7/18/2022	5	7	OK
MW-36	Uranium	7/13/2022	7/29/2022	16	180	OK
MW-36	Vanadium	7/13/2022	7/29/2022	16	180	OK
MW-36	Xylenes, total	7/13/2022	7/18/2022	5	14	OK
MW-36	Zinc	7/13/2022	7/29/2022	16	180	OK
MW-38	Acetone	7/20/2022	7/29/2022	9	14	OK
MW-38	Arsenic	7/20/2022	8/1/2022	12	180	OK
MW-38	Benzene	7/20/2022	7/29/2022	9	14	OK
MW-38	Beryllium	7/20/2022	8/1/2022	12	180	OK
MW-38	Bicarbonate as CaCO3	7/20/2022	7/21/2022	1	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-38	Cadmium	7/20/2022	8/1/2022	12	180	OK
MW-38	Calcium	7/20/2022	8/3/2022	14	180	OK
MW-38	Carbon Tetrachloride	7/20/2022	7/29/2022	9	14	OK
MW-38	Carbonate as CO3	7/20/2022	7/21/2022	1	14	OK
MW-38	Chloride	7/20/2022	7/22/2022	2	28	OK
MW-38	Chloroform	7/20/2022	7/29/2022	9	14	OK
MW-38	Chloromethane	7/20/2022	7/29/2022	9	14	OK
MW-38	Chromium	7/20/2022	8/1/2022	12	180	OK
MW-38	Cobalt	7/20/2022	8/1/2022	12	180	OK
MW-38	Copper	7/20/2022	8/1/2022	12	180	OK
MW-38	Fluoride	7/20/2022	7/22/2022	2	28	OK
MW-38	Gross Radium Alpha	7/20/2022	8/17/2022	28	180	OK
MW-38	Iron	7/20/2022	8/3/2022	14	180	OK
MW-38	Lead	7/20/2022	8/1/2022	12	180	OK
MW-38	Magnesium	7/20/2022	8/3/2022	14	180	OK
MW-38	Manganese	7/20/2022	8/1/2022	12	180	OK
MW-38	Mercury	7/20/2022	7/27/2022	7	180	OK
MW-38	Methyl Ethyl Ketone	7/20/2022	7/29/2022	9	14	OK
MW-38	Methylene Chloride	7/20/2022	7/29/2022	9	14	OK
MW-38	Molybdenum	7/20/2022	8/1/2022	12	180	OK
MW-38	Naphthalene	7/20/2022	7/29/2022	9	14	OK
MW-38	Nickel	7/20/2022	8/1/2022	12	180	OK
MW-38	Nitrate + Nitrite as N	7/20/2022	8/2/2022	13	28	OK
MW-38	Nitrogen, Ammonia as N	7/20/2022	7/26/2022	6	28	OK
MW-38	Potassium	7/20/2022	8/3/2022	14	180	OK
MW-38	Selenium	7/20/2022	8/1/2022	12	180	OK
MW-38	Silver	7/20/2022	8/1/2022	12	180	OK
MW-38	Sodium	7/20/2022	8/3/2022	14	180	OK
MW-38	Sulfate	7/20/2022	7/22/2022	2	28	OK
MW-38	Tetrahydrofuran	7/20/2022	7/29/2022	9	14	OK
MW-38	Thallium	7/20/2022	8/1/2022	12	180	OK
MW-38	Tin	7/20/2022	8/3/2022	14	180	OK
MW-38	Toluene	7/20/2022	7/29/2022	9	14	OK
MW-38	Total Dissolved Solids	7/20/2022	7/22/2022	2	7	OK
MW-38	Uranium	7/20/2022	8/1/2022	12	180	OK
MW-38	Vanadium	7/20/2022	8/1/2022	12	180	OK
MW-38	Xylenes, total	7/20/2022	7/29/2022	9	14	OK
MW-38	Zinc	7/20/2022	8/1/2022	12	180	OK
MW-39	Acetone	7/14/2022	7/18/2022	4	14	OK
MW-39	Arsenic	7/14/2022	7/29/2022	15	180	OK
MW-39	Benzene	7/14/2022	7/18/2022	4	14	OK
MW-39	Beryllium	7/14/2022	7/29/2022	15	180	OK
MW-39	Bicarbonate as CaCO3	7/14/2022	7/20/2022	6	14	OK
MW-39	Cadmium	7/14/2022	7/29/2022	15	180	OK
MW-39	Calcium	7/14/2022	7/28/2022	14	180	OK
MW-39	Carbon Tetrachloride	7/14/2022	7/18/2022	4	14	OK
MW-39	Carbonate as CO3	7/14/2022	7/20/2022	6	14	OK
MW-39	Chloride	7/14/2022	7/18/2022	4	28	OK
MW-39	Chloroform	7/14/2022	7/18/2022	4	14	OK
MW-39	Chloromethane	7/14/2022	7/18/2022	4	14	OK
MW-39	Chromium	7/14/2022	7/29/2022	15	180	OK
MW-39	Cobalt	7/14/2022	7/29/2022	15	180	OK
MW-39	Copper	7/14/2022	7/29/2022	15	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-39	Fluoride	7/14/2022	7/18/2022	4	28	OK
MW-39	Gross Radium Alpha	7/14/2022	8/17/2022	34	180	OK
MW-39	Iron	7/14/2022	7/28/2022	14	180	OK
MW-39	Lead	7/14/2022	7/29/2022	15	180	OK
MW-39	Magnesium	7/14/2022	7/28/2022	14	180	OK
MW-39	Manganese	7/14/2022	7/29/2022	15	180	OK
MW-39	Mercury	7/14/2022	7/21/2022	7	180	OK
MW-39	Methyl Ethyl Ketone	7/14/2022	7/18/2022	4	14	OK
MW-39	Methylene Chloride	7/14/2022	7/18/2022	4	14	OK
MW-39	Molybdenum	7/14/2022	7/29/2022	15	180	OK
MW-39	Naphthalene	7/14/2022	7/18/2022	4	14	OK
MW-39	Nickel	7/14/2022	7/29/2022	15	180	OK
MW-39	Nitrate + Nitrite as N	7/14/2022	7/26/2022	12	28	OK
MW-39	Nitrogen, Ammonia as N	7/14/2022	7/26/2022	12	28	OK
MW-39	Potassium	7/14/2022	7/28/2022	14	180	OK
MW-39	Selenium	7/14/2022	7/29/2022	15	180	OK
MW-39	Silver	7/14/2022	7/29/2022	15	180	OK
MW-39	Sodium	7/14/2022	7/28/2022	14	180	OK
MW-39	Sulfate	7/14/2022	7/19/2022	5	28	OK
MW-39	Tetrahydrofuran	7/14/2022	7/18/2022	4	14	OK
MW-39	Thallium	7/14/2022	7/29/2022	15	180	OK
MW-39	Tin	7/14/2022	7/28/2022	14	180	OK
MW-39	Toluene	7/14/2022	7/18/2022	4	14	OK
MW-39	Total Dissolved Solids	7/14/2022	7/18/2022	4	7	OK
MW-39	Uranium	7/14/2022	7/29/2022	15	180	OK
MW-39	Vanadium	7/14/2022	7/29/2022	15	180	OK
MW-39	Xylenes, total	7/14/2022	7/18/2022	4	14	OK
MW-39	Zinc	7/14/2022	7/29/2022	15	180	OK
MW-40	Acetone	7/14/2022	7/18/2022	4	14	OK
MW-40	Arsenic	7/14/2022	7/29/2022	15	180	OK
MW-40	Benzene	7/14/2022	7/18/2022	4	14	OK
MW-40	Beryllium	7/14/2022	7/29/2022	15	180	OK
MW-40	Bicarbonate as CaCO3	7/14/2022	7/20/2022	6	14	OK
MW-40	Cadmium	7/14/2022	7/29/2022	15	180	OK
MW-40	Calcium	7/14/2022	7/28/2022	14	180	OK
MW-40	Carbon Tetrachloride	7/14/2022	7/18/2022	4	14	OK
MW-40	Carbonate as CO3	7/14/2022	7/20/2022	6	14	OK
MW-40	Chloride	7/14/2022	7/18/2022	4	28	OK
MW-40	Chloroform	7/14/2022	7/18/2022	4	14	OK
MW-40	Chloromethane	7/14/2022	7/18/2022	4	14	OK
MW-40	Chromium	7/14/2022	7/29/2022	15	180	OK
MW-40	Cobalt	7/14/2022	7/29/2022	15	180	OK
MW-40	Copper	7/14/2022	7/29/2022	15	180	OK
MW-40	Fluoride	7/14/2022	7/18/2022	4	28	OK
MW-40	Gross Radium Alpha	7/14/2022	8/17/2022	34	180	OK
MW-40	Iron	7/14/2022	7/28/2022	14	180	OK
MW-40	Lead	7/14/2022	7/29/2022	15	180	OK
MW-40	Magnesium	7/14/2022	7/28/2022	14	180	OK
MW-40	Manganese	7/14/2022	7/29/2022	15	180	OK
MW-40	Mercury	7/14/2022	7/21/2022	7	180	OK
MW-40	Methyl Ethyl Ketone	7/14/2022	7/18/2022	4	14	OK
MW-40	Methylene Chloride	7/14/2022	7/18/2022	4	14	OK
MW-40	Molybdenum	7/14/2022	7/29/2022	15	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-40	Naphthalene	7/14/2022	7/18/2022	4	14	OK
MW-40	Nickel	7/14/2022	7/29/2022	15	180	OK
MW-40	Nitrate + Nitrite as N	7/14/2022	7/26/2022	12	28	OK
MW-40	Nitrogen, Ammonia as N	7/14/2022	7/26/2022	12	28	OK
MW-40	Potassium	7/14/2022	7/28/2022	14	180	OK
MW-40	Selenium	7/14/2022	7/29/2022	15	180	OK
MW-40	Silver	7/14/2022	7/29/2022	15	180	OK
MW-40	Sodium	7/14/2022	8/1/2022	18	180	OK
MW-40	Sulfate	7/14/2022	7/19/2022	5	28	OK
MW-40	Tetrahydrofuran	7/14/2022	7/18/2022	4	14	OK
MW-40	Thallium	7/14/2022	7/29/2022	15	180	OK
MW-40	Tin	7/14/2022	7/28/2022	14	180	OK
MW-40	Toluene	7/14/2022	7/18/2022	4	14	OK
MW-40	Total Dissolved Solids	7/14/2022	7/18/2022	4	7	OK
MW-40	Uranium	7/14/2022	7/29/2022	15	180	OK
MW-40	Vanadium	7/14/2022	7/29/2022	15	180	OK
MW-40	Xylenes, total	7/14/2022	7/18/2022	4	14	OK
MW-40	Zinc	7/14/2022	7/29/2022	15	180	OK
MW-65	Acetone	7/20/2022	7/29/2022	9	14	OK
MW-65	Arsenic	7/20/2022	8/1/2022	12	180	OK
MW-65	Benzene	7/20/2022	7/29/2022	9	14	OK
MW-65	Beryllium	7/20/2022	8/1/2022	12	180	OK
MW-65	Bicarbonate as CaCO3	7/20/2022	7/21/2022	1	14	OK
MW-65	Cadmium	7/20/2022	8/1/2022	12	180	OK
MW-65	Calcium	7/20/2022	8/3/2022	14	180	OK
MW-65	Carbon Tetrachloride	7/20/2022	7/29/2022	9	14	OK
MW-65	Carbonate as CO3	7/20/2022	7/21/2022	1	14	OK
MW-65	Chloride	7/20/2022	7/22/2022	2	28	OK
MW-65	Chloroform	7/20/2022	7/29/2022	9	14	OK
MW-65	Chloromethane	7/20/2022	7/29/2022	9	14	OK
MW-65	Chromium	7/20/2022	8/1/2022	12	180	OK
MW-65	Cobalt	7/20/2022	8/1/2022	12	180	OK
MW-65	Copper	7/20/2022	8/1/2022	12	180	OK
MW-65	Fluoride	7/20/2022	7/22/2022	2	28	OK
MW-65	Gross Radium Alpha	7/20/2022	8/17/2022	28	180	OK
MW-65	Iron	7/20/2022	8/3/2022	14	180	OK
MW-65	Lead	7/20/2022	8/1/2022	12	180	OK
MW-65	Magnesium	7/20/2022	8/3/2022	14	180	OK
MW-65	Manganese	7/20/2022	8/1/2022	12	180	OK
MW-65	Mercury	7/20/2022	7/27/2022	7	180	OK
MW-65	Methyl Ethyl Ketone	7/20/2022	7/29/2022	9	14	OK
MW-65	Methylene Chloride	7/20/2022	7/29/2022	9	14	OK
MW-65	Molybdenum	7/20/2022	8/1/2022	12	180	OK
MW-65	Naphthalene	7/20/2022	7/29/2022	9	14	OK
MW-65	Nickel	7/20/2022	8/1/2022	12	180	OK
MW-65	Nitrate + Nitrite as N	7/20/2022	8/2/2022	13	28	OK
MW-65	Nitrogen, Ammonia as N	7/20/2022	7/26/2022	6	28	OK
MW-65	Potassium	7/20/2022	8/3/2022	14	180	OK
MW-65	Selenium	7/20/2022	8/1/2022	12	180	OK
MW-65	Silver	7/20/2022	8/1/2022	12	180	OK
MW-65	Sodium	7/20/2022	8/3/2022	14	180	OK
MW-65	Sulfate	7/20/2022	7/26/2022	6	28	OK
MW-65	Tetrahydrofuran	7/20/2022	7/29/2022	9	14	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Thallium	7/20/2022	8/1/2022	12	180	OK
MW-65	Tin	7/20/2022	8/3/2022	14	180	OK
MW-65	Toluene	7/20/2022	7/29/2022	9	14	OK
MW-65	Total Dissolved Solids	7/20/2022	7/22/2022	2	7	OK
MW-65	Uranium	7/20/2022	8/1/2022	12	180	OK
MW-65	Vanadium	7/20/2022	8/1/2022	12	180	OK
MW-65	Xylenes, total	7/20/2022	7/29/2022	9	14	OK
MW-65	Zinc	7/20/2022	8/1/2022	12	180	OK

G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	8/9/2022	8/12/2022	3	14	OK
Trip Blank	Chloroform	9/22/2022	9/30/2022	8	14	OK
MW-11	Sulfate	8/8/2022	8/31/2022	23	28	OK
MW-11	Chloride	8/8/2022	8/17/2022	9	28	OK
MW-11	Manganese	8/8/2022	8/19/2022	11	180	OK
MW-11	Nitrate + Nitrite as N	8/8/2022	8/16/2022	8	28	OK
MW-11	Total Dissolved Solids	8/8/2022	8/12/2022	4	7	OK
MW-11	Sulfate	9/21/2022	10/4/2022	13	28	OK
MW-11	Chloride	9/21/2022	10/1/2022	10	28	OK
MW-11	Manganese	9/21/2022	9/29/2022	8	180	OK
MW-11	Nitrate + Nitrite as N	9/21/2022	9/23/2022	2	28	OK
MW-11	Total Dissolved Solids	9/21/2022	9/28/2022	7	7	OK
MW-25	Total Dissolved Solids	8/9/2022	8/12/2022	3	7	OK
MW-25	Total Dissolved Solids	9/20/2022	9/27/2022	7	7	OK
MW-26	Chloride	8/9/2022	8/19/2022	10	28	OK
MW-26	Chloroform	8/9/2022	8/12/2022	3	14	OK
MW-26	Nitrate + Nitrite as N	8/9/2022	8/16/2022	7	28	OK
MW-26	Total Dissolved Solids	8/9/2022	8/12/2022	3	7	OK
MW-26	Chloride	9/20/2022	10/1/2022	11	28	OK
MW-26	Chloroform	9/20/2022	9/30/2022	10	14	OK
MW-26	Nitrate + Nitrite as N	9/20/2022	9/23/2022	3	28	OK
MW-30	Chloride	8/9/2022	8/19/2022	10	28	OK
MW-30	Uranium	8/9/2022	8/19/2022	10	180	OK
MW-30	Selenium	8/9/2022	8/19/2022	10	180	OK
MW-30	Nitrate + Nitrite as N	8/9/2022	8/17/2022	8	28	OK
MW-30	Total Dissolved Solids	8/9/2022	8/12/2022	3	7	OK
MW-30	Chloride	9/20/2022	10/5/2022	15	28	OK
MW-30	Uranium	9/20/2022	9/29/2022	9	180	OK
MW-30	Selenium	9/20/2022	9/29/2022	9	180	OK
MW-30	Nitrate + Nitrite as N	9/20/2022	9/23/2022	3	28	OK
MW-31	Sulfate	8/8/2022	8/31/2022	23	28	OK
MW-31	Chloride	8/8/2022	8/17/2022	9	28	OK
MW-31	Uranium	8/8/2022	8/19/2022	11	180	OK
MW-31	Nitrate + Nitrite as N	8/8/2022	8/17/2022	9	28	OK
MW-31	Total Dissolved Solids	8/8/2022	8/12/2022	4	7	OK
MW-31	Sulfate	9/20/2022	10/4/2022	14	28	OK
MW-31	Chloride	9/20/2022	10/5/2022	15	28	OK
MW-31	Uranium	9/20/2022	9/29/2022	9	180	OK
MW-31	Nitrate + Nitrite as N	9/20/2022	9/23/2022	3	28	OK
MW-31	Total Dissolved Solids	9/20/2022	9/27/2022	7	7	OK
MW-65	Chloride	8/9/2022	8/20/2022	11	28	OK
MW-65	Uranium	8/9/2022	8/19/2022	10	180	OK
MW-65	Selenium	8/9/2022	8/19/2022	10	180	OK
MW-65	Nitrate + Nitrite as N	8/9/2022	8/17/2022	8	28	OK
MW-65	Total Dissolved Solids	8/9/2022	8/12/2022	3	7	OK
MW-65	Total Dissolved Solids	9/20/2022	9/27/2022	7	7	OK

G-3A: Quarterly Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 587184	MW-11, MW-14, MW-24A, MW-25, MW-26, MW-30, MW-31, MW-36, MW-38, MW-39, MW-40, MW-65	NA
GEL 587833	MW-24 Resample	NA
CTF 22G1280	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-39, MW-40, Trip Blank	1.1 °C
CTF 22G1743	MW-12, MW-24, MW-24A, MW-27, MW-28, MW-29, MW-32, MW-38, MW-65, Trip Blank	0.1 °C

N/A = These shipments contained samples for the analysis of gross alpha or metals only. Per Table 1 in the approved QAP, samples submitted for gross alpha or metals analyses do not have a sample temperature requirement.

G-3B: Accelerated Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
CTF 22H1255 - August	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	-0.3 °C
CTF 22F0888 - September	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	-0.3 °C

G-4A: Quarterly Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 and E200.8
Gross Alpha	E900.0 or E900.1 or E903.0	E903.0
VOCs	SW8260B or SW8260C or SW8260D	SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	SM4500-Cl-E and 300.0
Fluoride	A4500-F C or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C
Carbonate as CO ₃ , Bicarbonate as HCO ₃	A2320 B	A2320 B
Mercury	E245.1 or E200.7 or E200.8	E245.1
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

G-4B: Accelerated Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 or E200.8
VOCs	SW8260B or SW8260C or SW8260D	SW8260C and SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon Tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
Trip Blank	Methylene Chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, total	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon Tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
Trip Blank	Methylene Chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, total	1	ug/L	U	1	1	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Arsenic	5	ug/L	U	1	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-11	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-11	Calcium	0.2	mg/L		1	0.5	OK
MW-11	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-11	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloromethane	1	ug/L	U	1	1	OK
MW-11	Chromium	25	ug/L	U	1	25	OK
MW-11	Cobalt	10	ug/L	U	1	10	OK
MW-11	Copper	10	ug/L	U	1	10	OK
MW-11	Fluoride	0.1	mg/L		1	0.1	OK
MW-11	Gross Radium Alpha	0.861	pCi/L	U	1	1	OK
MW-11	Iron	30	ug/L	U	1	30	OK
MW-11	Lead	1	ug/L	U	1	1	OK
MW-11	Magnesium	0.2	mg/L		1	0.5	OK
MW-11	Manganese	10	ug/L		1	10	OK
MW-11	Mercury	0.5	ug/L	U	1	0.5	OK
MW-11	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-11	Methylene Chloride	1	ug/L	U	1	1	OK
MW-11	Molybdenum	10	ug/L	U	1	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	1	20	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Nitrogen, Ammonia as N	0.25	mg/L		5	0.05	OK
MW-11	Potassium	0.5	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L		1	5	OK
MW-11	Silver	10	ug/L	U	1	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-11	Sodium	0.5	mg/L		1	0.5	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-11	Thallium	0.5	ug/L	U	1	0.5	OK
MW-11	Tin	100	ug/L	U	1	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Uranium	0.3	ug/L		1	0.3	OK
MW-11	Vanadium	15	ug/L	U	1	15	OK
MW-11	Xylenes, total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L	U	1	10	OK
MW-12	Selenium	5	ug/L		1	5	OK
MW-12	Uranium	0.3	ug/L		1	0.3	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Arsenic	5	ug/L	U	1	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-14	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		1	0.5	OK
MW-14	Calcium	0.2	mg/L		1	0.5	OK
MW-14	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-14	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-14	Chloride	1	mg/L		1	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	1	25	OK
MW-14	Cobalt	10	ug/L	U	1	10	OK
MW-14	Copper	10	ug/L	U	1	10	OK
MW-14	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-14	Gross Radium Alpha	0.949	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	1	30	OK
MW-14	Lead	1	ug/L	U	1	1	OK
MW-14	Magnesium	0.2	mg/L		1	0.5	OK
MW-14	Manganese	10	ug/L		1	10	OK
MW-14	Mercury	0.5	ug/L	U	1	0.5	OK
MW-14	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-14	Methylene Chloride	1	ug/L	U	1	1	OK
MW-14	Molybdenum	10	ug/L	U	1	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	1	20	OK
MW-14	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK
MW-14	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-14	Potassium	0.5	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	1	5	OK
MW-14	Silver	10	ug/L	U	1	10	OK
MW-14	Sodium	0.5	mg/L		1	0.5	OK
MW-14	Sulfate	50	mg/L		50	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	1	0.5	OK
MW-14	Tin	100	ug/L	U	1	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		2	10	OK
MW-14	Uranium	0.3	ug/L		1	0.3	OK
MW-14	Vanadium	15	ug/L	U	1	15	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-14	Xylenes, total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		1	10	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Arsenic	5	ug/L	U	1	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	0.5	ug/L		1	0.5	OK
MW-24	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24	Cadmium	0.5	ug/L		1	0.5	OK
MW-24	Calcium	2	mg/L		10	0.5	OK
MW-24	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-24	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-24	Chloride	1	mg/L		1	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	1	25	OK
MW-24	Cobalt	10	ug/L		1	10	OK
MW-24	Copper	10	ug/L		1	10	OK
MW-24	Fluoride	0.1	mg/L		1	0.1	OK
MW-24	Iron	30	ug/L	U	1	30	OK
MW-24	Lead	1	ug/L		1	1	OK
MW-24	Magnesium	0.2	mg/L		1	0.5	OK
MW-24	Manganese	25	ug/L		50	10	OK
MW-24	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-24	Methylene Chloride	1	ug/L	U	1	1	OK
MW-24	Molybdenum	10	ug/L	U	1	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L		1	20	OK
MW-24	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-24	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-24	Potassium	0.5	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L		1	5	OK
MW-24	Silver	10	ug/L	U	1	10	OK
MW-24	Sodium	5	mg/L		10	0.5	OK
MW-24	Sulfate	100	mg/L		100	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		1	0.5	OK
MW-24	Tin	100	ug/L	U	1	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24	Uranium	0.3	ug/L		1	0.3	OK
MW-24	Vanadium	15	ug/L	U	1	15	OK
MW-24	Xylenes, total	1	ug/L	U	1	1	OK
MW-24	Zinc	10	ug/L		1	10	OK
MW-24	Gross Radium Alpha	0.782	pCi/L		1	1	OK
MW-24A	Acetone	20	ug/L	U	1	20	OK
MW-24A	Arsenic	5	ug/L	U	1	5	OK
MW-24A	Benzene	1	ug/L	U	1	1	OK
MW-24A	Beryllium	0.5	ug/L		1	0.5	OK
MW-24A	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24A	Cadmium	0.5	ug/L		1	0.5	OK
MW-24A	Calcium	2	mg/L		10	0.5	OK
MW-24A	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-24A	Carbonate as CO3	1	mg/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-24A	Chloride	1	mg/L		1	1	OK
MW-24A	Chloroform	1	ug/L	U	1	1	OK
MW-24A	Chloromethane	1	ug/L	U	1	1	OK
MW-24A	Chromium	25	ug/L	U	1	25	OK
MW-24A	Cobalt	10	ug/L		1	10	OK
MW-24A	Copper	10	ug/L		1	10	OK
MW-24A	Fluoride	0.1	mg/L		1	0.1	OK
MW-24A	Gross Radium Alpha	0.981	pCi/L		1	1	OK
MW-24A	Iron	30	ug/L	U	1	30	OK
MW-24A	Lead	1	ug/L	U	1	1	OK
MW-24A	Magnesium	0.2	mg/L		1	0.5	OK
MW-24A	Manganese	25	ug/L		50	10	OK
MW-24A	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24A	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-24A	Methylene Chloride	1	ug/L	U	1	1	OK
MW-24A	Molybdenum	10	ug/L	U	1	10	OK
MW-24A	Naphthalene	1	ug/L	U	1	1	OK
MW-24A	Nickel	20	ug/L		1	20	OK
MW-24A	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-24A	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-24A	Potassium	0.5	mg/L		1	0.5	OK
MW-24A	Selenium	5	ug/L		1	5	OK
MW-24A	Silver	10	ug/L	U	1	10	OK
MW-24A	Sodium	5	mg/L		10	0.5	OK
MW-24A	Sulfate	100	mg/L		100	1	OK
MW-24A	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24A	Thallium	0.5	ug/L		1	0.5	OK
MW-24A	Tin	100	ug/L	U	1	100	OK
MW-24A	Toluene	1	ug/L	U	1	1	OK
MW-24A	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24A	Uranium	0.3	ug/L		1	0.3	OK
MW-24A	Vanadium	15	ug/L	U	1	15	OK
MW-24A	Xylenes, total	1	ug/L	U	1	1	OK
MW-24A	Zinc	10	ug/L		1	10	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Arsenic	5	ug/L	U	1	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-25	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		1	0.5	OK
MW-25	Calcium	0.2	mg/L		1	0.5	OK
MW-25	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-25	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-25	Chloride	1	mg/L		1	1	OK
MW-25	Chloroform	1	ug/L	U	1	1	OK
MW-25	Chloromethane	1	ug/L	U	1	1	OK
MW-25	Chromium	25	ug/L	U	1	25	OK
MW-25	Cobalt	10	ug/L	U	1	10	OK
MW-25	Copper	10	ug/L	U	1	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.915	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	1	30	OK
MW-25	Lead	1	ug/L	U	1	1	OK
MW-25	Magnesium	0.2	mg/L		1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-25	Manganese	10	ug/L		1	10	OK
MW-25	Mercury	0.5	ug/L	U	1	0.5	OK
MW-25	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-25	Methylene Chloride	1	ug/L	U	1	1	OK
MW-25	Molybdenum	10	ug/L		1	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	1	20	OK
MW-25	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK
MW-25	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-25	Potassium	0.5	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	1	5	OK
MW-25	Silver	10	ug/L	U	1	10	OK
MW-25	Sodium	0.5	mg/L		1	0.5	OK
MW-25	Sulfate	20	mg/L		20	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		1	0.5	OK
MW-25	Tin	100	ug/L	U	1	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Uranium	0.3	ug/L		1	0.3	OK
MW-25	Vanadium	15	ug/L	U	1	15	OK
MW-25	Xylenes, total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	1	10	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Arsenic	5	ug/L	U	1	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-26	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L		1	0.5	OK
MW-26	Calcium	0.2	mg/L		1	0.5	OK
MW-26	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-26	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	1	ug/L	U	1	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	1	25	OK
MW-26	Cobalt	10	ug/L	U	1	10	OK
MW-26	Copper	10	ug/L	U	1	10	OK
MW-26	Fluoride	0.1	mg/L		1	0.1	OK
MW-26	Gross Radium Alpha	0.952	pCi/L		1	1	OK
MW-26	Iron	30	ug/L	U	1	30	OK
MW-26	Lead	1	ug/L	U	1	1	OK
MW-26	Magnesium	0.2	mg/L		1	0.5	OK
MW-26	Manganese	10	ug/L		1	10	OK
MW-26	Mercury	0.5	ug/L	U	1	0.5	OK
MW-26	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-26	Methylene Chloride	1	ug/L	U	1	1	OK
MW-26	Molybdenum	10	ug/L	U	1	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	1	20	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-26	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-26	Potassium	0.5	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L		1	5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	Silver	10	ug/L	U	1	10	OK
MW-26	Sodium	0.5	mg/L		1	0.5	OK
MW-26	Sulfate	50	mg/L		50	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-26	Thallium	0.5	ug/L	U	1	0.5	OK
MW-26	Tin	100	ug/L	U	1	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Uranium	0.3	ug/L		1	0.3	OK
MW-26	Vanadium	15	ug/L	U	1	15	OK
MW-26	Xylenes, total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	1	10	OK
MW-27	Fluoride	0.1	mg/L		1	0.1	OK
MW-27	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-28	Chloride	10	mg/L		10	1	OK
MW-28	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-28	Selenium	5	ug/L		1	5	OK
MW-28	Uranium	0.3	ug/L		1	0.3	OK
MW-29	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Arsenic	5	ug/L	U	1	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-30	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-30	Calcium	0.2	mg/L		1	0.5	OK
MW-30	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-30	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-30	Chloride	20	mg/L		20	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	1	25	OK
MW-30	Cobalt	10	ug/L	U	1	10	OK
MW-30	Copper	10	ug/L	U	1	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.973	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	1	30	OK
MW-30	Lead	1	ug/L	U	1	1	OK
MW-30	Magnesium	0.2	mg/L		1	0.5	OK
MW-30	Manganese	10	ug/L	U	1	10	OK
MW-30	Mercury	0.5	ug/L	U	1	0.5	OK
MW-30	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-30	Methylene Chloride	1	ug/L	U	1	1	OK
MW-30	Molybdenum	10	ug/L	U	1	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	1	20	OK
MW-30	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-30	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-30	Potassium	0.5	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Silver	10	ug/L	U	1	10	OK
MW-30	Sodium	0.5	mg/L		1	0.5	OK
MW-30	Sulfate	10	mg/L		10	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Thallium	0.5	ug/L	U	1	0.5	OK
MW-30	Tin	100	ug/L	U	1	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Vanadium	15	ug/L	U	1	15	OK
MW-30	Xylenes, total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	1	10	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Arsenic	5	ug/L	U	1	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-31	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-31	Calcium	0.2	mg/L		1	0.5	OK
MW-31	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-31	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-31	Chloride	5	mg/L		5	1	OK
MW-31	Chloroform	1	ug/L	U	1	1	OK
MW-31	Chloromethane	1	ug/L	U	1	1	OK
MW-31	Chromium	25	ug/L	U	1	25	OK
MW-31	Cobalt	10	ug/L	U	1	10	OK
MW-31	Copper	10	ug/L	U	1	10	OK
MW-31	Fluoride	0.1	mg/L		1	0.1	OK
MW-31	Gross Radium Alpha	1.01	pCi/L		1	1	OK
MW-31	Iron	30	ug/L	U	1	30	OK
MW-31	Lead	1	ug/L	U	1	1	OK
MW-31	Magnesium	0.2	mg/L		1	0.5	OK
MW-31	Manganese	10	ug/L	U	1	10	OK
MW-31	Mercury	0.5	ug/L	U	1	0.5	OK
MW-31	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-31	Methylene Chloride	1	ug/L	U	1	1	OK
MW-31	Molybdenum	10	ug/L	U	1	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	1	20	OK
MW-31	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-31	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-31	Potassium	0.5	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		1	5	OK
MW-31	Silver	10	ug/L	U	1	10	OK
MW-31	Sodium	0.5	mg/L		1	0.5	OK
MW-31	Sulfate	20	mg/L		20	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	1	0.5	OK
MW-31	Tin	100	ug/L	U	1	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Vanadium	15	ug/L	U	1	15	OK
MW-31	Xylenes, total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	1	10	OK
MW-32	Chloride	1	mg/L		1	1	OK
MW-36	Acetone	20	ug/L	U	1	20	OK
MW-36	Arsenic	5	ug/L	U	1	5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Benzene	1	ug/L	U	1	1	OK
MW-36	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-36	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-36	Calcium	0.2	mg/L		1	0.5	OK
MW-36	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-36	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-36	Chloride	1	mg/L		1	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	1	25	OK
MW-36	Cobalt	10	ug/L	U	1	10	OK
MW-36	Copper	10	ug/L	U	1	10	OK
MW-36	Fluoride	0.1	mg/L		1	0.1	OK
MW-36	Gross Radium Alpha	0.91	pCi/L	U	1	1	OK
MW-36	Iron	30	ug/L	U	1	30	OK
MW-36	Lead	1	ug/L	U	1	1	OK
MW-36	Magnesium	0.2	mg/L		1	0.5	OK
MW-36	Manganese	10	ug/L	U	1	10	OK
MW-36	Mercury	0.5	ug/L	U	1	0.5	OK
MW-36	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-36	Methylene Chloride	1	ug/L	U	1	1	OK
MW-36	Molybdenum	10	ug/L	U	1	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	1	20	OK
MW-36	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-36	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-36	Potassium	0.5	mg/L		1	0.5	OK
MW-36	Selenium	5	ug/L		1	5	OK
MW-36	Silver	10	ug/L	U	1	10	OK
MW-36	Sodium	5	mg/L		10	0.5	OK
MW-36	Sulfate	50	mg/L		50	1	OK
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		1	0.5	OK
MW-36	Tin	100	ug/L	U	1	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Uranium	0.3	ug/L		1	0.3	OK
MW-36	Vanadium	15	ug/L	U	1	15	OK
MW-36	Xylenes, total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	1	10	OK
MW-38	Acetone	20	ug/L	U	1	20	OK
MW-38	Arsenic	5	ug/L	U	1	5	OK
MW-38	Benzene	1	ug/L	U	1	1	OK
MW-38	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-38	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-38	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-38	Calcium	0.2	mg/L		1	0.5	OK
MW-38	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-38	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-38	Chloride	1	mg/L		1	1	OK
MW-38	Chloroform	1	ug/L	U	1	1	OK
MW-38	Chloromethane	1	ug/L	U	1	1	OK
MW-38	Chromium	25	ug/L	U	1	25	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-38	Cobalt	10	ug/L	U	1	10	OK
MW-38	Copper	10	ug/L	U	1	10	OK
MW-38	Fluoride	0.1	mg/L		1	0.1	OK
MW-38	Gross Radium Alpha	0.928	pCi/L	U	1	1	OK
MW-38	Iron	30	ug/L	U	1	30	OK
MW-38	Lead	1	ug/L	U	1	1	OK
MW-38	Magnesium	0.2	mg/L		1	0.5	OK
MW-38	Manganese	10	ug/L	U	1	10	OK
MW-38	Mercury	0.5	ug/L	U	1	0.5	OK
MW-38	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-38	Methylene Chloride	1	ug/L	U	1	1	OK
MW-38	Molybdenum	10	ug/L	U	1	10	OK
MW-38	Naphthalene	1	ug/L	U	1	1	OK
MW-38	Nickel	20	ug/L	U	1	20	OK
MW-38	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-38	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-38	Potassium	0.5	mg/L		1	0.5	OK
MW-38	Selenium	5	ug/L		1	5	OK
MW-38	Silver	10	ug/L	U	1	10	OK
MW-38	Sodium	0.5	mg/L		1	0.5	OK
MW-38	Sulfate	100	mg/L		100	1	OK
MW-38	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-38	Thallium	0.5	ug/L	U	1	0.5	OK
MW-38	Tin	100	ug/L	U	1	100	OK
MW-38	Toluene	1	ug/L	U	1	1	OK
MW-38	Total Dissolved Solids	20	MG/L		2	10	OK
MW-38	Uranium	0.3	ug/L		1	0.3	OK
MW-38	Vanadium	15	ug/L	U	1	15	OK
MW-38	Xylenes, total	1	ug/L	U	1	1	OK
MW-38	Zinc	10	ug/L	U	1	10	OK
MW-39	Acetone	20	ug/L	U	1	20	OK
MW-39	Arsenic	5	ug/L	U	1	5	OK
MW-39	Benzene	1	ug/L	U	1	1	OK
MW-39	Beryllium	0.5	ug/L		1	0.5	OK
MW-39	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-39	Cadmium	0.5	ug/L		1	0.5	OK
MW-39	Calcium	0.2	mg/L		1	0.5	OK
MW-39	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-39	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-39	Chloride	1	mg/L		1	1	OK
MW-39	Chloroform	1	ug/L	U	1	1	OK
MW-39	Chloromethane	1	ug/L	U	1	1	OK
MW-39	Chromium	25	ug/L	U	1	25	OK
MW-39	Cobalt	10	ug/L		1	10	OK
MW-39	Copper	10	ug/L		1	10	OK
MW-39	Fluoride	0.1	mg/L		1	0.1	OK
MW-39	Gross Radium Alpha	0.904	pCi/L		1	1	OK
MW-39	Iron	30	ug/L		1	30	OK
MW-39	Lead	1	ug/L	U	1	1	OK
MW-39	Magnesium	0.2	mg/L		1	0.5	OK
MW-39	Manganese	10	ug/L		1	10	OK
MW-39	Mercury	0.5	ug/L	U	1	0.5	OK
MW-39	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-39	Methylene Chloride	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-39	Molybdenum	10	ug/L	U	1	10	OK
MW-39	Naphthalene	1	ug/L	U	1	1	OK
MW-39	Nickel	20	ug/L		1	20	OK
MW-39	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-39	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-39	Potassium	0.5	mg/L		1	0.5	OK
MW-39	Selenium	5	ug/L		1	5	OK
MW-39	Silver	10	ug/L	U	1	10	OK
MW-39	Sodium	0.5	mg/L		1	0.5	OK
MW-39	Sulfate	50	mg/L		50	1	OK
MW-39	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-39	Thallium	0.5	ug/L		1	0.5	OK
MW-39	Tin	100	ug/L	U	1	100	OK
MW-39	Toluene	1	ug/L	U	1	1	OK
MW-39	Total Dissolved Solids	20	MG/L		2	10	OK
MW-39	Uranium	0.3	ug/L		1	0.3	OK
MW-39	Vanadium	15	ug/L	U	1	15	OK
MW-39	Xylenes, total	1	ug/L	U	1	1	OK
MW-39	Zinc	10	ug/L		1	10	OK
MW-40	Acetone	20	ug/L	U	1	20	OK
MW-40	Arsenic	5	ug/L	U	1	5	OK
MW-40	Benzene	1	ug/L	U	1	1	OK
MW-40	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-40	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-40	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-40	Calcium	0.2	mg/L		1	0.5	OK
MW-40	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-40	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-40	Chloride	1	mg/L		1	1	OK
MW-40	Chloroform	1	ug/L	U	1	1	OK
MW-40	Chloromethane	1	ug/L	U	1	1	OK
MW-40	Chromium	25	ug/L	U	1	25	OK
MW-40	Cobalt	10	ug/L	U	1	10	OK
MW-40	Copper	10	ug/L	U	1	10	OK
MW-40	Fluoride	0.1	mg/L		1	0.1	OK
MW-40	Gross Radium Alpha	0.899	pCi/L	U	1	1	OK
MW-40	Iron	30	ug/L	U	1	30	OK
MW-40	Lead	1	ug/L	U	1	1	OK
MW-40	Magnesium	0.2	mg/L		1	0.5	OK
MW-40	Manganese	10	ug/L		1	10	OK
MW-40	Mercury	0.5	ug/L	U	1	0.5	OK
MW-40	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-40	Methylene Chloride	1	ug/L	U	1	1	OK
MW-40	Molybdenum	10	ug/L	U	1	10	OK
MW-40	Naphthalene	1	ug/L	U	1	1	OK
MW-40	Nickel	20	ug/L	U	1	20	OK
MW-40	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-40	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-40	Potassium	0.5	mg/L		1	0.5	OK
MW-40	Selenium	5	ug/L		1	5	OK
MW-40	Silver	10	ug/L	U	1	10	OK
MW-40	Sodium	0.5	mg/L		1	0.5	OK
MW-40	Sulfate	50	mg/L		50	1	OK
MW-40	Tetrahydrofuran	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-40	Thallium	0.5	ug/L	U	1	0.5	OK
MW-40	Tin	100	ug/L	U	1	100	OK
MW-40	Toluene	1	ug/L	U	1	1	OK
MW-40	Total Dissolved Solids	20	MG/L		2	10	OK
MW-40	Uranium	0.3	ug/L		1	0.3	OK
MW-40	Vanadium	15	ug/L	U	1	15	OK
MW-40	Xylenes, total	1	ug/L	U	1	1	OK
MW-40	Zinc	10	ug/L	U	1	10	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Arsenic	5	ug/L	U	1	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-65	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-65	Calcium	0.2	mg/L		1	0.5	OK
MW-65	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-65	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-65	Chloride	1	mg/L		1	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	1	25	OK
MW-65	Cobalt	10	ug/L	U	1	10	OK
MW-65	Copper	10	ug/L	U	1	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.884	pCi/L		1	1	OK
MW-65	Iron	30	ug/L	U	1	30	OK
MW-65	Lead	1	ug/L	U	1	1	OK
MW-65	Magnesium	0.2	mg/L		1	0.5	OK
MW-65	Manganese	10	ug/L	U	1	10	OK
MW-65	Mercury	0.5	ug/L	U	1	0.5	OK
MW-65	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-65	Methylene Chloride	1	ug/L	U	1	1	OK
MW-65	Molybdenum	10	ug/L	U	1	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	1	20	OK
MW-65	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-65	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-65	Potassium	0.5	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L		1	5	OK
MW-65	Silver	10	ug/L	U	1	10	OK
MW-65	Sodium	0.5	mg/L		1	0.5	OK
MW-65	Sulfate	100	mg/L		100	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L	U	1	0.5	OK
MW-65	Tin	100	ug/L	U	1	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Uranium	0.3	ug/L		1	0.3	OK
MW-65	Vanadium	15	ug/L	U	1	15	OK
MW-65	Xylenes, total	1	ug/L	U	1	1	OK
MW-65	Zinc	10	ug/L	U	1	10	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	10	ug/L		1	10	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	10	ug/L		1	10	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Chloride	5	mg/L		5	1	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-31	Sulfate	20	mg/L		20	1	OK
MW-31	Chloride	1	mg/L		1	1	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Chloride	5	mg/L		5	1	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Chloride	100	mg/L		100	1	OK
MW-65	Uranium	0.3	ug/L		1	0.3	OK
MW-65	Selenium	5	ug/L		1	5	OK
MW-65	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK

G-6A: Quarterly Sample Trip Blank Evaluation

Lab Report	Constituent	Result
CTF 22G1280	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	ND
	Toluene	ND
	Xylenes, Total	ND
CTF 22G1743	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	ND
	Toluene	ND
	Xylenes, Total	ND

G-6B: Accelerated Sample Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

Blank	Sample Date	Laboratory
CTF 22H1255 - August	8/9/2022	CTF
CTF 22F0888 - September	9/22/2022	CTF

G-7A: QA/QC Evaluation for Quarterly Sample Duplicates

Constituent	MW-38 7/20/22	MW-65 7/20/22	%RPD
Bicarbonate as CaCO ₃ (mg/L)	103	102	0.98
Calcium (mg/L)	461	509	9.90
Chloride (mg/L)	44.5	44.4	0.22
Fluoride (mg/L)	0.291	0.395	30.32
Magnesium (mg/L)	190	206	8.08
Nitrate + Nitrite (as N) (mg/L)	14.4	14.1	2.11
Potassium (mg/L)	26.6	27.0	1.49
Selenium (mg/L)	0.156	0.154	1.29
Sodium (mg/L)	387	386	0.26
Sulfate (mg/L)	2490	2480	0.40
TDS (mg/L)	3910	3950	1.02
Uranium (mg/L)	0.0060	0.0060	0.00

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-30 8/9/22	MW-65 8/9/22	%RPD*
Nitrate + Nitrite (as N) (mg/L)	13.5	16.1	17.57
Selenium (mg/L)	0.0643	0.0638	0.78
Uranium (mg/L)	0.0101	0.0100	1.00
Chloride (mg/L)	185	180	2.74
TDS (mg/L)	1580	1700	7.32
Constituent	MW-25 9/20/22	MW-65 9/20/22	%RPD
Total Dissolved Solids (mg/L)	2750	2640	4.08

G-8A: Quarterly Sample Radiologies Counting Error

Well	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-11	1.00 U	0.327	NC	3.75	NC
MW-14	1.00 U	0.246	NC	7.5	NC
MW-24	2.55	0.449	Y	7.5	NC
MW-24A	3.56	0.653	Y	-	-
MW-25	1.00 U	0.253	NC	7.5	NC
MW-26	1.67	0.429	N	4.69	Y
MW-30	1.00 U	0.973	NC	3.75	NC
MW-31	1.22	0.412	N	7.5	Y
MW-36	1.00 U	0.340	NC	7.5	NC
MW-38	1.00 U	0.304	NC	-	-
MW-39	2.04	0.475	N	-	-
MW-40	1.00 U	0.280	NC	-	-
MW-65	1.14	0.354	NC	-	-

N/A - the counting error is less than 20% of the activity as required by the GWDP and this check column is not applicable.

NC = Not calculated. The sample results are nondetect and the check is not applicable.

G-8B: Radiologics Counting Error for Accelerated Samples

There are no accelerated samples collected for Gross Alpha.

G-9A: Quarterly Sample Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
22G1280	MW-11	Calcium*	NC	NC	70 - 130	NC	20
22G1280	MW-11	Sodium*	NC	NC	70 - 130	NC	20
22G1280	MW-11	Sulfate	109	128	80 - 120	2.37	20
22G1280	MW-11	Chloromethane	149	145	70 - 130	3.06	20
22G1743	MW-24	Calcium*	NC	NC	70 - 130	NC	20
22G1743	MW-24	Magnesium*	NC	NC	70 - 130	NC	20
22G1743	MW-24	Sodium*	NC	NC	70 - 130	NC	20
22G1743	MW-38	Calcium*	NC	NC	70 - 130	NC	20
22G1743	MW-38	Magnesium*	NC	NC	70 - 130	NC	20
22G1743	MW-38	Sodium*	NC	NC	70 - 130	NC	20
22G1743	MW-24	Manganese*	NC	**	70 - 130	**	**
22G1743	MW-24	Sulfate*	NC	NC	80 - 120	NC	20
22G1743	MW-38	Sulfate*	NC	NC	80 - 120	NC	20
22G1743	MW-38	Fluoride	63.7	64.5	80 - 120	1.18	20
22G1743	MW-38	Fluoride	82.0	77.2	80 - 120	3.55	20
22G1743	MW-38	Nitrate	90.2	70.7	80 - 120	1.19	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount.

NA - QC was not performed on an EFRI sample.

** CTF routine QC does not include a MSD for metals analyzed by 200.8. Precision is determined by other QC samples as allowed by the analytical method.

Method Blank Detections

All Method Blanks for the quarter were non-detect.

Laboratory Control Sample

Lab Report	Analyte	LCS %REC	REC Range
22G1280	Acetone	141	70 - 130
22G1280	Chloromethane	150	70 - 130
22G1743	Iron	117.0	85 - 115

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate	RPD %	RPD Range
22G1280	NA	Alkalinity (Carbonate (CaCO ₃))*	NC	NC	NC	10

* Recovery was not calculated due to the low analyte level in the sample.

NA - QC was not performed on an EFRI sample.

Surrogate % Recovery

All surrogate recoveries for the quarter were within laboratory acceptance limits.

G-9B: Accelerated Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
22H1255 - August Monthly	MW-26	Chloroform*	NC	NC	70 - 130	NC	20
22H1255 - August Monthly	MW-26	Carbon Tetrachloride	52.2	50.3	70 - 130	3.71	20
22H1255 - August Monthly	MW-26	Chloromethane	64.9	63.3	70 - 130	2.50	20
22I2016 - September Monthly	MW-11	Chloride	74.7	89.2	80 - 120	2.09	20
22I2016 - September Monthly	MW-11	Sulfate	68.6	60.6	80 - 120	1.120	20
22I2016 - September Monthly	NA	Sulfate*	NC	NC	80 - 120	NC	20
22I2016 - September Monthly	MW-26	Chloroform*	NC	NC	70 - 130	NC	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

NA - QC was not performed on an EFRI sample.

Laboratory Control Sample

All Laboratory Control Samples were within acceptance limits for the quarter.

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicates were within acceptance limits for the quarter.

Method Blank Detections

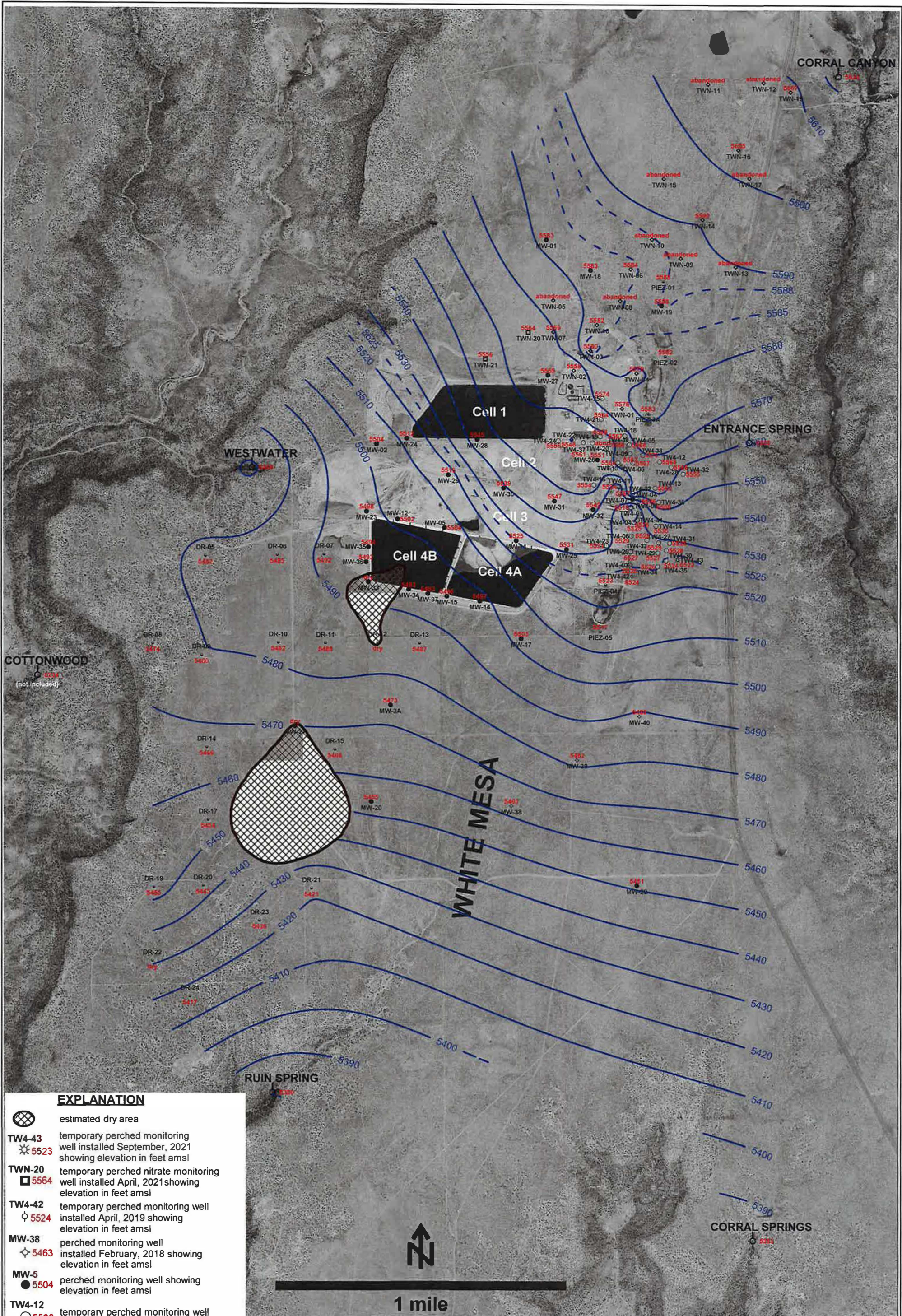
All Method Blanks for the quarter were non-detect.

Surrogate % Recovery

All surrogate recoveries for the quarter were within laboratory acceptance limits.

Tab H

Kriged Current Quarterly Groundwater Contour Map



EXPLANATION	
	estimated dry area
TW4-43	temporary perched monitoring well installed September, 2021 showing elevation in feet amsl
TWN-20	temporary perched nitrate monitoring well installed April, 2021 showing elevation in feet amsl
TW4-42	temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
MW-38	perched monitoring well installed February, 2018 showing elevation in feet amsl
MW-5	perched monitoring well showing elevation in feet amsl
TW4-12	temporary perched monitoring well showing elevation in feet amsl
TWN-7	temporary perched nitrate monitoring well showing elevation in feet amsl
PIEZ-1	perched piezometer showing elevation in feet amsl
RUIN SPRING	seep or spring showing elevation in feet amsl

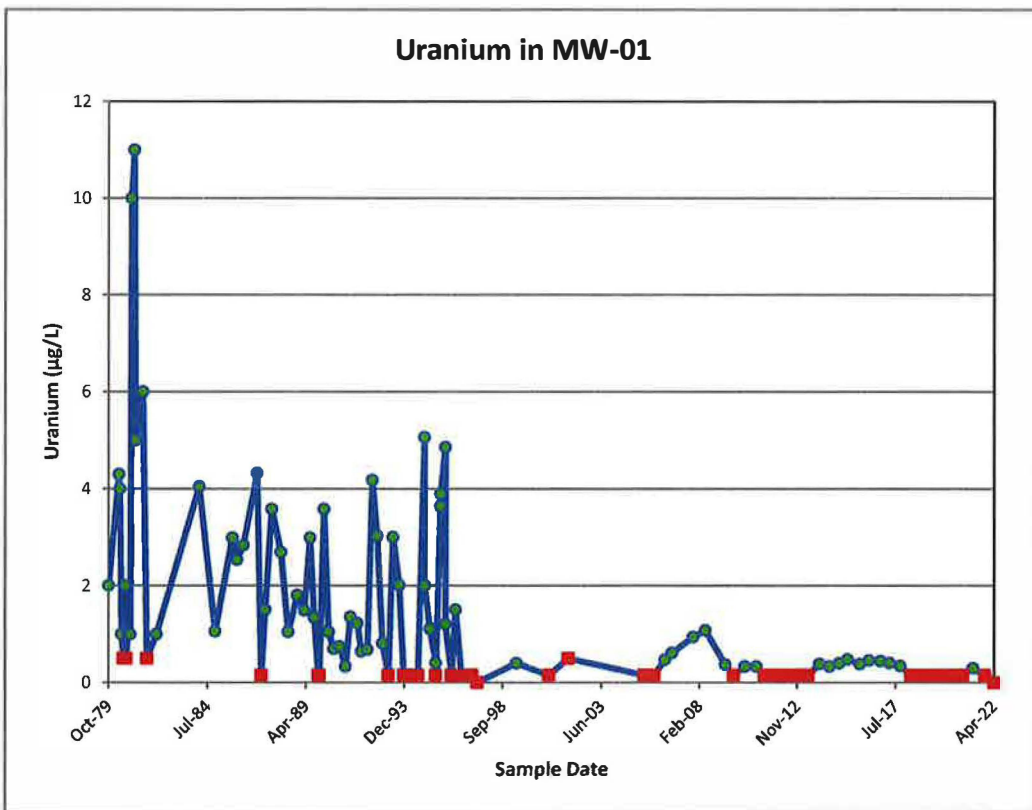
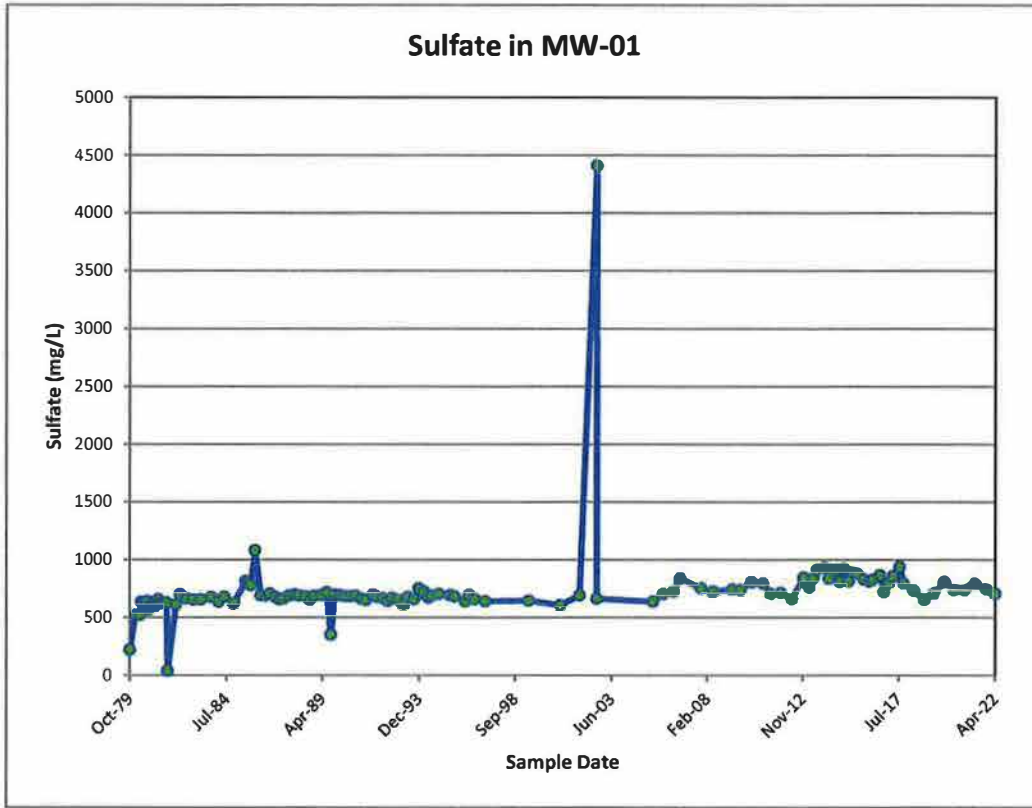
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

	HYDRO GEO CHEM, INC.		KRIGED 3rd QUARTER, 2022 WATER LEVELS WHITE MESA SITE	
	APPROVED	DATE	REFERENCE	FIGURE
			H:718000/nov22/WL/Uwl0922.srf	H-1

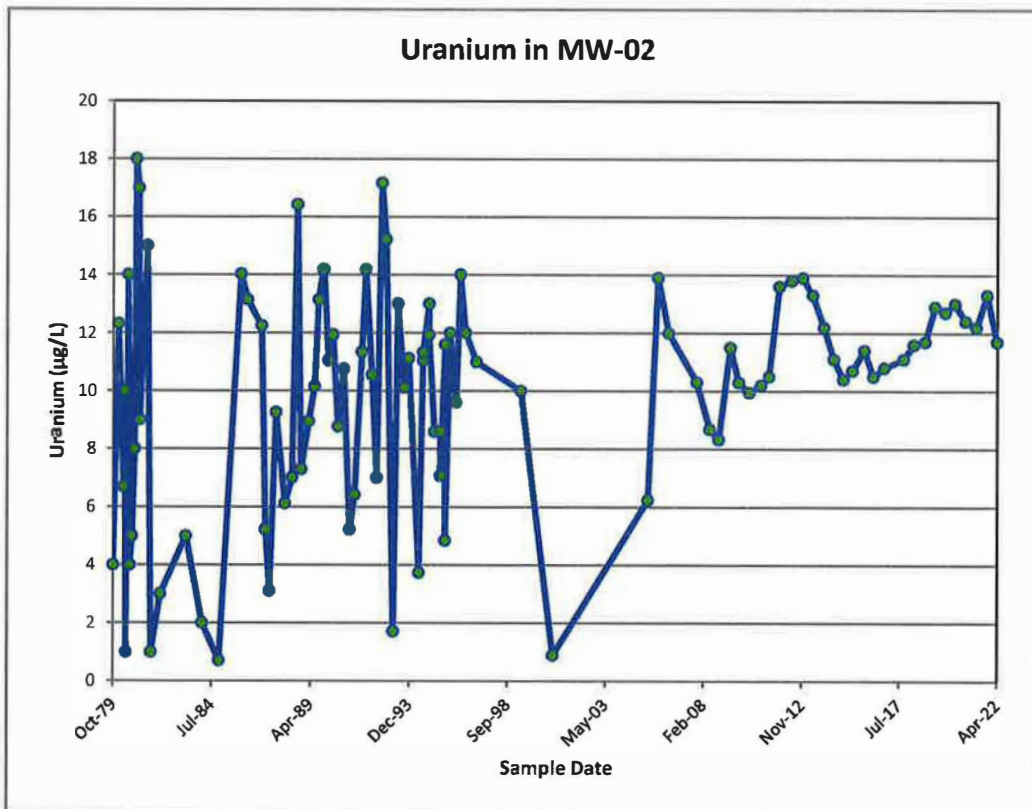
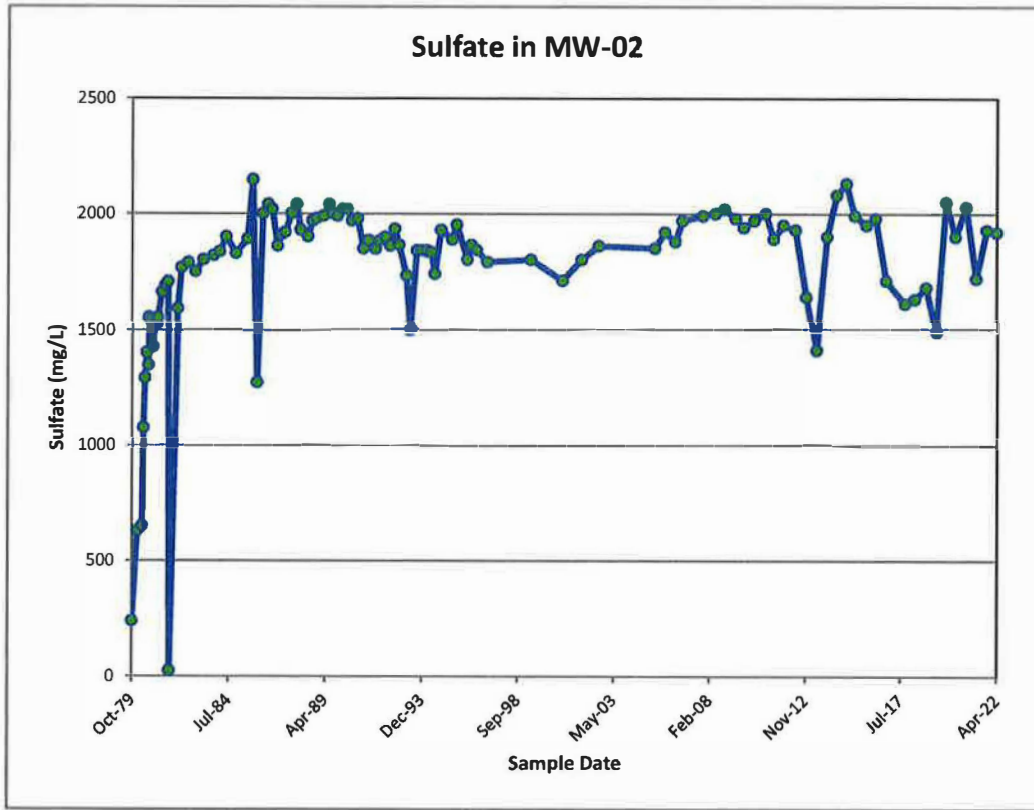
Tab I

Groundwater Time Concentration Plots

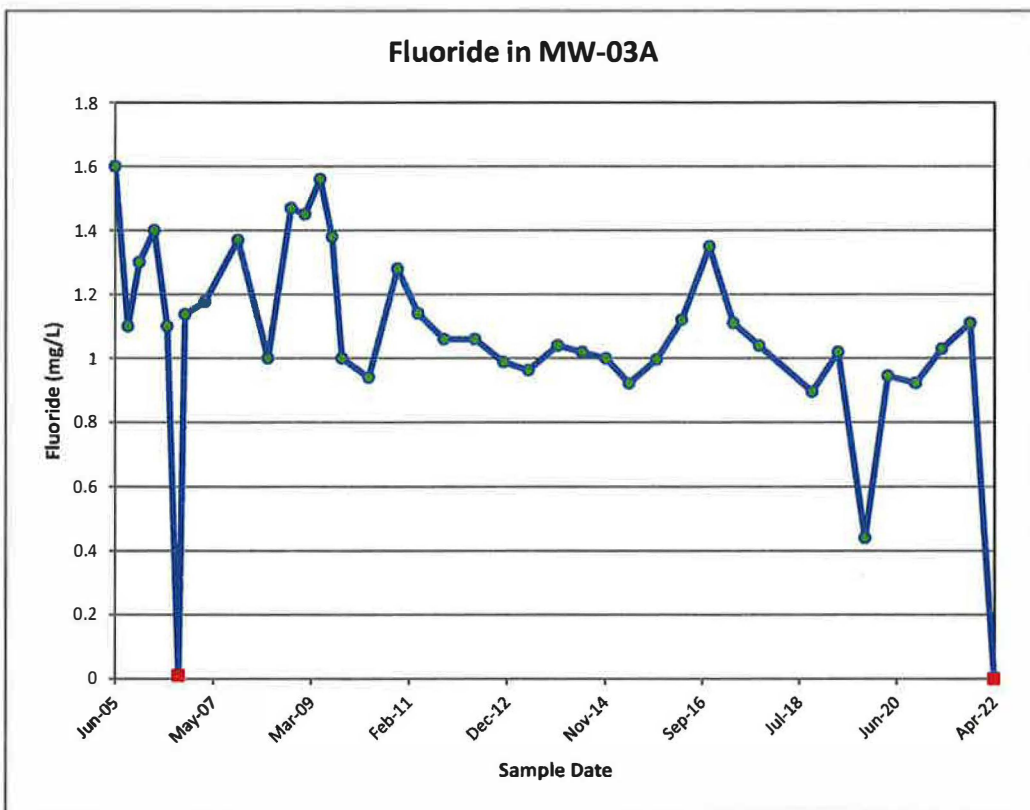
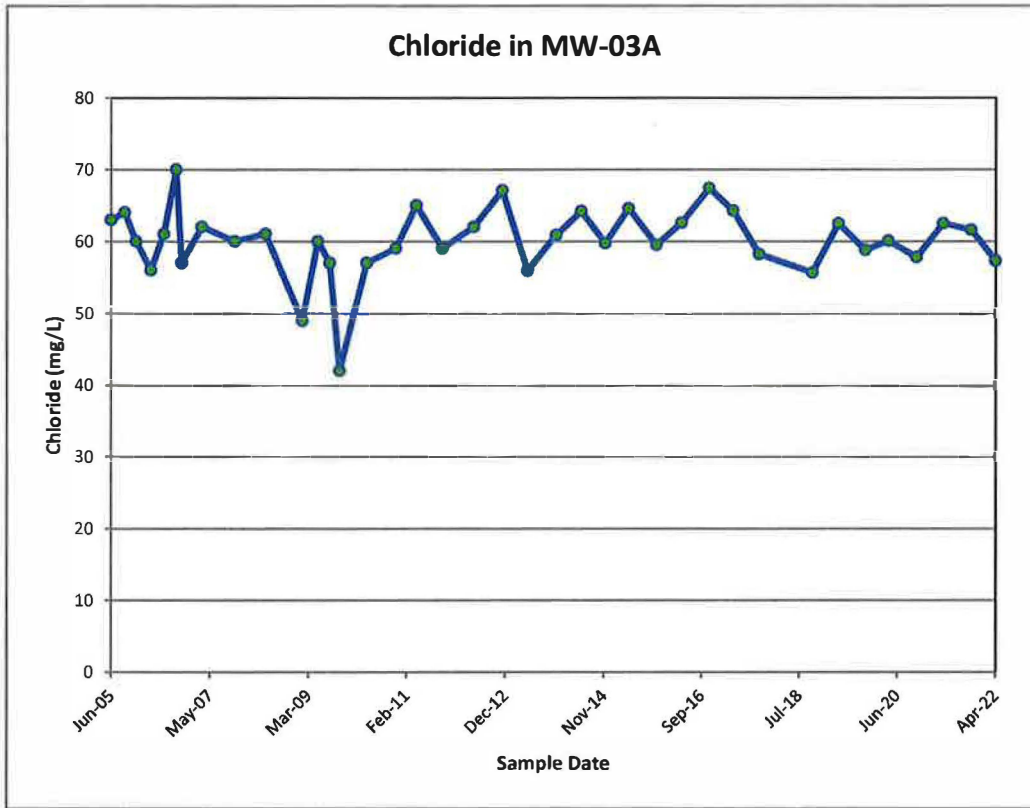
Time concentration plots for MW-01



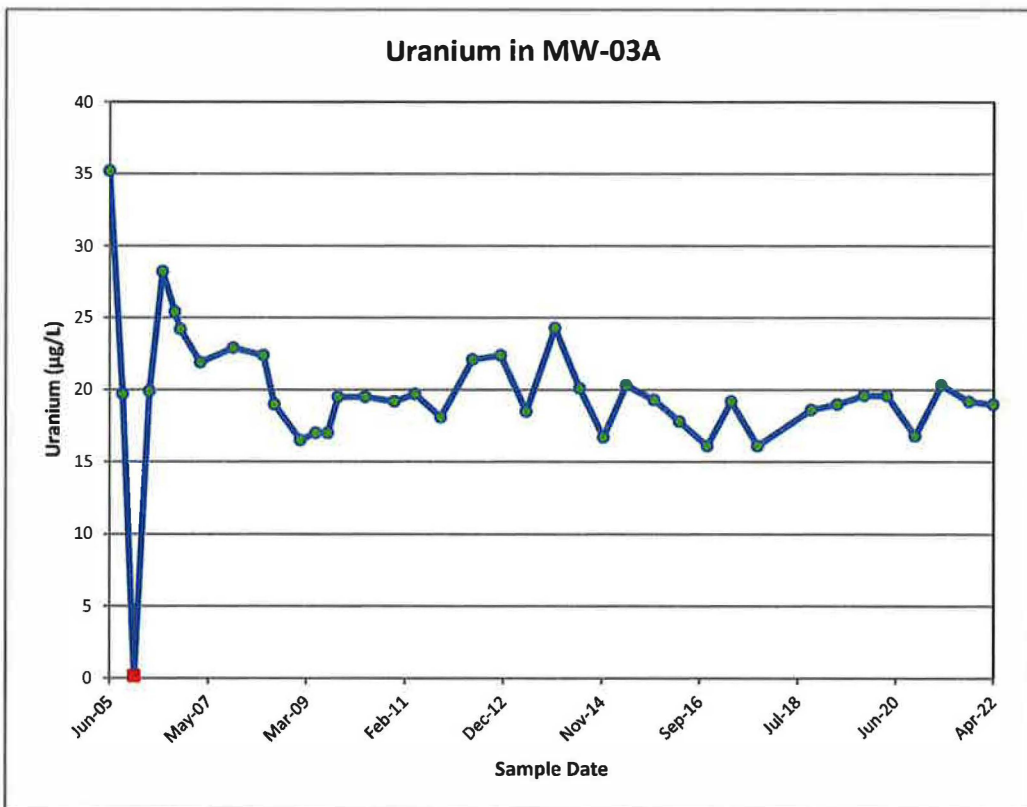
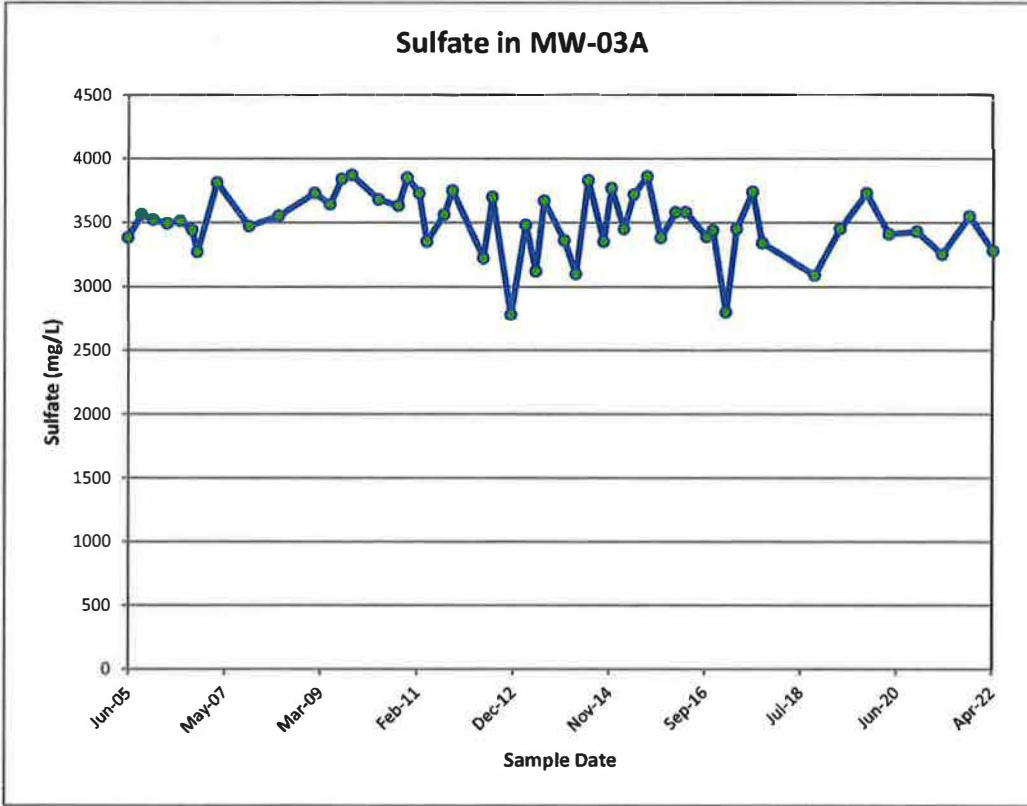
Time concentration plots for MW-02



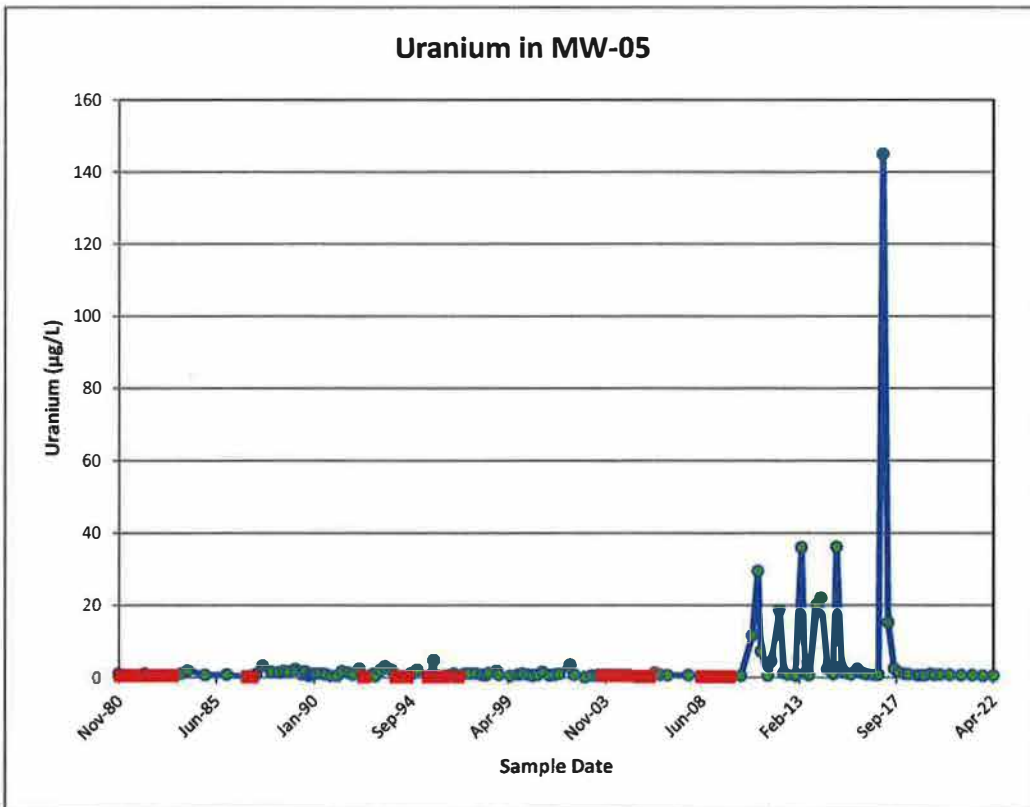
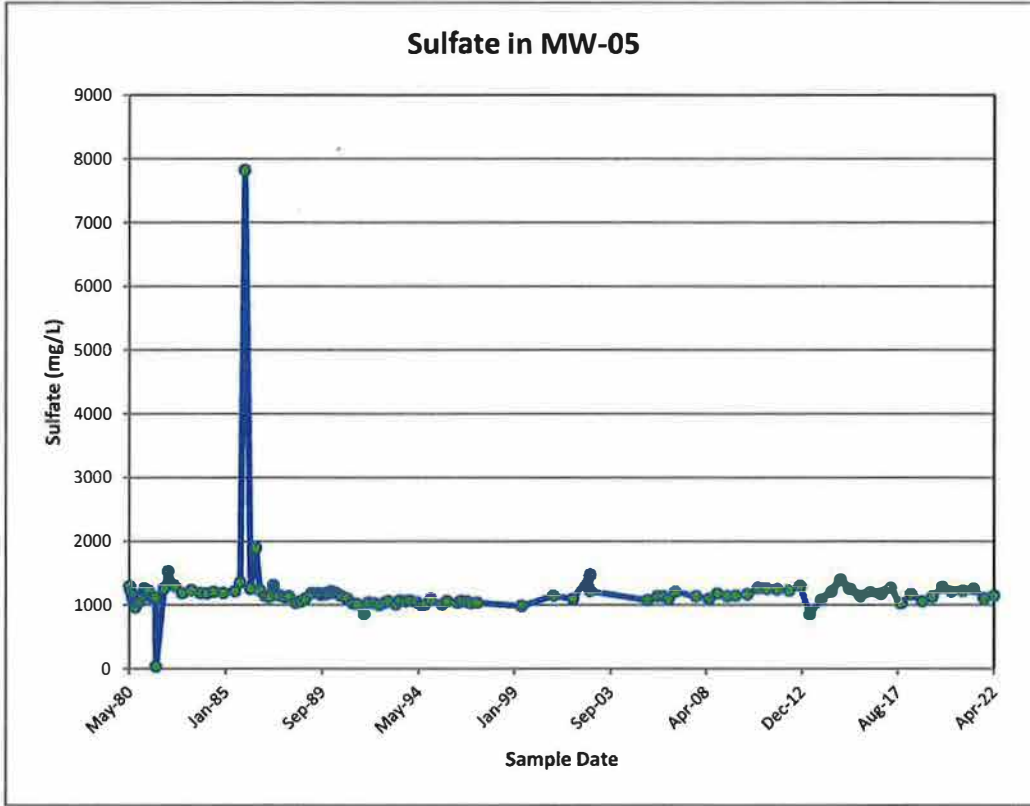
Time concentration plots for MW-03A



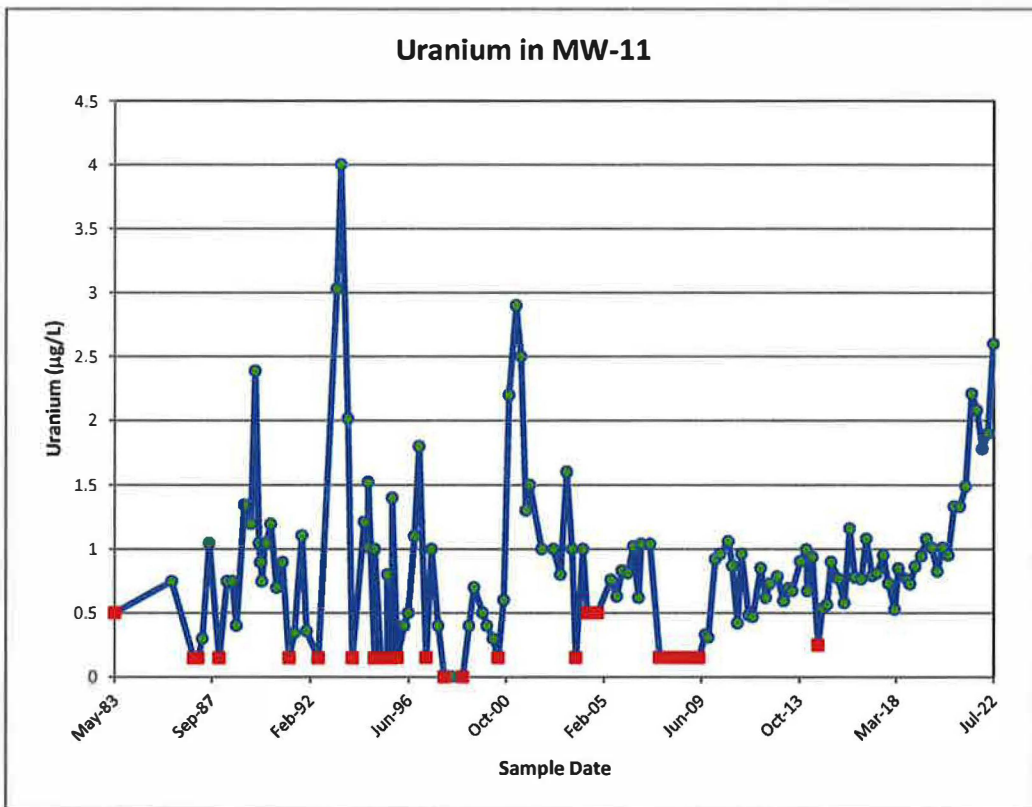
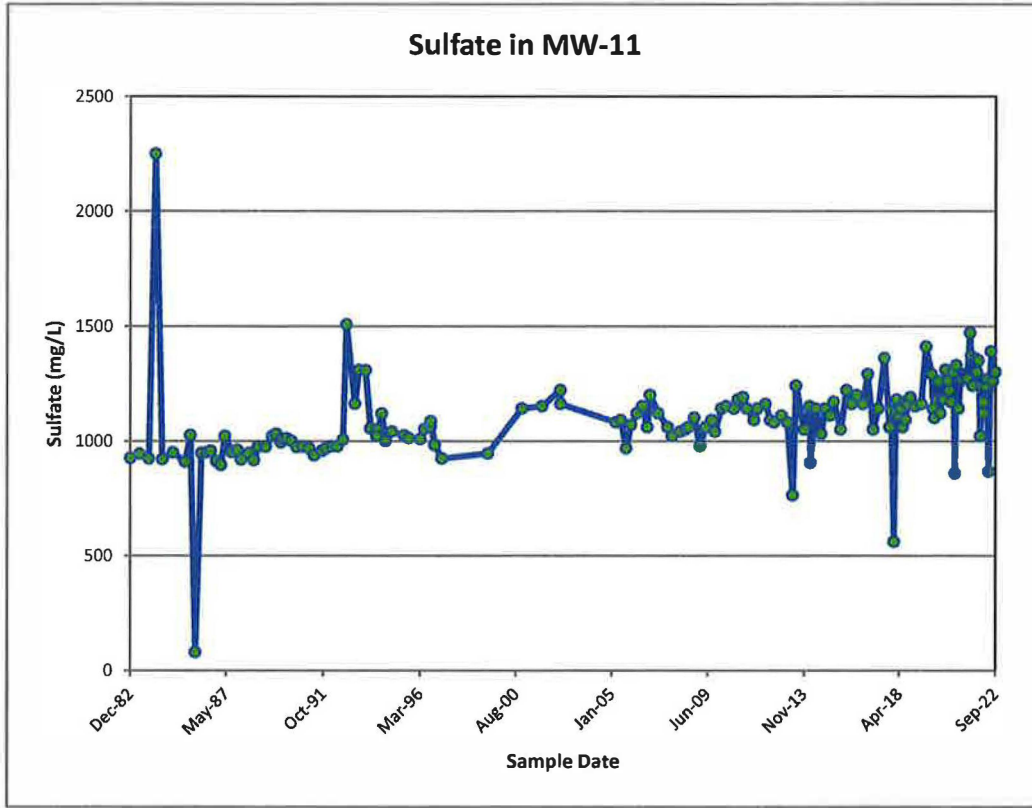
Time concentration plots for MW-03A



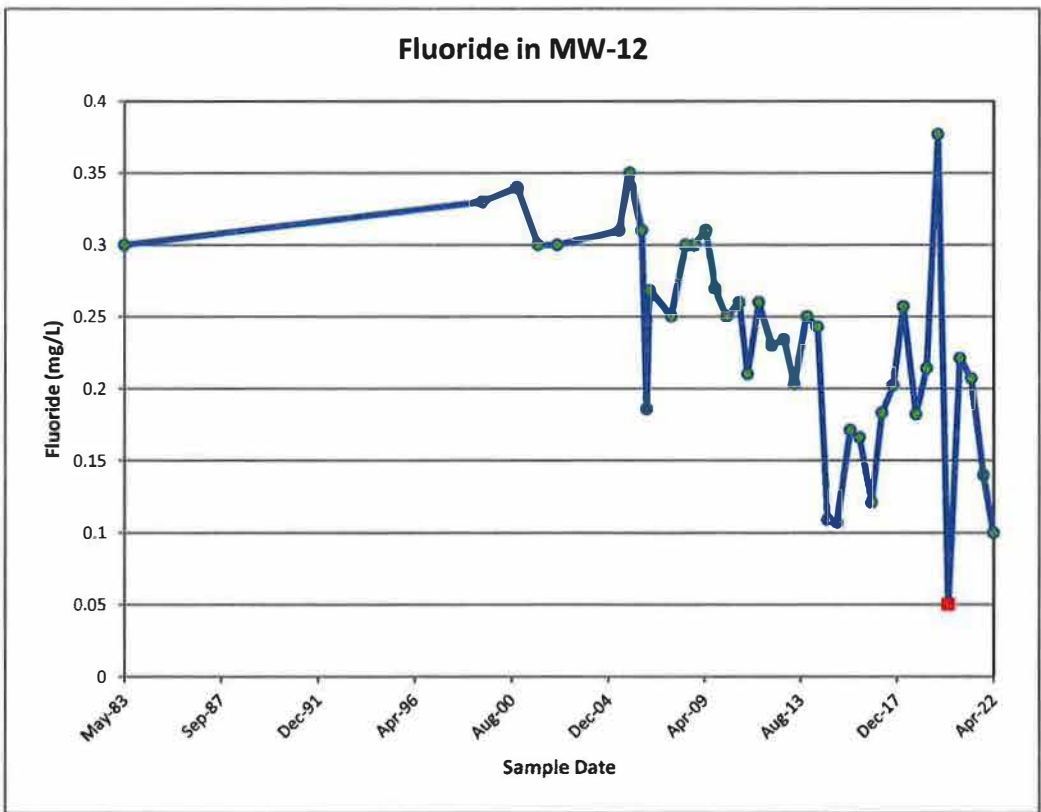
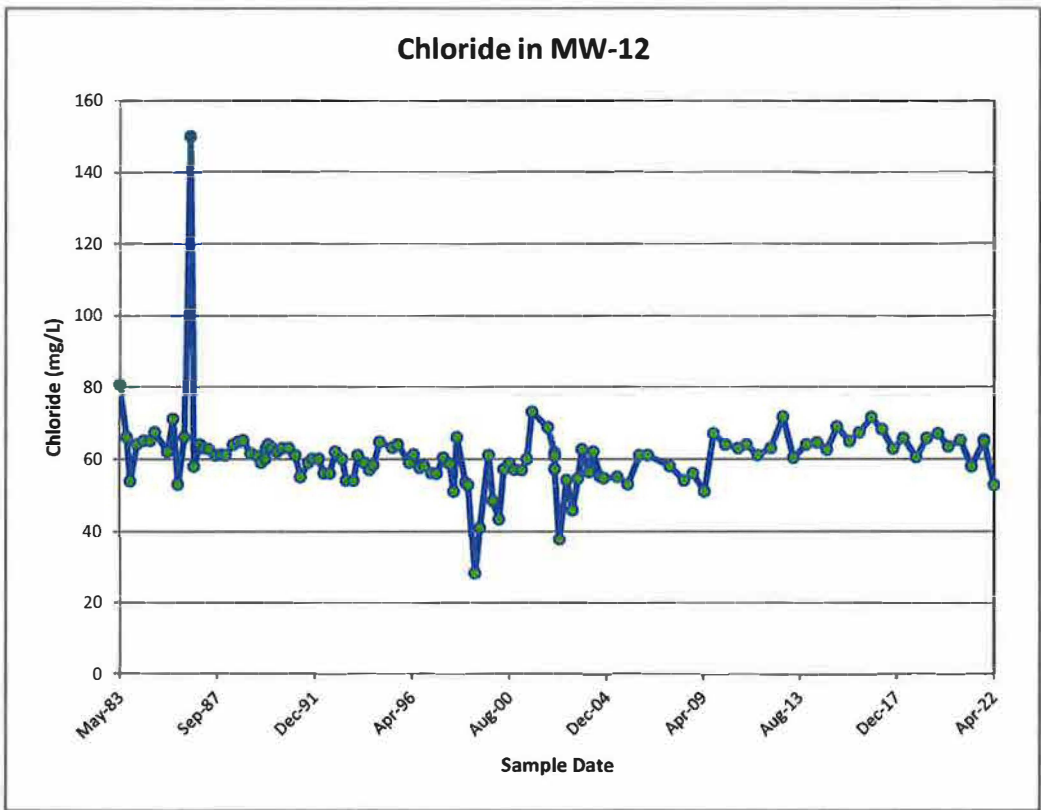
Time concentration plots for MW-05



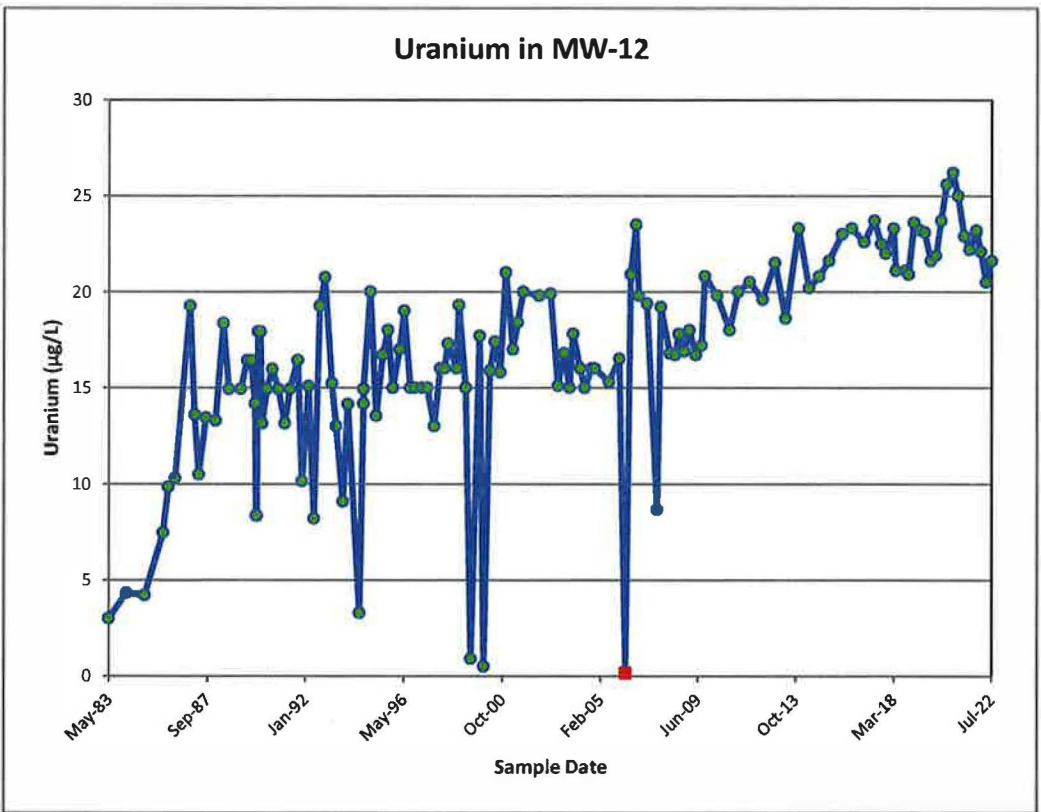
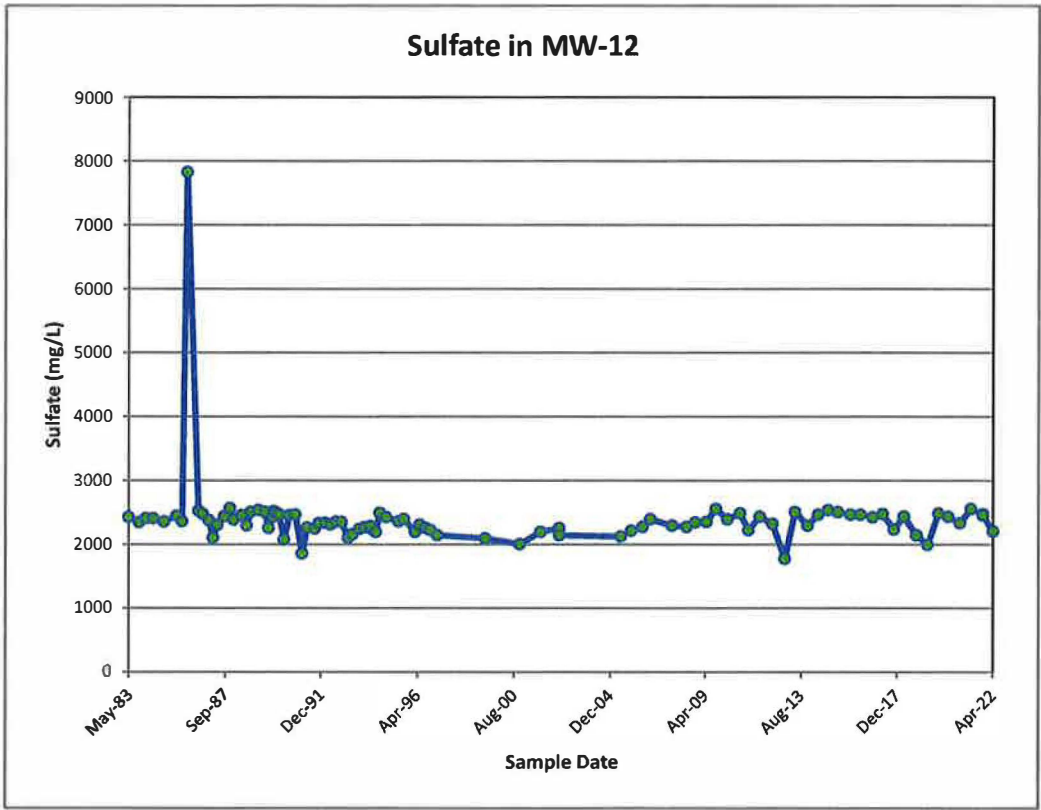
Time concentration plots for MW-11



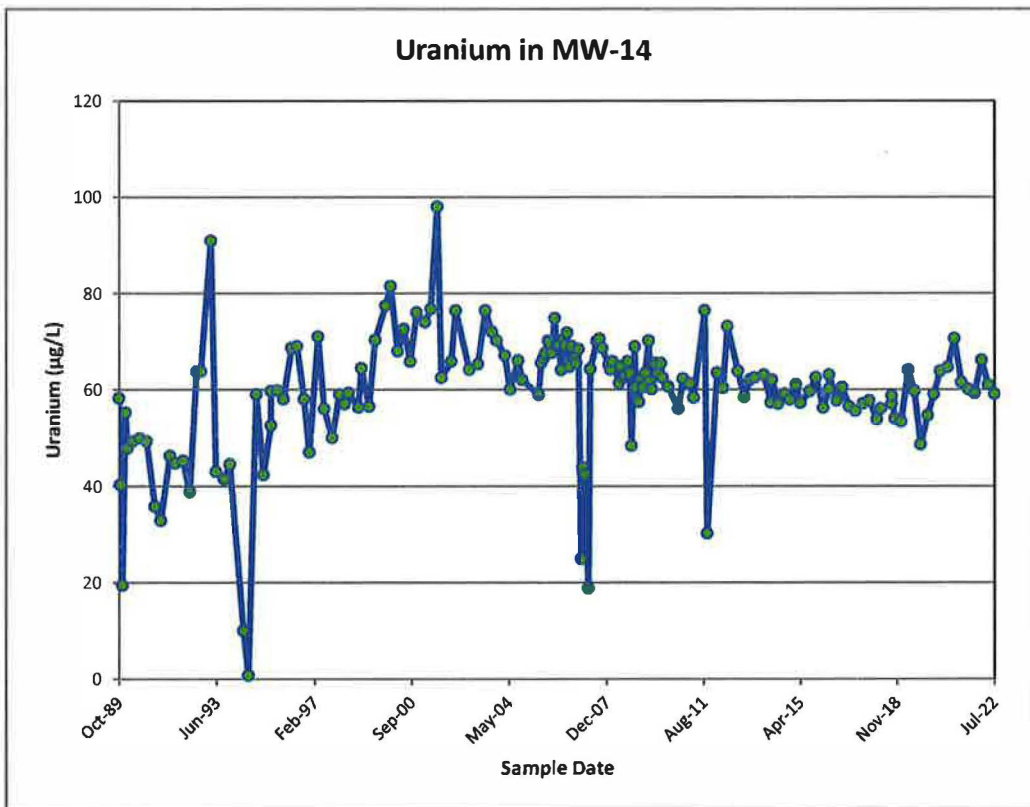
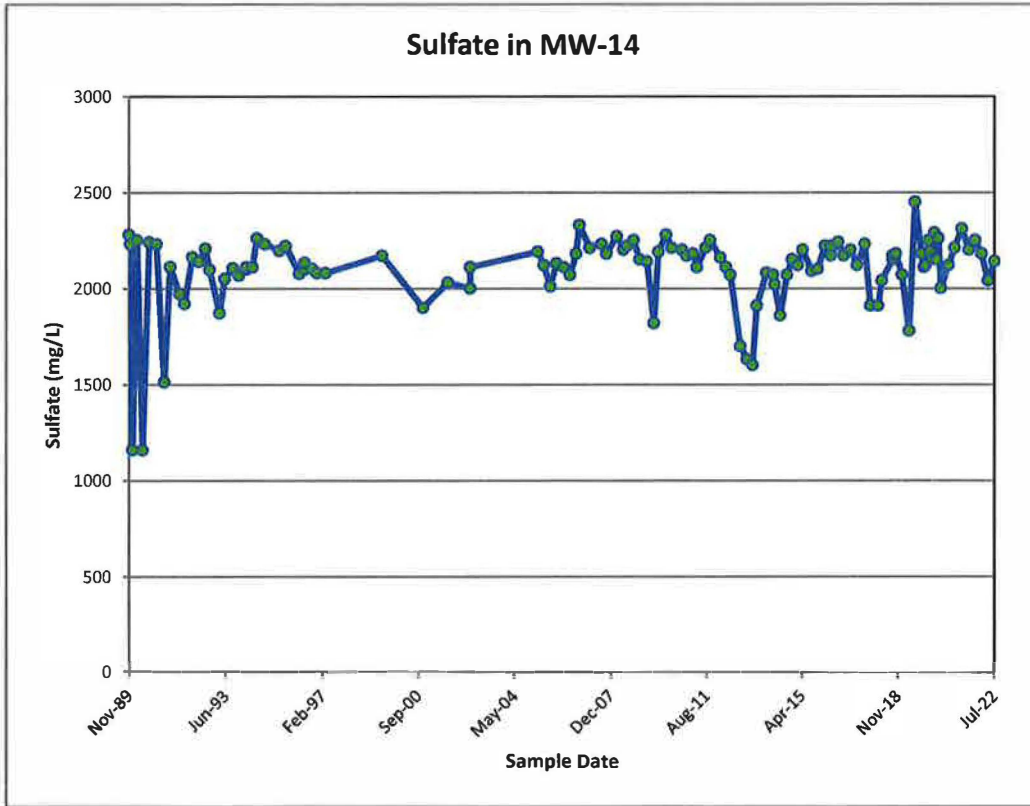
Time concentration plots for MW-12



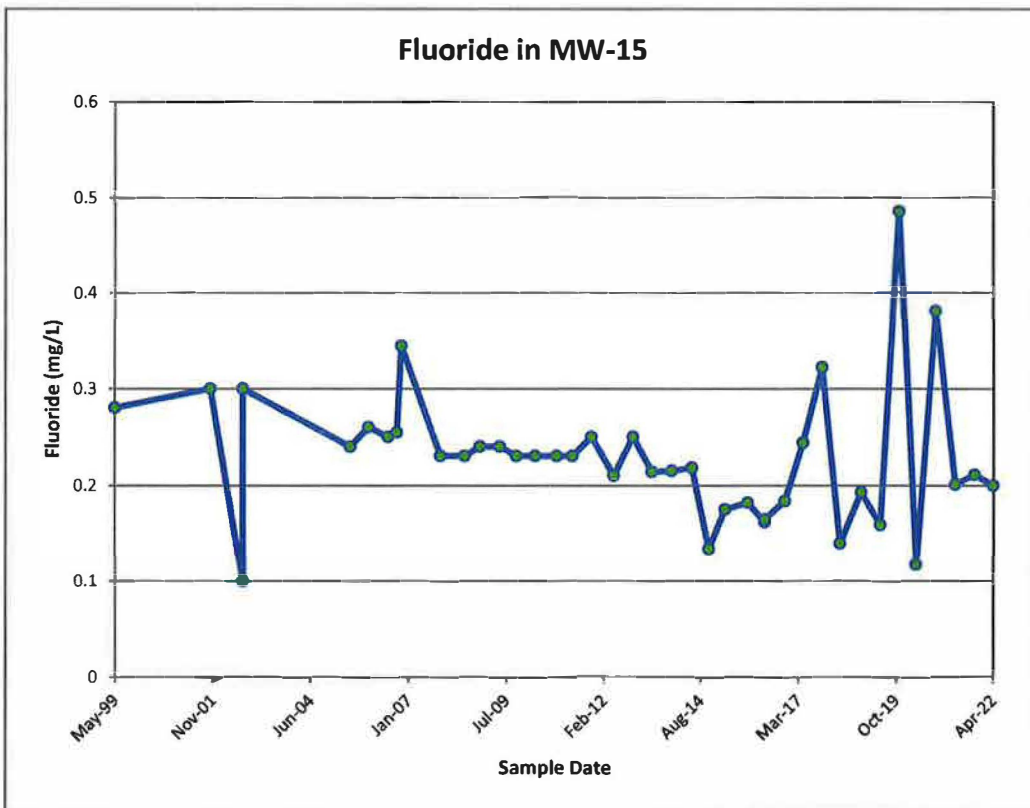
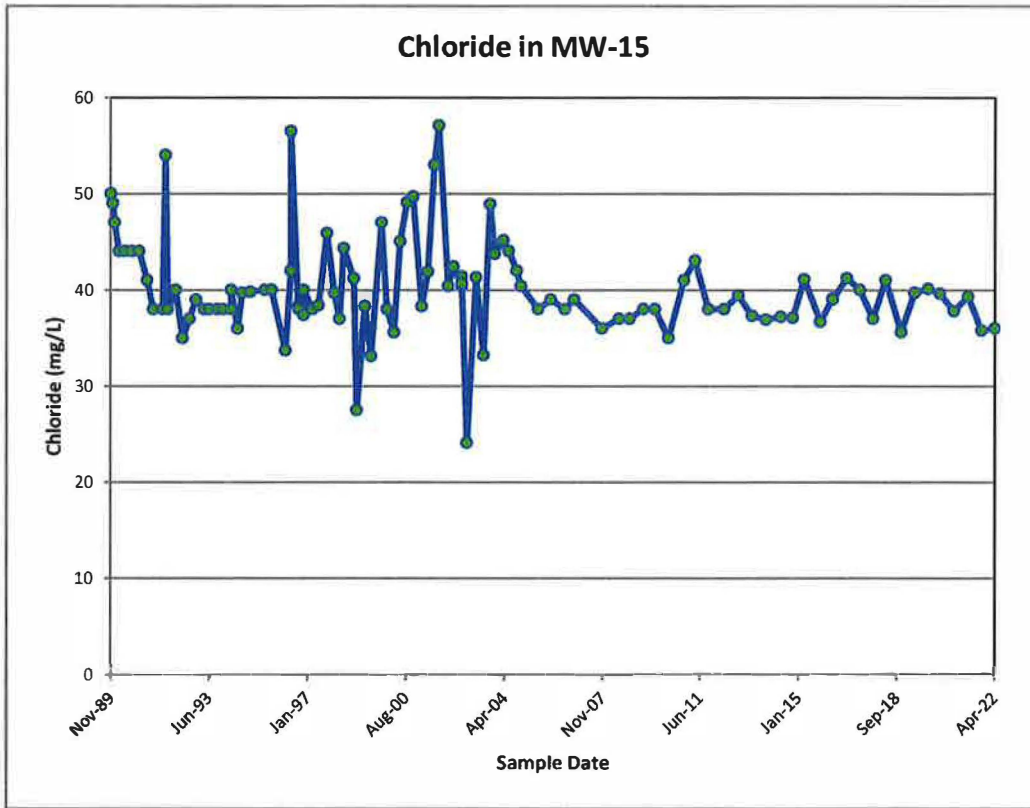
Time concentration plots for MW-12



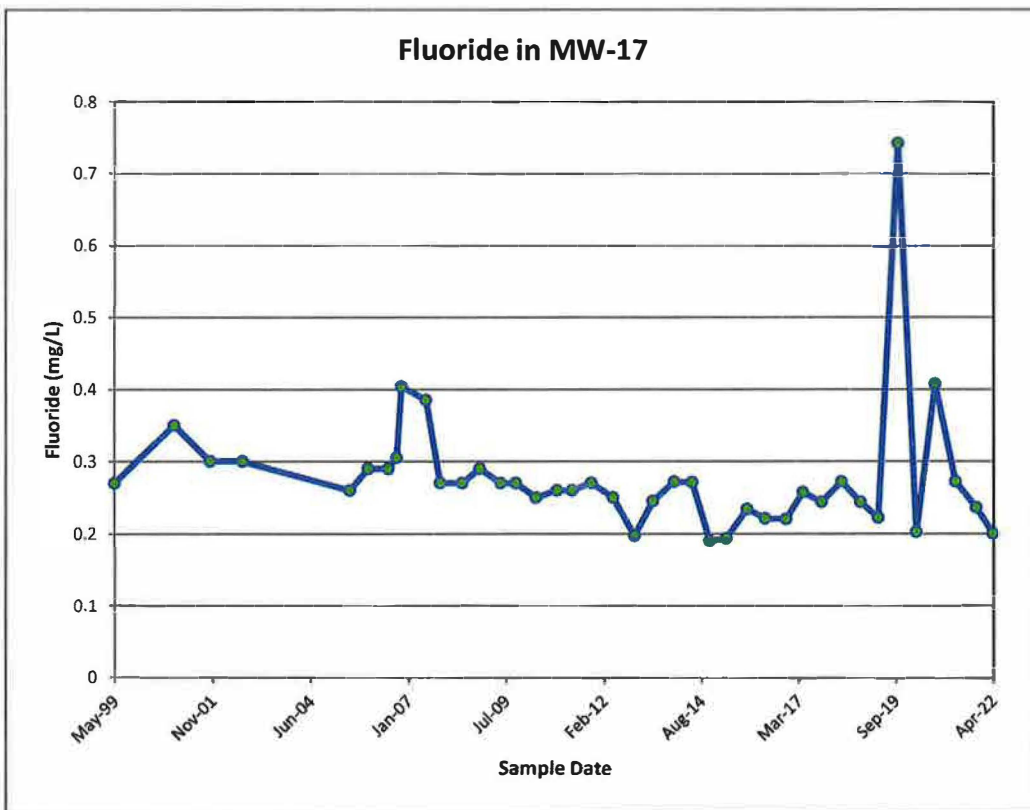
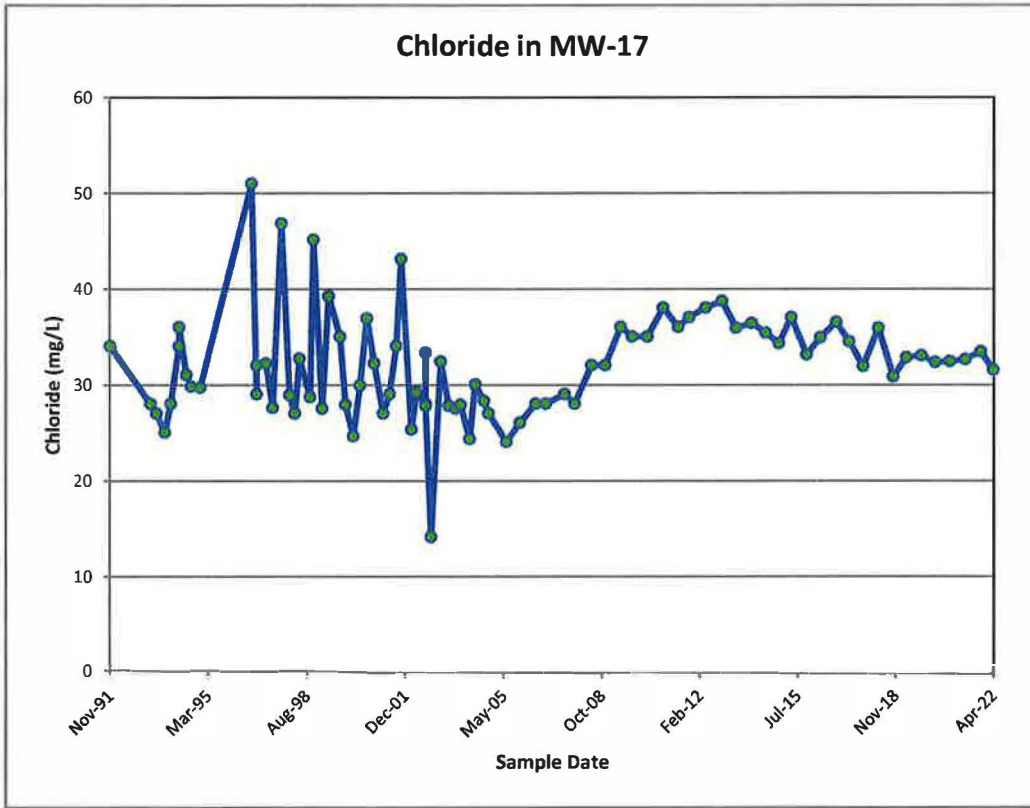
Time concentration plots for MW-14



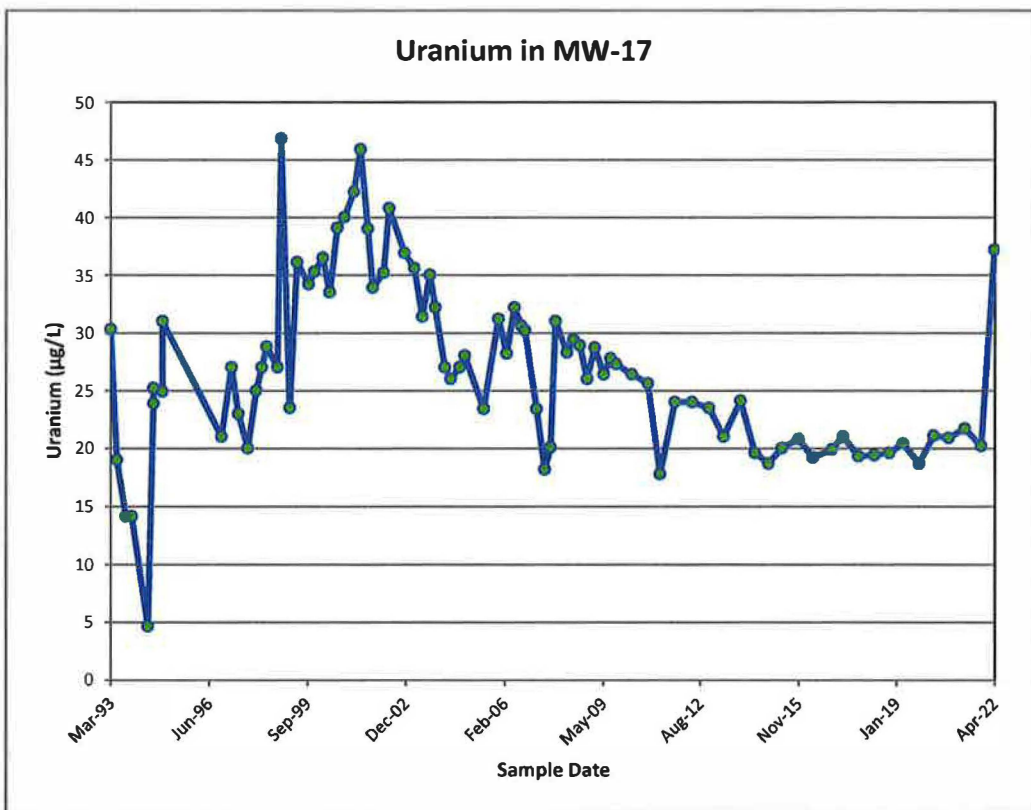
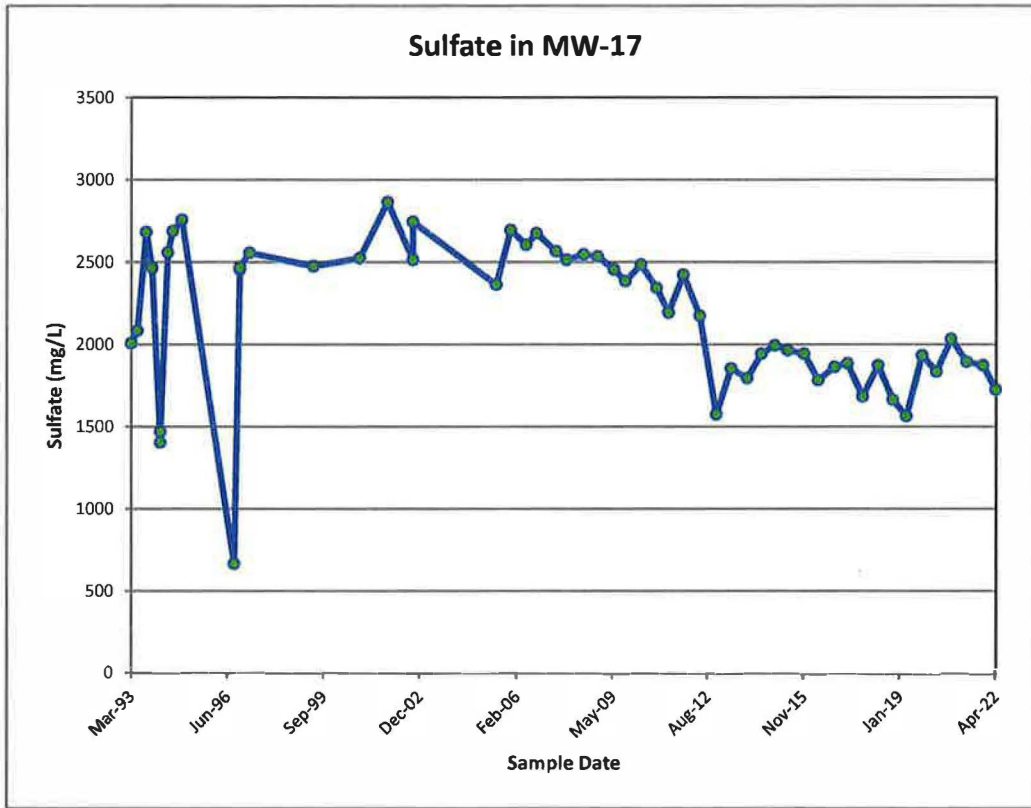
Time concentration plots for MW-15



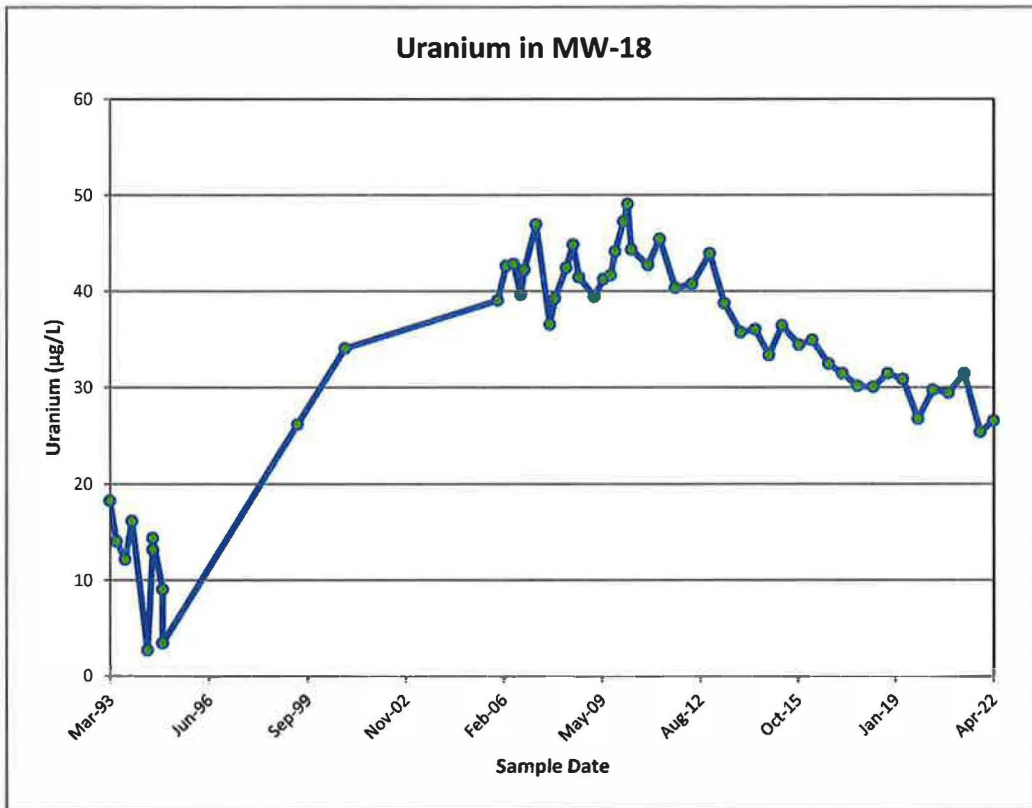
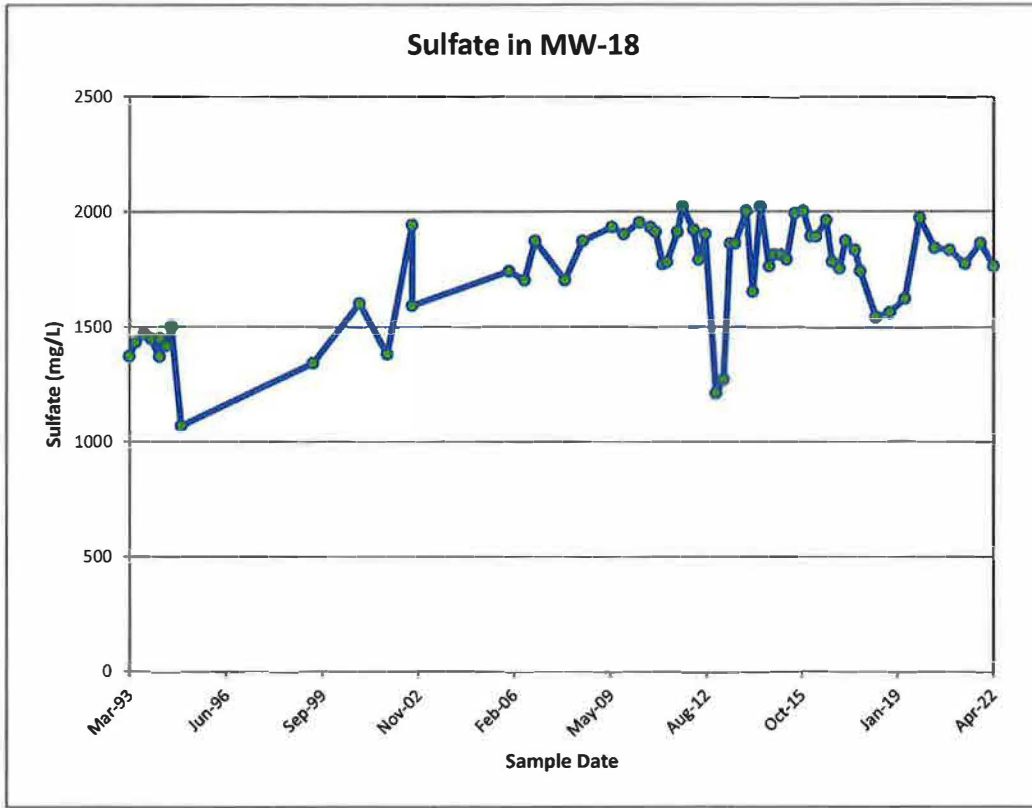
Time concentration plots for MW-17



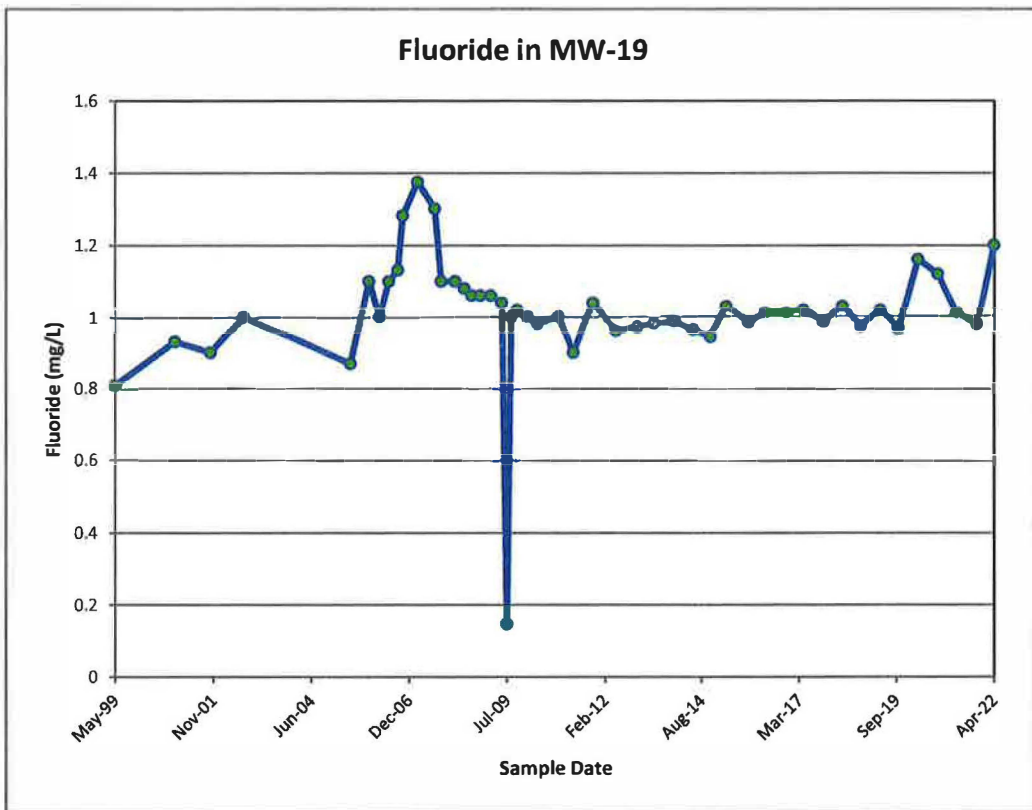
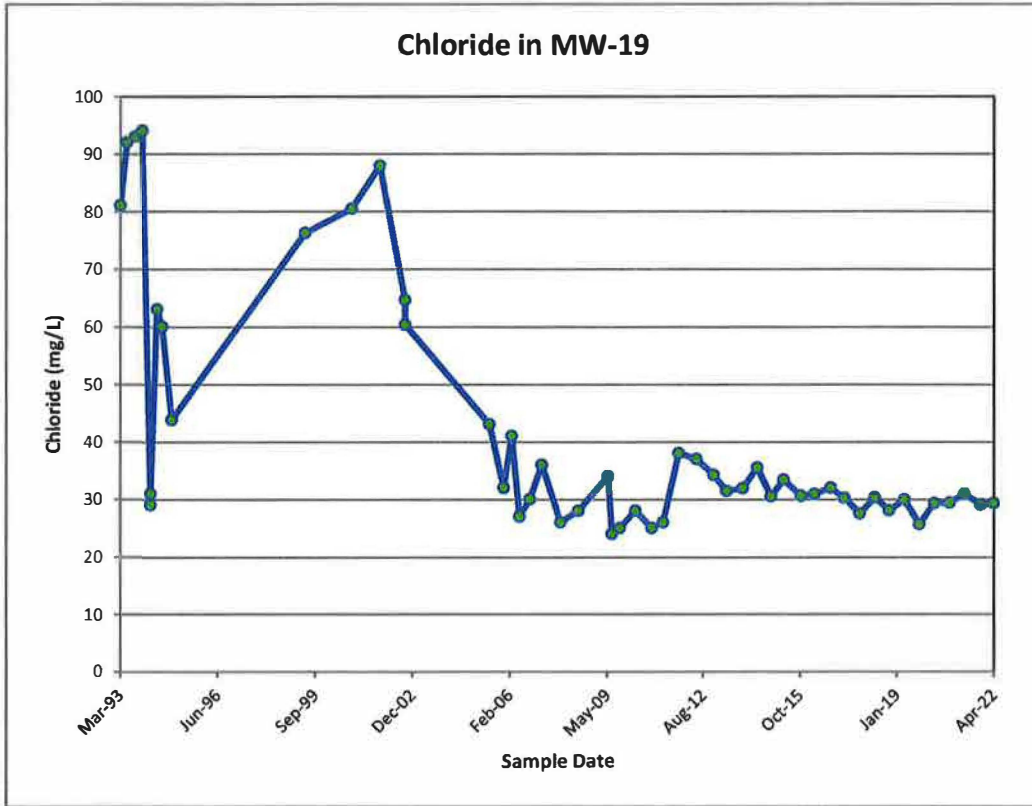
Time concentration plots for MW-17



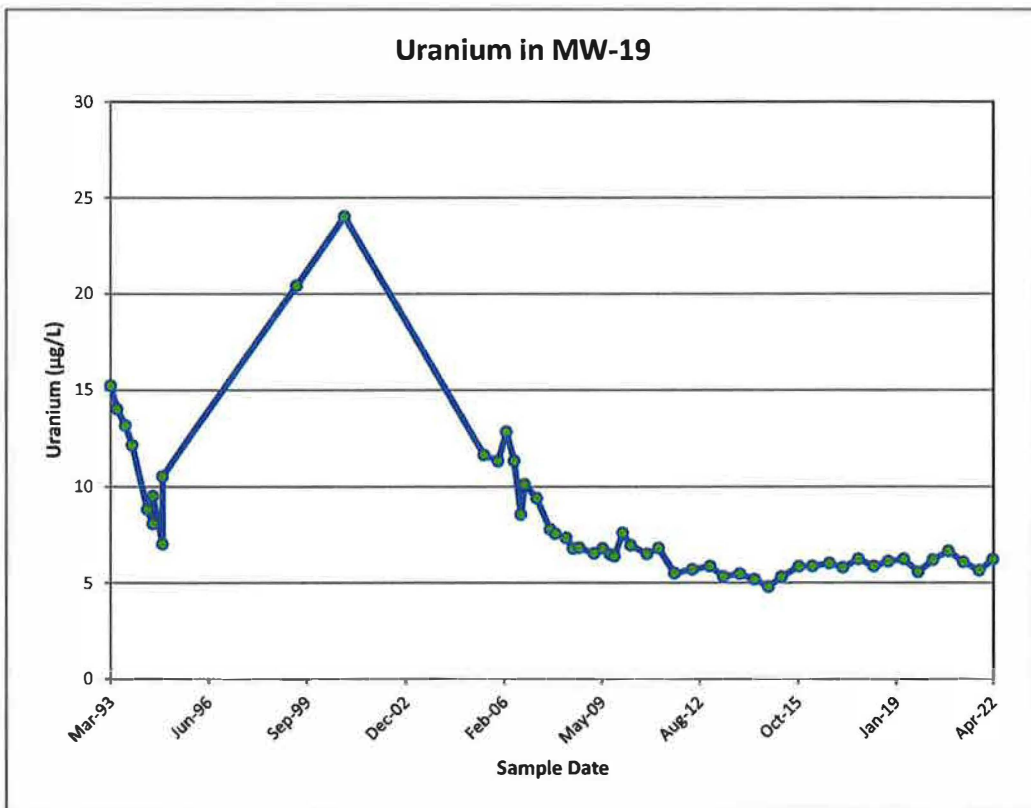
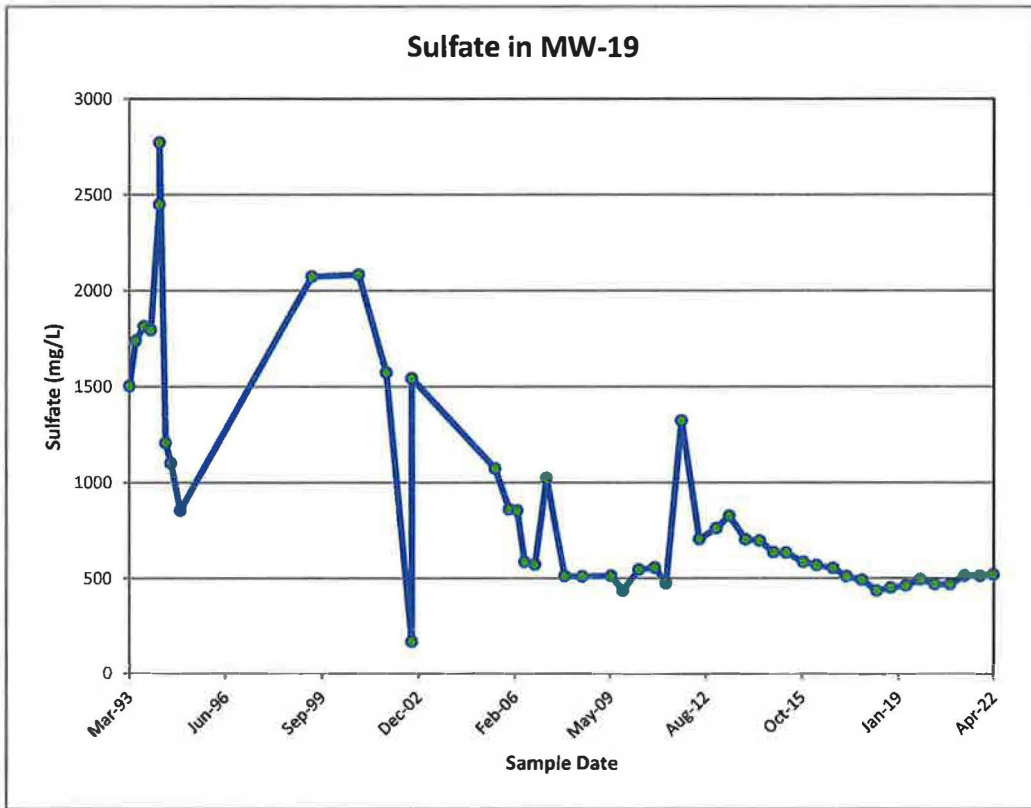
Time concentration plots for MW-18



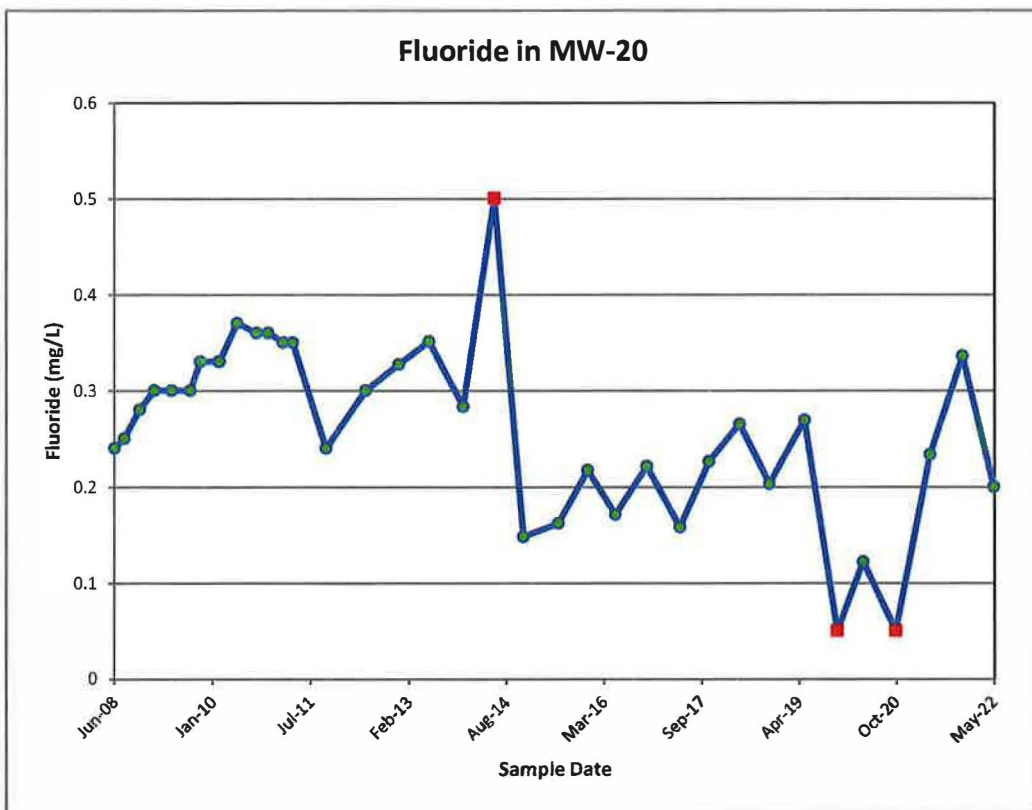
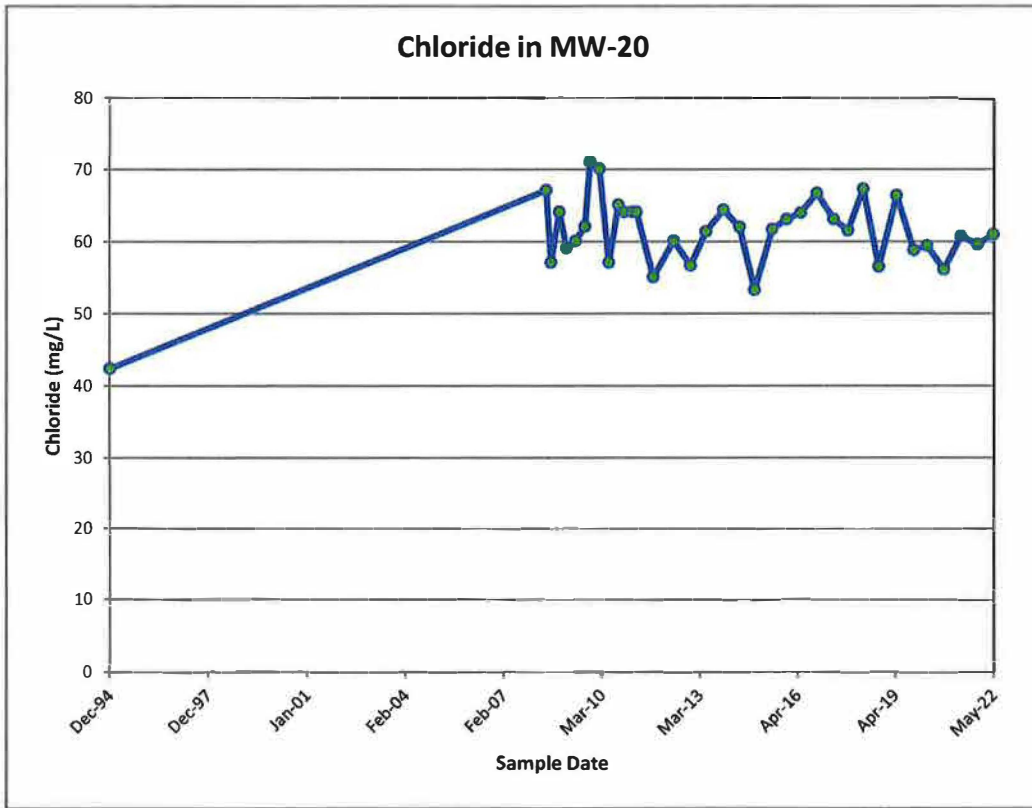
Time concentration plots for MW-19



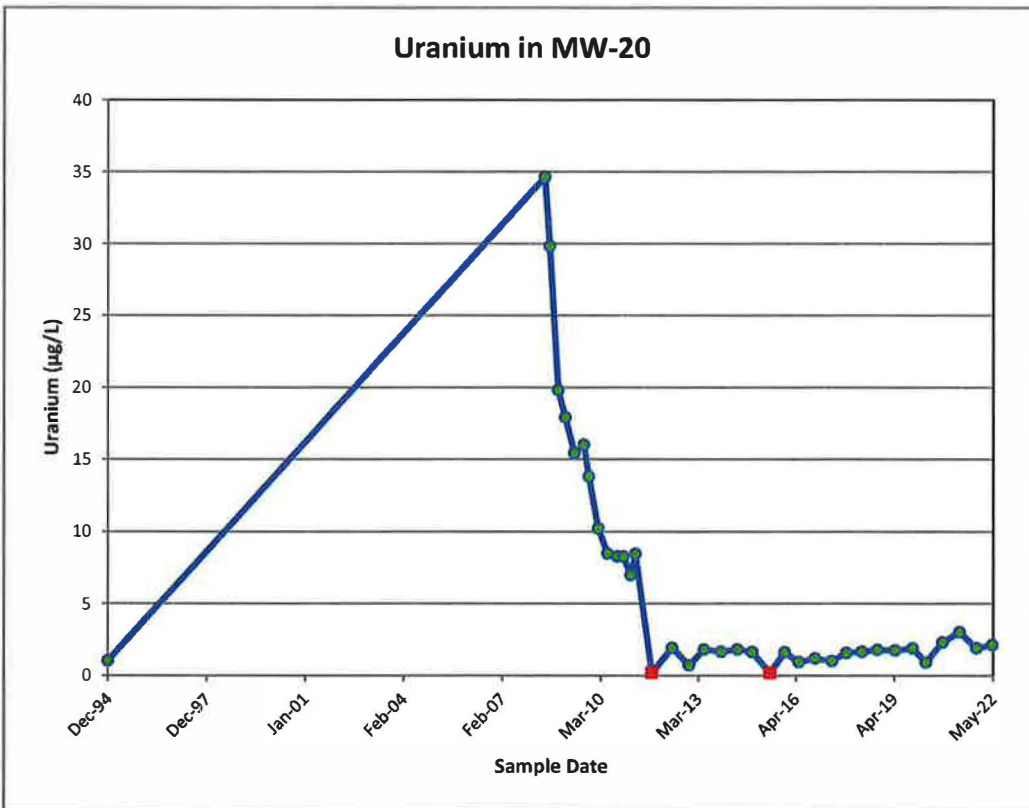
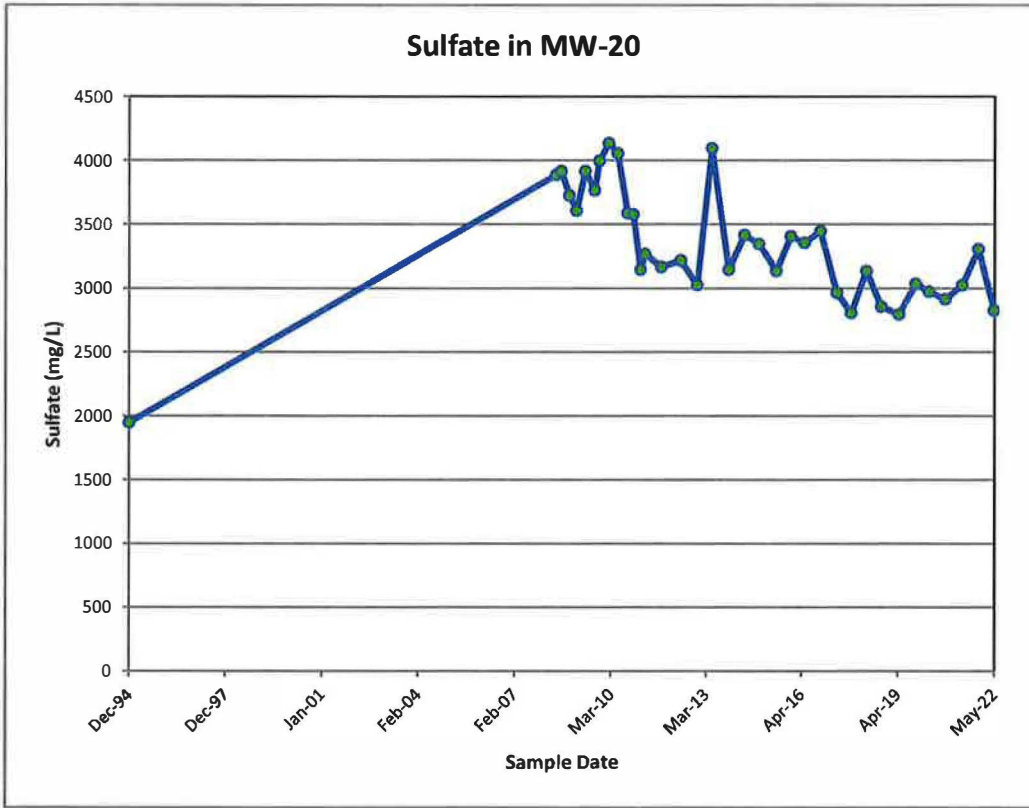
Time concentration plots for MW-19



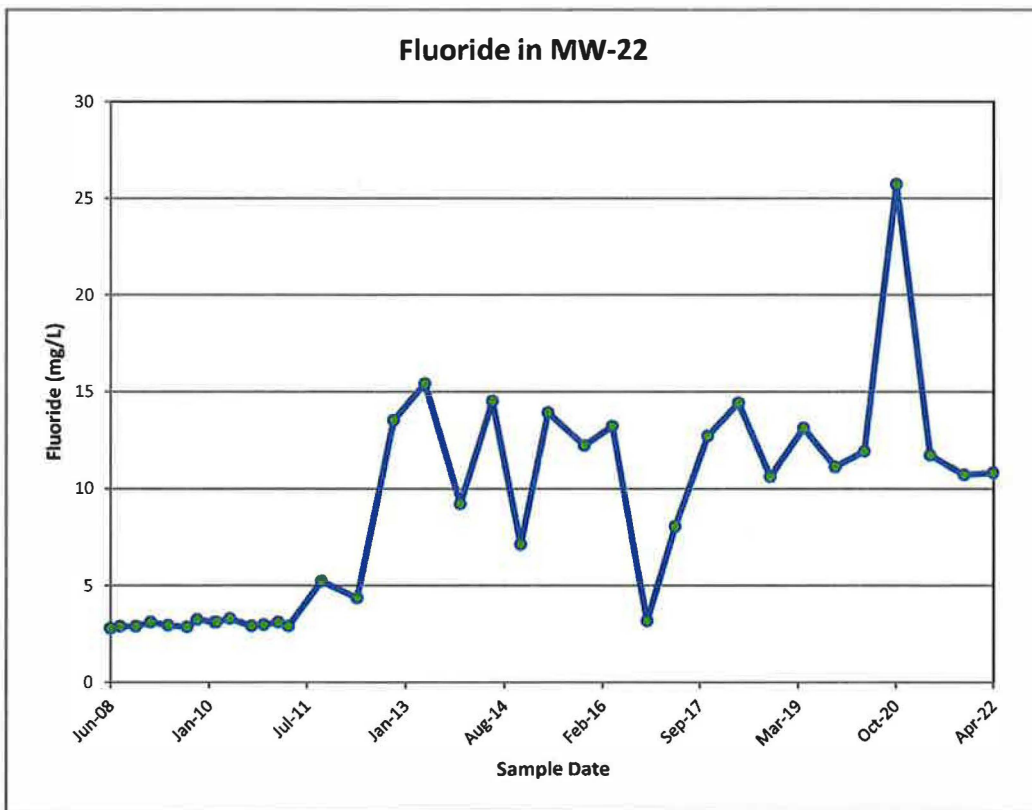
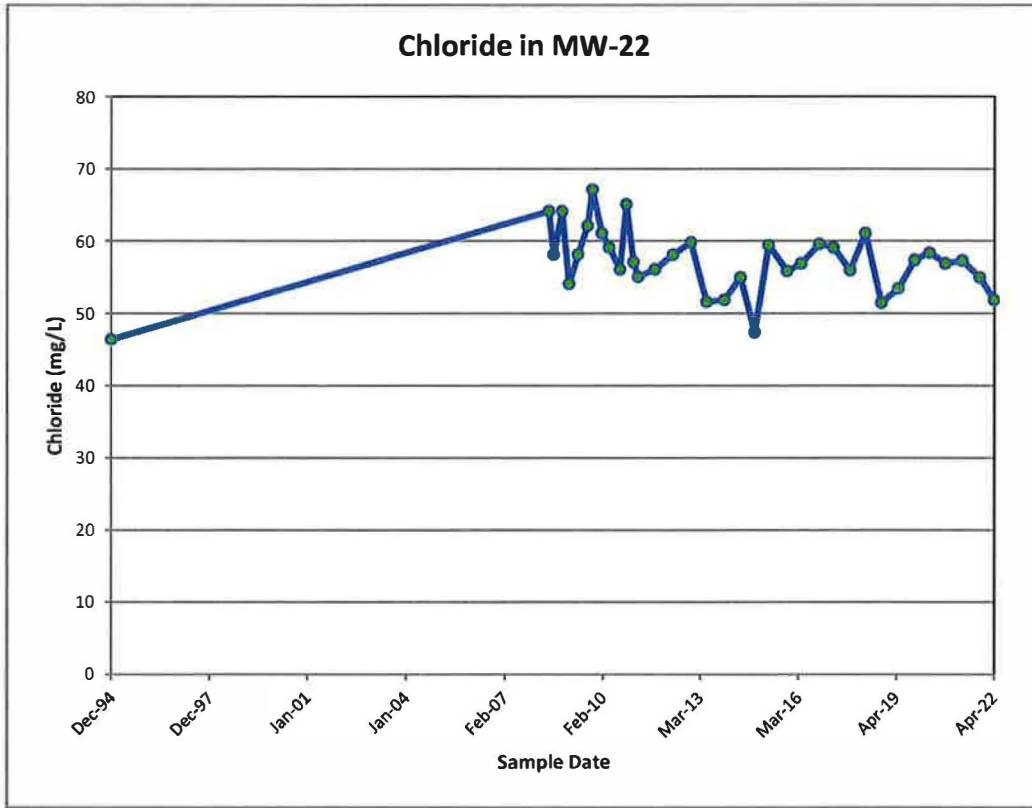
Time concentration plots for MW-20



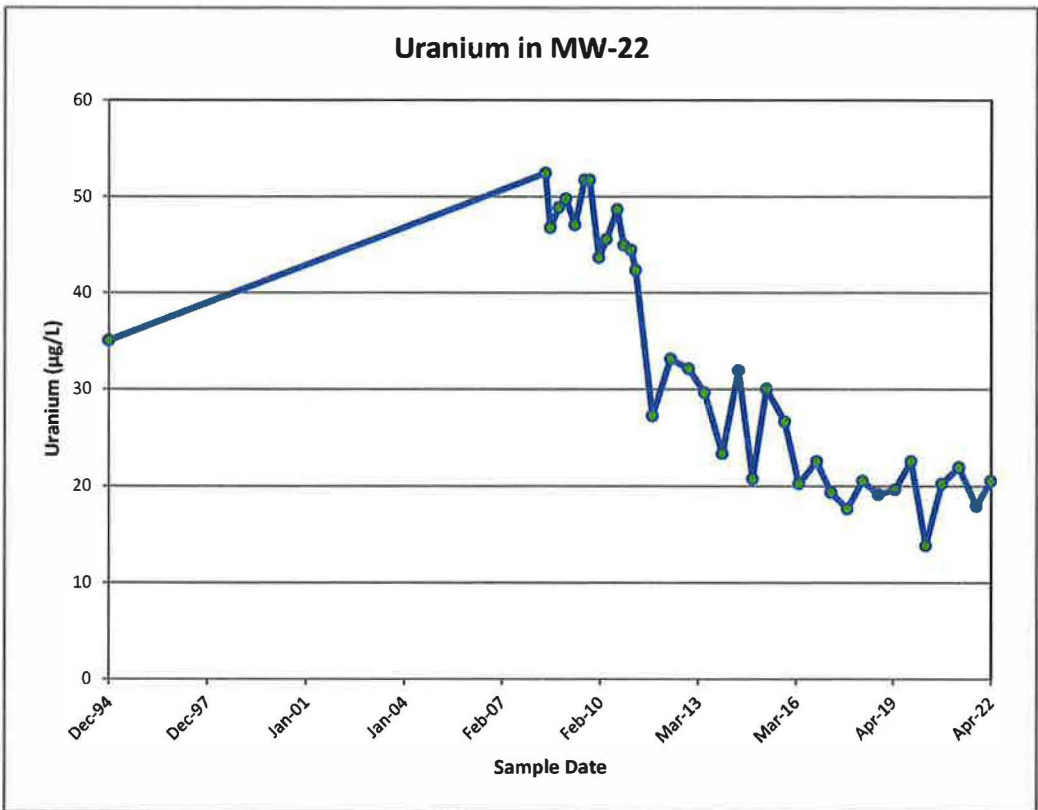
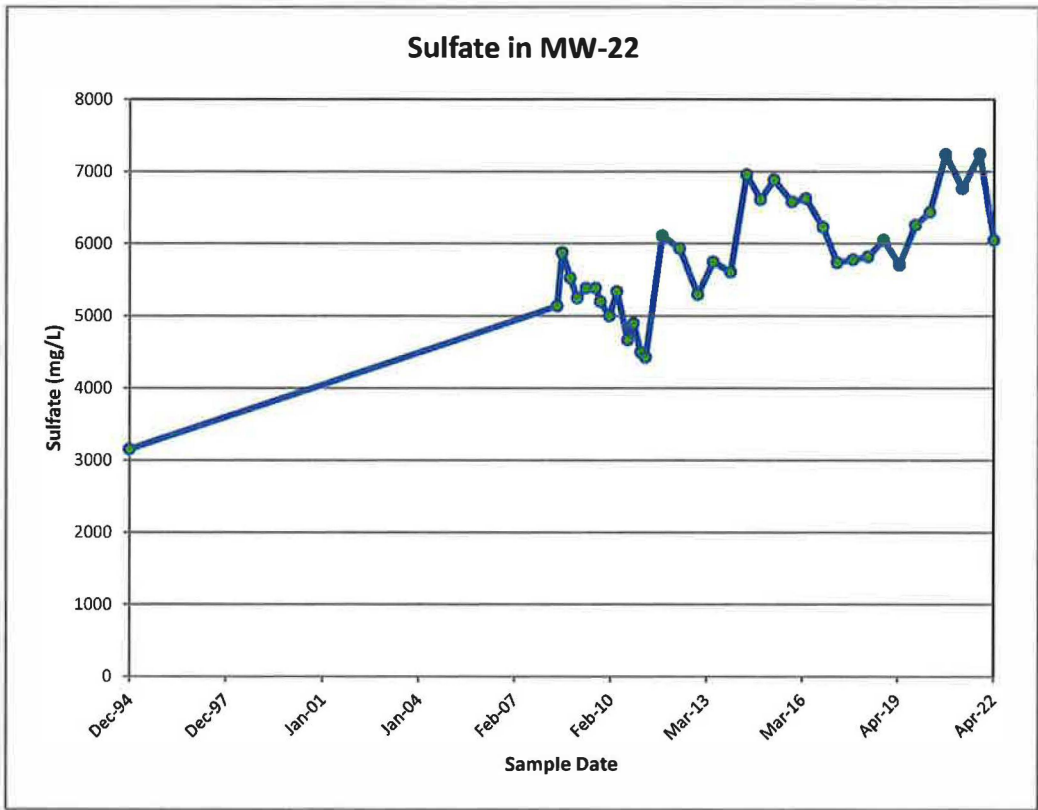
Time concentration plots for MW-20



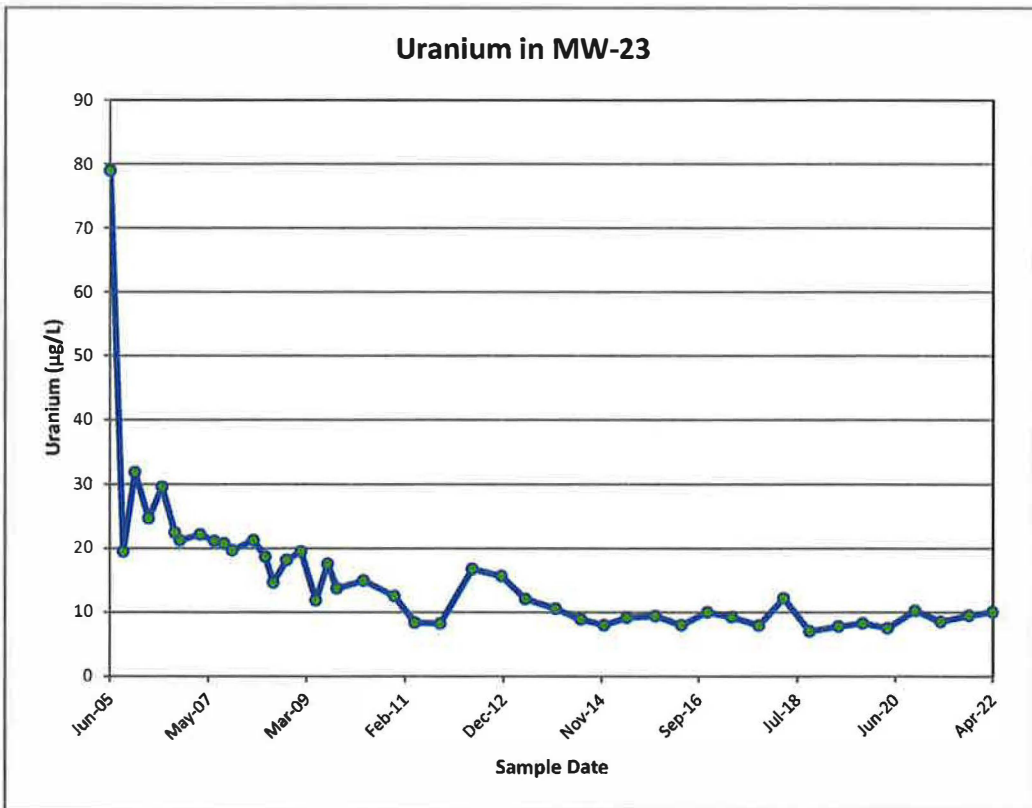
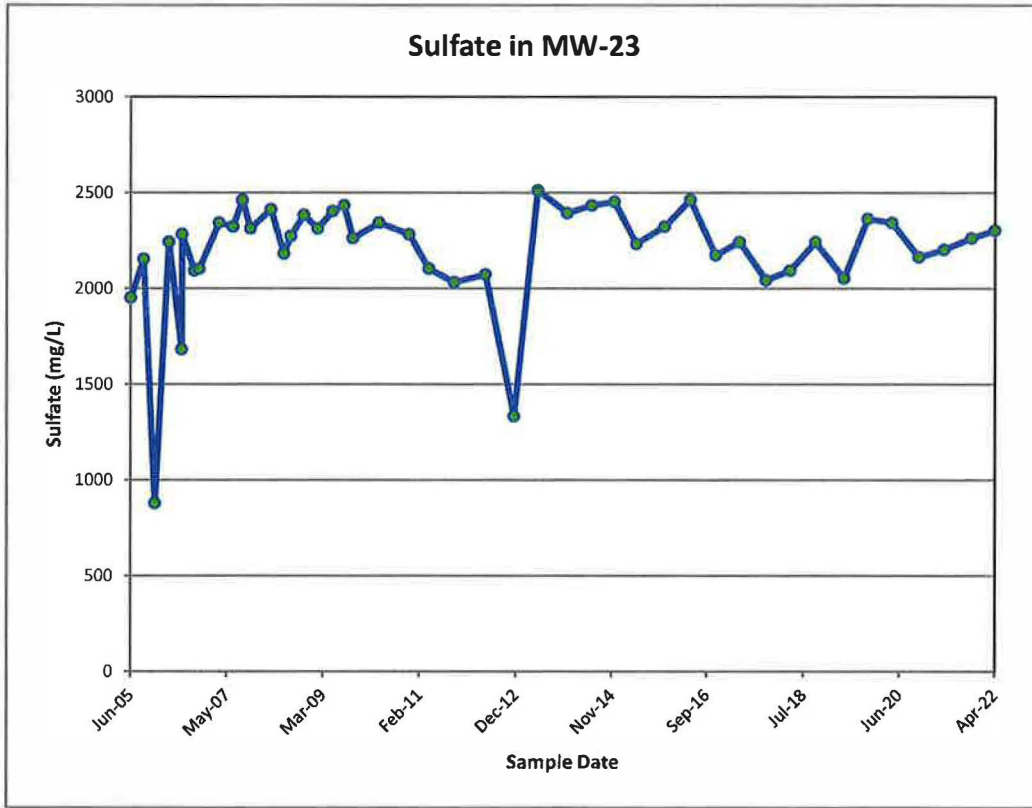
Time concentration plots for MW-22



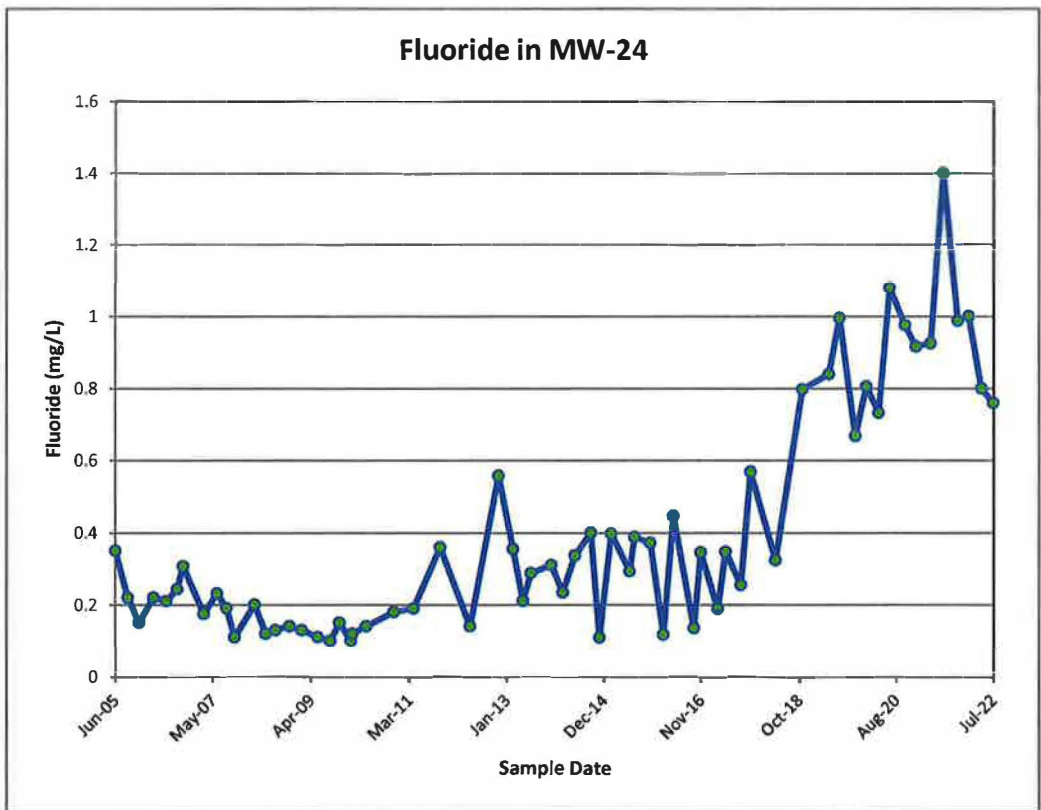
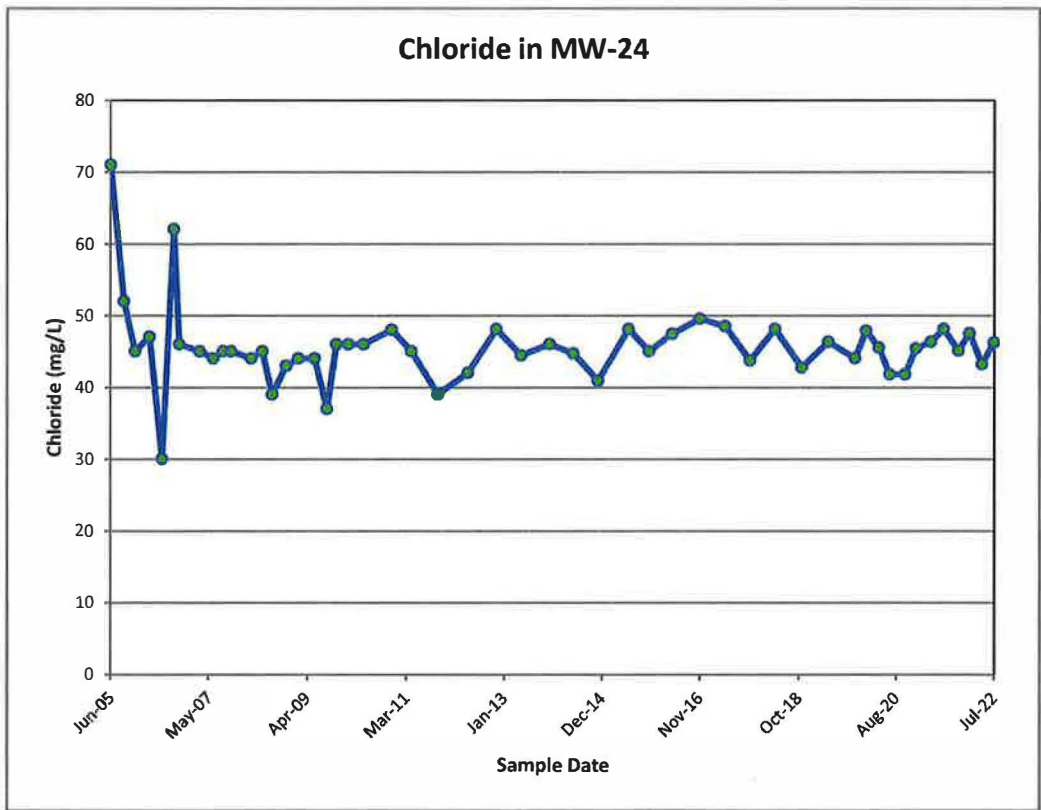
Time concentration plots for MW-22



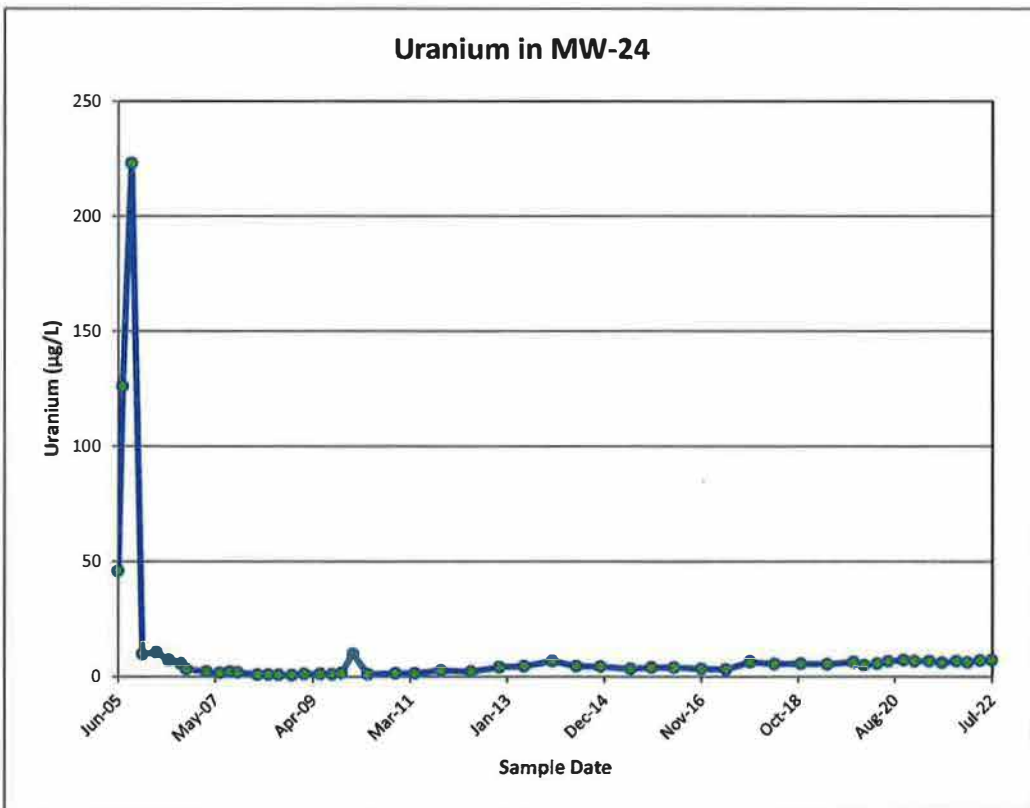
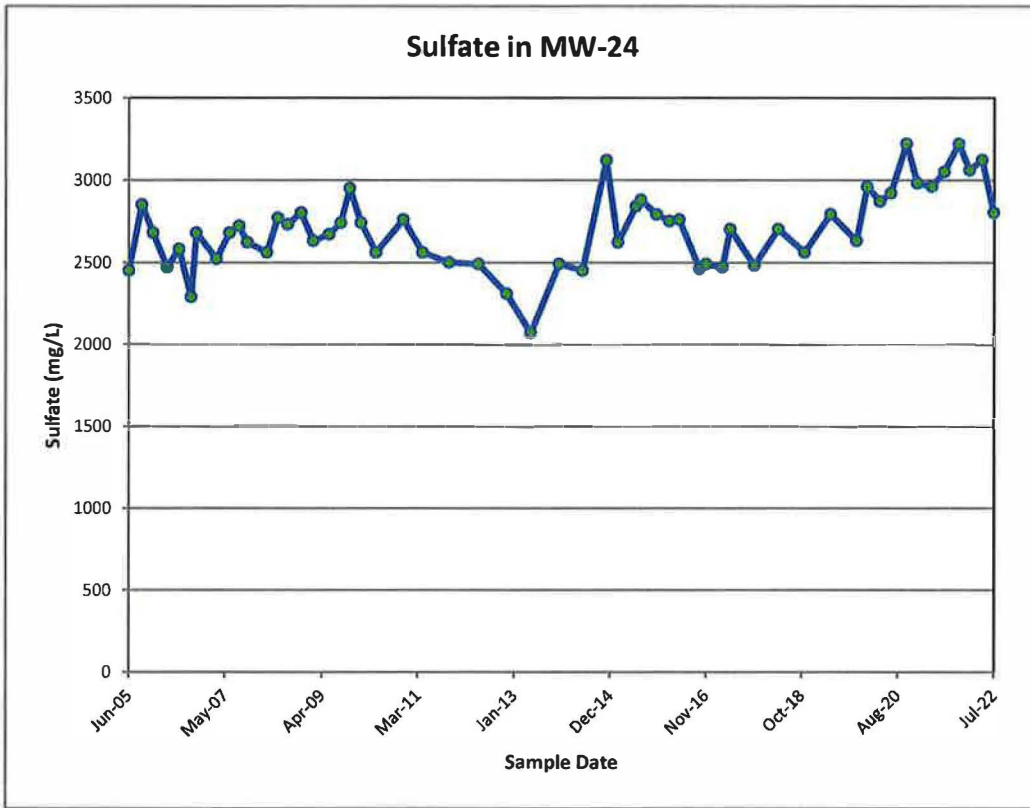
Time concentration plots for MW-23



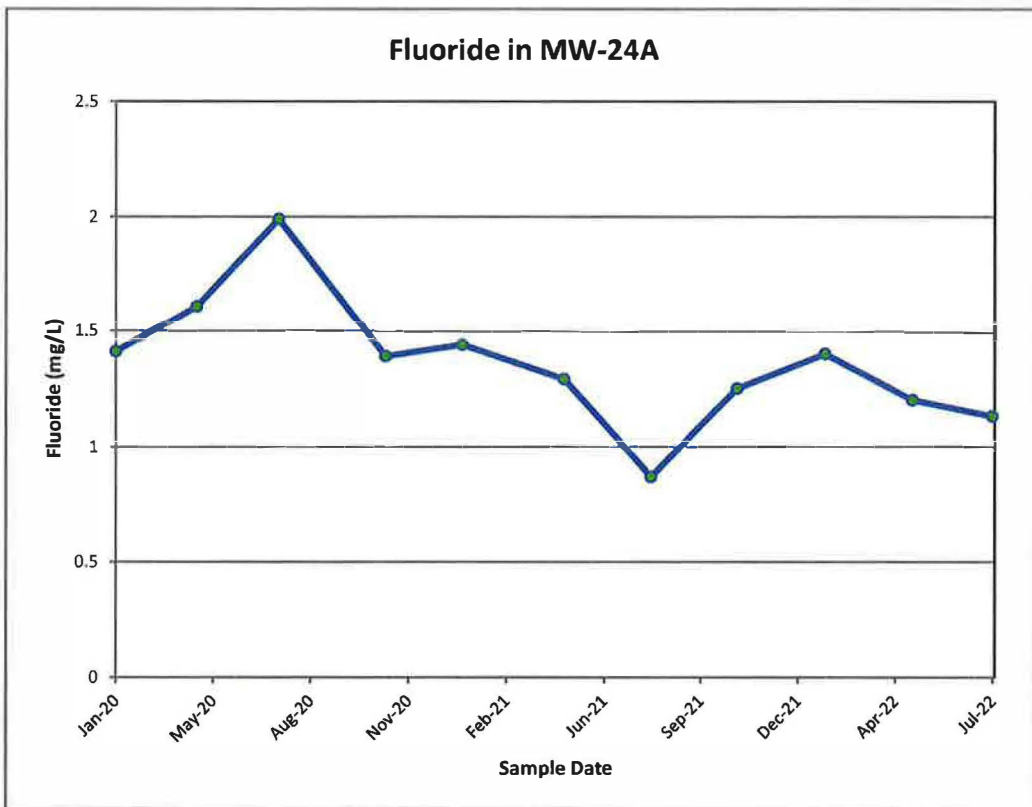
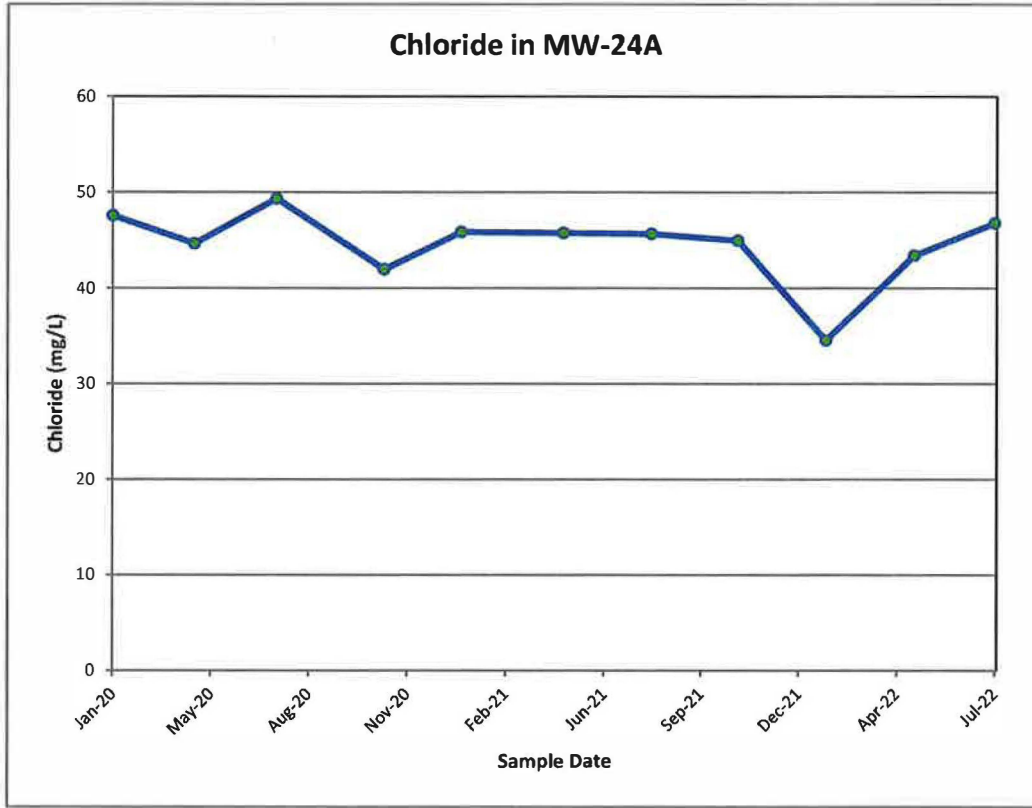
Time concentration plots for MW-24



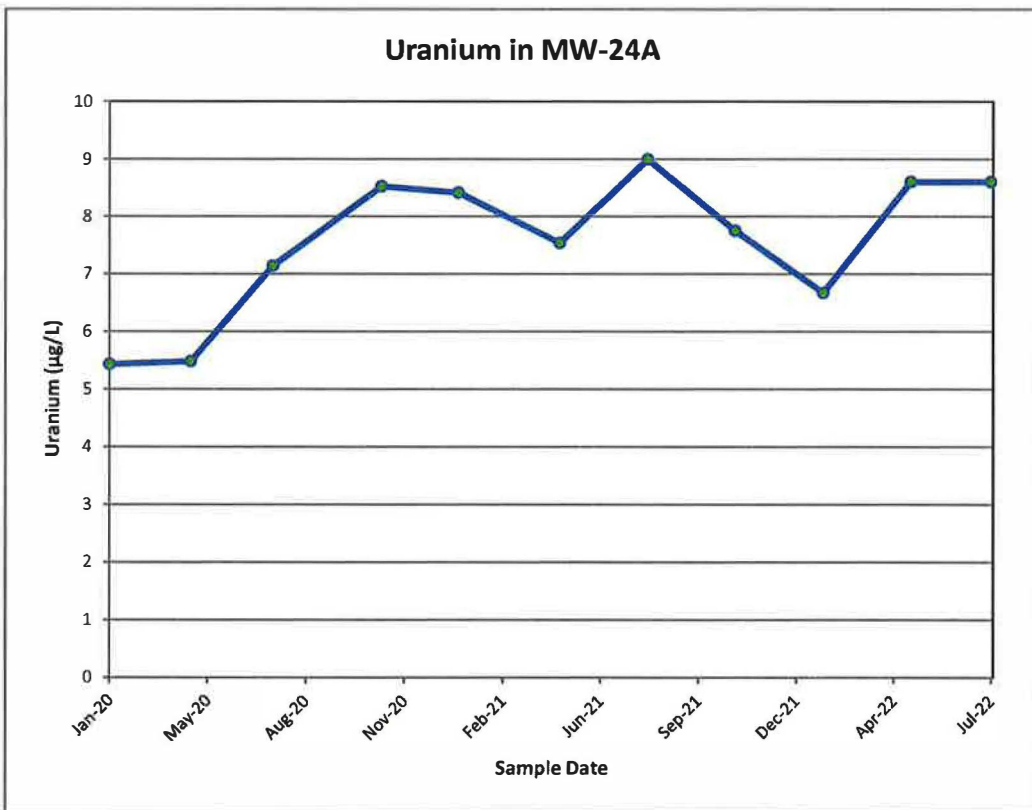
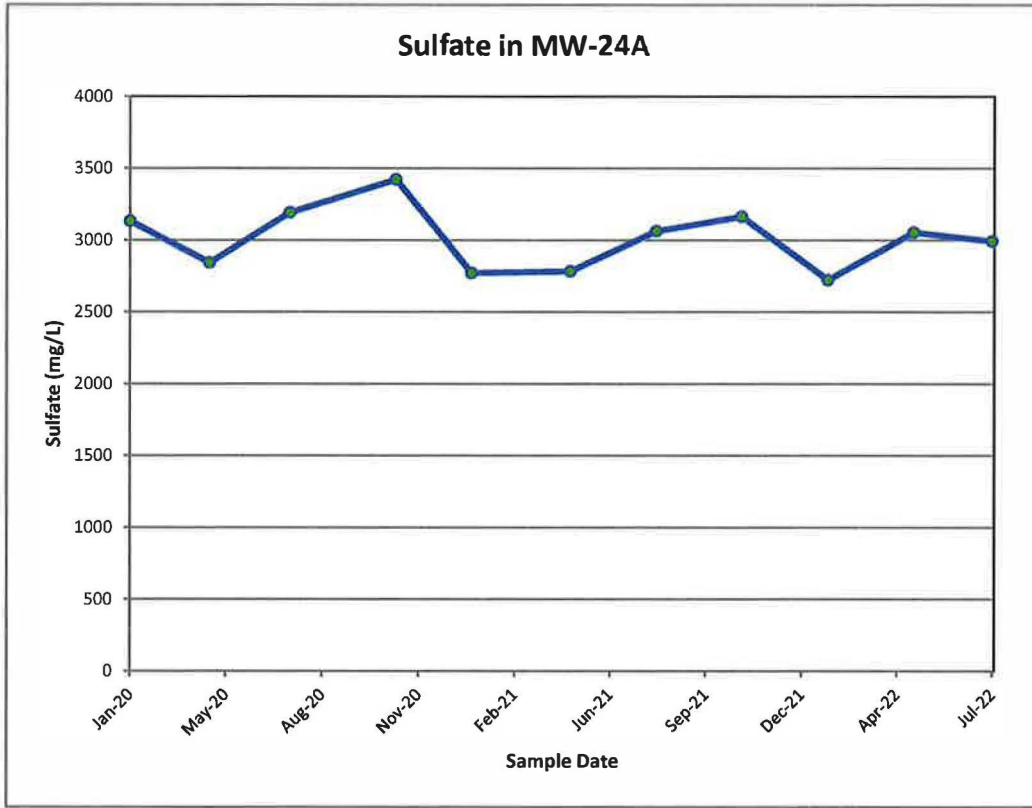
Time concentration plots for MW-24



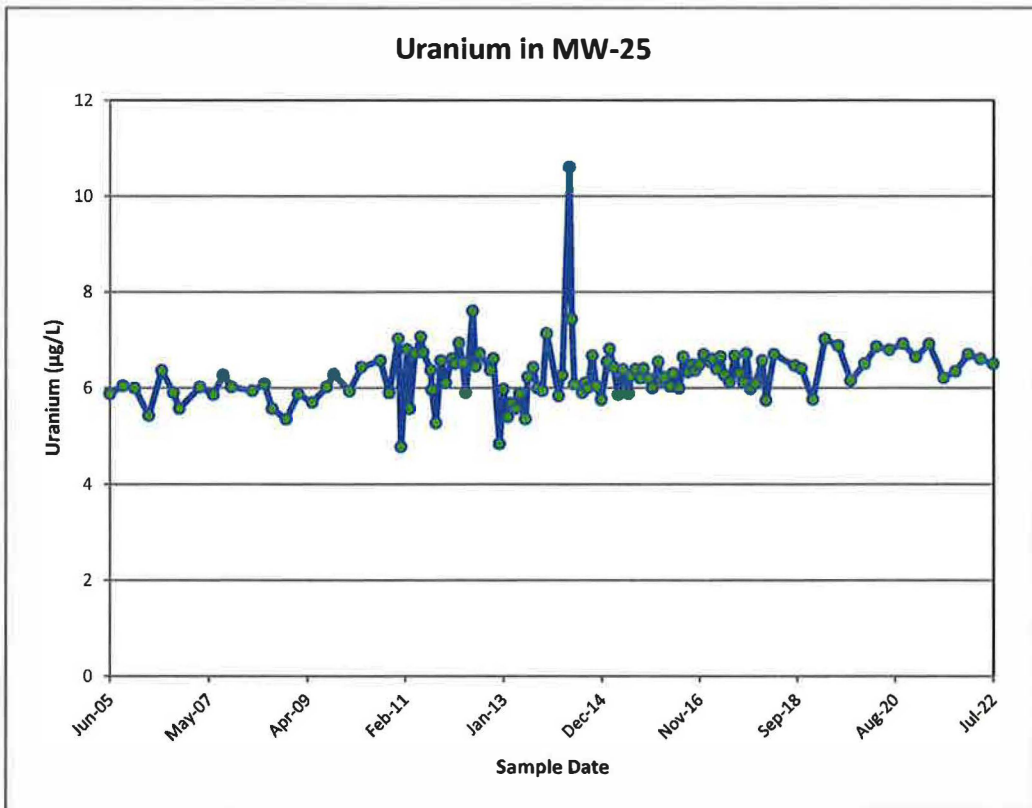
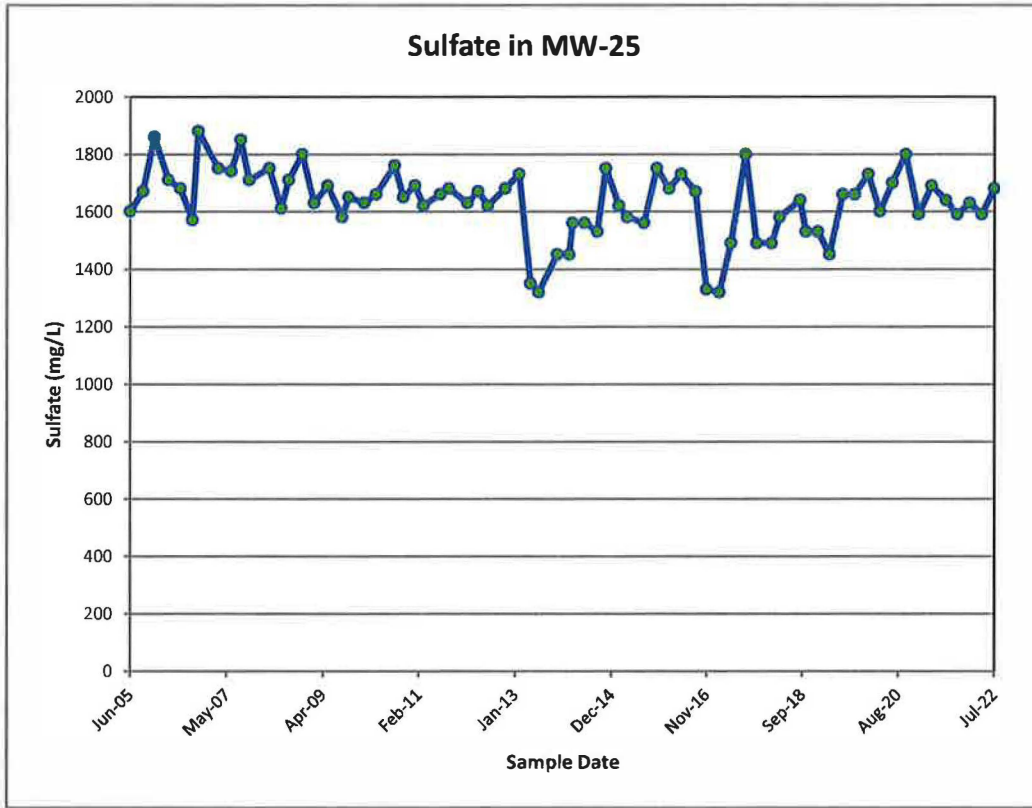
Time concentration plots for MW-24A



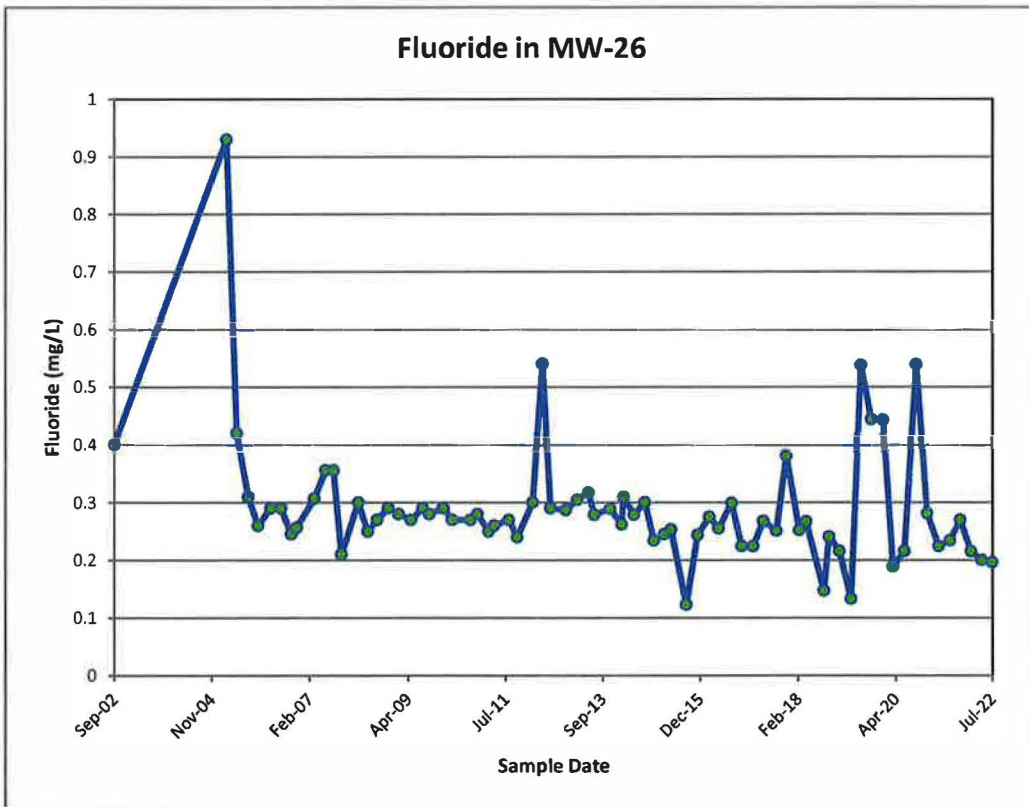
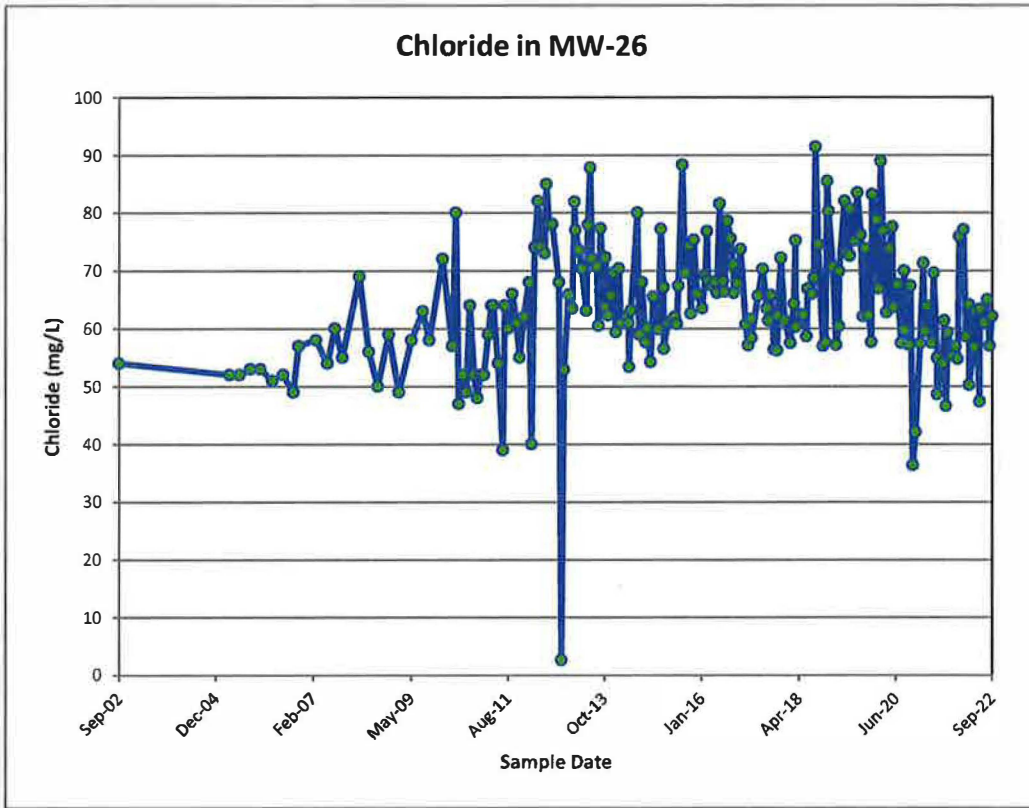
Time concentration plots for MW-24A



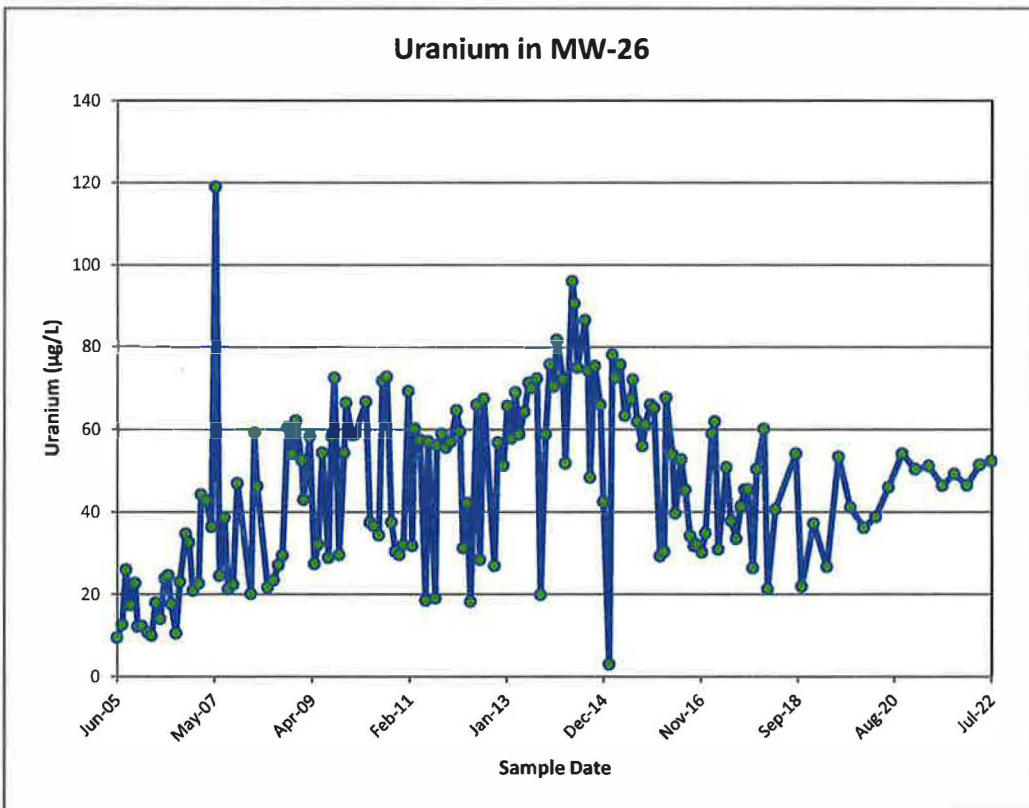
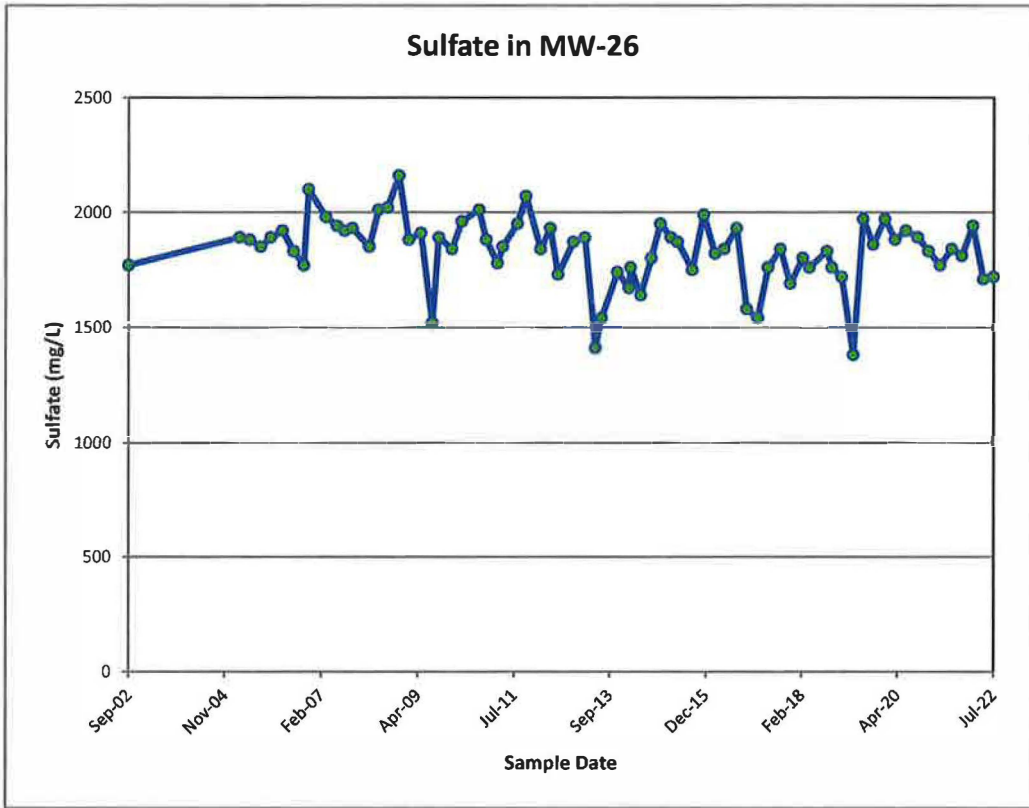
Time concentration plots for MW-25



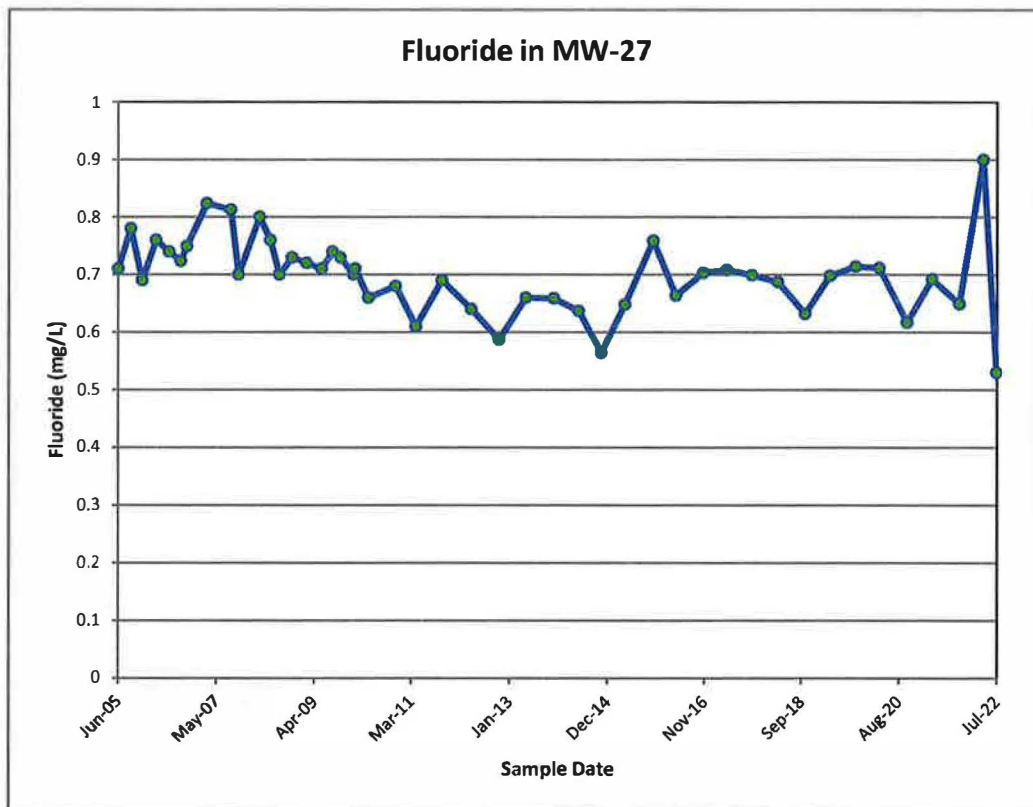
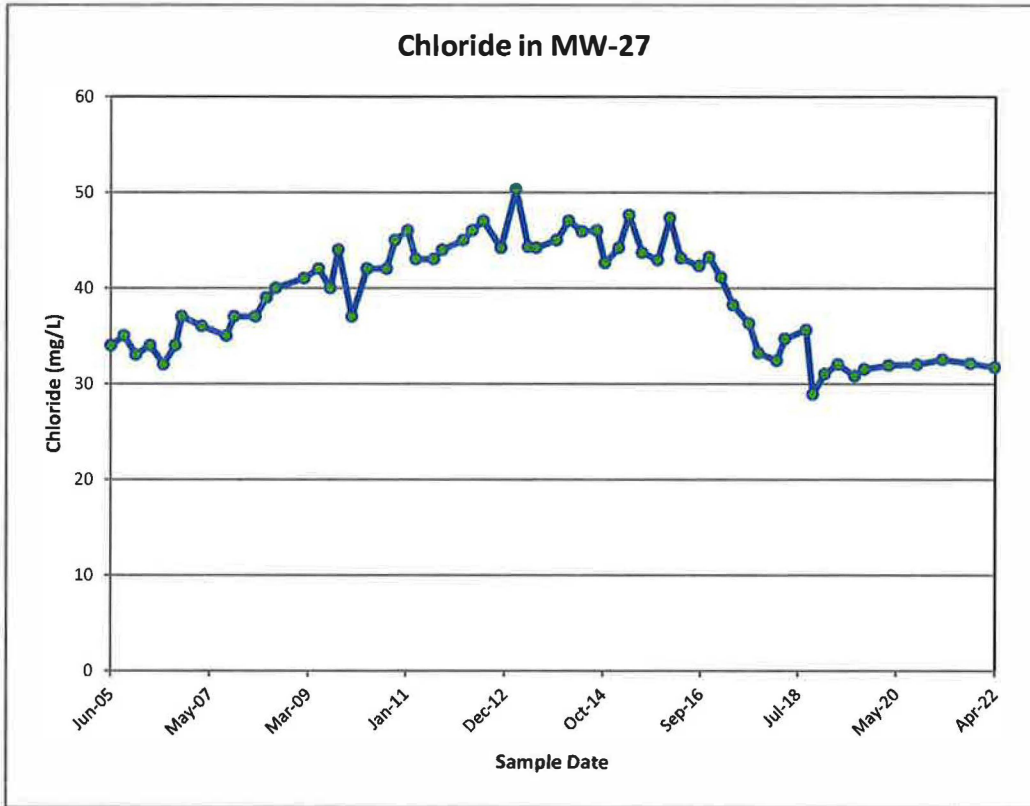
Time concentration plots for MW-26



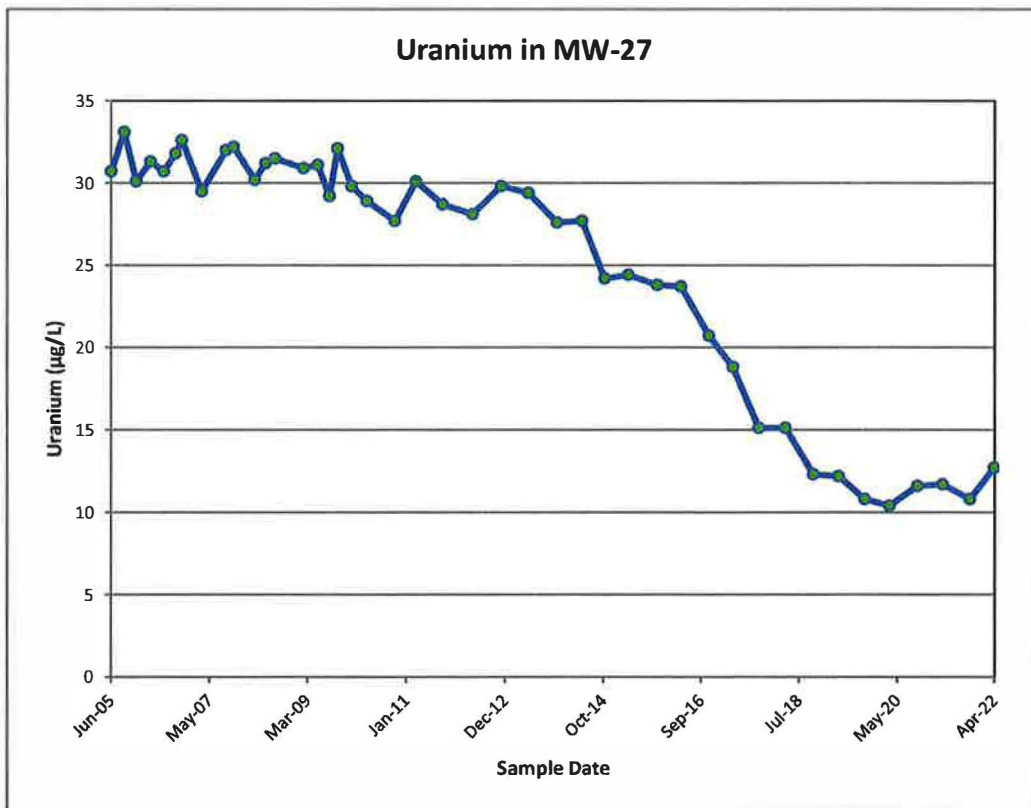
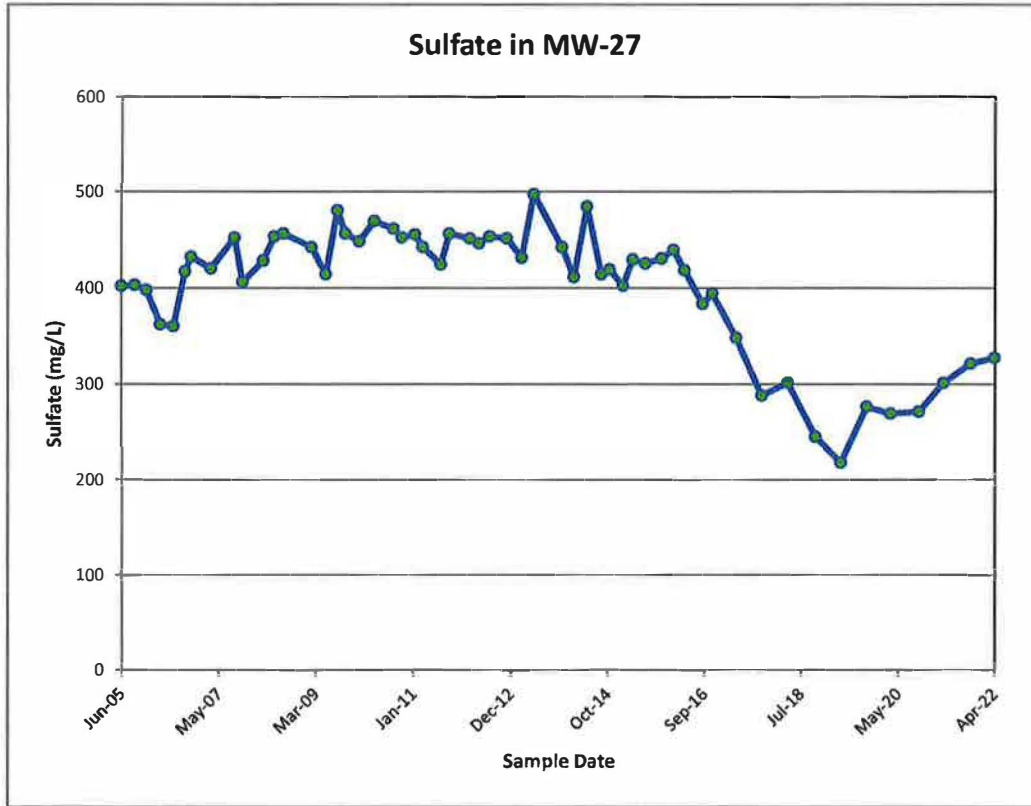
Time concentration plots for MW-26



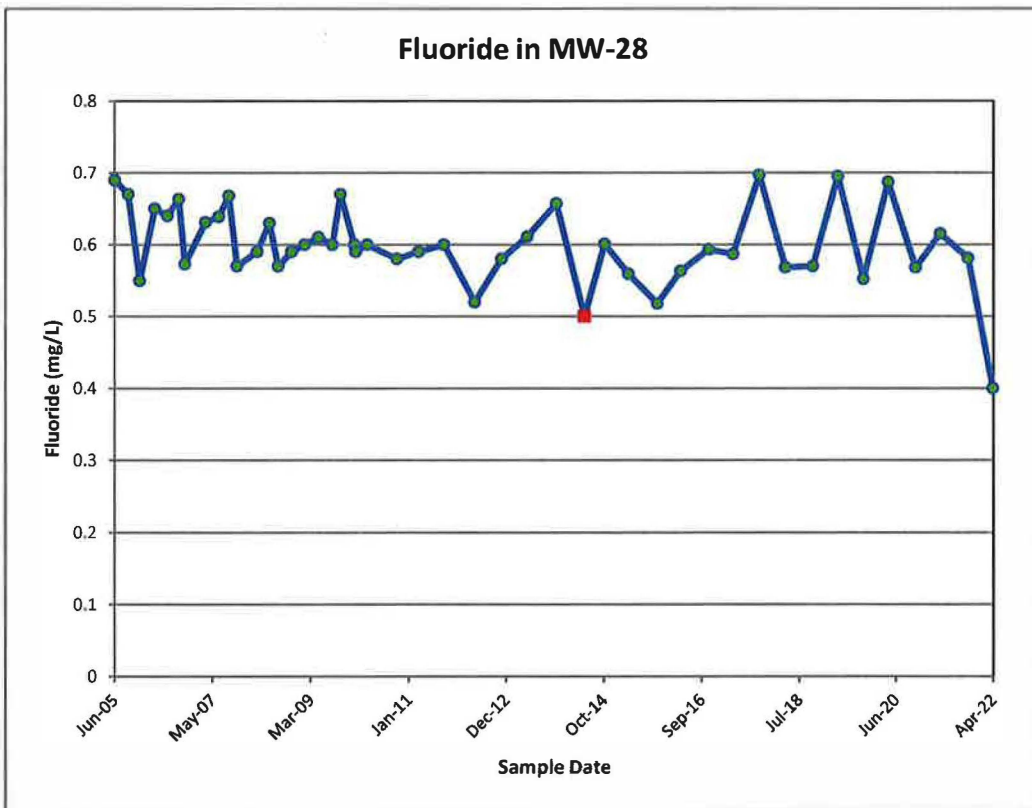
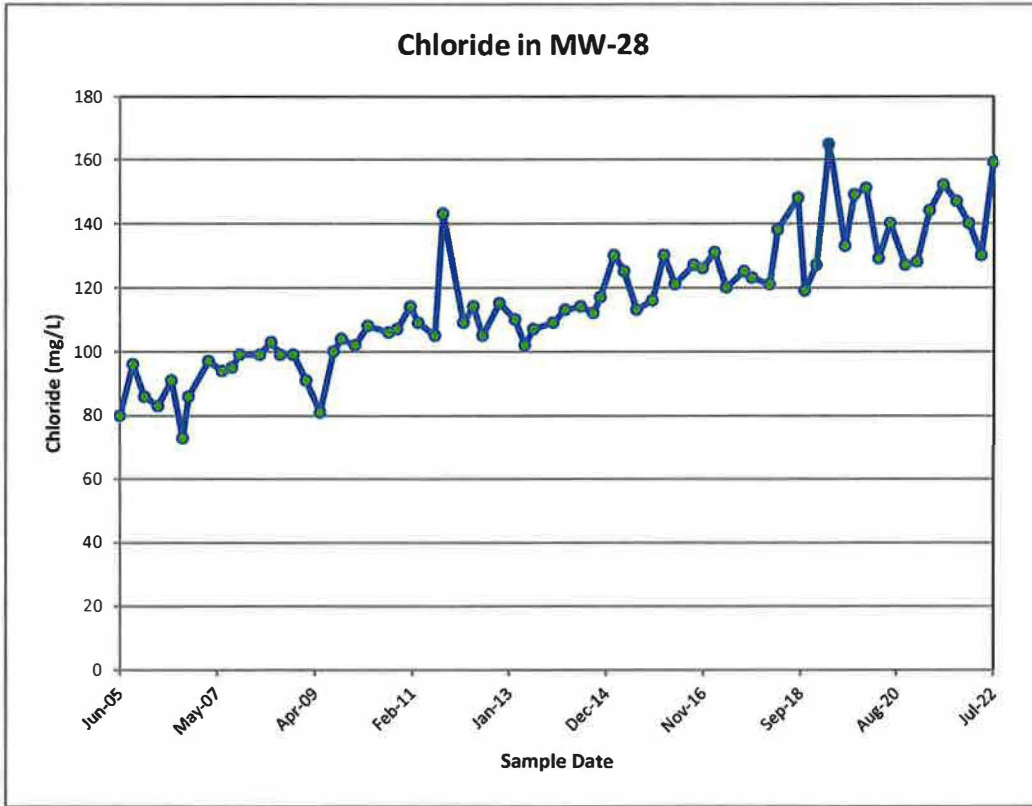
Time concentration plots for MW-27



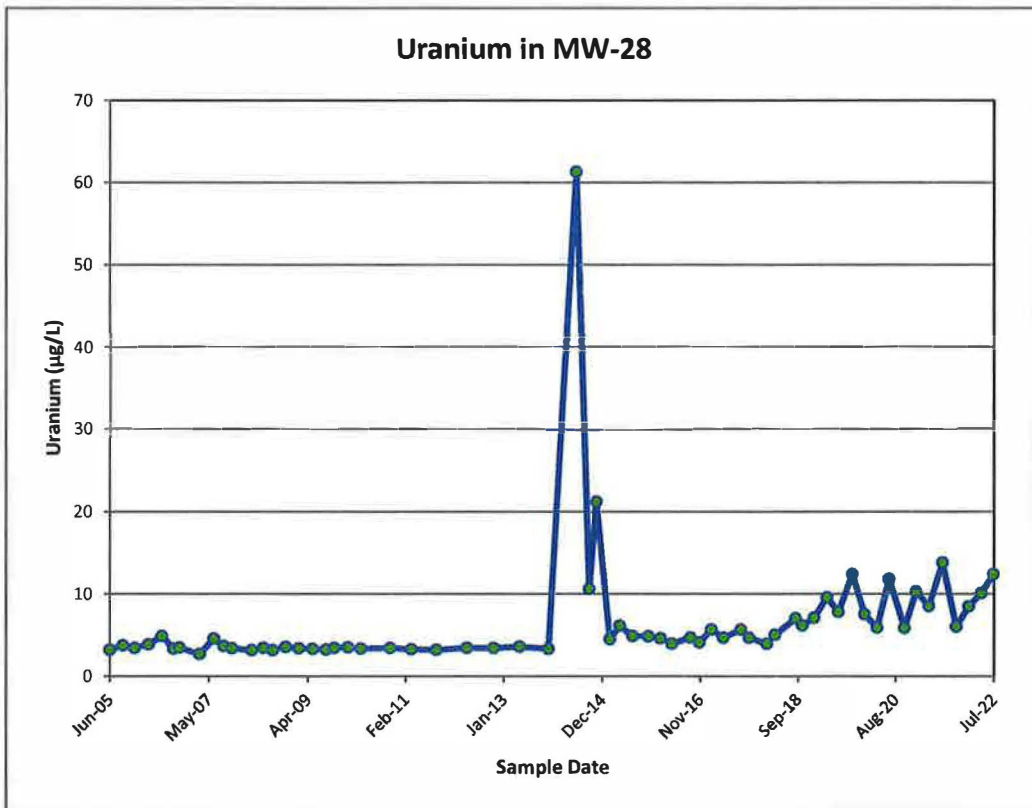
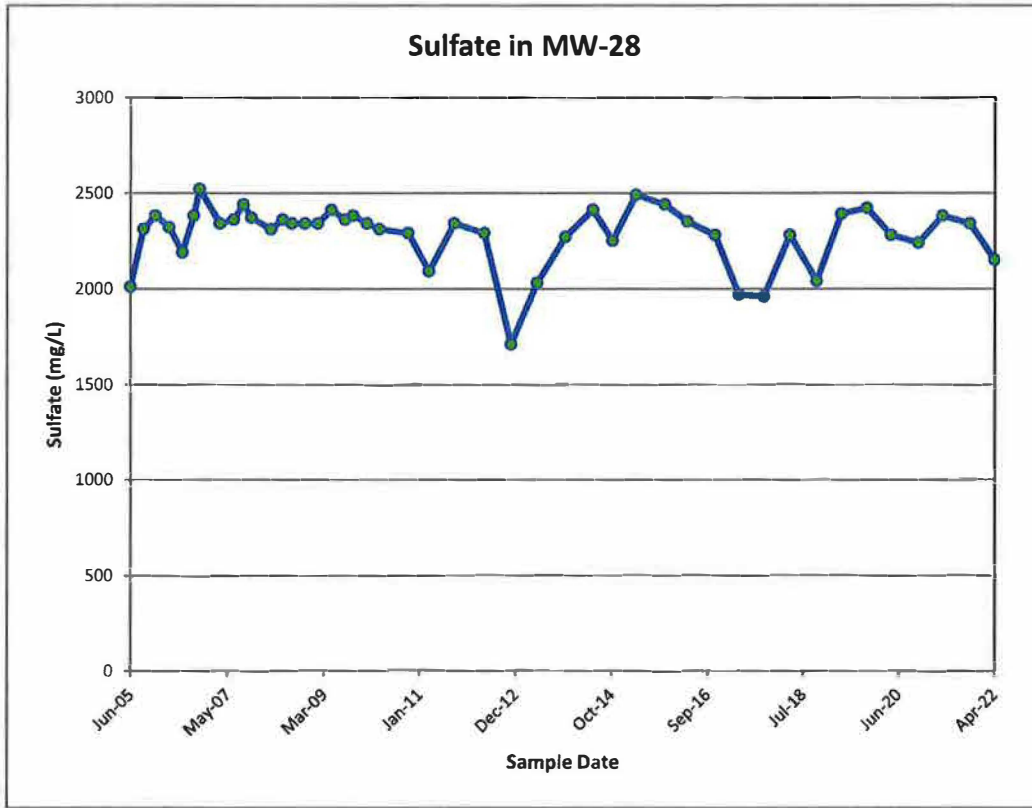
Time concentration plots for MW-27



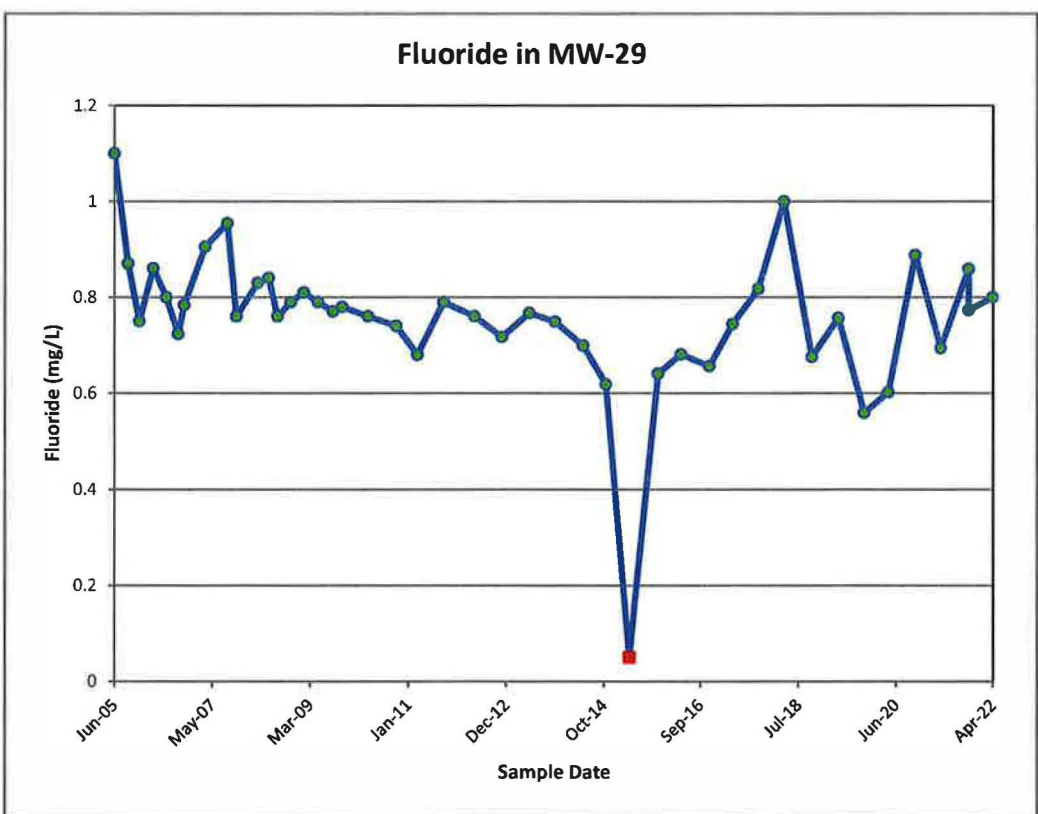
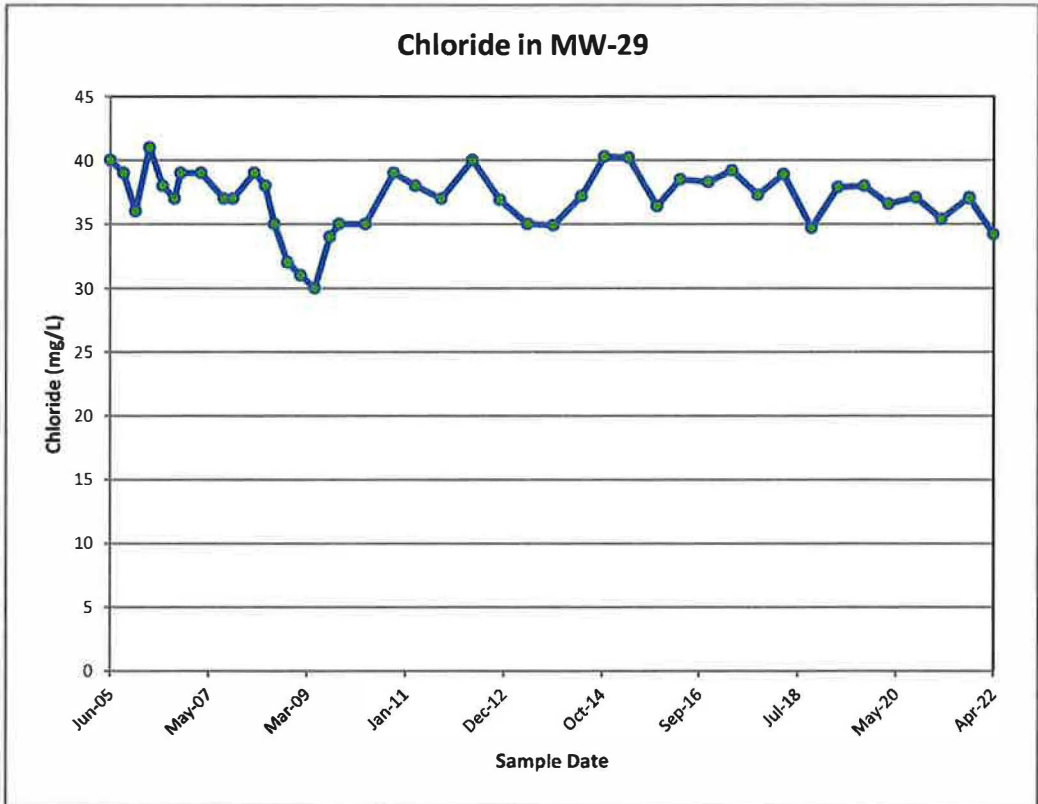
Time concentration plots for MW-28



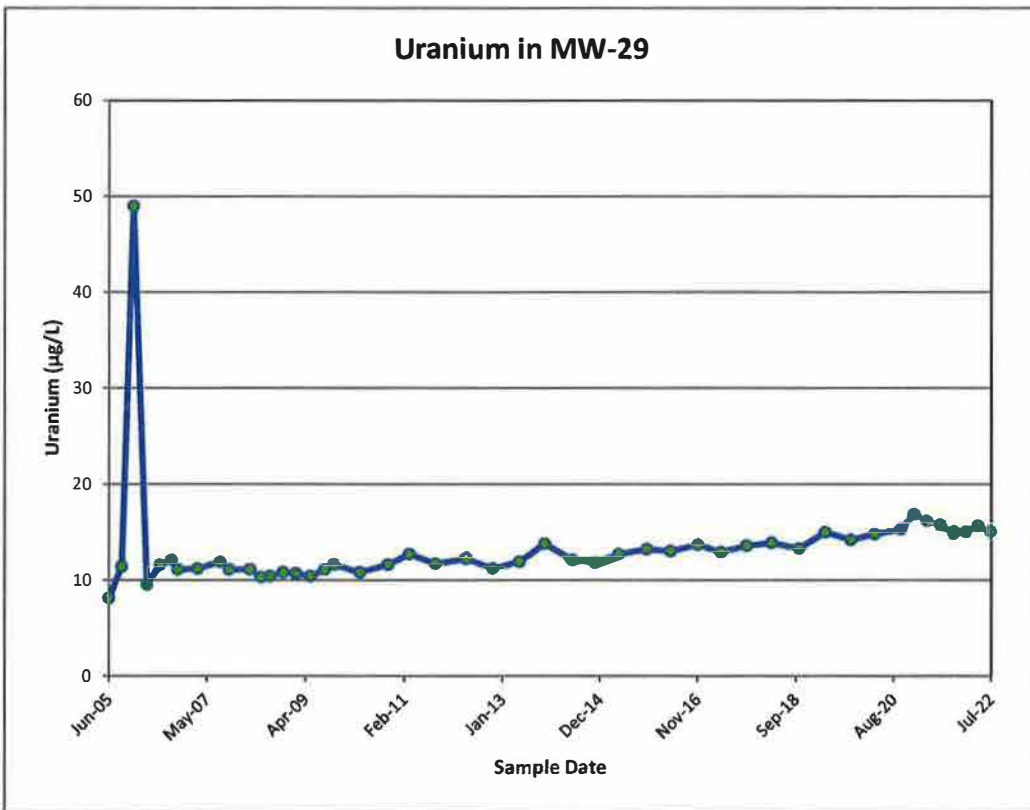
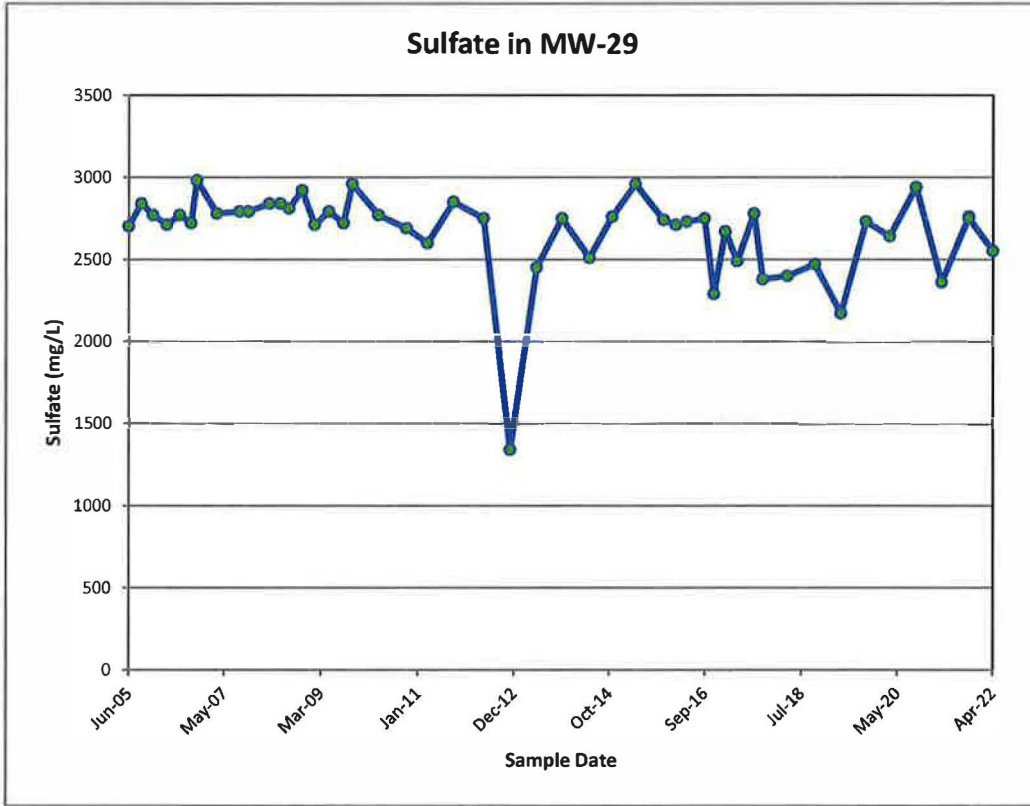
Time concentration plots for MW-28



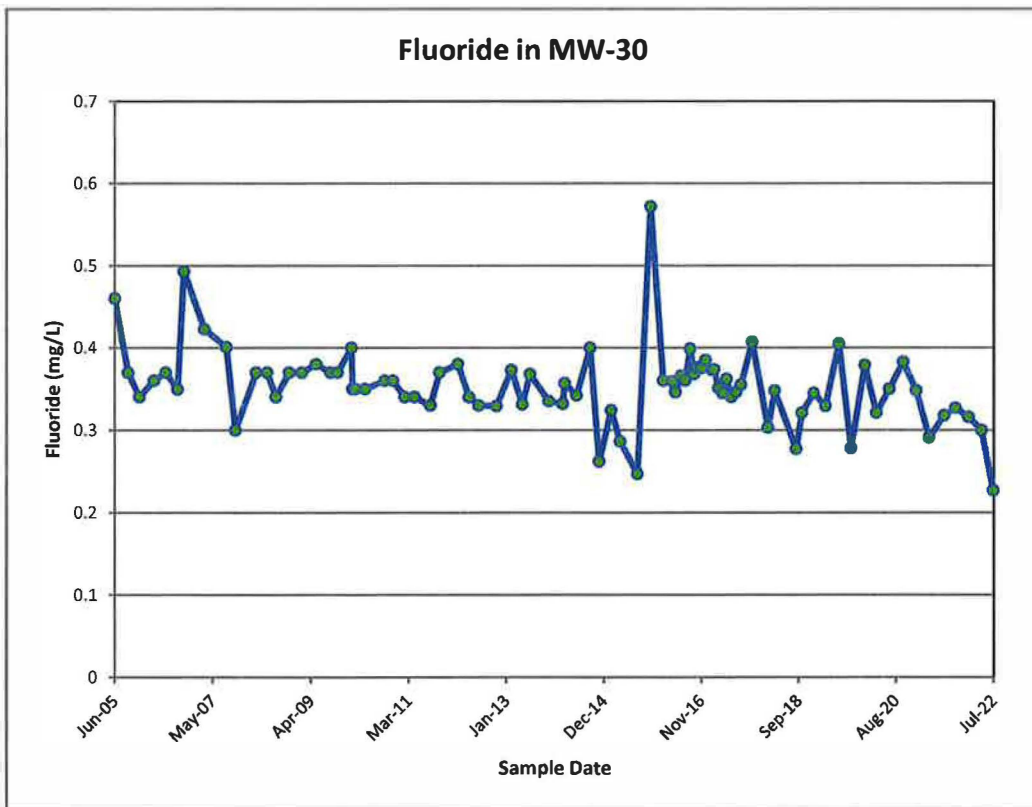
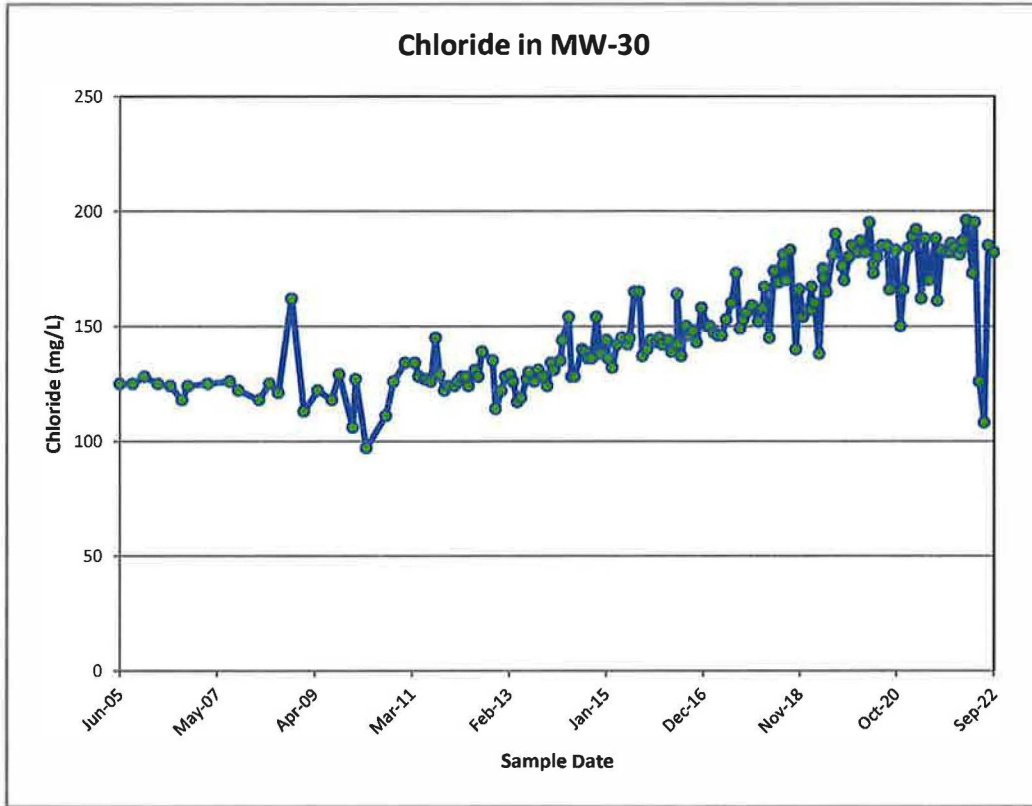
Time concentration plots for MW-29



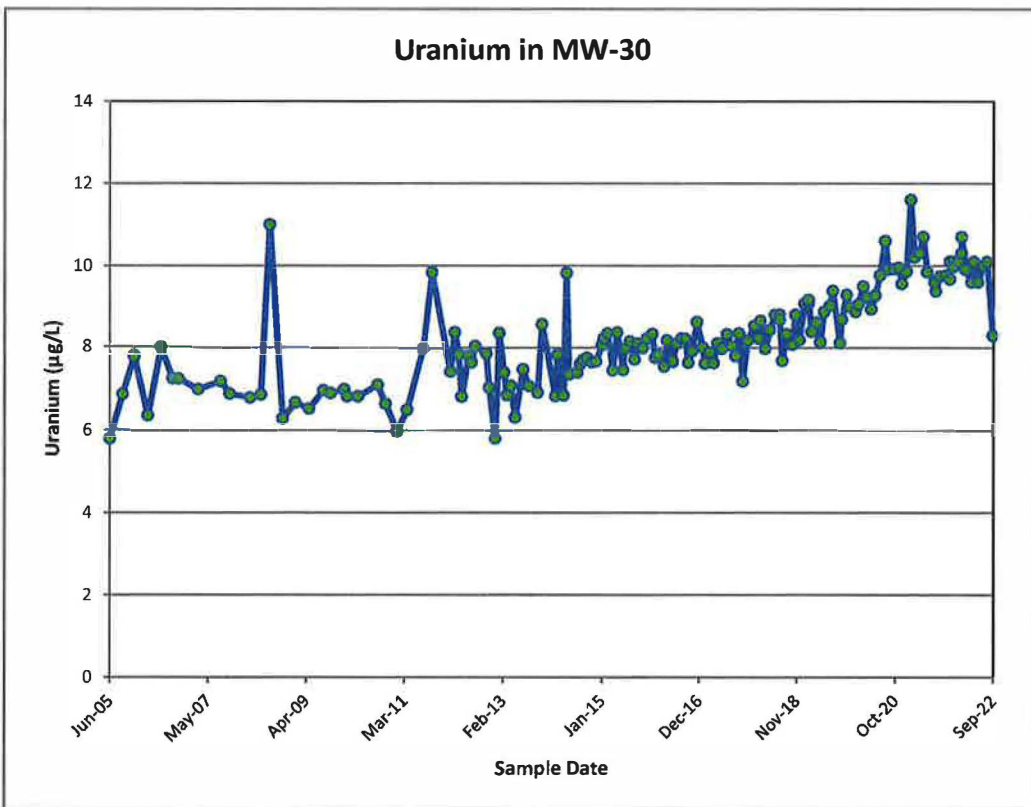
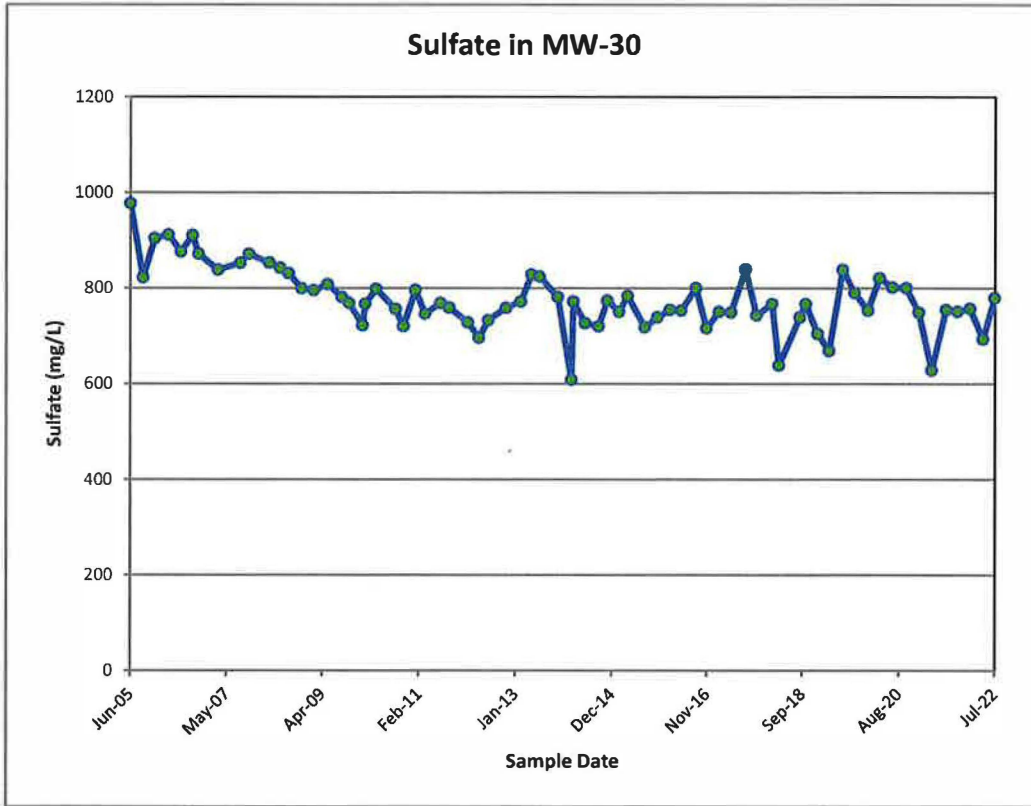
Time concentration plots for MW-29



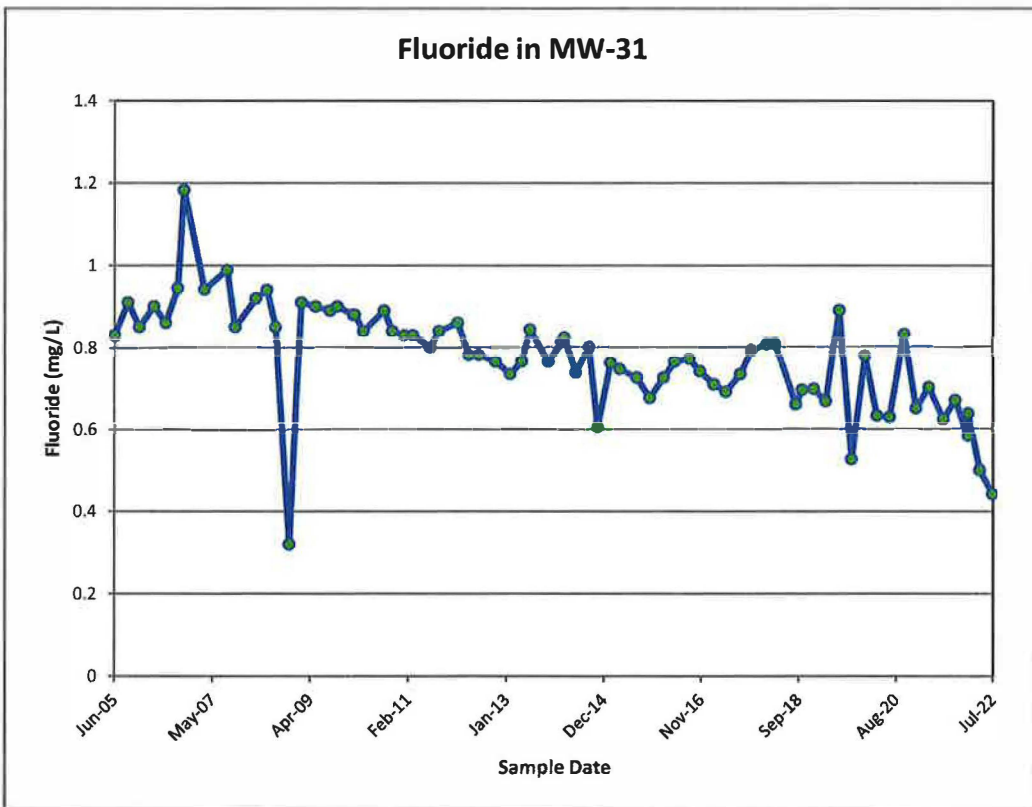
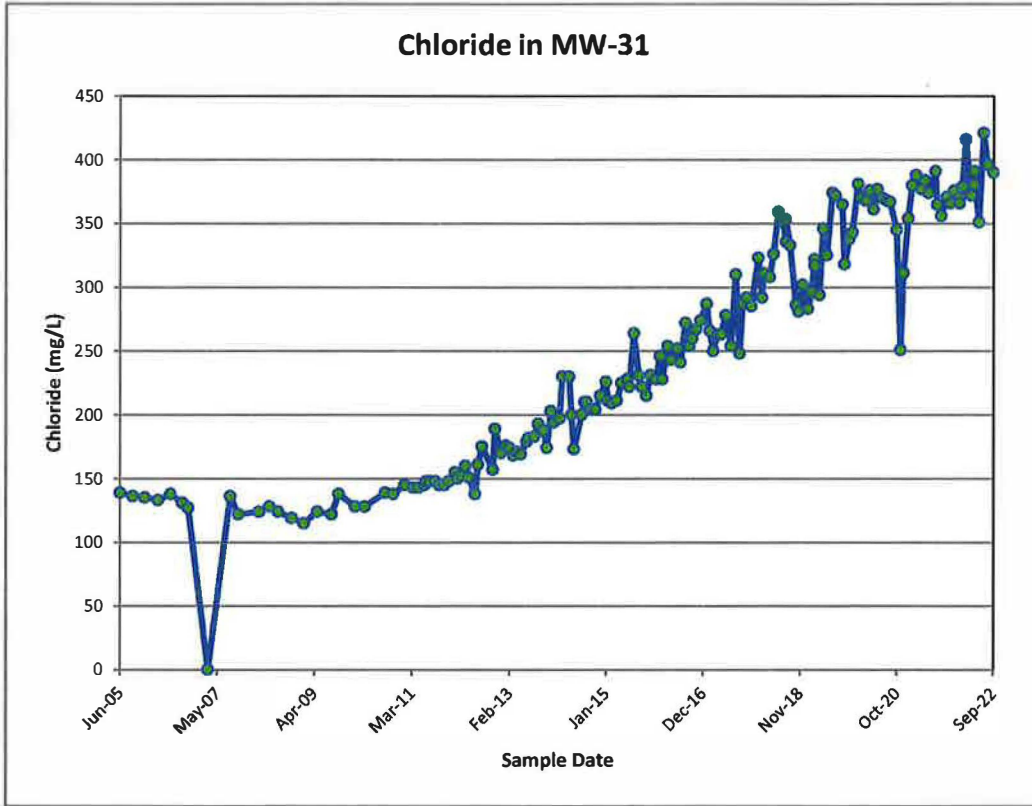
Time concentration plots for MW-30



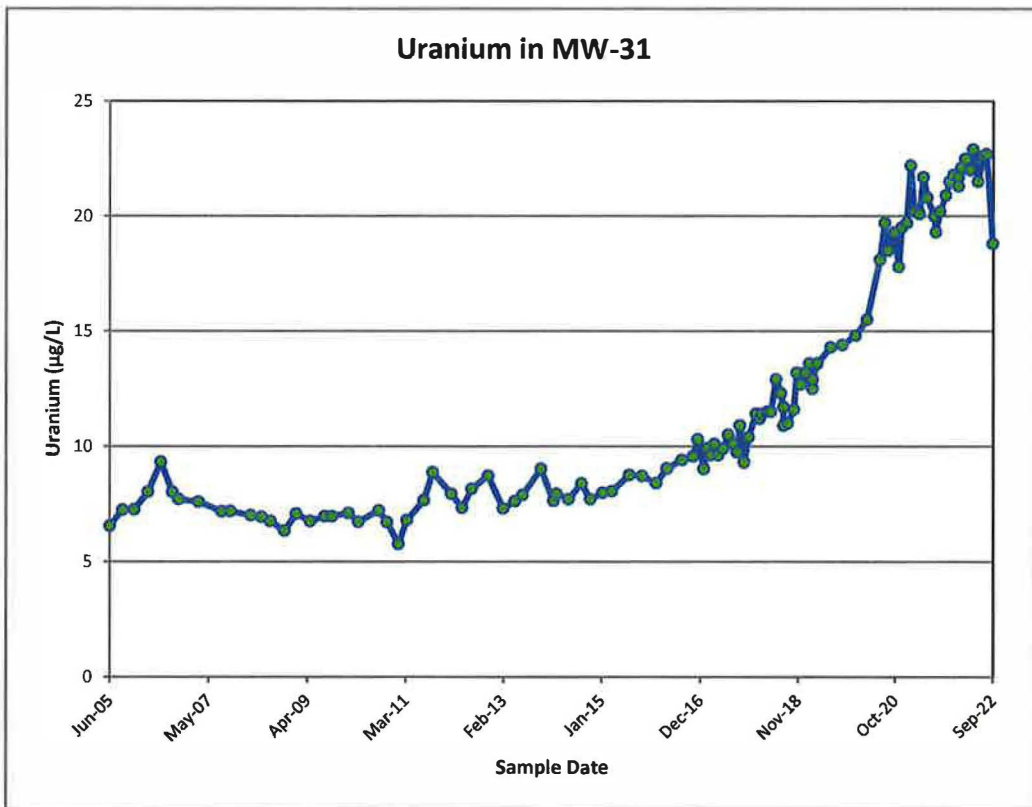
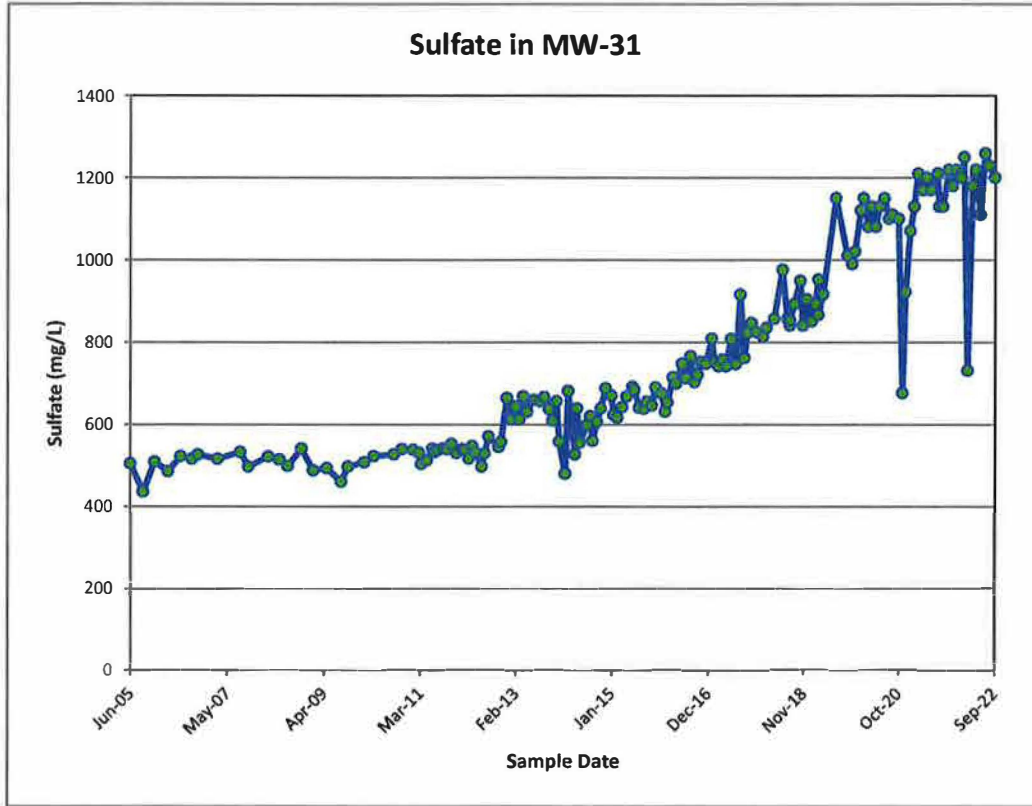
Time concentration plots for MW-30



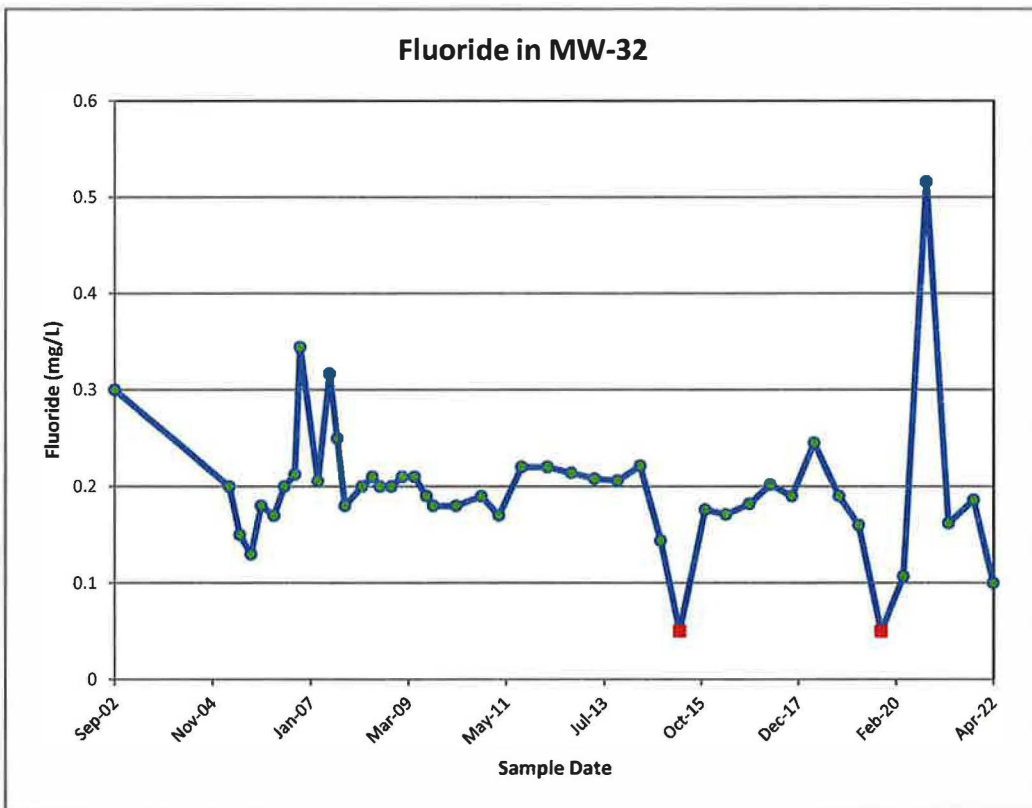
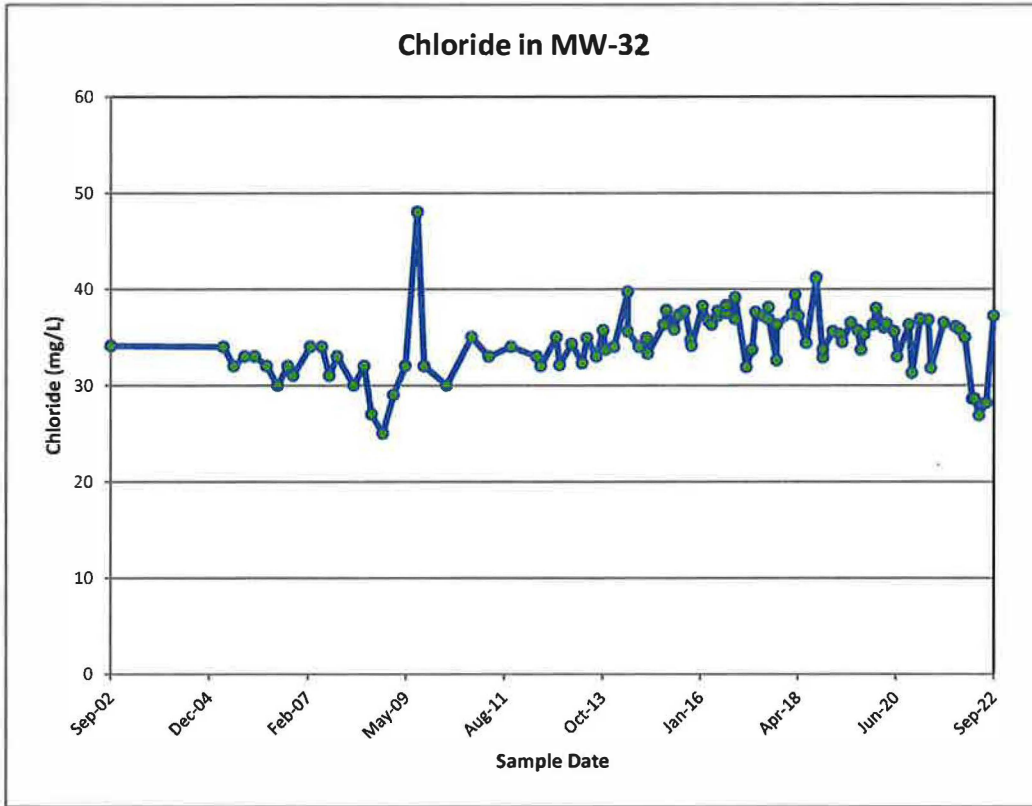
Time concentration plots for MW-31



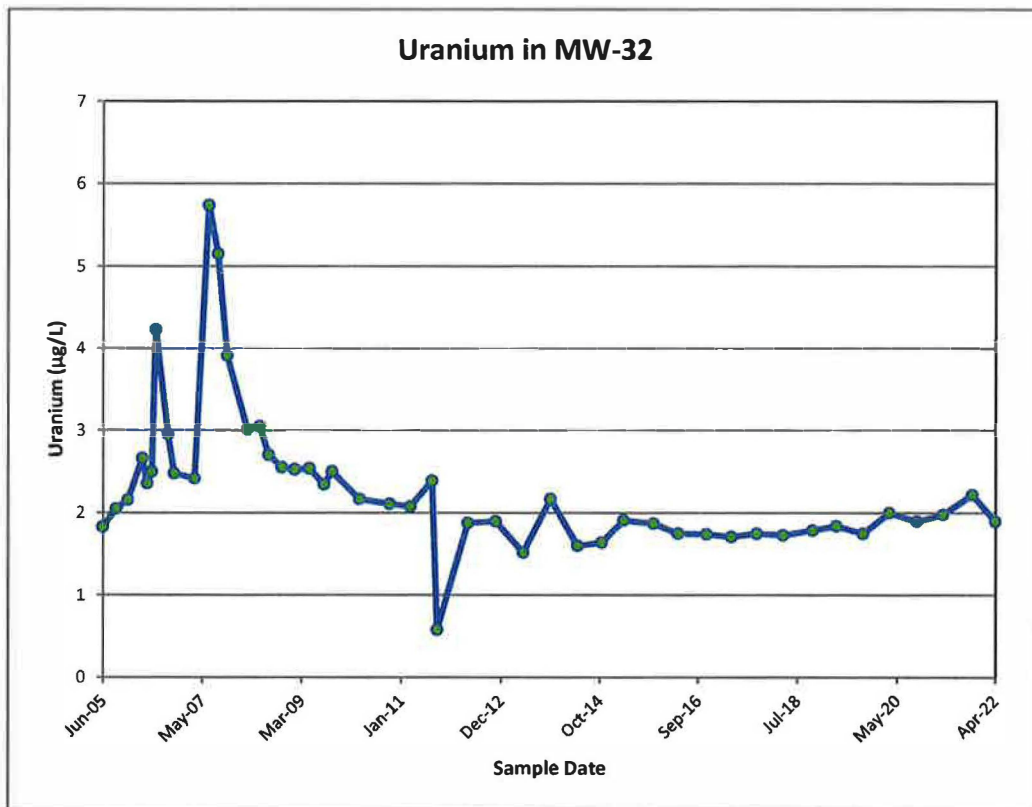
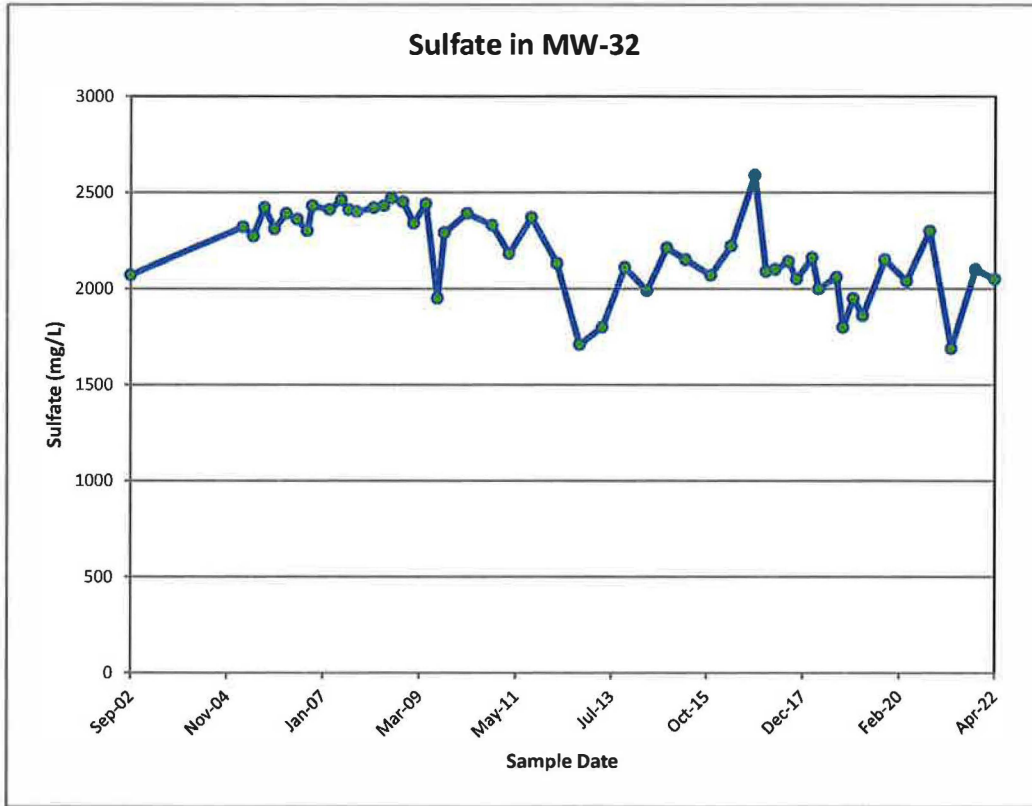
Time concentration plots for MW-31



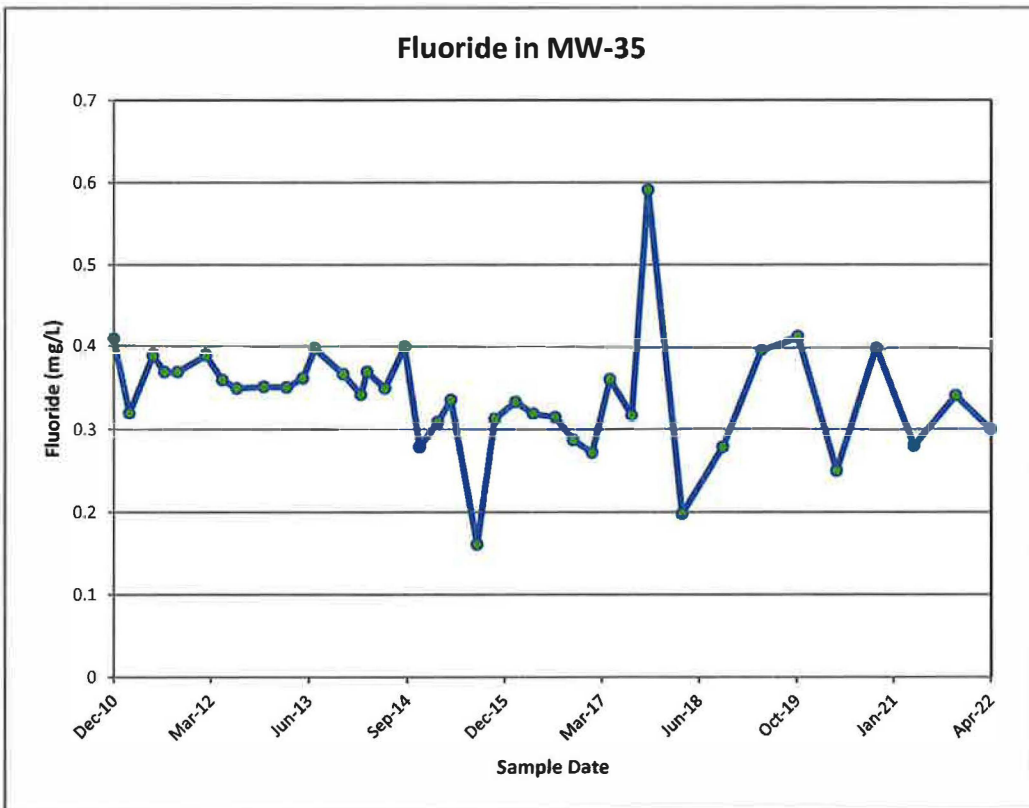
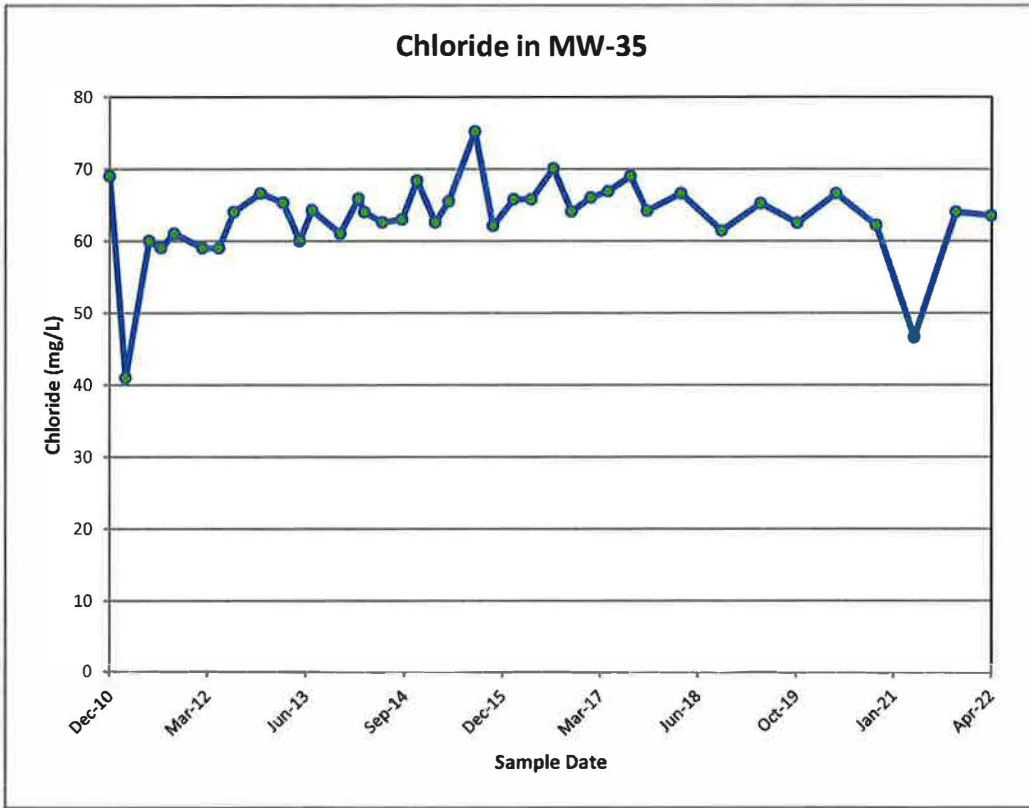
Time concentration plots for MW-32



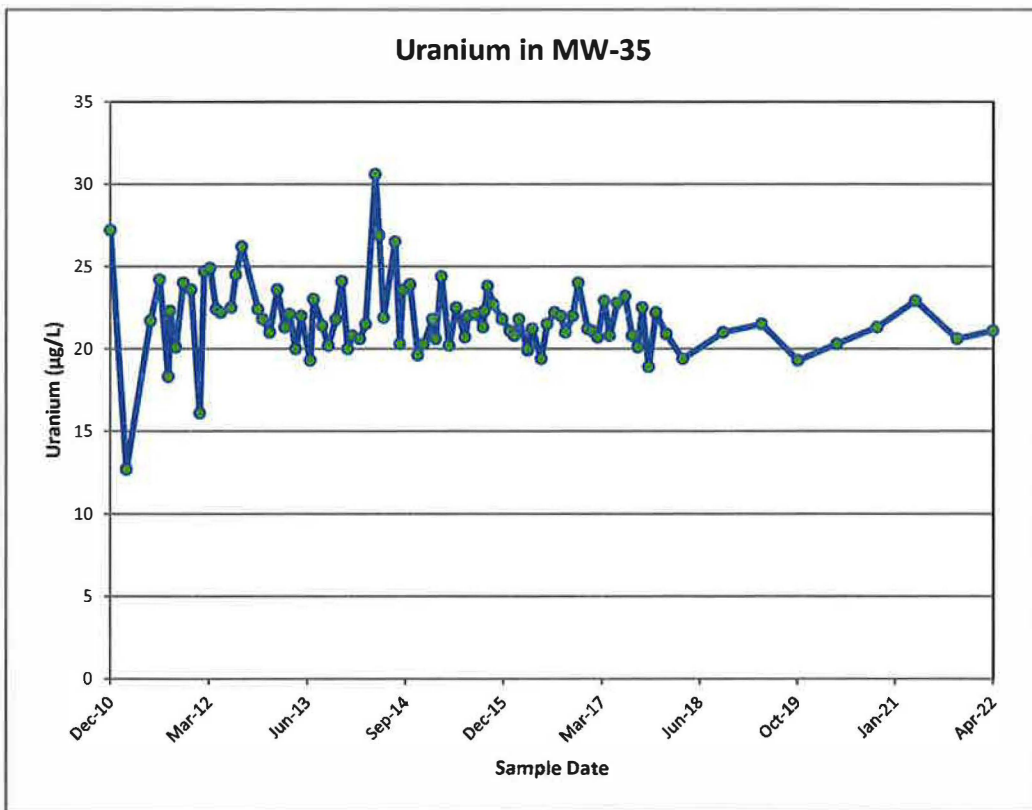
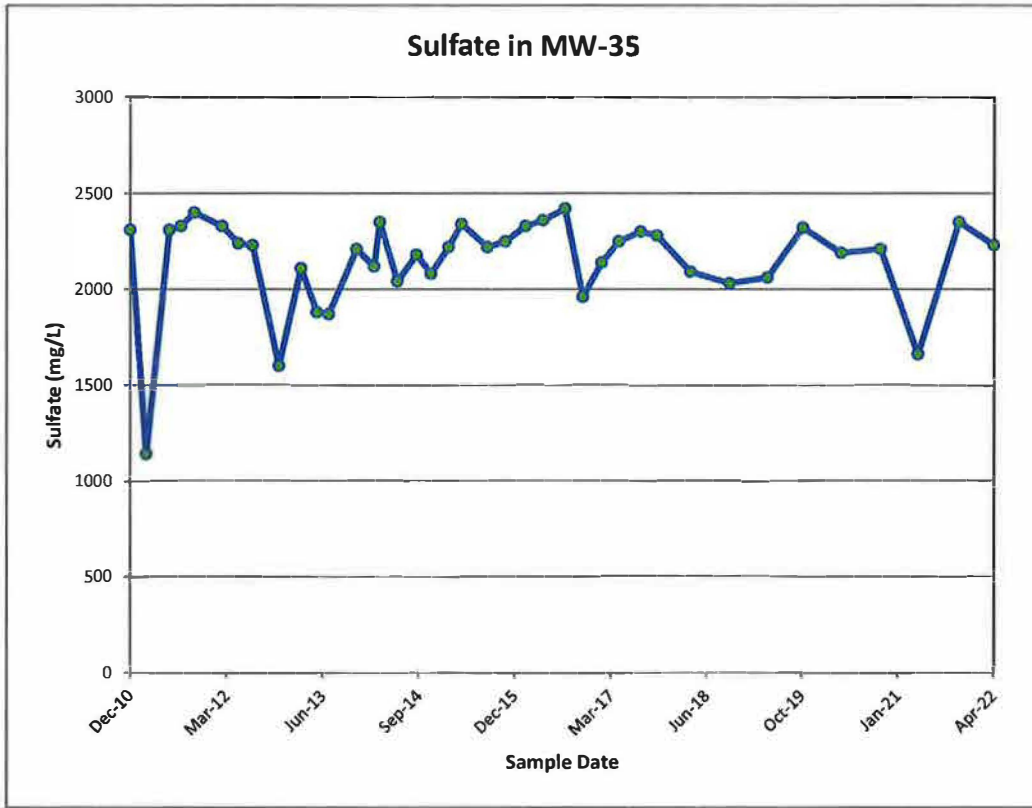
Time concentration plots for MW-32



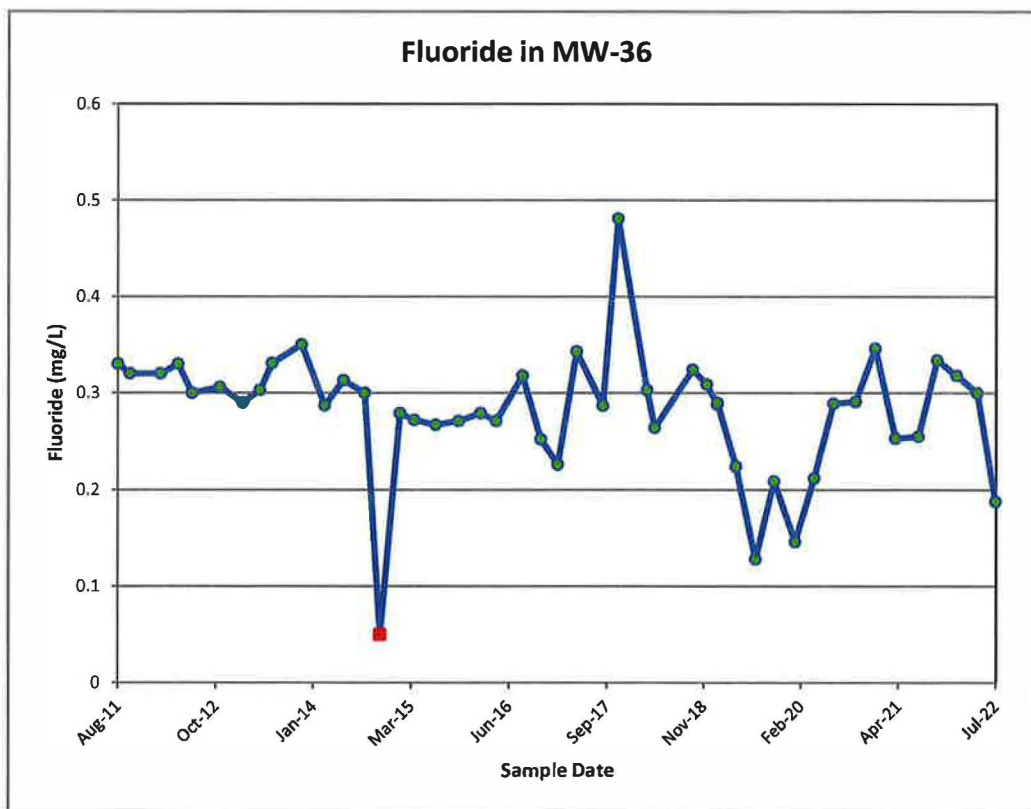
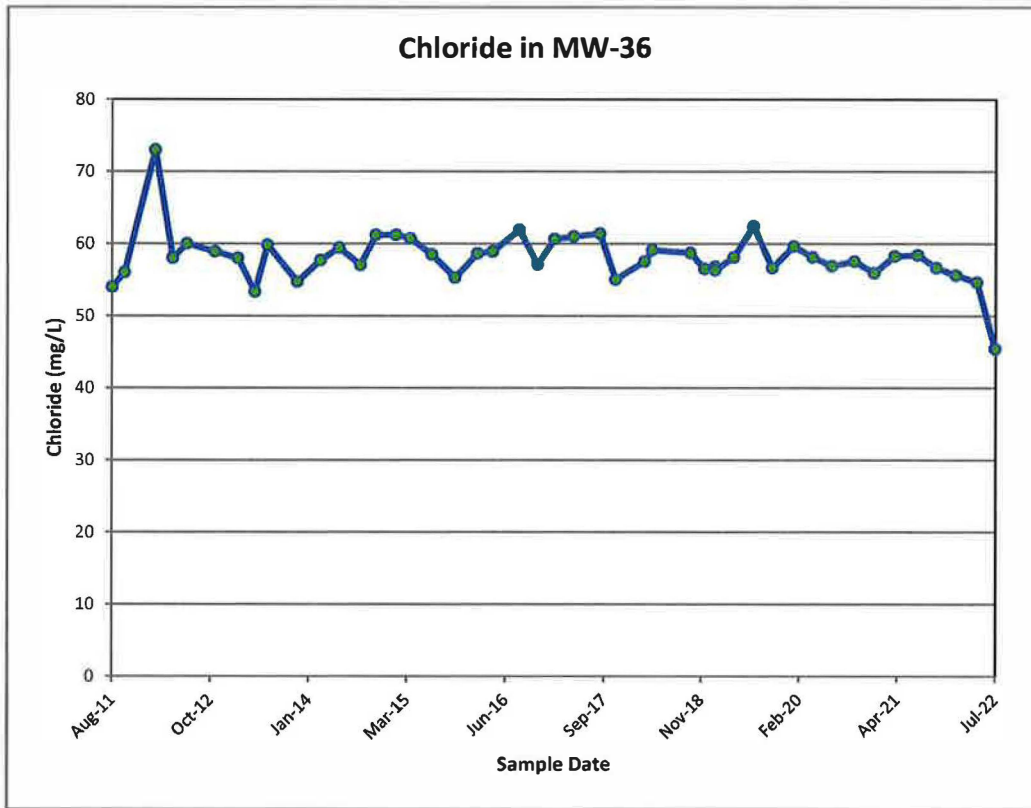
Time concentration plots for MW-35



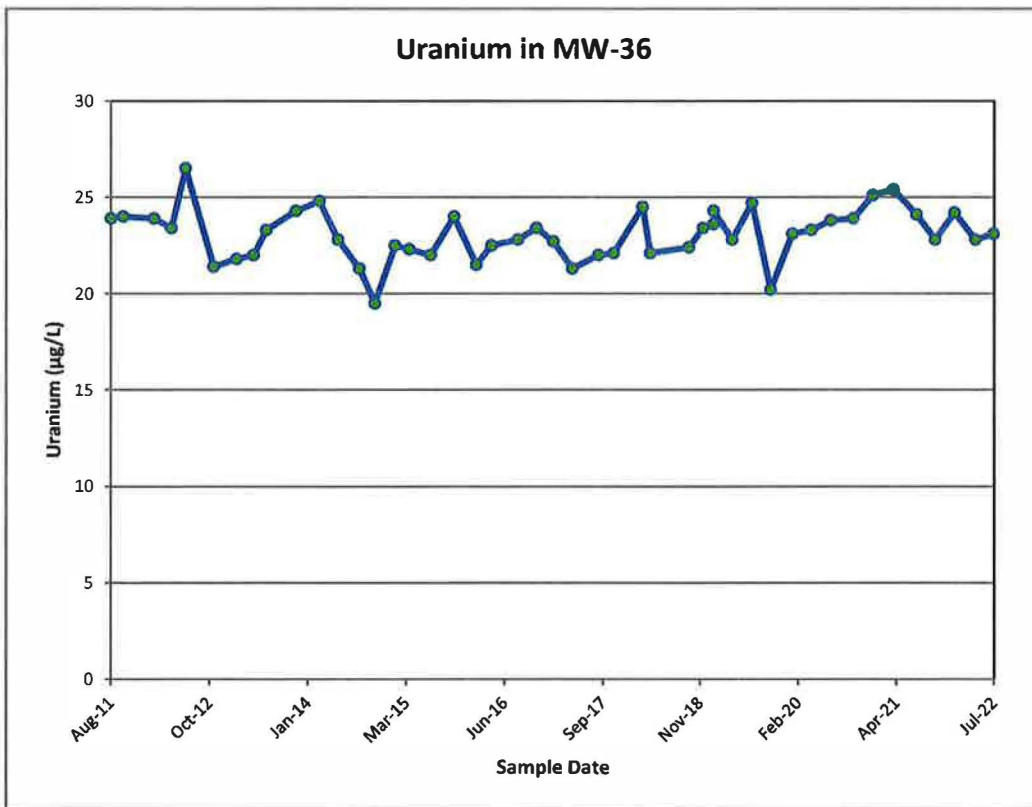
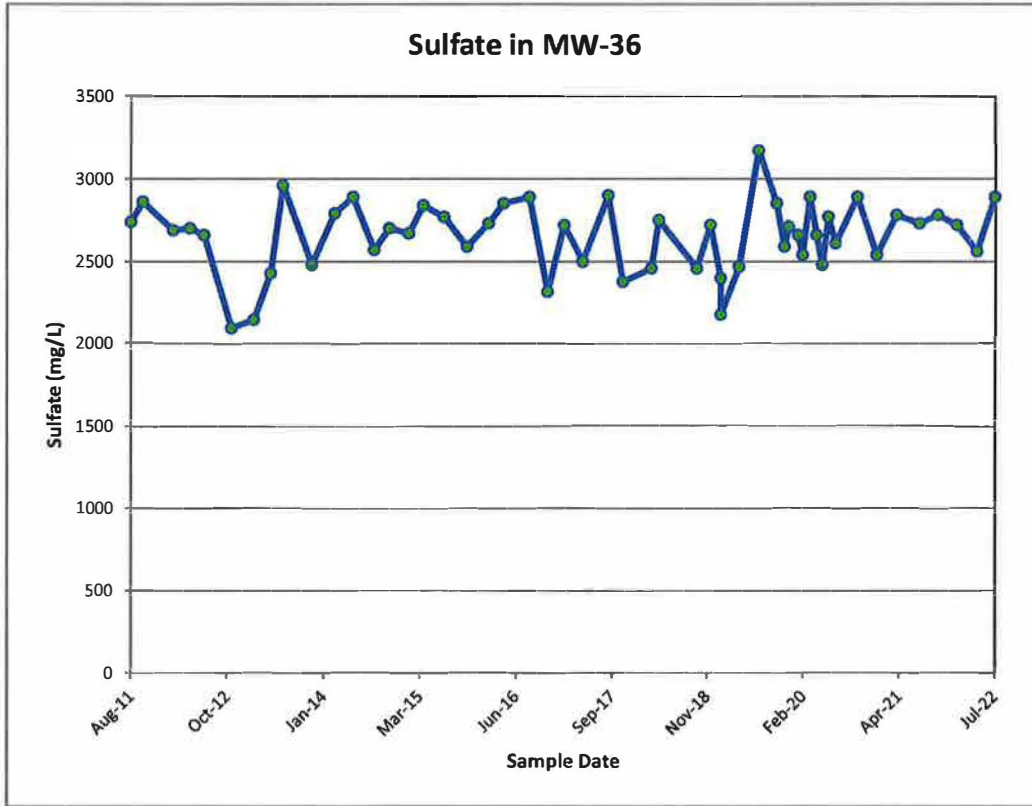
Time concentration plots for MW-35



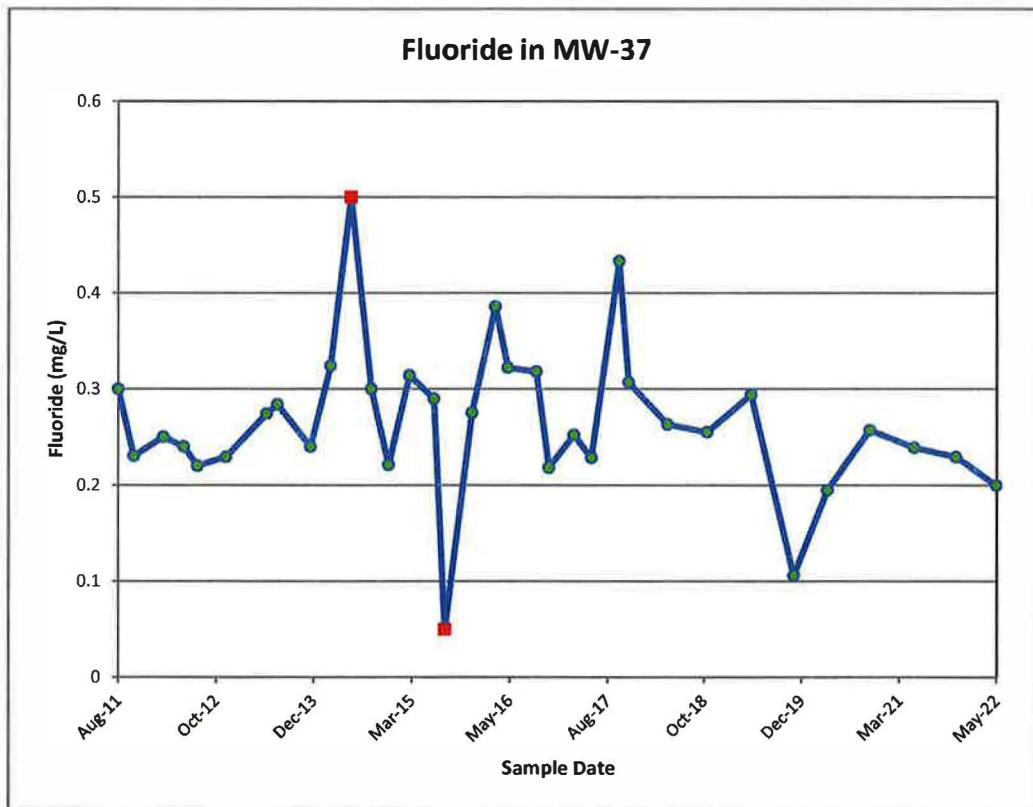
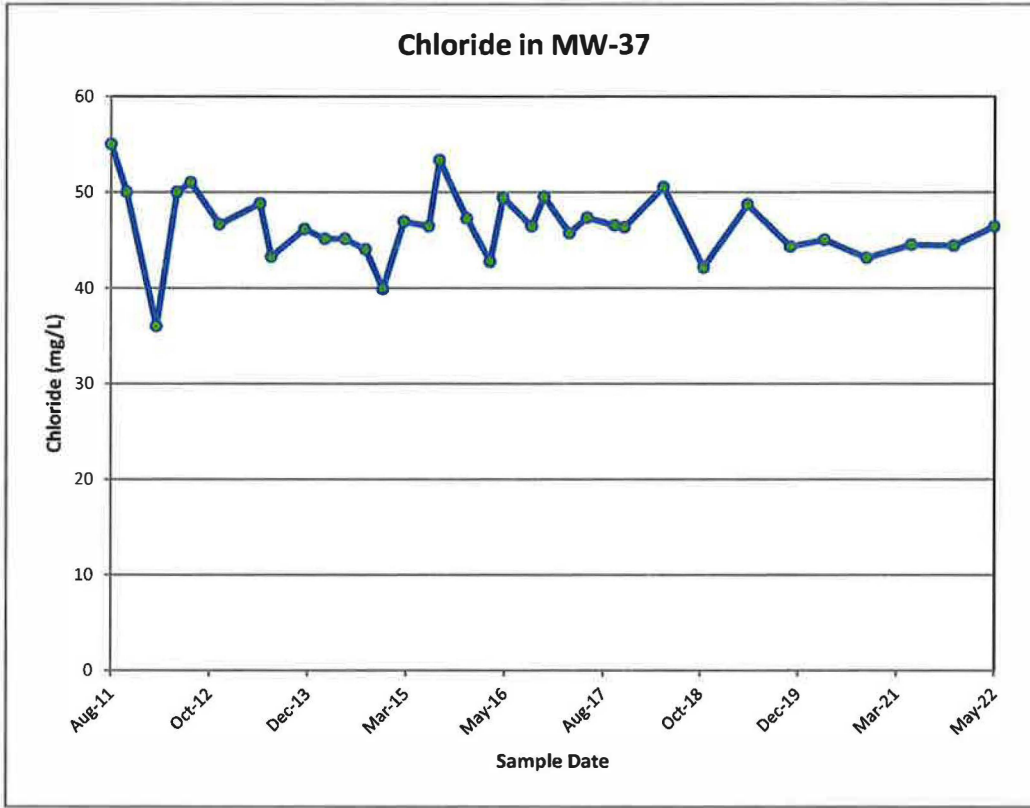
Time concentration plots for MW-36



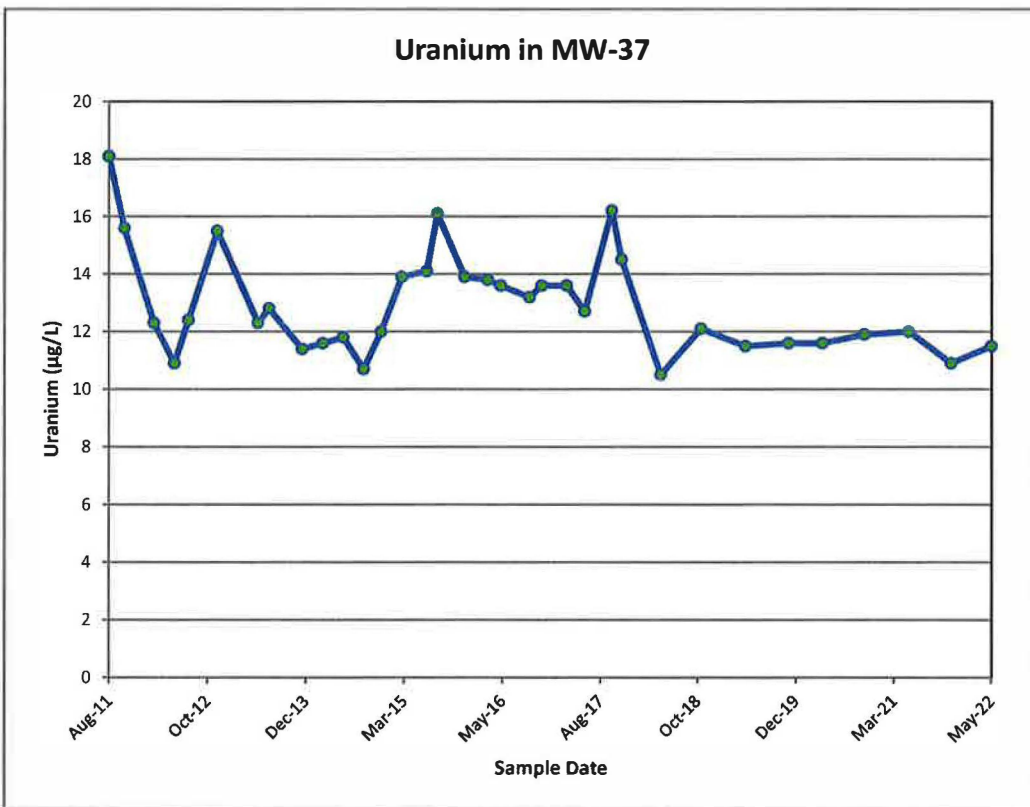
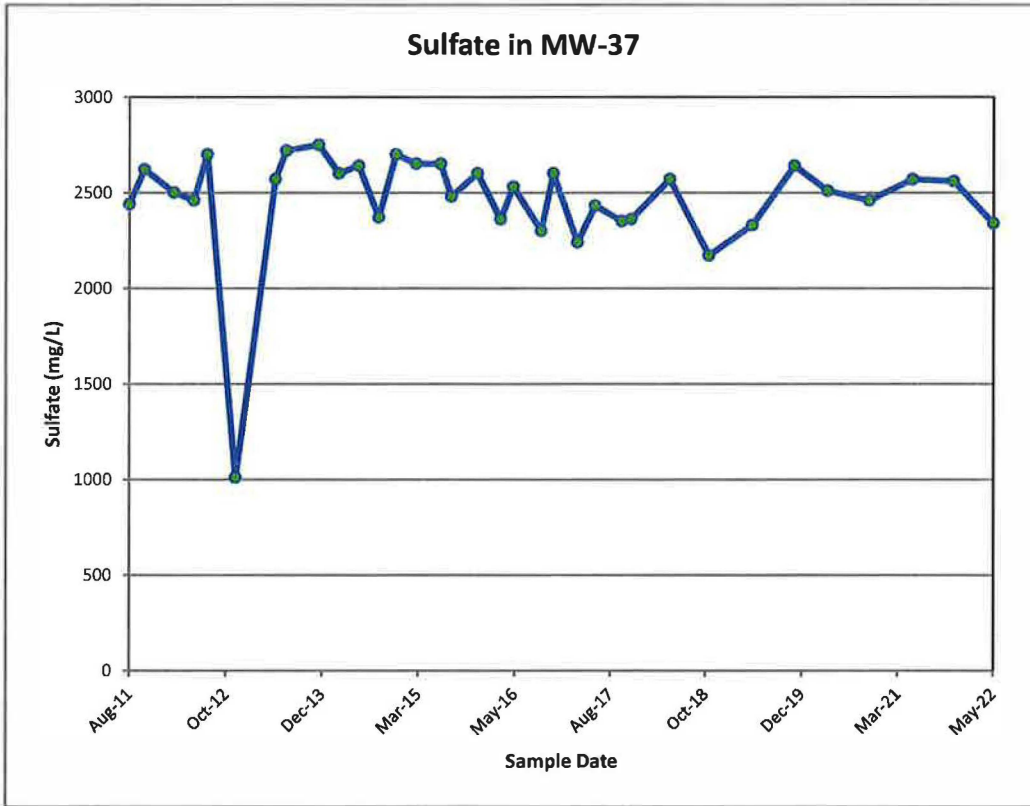
Time concentration plots for MW-36



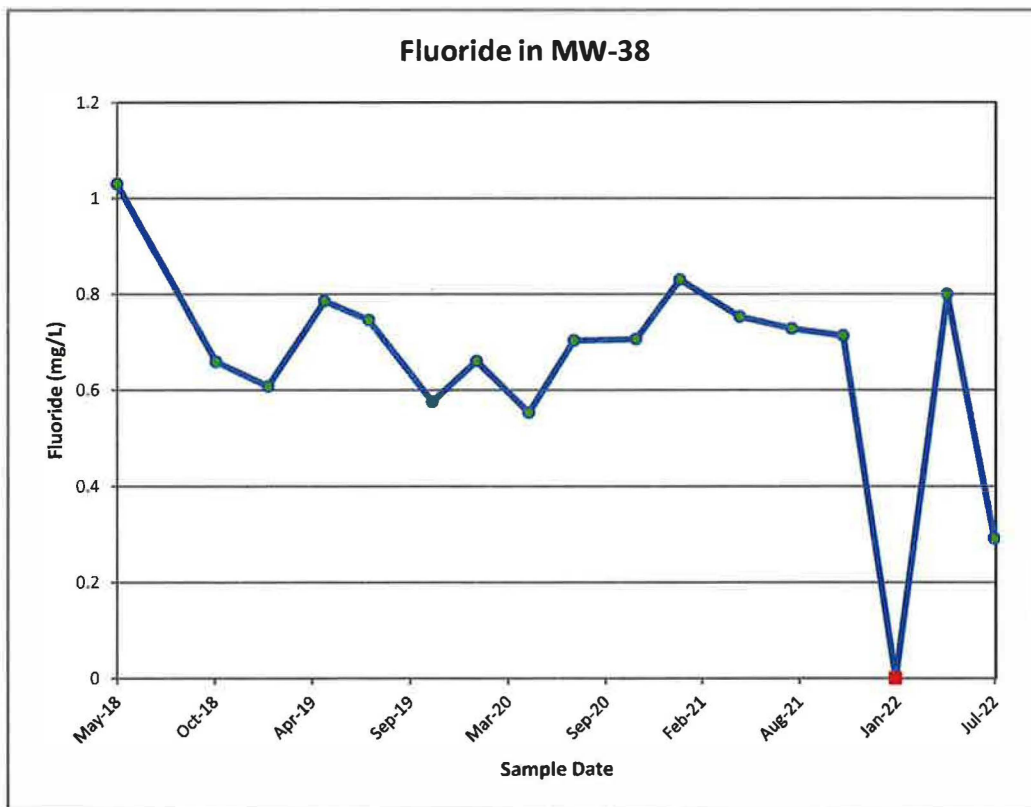
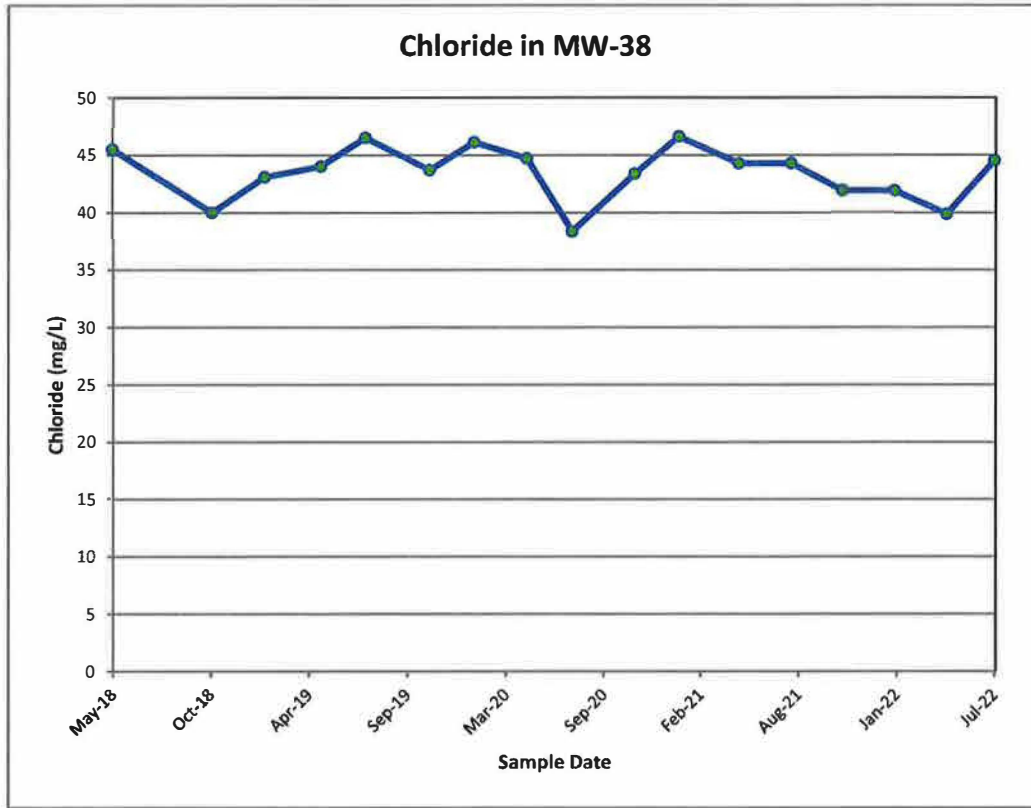
Time concentration plots for MW-37



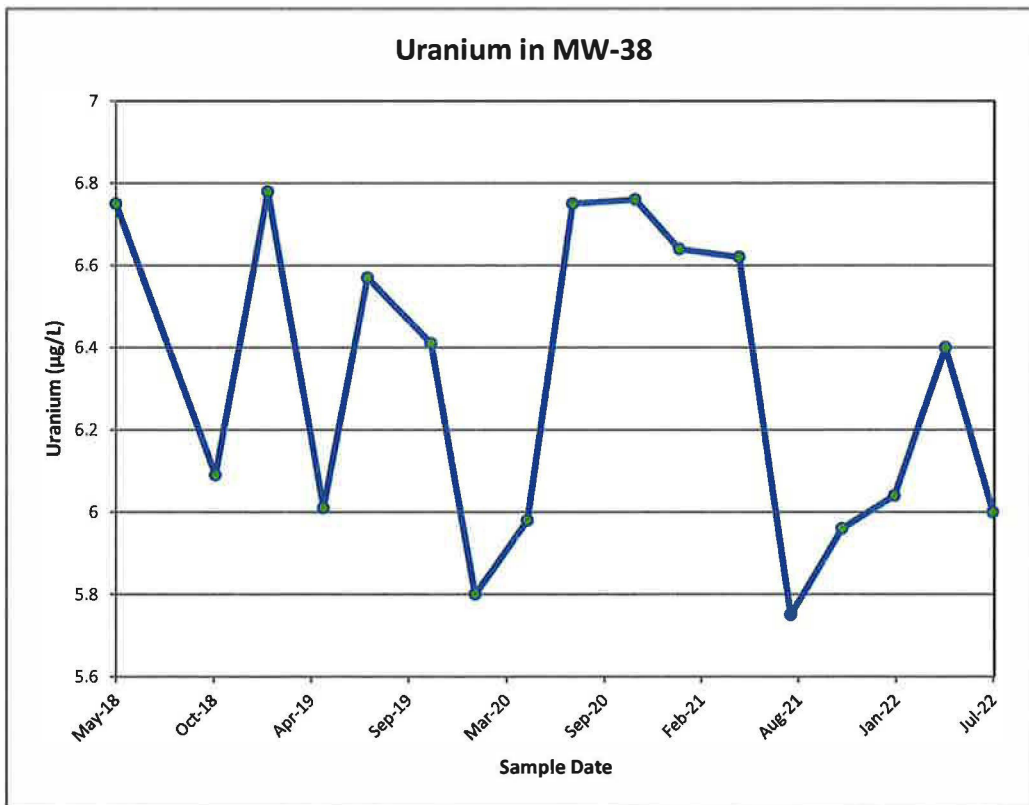
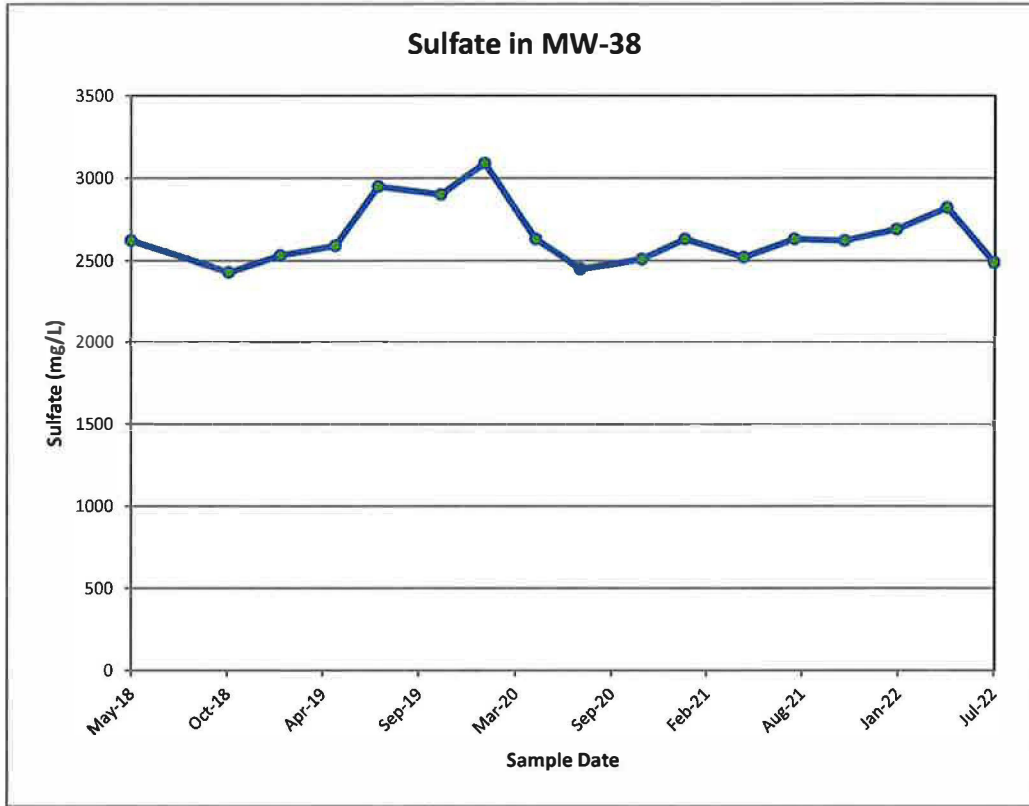
Time concentration plots for MW-37



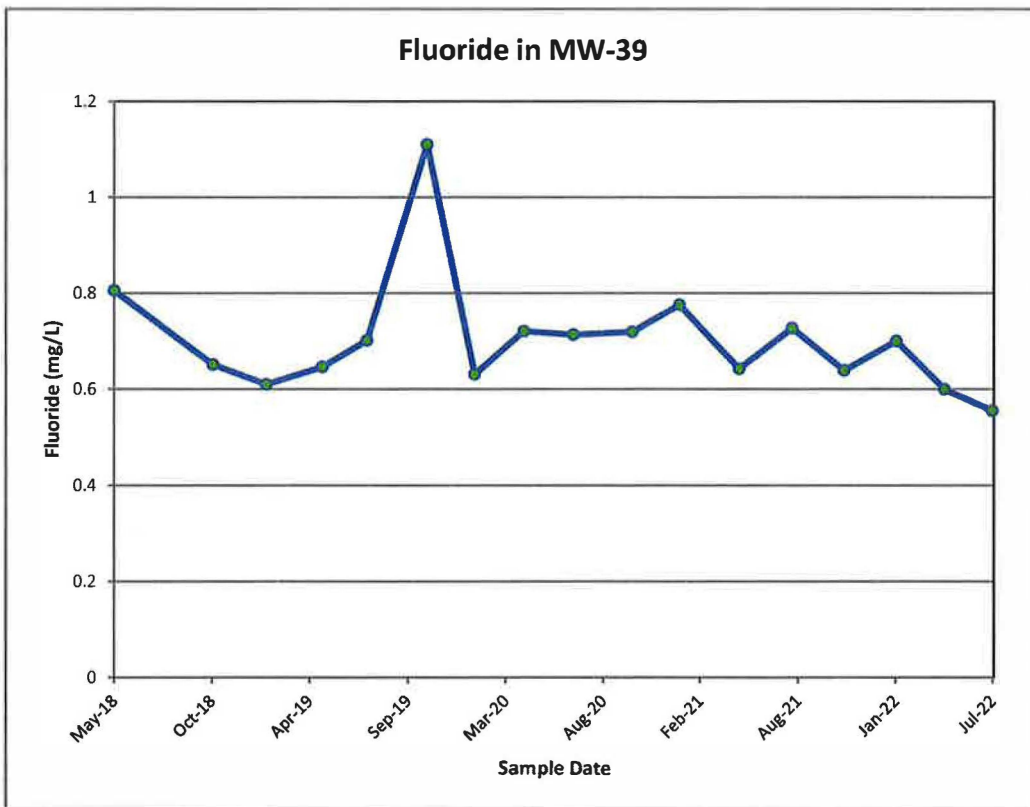
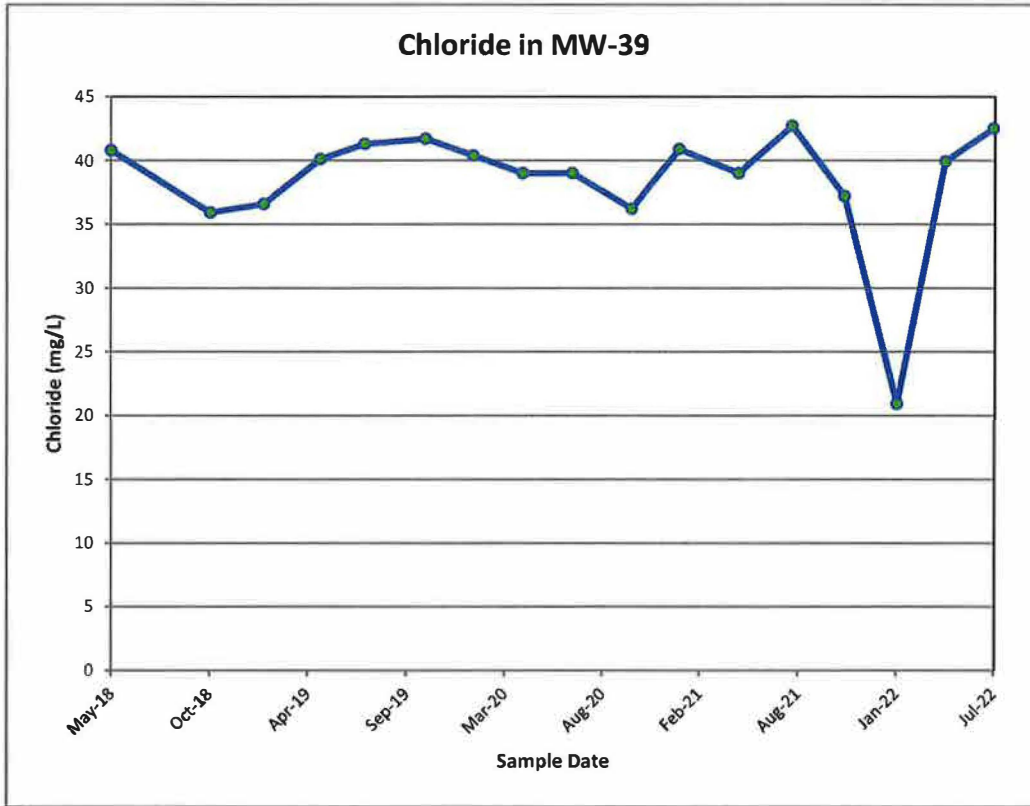
Time concentration plots for MW-38



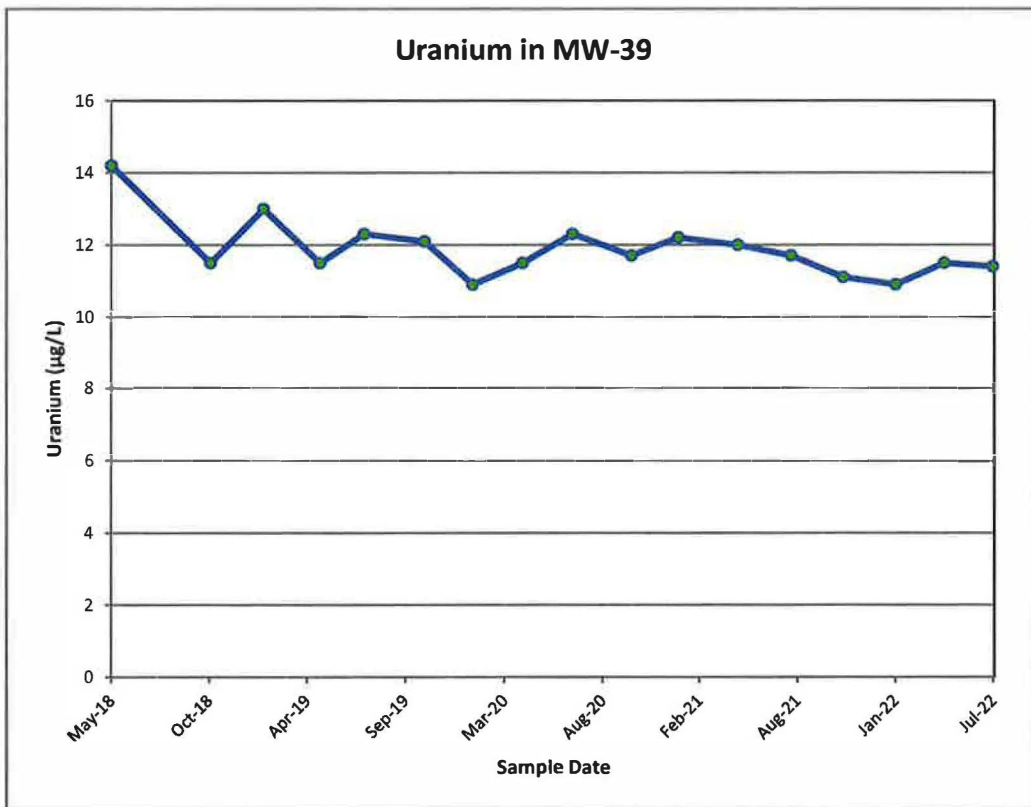
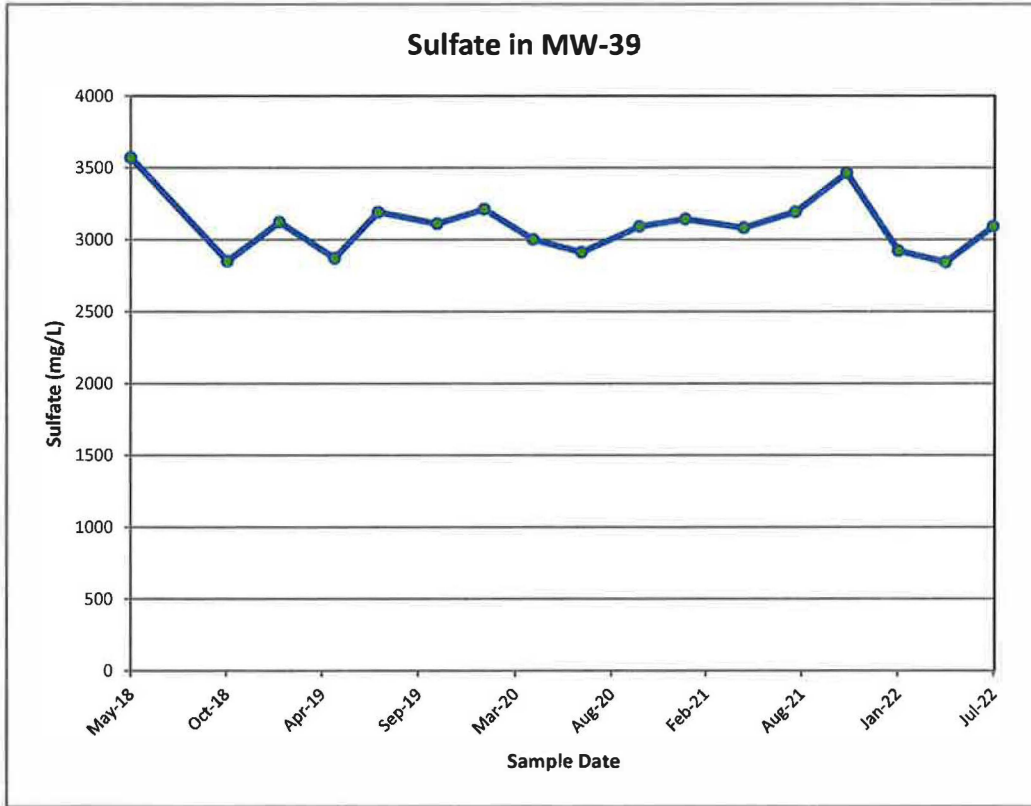
Time concentration plots for MW-38



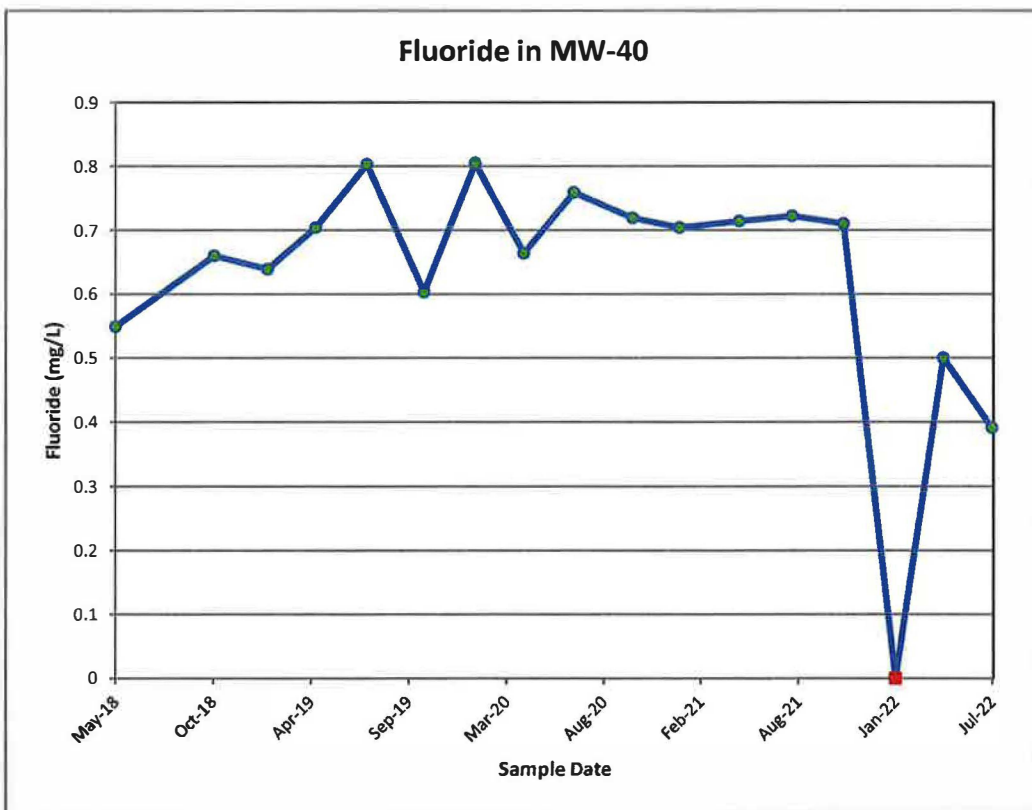
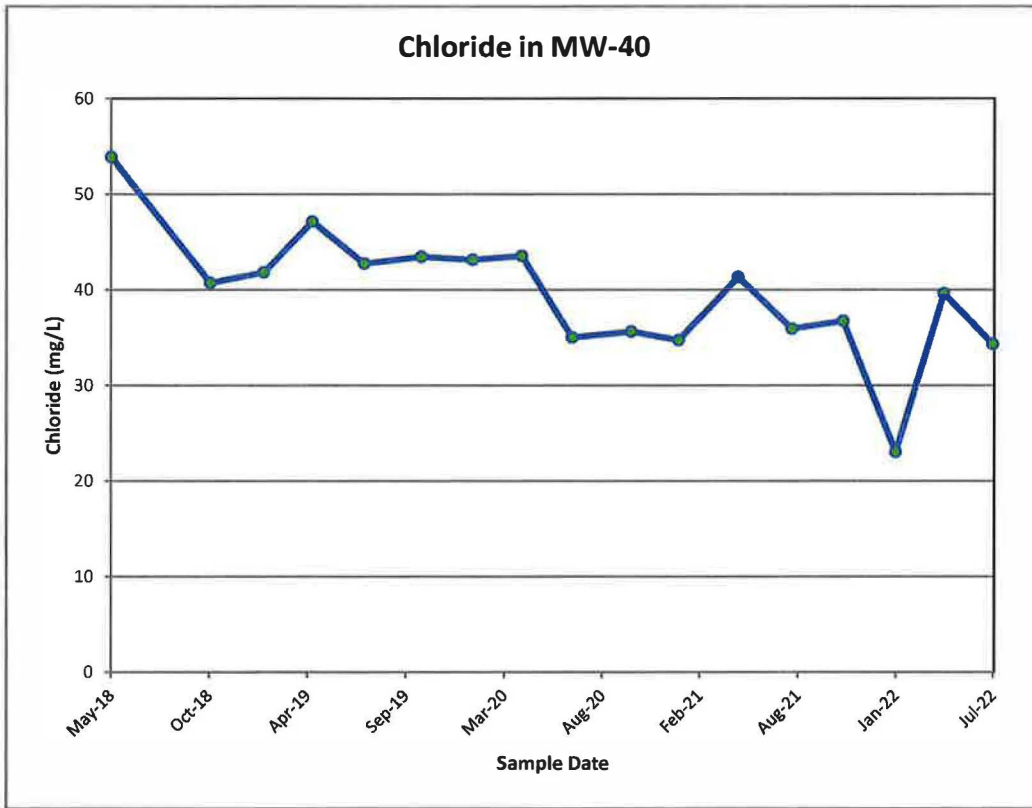
Time concentration plots for MW-39



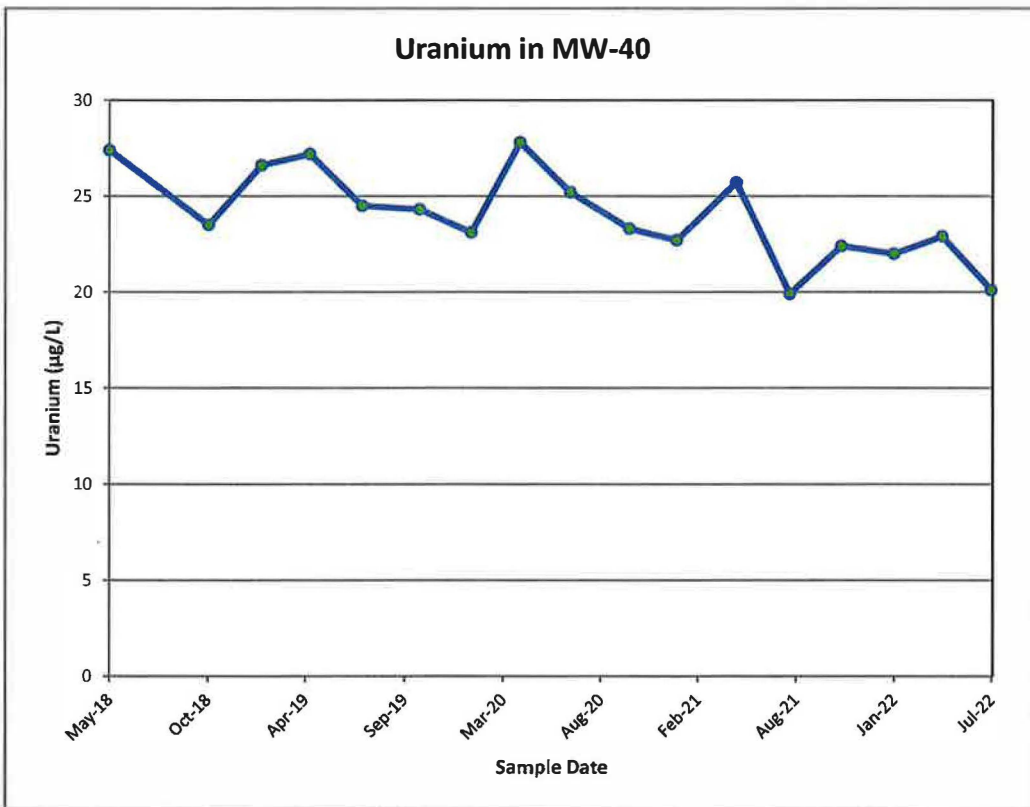
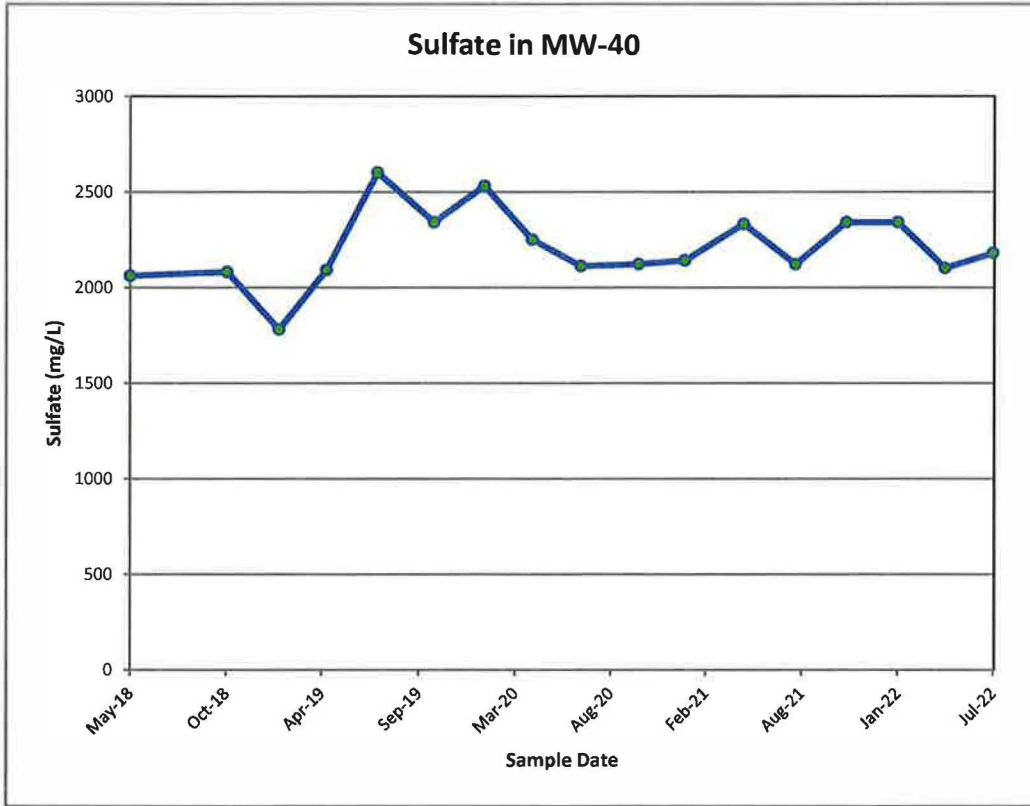
Time concentration plots for MW-39



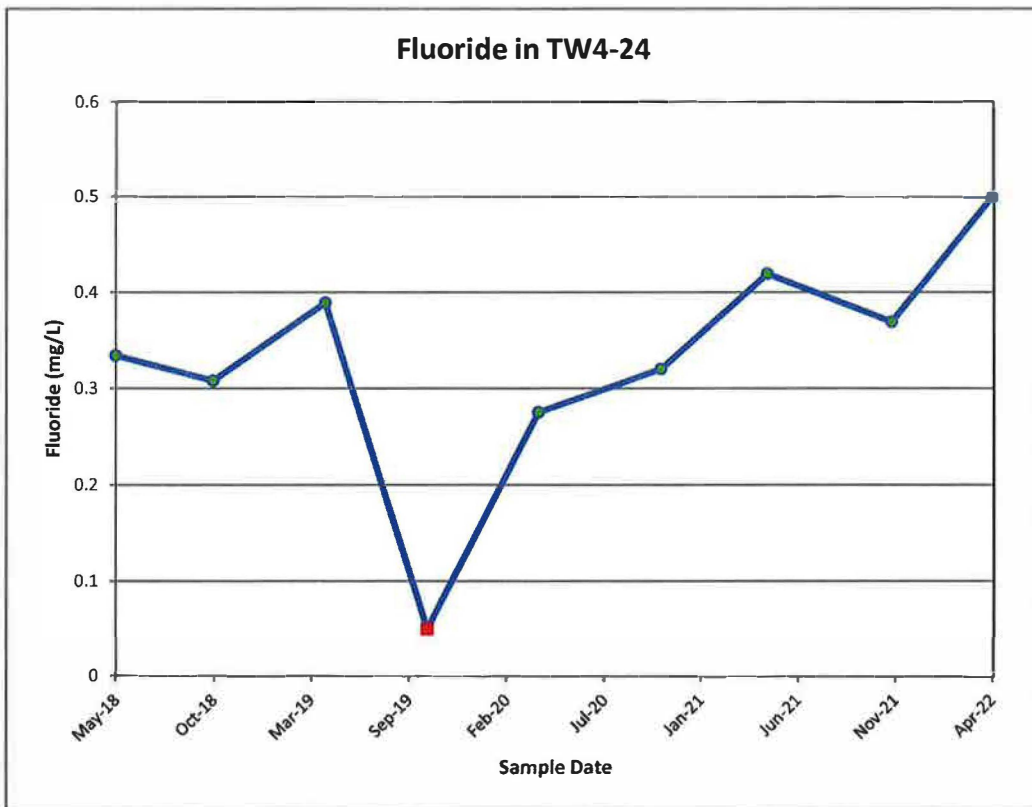
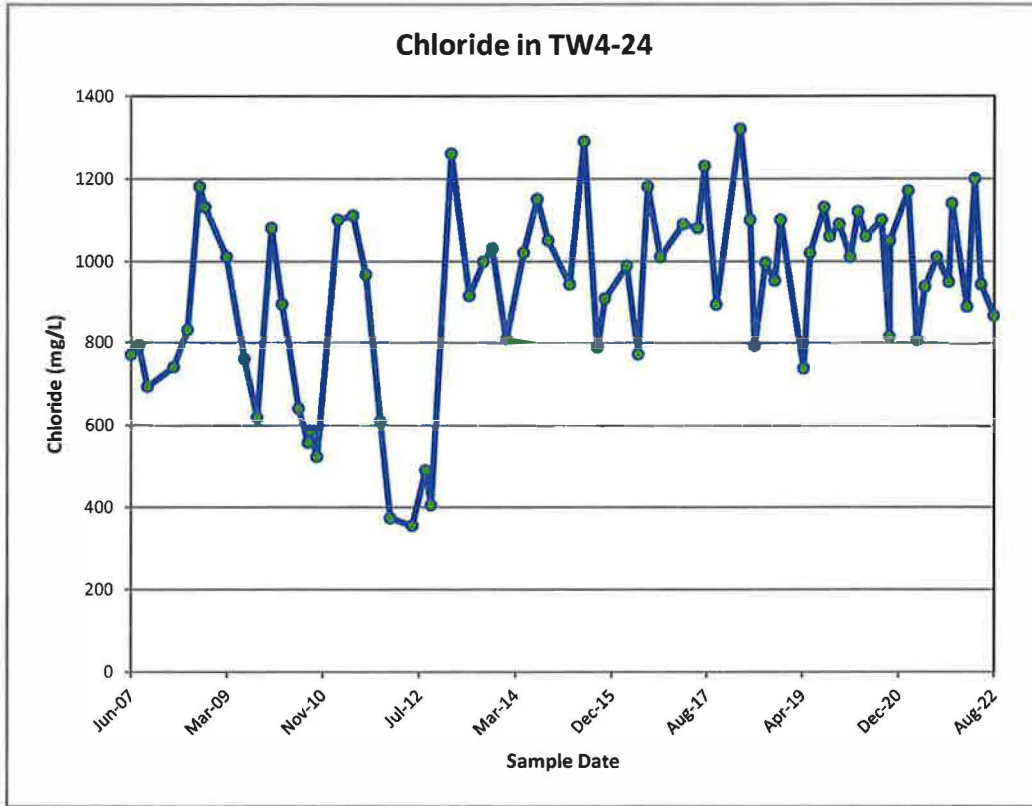
Time concentration plots for MW-40



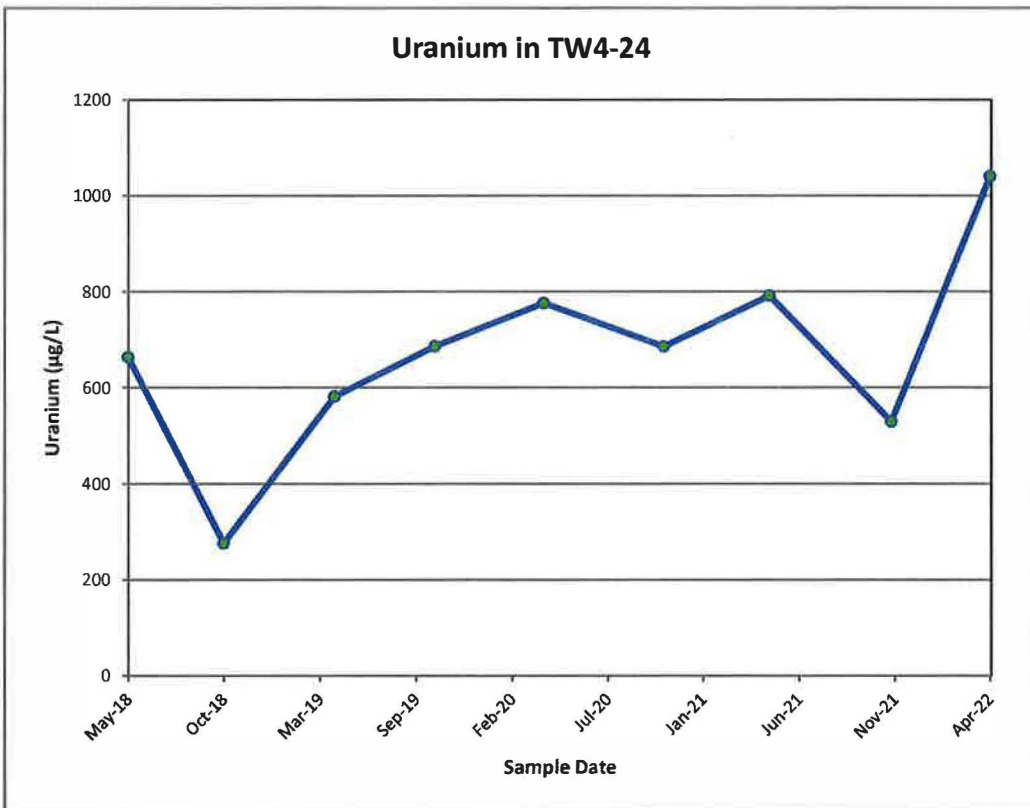
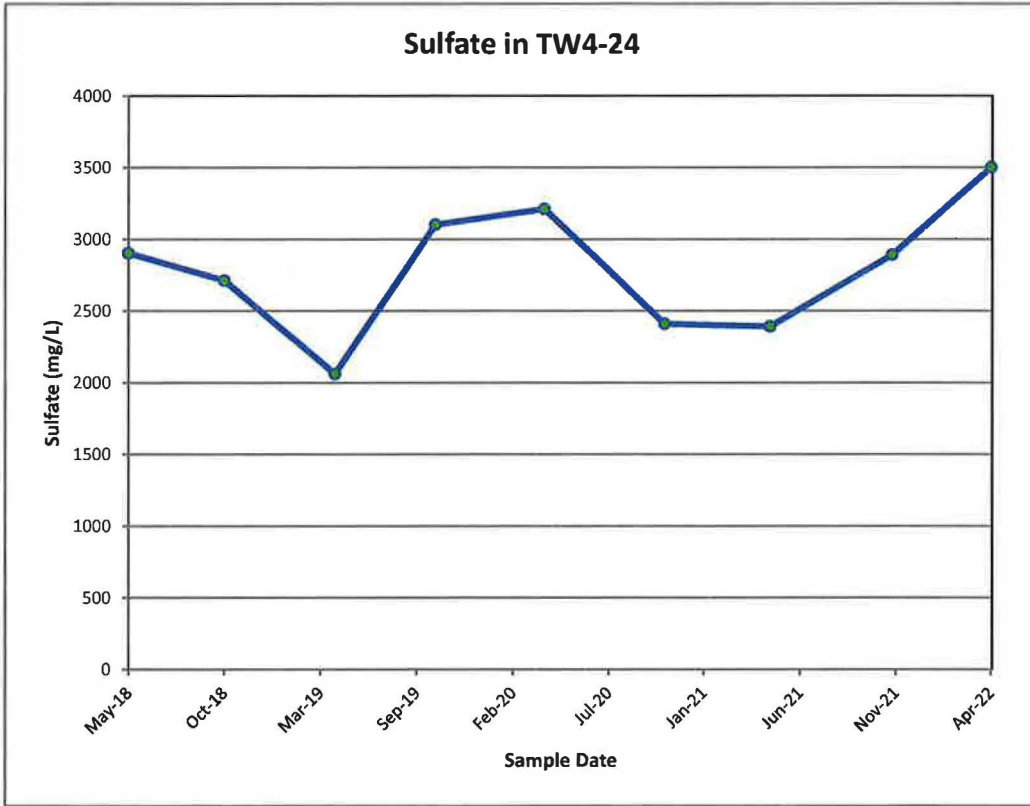
Time concentration plots for MW-40



Time concentration plots for TW4-24



Time concentration plots for TW4-24



Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, October 24, 2022 10:12 AM
To: Phillip Goble
Cc: 'Dean Henderson'; David Frydenlund; Scott Bakken; Garrin Palmer; Logan Shumway; Jordan Christine App
Subject: Transmittal of CSV Files White Mesa Mill 2022 Q3 Groundwater Monitoring
Attachments: DTW All Programs Q3 2022.xlsx; Q3 2022 Analytical Data.csv; Q3 2022 GW Field Data.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for groundwater monitoring conducted at the White Mesa Mill during the third quarter of 2022, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel



Kathy Weinel
Director, Regulatory Compliance

t:303.389.4134 | c: | f:303.389.4125
KWeinel@energyfuels.com

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Lakewood, CO 80228

<http://www.energyfuels.com>

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