



Div of Waste Management
and Radiation Control

MAY 11 2022

Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

DRC-2022-009781

May 5, 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 1st 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 1st 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 black ink, appearing to read 'Kathy Weinel', written in a cursive style.

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

cc: David Frydenlund
Scott Bakken
Logan Shumway
Garrin Palmer



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Kathy Weinel
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White Mesa Uranium Mill
Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

1st Quarter
(January through March)
2022

Prepared by:



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

May 5, 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 first 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.

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 March 19, 2019 GWDP Part 1.H.2 and quarterly sampling commenced in fourth quarter 2018. The March 19, 2019 GWDP Part 1.H.3 required the completion of a background report for each of these wells after the completion of 8 quarters of sampling. The background reports and resultant GWCLs are to be calculated based on 8 statistically valid data points.

The background report for wells MW-38, MW-39 and MW-40 was submitted to DWMRC on March 4, 2021.

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 American West Analytical Laboratories (“AWAL”)/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 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.

Exceedances of the GWCLs for this quarter are listed in Table 2 for sampling required under the both GWDPs. 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 revised GWDP for constituents which did not have revised GWCLs included in the current GWDP.

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 AWAL and returned and analyzed with the quarterly monitoring samples.

One trip blank for each of the monthly accelerated sample events was provided by AWAL 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-25. 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. 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 nondetect for VOCs except for the March monthly trip blank, which reported a detection of 1.9 ug/L.

The QAP requires that each shipment of samples with VOCs shall be accompanied by a trip blank. Per the approved QAP, contamination detected in analysis of trip blanks will be used to evaluate any 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 trip blank result. MW-26 reported a detection of 1460 ug/L. Because the trip blank results were less than an order of magnitude of the sample results, the trip blank results were within the acceptance limits specified in the QAP.

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 SOP. Duplicate results for the quarterly and semi-annual samples were within the acceptance limits specified in the QAP. 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 require that gross alpha analysis be reported with an activity equal to or greater than the GWCL and shall have a counting variance that is 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.

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 AWAL/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 tetrahydrofuran (“THF”) in one of the analytical batches was above the upper acceptance limit (i.e. high recovery). The LCS recovery affected samples MW-24, MW-24A, MW-38, MW-39, MW-40 and the trip blank. The data were flagged in accordance with EPA Method 8260D. 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 Section 9.1.3, 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. The method blanks for the quarterly samples reported no detections except for the method blank for ammonia in analytical batch 2201511, which reported a detection of 0.0655 mg/L. 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 method blank result. All of the samples in the analytical batch reported detections at least one order of magnitude above the method blank detection, except MW-38. MW-38 was nondetect for ammonia. The MW-38 data are usable for the intended purpose because the method blank detection is indicative of a high bias to the sample results. Since the results for MW-38 were nondetect, there is no adverse affect on the ammonia data for that analyte. A high bias results in a more conservative data application. EFRI does not believe the data quality has been affected for any of the samples in the analytical batch. Method blank results are included in Tab E and Tab F.

The method blanks for the accelerated samples reported no detections of any analyte. 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. Duplicate results are included in the analytical data.

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.

 5/5/22

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	1/18/2022	(2/7/22, 2/4/22) [2/21/22]
MW-12	Semi-annually	Semi-annually	1/20/2022	(2/7/22)
MW-14	Quarterly	Quarterly	1/18/2022	(2/7/22, 2/4/22) [2/21/22]
MW-24	Semi-annually	Semi-annually	1/27/2022	(2/21/22, 2/21/22) [2/21/22]
MW-24A	Semi-annually	Semi-annually	1/26/2022	(2/21/22, 2/21/22) [2/21/22]
MW-25	Quarterly	Quarterly	1/17/2022	(2/7/22, 2/4/22) [2/21/22]
MW-26	Quarterly	Quarterly	1/20/2022	(2/7/22, 2/4/22) [2/21/22]
MW-27	Semi-annually	Semi-annually	1/18/2022	(2/7/22)
MW-28	Semi-annually	Semi-annually	1/20/2022	(2/7/22)
MW-29	Semi-annually	Semi-annually	1/18/2022	(2/7/22)
MW-30	Quarterly	Quarterly	1/17/2022	(2/7/22, 2/4/22) [2/21/22]
MW-31	Quarterly	Quarterly	1/19/2022	(2/7/22, 2/4/22) [2/21/22]
MW-32	Semi-annually	Semi-annually	1/19/2022	(2/7/22)
MW-36	Quarterly	Quarterly	1/17/2022	(2/7/22, 2/4/22) [2/21/22]
MW-38	Quarterly	Background	1/27/2022	(2/21/22, 2/21/22) [2/21/22]
MW-39	Quarterly	Background	1/26/2022	(2/21/22, 2/21/22) [2/21/22]
MW-40	Quarterly	Background	1/25/2022	(2/21/22, 2/21/22) [2/21/22]
MW-65	1 per Batch	Duplicate of MW-31	1/19/2022	(2/7/22, 2/4/22) [2/21/22]
Accelerated February Monthly				
MW-11	Monthly	Accelerated	2/8/2022	(2/25/22, 2/25/22)
MW-25	Monthly	Accelerated	2/9/2022	(2/25/22, 2/25/22)
MW-26	Monthly	Accelerated	2/9/2022	(2/25/22, 2/25/22)
MW-30	Monthly	Accelerated	2/9/2022	(2/25/22, 2/25/22)
MW-31	Monthly	Accelerated	2/8/2022	(2/25/22, 2/25/22)
MW-65	Monthly	Duplicate of MW-30	2/9/2022	(2/25/22, 2/25/22)
Accelerated March Monthly				
MW-11	Monthly	Accelerated	3/8/2022	(4/8/22)
MW-25	Monthly	Accelerated	3/7/2022	(4/8/22)
MW-26	Monthly	Accelerated	3/8/2022	(4/8/22)
MW-30	Monthly	Accelerated	3/7/2022	(4/8/22)
MW-31	Monthly	Accelerated	3/7/2022	(4/8/22)
MW-65	1 per Batch	Duplicate of MW-11	3/8/2022	(4/8/22)

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 American West Analytical Laboratories (AWAL)/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
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

Notes:

Highlighted text shows accelerated requirements resulting from Q1 2022 sampling event.

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

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in March 8, 2021 GWDP	Q1 2021 Results					Q2 2021 Results					Q3 2021 Results					Q4 2021 Results													
			Q1 2021 Sample Date	Q1 2021 Result	February 2021 Monthly Sample Date	February 2021 Monthly Result	March 2021 Monthly Sample Date	March 2021 Monthly Result	Q2 2021 Sample Date	Q2 2021 Result	May 2021 Monthly Sample Date	May 2021 Monthly Result	June 2021 Monthly Sample Date	June 2021 Monthly Result	Q3 2021 Sample Date	Q3 2021 Result	August 2021 Monthly Sample Date	August 2021 Monthly Result	September 2021 Monthly Sample Date	September 2021 Monthly Result	Q4 2021 Sample Date	Q4 2021 Result	November 2021 Monthly Sample Date	November 2021 Monthly Result	December 2021 Monthly Sample Date	December 2021 Monthly Result					
Required Quarterly Sampling Wells																															
MW-11 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/12/21	1.21	NA	2/9/21	NA	3/8/21	NA	04/20/21	0.948	NA	5/10/21	NA	6/8/21	NA	7/27/21	0.924	NA	8/10/21	NA	9/7/21	NA	10/20/21	1.5	NA	11/16/21	NA	12/13/21	NA	
	Chloride (mg/L)	39.16		46.4	46.4		47.7		46.4		52.1	48.3		57.0		49.6		52.8	53.6		53.9										
	Manganese (ug/L)	237		185	254		221		237		NA	NA		NA		NA		286	261		300										
	Sulfate (mg/L)	1309		1140	1260		1270		1290		1280	1270		1370		1240		1360	1300		1350										
	TDS (mg/L)	2528		2010	2160		1950		2110		2190	1960		2680		NA		2200	2230		2140										
MW-25 (Class III)	TDS (mg/L)	2976	1/11/21	2660	NS	NA	NS	NA	04/14/21	2720	NS	NA	NS	NA	7/28/21	3100	NS	NA	NS	NA	10/20/21	2680	11/16/21	2920	12/14/21	2590					
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/14/21	0.619	0.764	2/10/21	0.617	3/9/21	0.617	04/21/21	1.42	1.06	5/11/21	0.368	6/8/21	0.352	1.42	7/28/21	0.352	0.710	8/10/21	0.928	9/9/21	0.928	10/21/21	0.928	1.18	11/16/21	1.18	12/15/21	1.76
	Chloroform (ug/L)	70		2200	1930		777		733		1590	723		996		516	540		568	1160											
	Chloride (mg/L)	58.31		57.4	71.3		63.9		57.5		69.6	54.9		NA		59.3	55.2		56.9	75.9											
	TDS (mg/L)	3284.19		3100	2700		3060		2790		NA	NA		3390		3010	3010		3150	3130											
	Carbon Tetrachloride	5		26.1	NA		NA		<1.00		<1.00	<1.00		<1.00		<1.00	<1.00		<1.00	<1.00											
	Methylene Chloride (ug/L)	5		7.65	3.43		1.27		<1.00		<1.00	1.90		<1.00		1.25	<1.00		<1.00	<1.00											
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/11/21	17.7	14.3	2/10/21	17.0	3/9/21	17.0	04/14/21	17.7	18.6	5/11/21	17.0	6/8/21	20.6	16.5	7/29/21	20.6	15.4	8/9/21	16.5	9/8/21	15.4	10/19/21	14.3	18.0	11/17/21	18.0	12/14/21	18.6
	Chloride (mg/L)	128		184	189		162		188		170	188		161		183	182		182	184											
	Selenium (ug/L)	53.6		55.6	55.3		56.3		55.7		58.3	54.1		56.3		60.4	54.6		53.6	58.8											
	TDS (mg/L)	1918		1660	NA		NA		1580		NA	NA		2010		1790	1790		1710	1610											
	Uranium (ug/L)	9.82		9.86	11.6		10.2		10.3		10.7	9.84		9.60		9.38	9.74		9.76	10.1											
	Nitrate + Nitrite (as N) (mg/L)	5		17.1	14.3		17.4		18.6		18.9	20.6		18.7		15.7	16.0		18.1	19.3		17.9									
MW-31 (Class III)	Sulfate (mg/L)	993	1/12/21	1070	1130	2/9/21	1210	3/8/21	1210	04/13/21	1170	1200	5/10/21	1170	6/7/21	1210	1130	7/27/21	1210	1130	8/9/21	1130	9/7/21	1130	10/19/21	1220	1180	11/15/21	1180	12/13/21	1220
	TDS (mg/L)	2132		2460	2960		2400		2300		2610	2400		3100		2600	2600		2600	2420											
	Uranium (ug/L)	15		19.7	22.2		20.2		20.1		21.7	20.8		20.0		19.3	20.2		20.9	21.8											
	Chloride (mg/L)	143		354	380		388		377		384	374		391		365	371		366	376											
	Nitrate + Nitrite (as N) (mg/L)	5.6		5.16	NS		NA		NS		NA	4/15/21		6.57		NS	NA		NS	NA		7/22/21		6.32		NS	NA		NS		NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/14/21	2.75	NA	NS	NA	NS	NA	4/29/21	2.78	NA	NS	NA	7/29/21	2.71	NA	NS	NA	NS	NA	11/10/21	2.66	NA	NS	NA	NS	NA	NA		
	Cadmium (ug/L)	6.43		8.79	NA		8.08		NA		9.26	NA		9.30		NA	9.30		NA		9.30										
	Fluoride (mg/L)	0.47		0.916	NA		0.925		NA		1.4	NA		0.988		NA	0.988		NA		0.988										
	Nickel (mg/L)	50		70.4	NA		72.4		NA		76.7	NA		76.7		NA	76.7		NA		76.7										
	Manganese (ug/L)	7507		7460	NA		7540		NA		7890	NA		7890		NA	7890		NA		7890										
Thallium (ug/L)	2.01	2.74	NA	3.02	NA	2.91	NA	2.91	NA	2.91	NA	2.91																			
Gross Alpha (pCi/L)	7.5	2.94	NA	3.18	NA	1.92	NA	1.92	NA	1.92	NA	1.92																			
Sulfate (mg/L)	2903	2980	NA	2960	NA	3050	NA	3050	NA	3050	NA	3050																			
TDS (mg/L)	4450	4260	NA	4460	NA	4940	NA	4940	NA	4940	NA	4940																			
Field pH (S.U.)	5.03 - 8.5	5.08	NA	5.00	NA	5.85	NA	5.85	NA	5.85	NA	5.85																			
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/14/21	5.16	NS	NA	NS	NA	4/15/21	6.57	NS	NA	NS	NA	7/22/21	6.32	NS	NA	NS	NA	10/26/21	3.88	NS	NA	NS	NA					
MW-28 (Class III)	Chloride (mg/L)	105	1/15/21	128	NA	NS	NA	NS	NA	4/15/21	144	NA	NS	NA	7/23/21	152	NA	NS	NA	NS	NA	10/26/21	147	NA	NS	NA	NS	NA	NA		
	Selenium (ug/L)	11.1		14.0	NA		13.4		NA		18.5	NA		11.2		NA	11.2		NA		11.2										
	Nitrate + Nitrite (as N) (mg/L)	5		3.44	NA		4.09		NA		6.09	NA		1.89		NA	1.89		NA		1.89										
	Uranium (ug/L)	4.9		10.3	NA		8.52		NA		13.80	NA		6.03		NA	6.03		NA		6.03										
MW-29 (Class III)	Uranium (ug/L)	15	1/15/21	16.9	NS	NA	NS	NA	4/14/21	16.2	NS	NA	NS	NA	7/22/21	15.8	NS	NA	NS	NA	10/27/21	14.9	NS	NA	NS	NA					
MW-32 (Class III)	Chloride (mg/L)	35.39	1/14/21	36.9	NS	NA	NS	NA	4/13/21	31.8	NS	NA	NS	NA	7/28/21	36.5	NS	NA	NS	NA	11/2/21	36.1	NS	NA	NS	NA					

Notes:
 NS= Not Required and Not Sampled
 NA= Not Applicable
 Exceedances are shown in yellow
 These GWCLs were reset with the issuance of the March 8, 2021 GWDP. The new GWCLs became effective on March 8, 2021 and the first exceedance under the revised GWDP was noted in the March monthly data.

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					
			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
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
	Chloride (mg/L)	39.16		51.1		57.2		67.7
	Manganese (ug/L)	237		156		233		224
	Sulfate (mg/L)	1309		1020		1240		1170
	TDS (mg/L)	2528		2050		1900		2080
MW-25 (Class III)	TDS (mg/L)	2976	1/17/22	2720	2/9/2022	2690	3/7/2022	2610
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/20/22	0.601		0.367	3/8/22	0.600
	Chloroform (ug/L)	70		818		1580		1460
	Chloride (mg/L)	58.31		77.1		58.6		64.1
	TDS (mg/L)	3284.19		3080		2980		2870
	Carbon Tetrachloride	S		<1.00		NA		NA
	Methylene Chloride (ug/L)	5		<1.00		NA		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
	Chloride (mg/L)	128		181		184		196
	Selenium (ug/L)	53.6		56.7		57.7		62.0
	TDS (mg/L)	1918		1680		1640		1500
	Uranium (ug/L)	9.82		10.1		10.3		9.9
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
	Sulfate (mg/L)	993		1210		1250		731
	TDS (mg/L)	2132		2620		2680		2530
	Uranium (ug/L)	15		21.7		22.1		22.5
	Chloride (mg/L)	143		370		379		416
Required Semiannual Sampling Wells								
MW-12 (Class III)	Uranium (ug/L)	23.5	1/20/22	22.1	NS	NA	NS	NA
	Selenium (ug/L)	39		25.6		NA		NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/27/22	2.71	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		8.46		NA		NA
	Fluoride (mg/L)	0.47		1		NA		NA
	Nickel (mg/L)	50		80.9		NA		NA
	Manganese (ug/L)	7507		7630		NA		NA
	Thallium (ug/L)	2.01		2.66		NA		NA
	Gross Alpha (pCi/L)	7.5		2.26		NA		NA
	Sulfate (mg/L)	2903		3060		NA		NA
	TDS (mg/L)	4450		4140		NA		NA
	Field pH (S.U.)	5.03 - 8.5		5.31		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/18/22	6.25	NS	NA	NS	NA
MW-28 (Class III)	Chloride (mg/L)	105	1/20/22	140	NS	NA	NS	NA
	Selenium (ug/L)	11.1		13.3		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		4.03		NA		NA
	Uranium (ug/L)	4.9		8.50		NA		NA
MW-29 (Class III)	Uranium (ug/L)	15		15.1	NS	NA	NS	NA
MW-32 (Class III)	Chloride (mg/L)	35.39		35.0	NS	NA	NS	NA

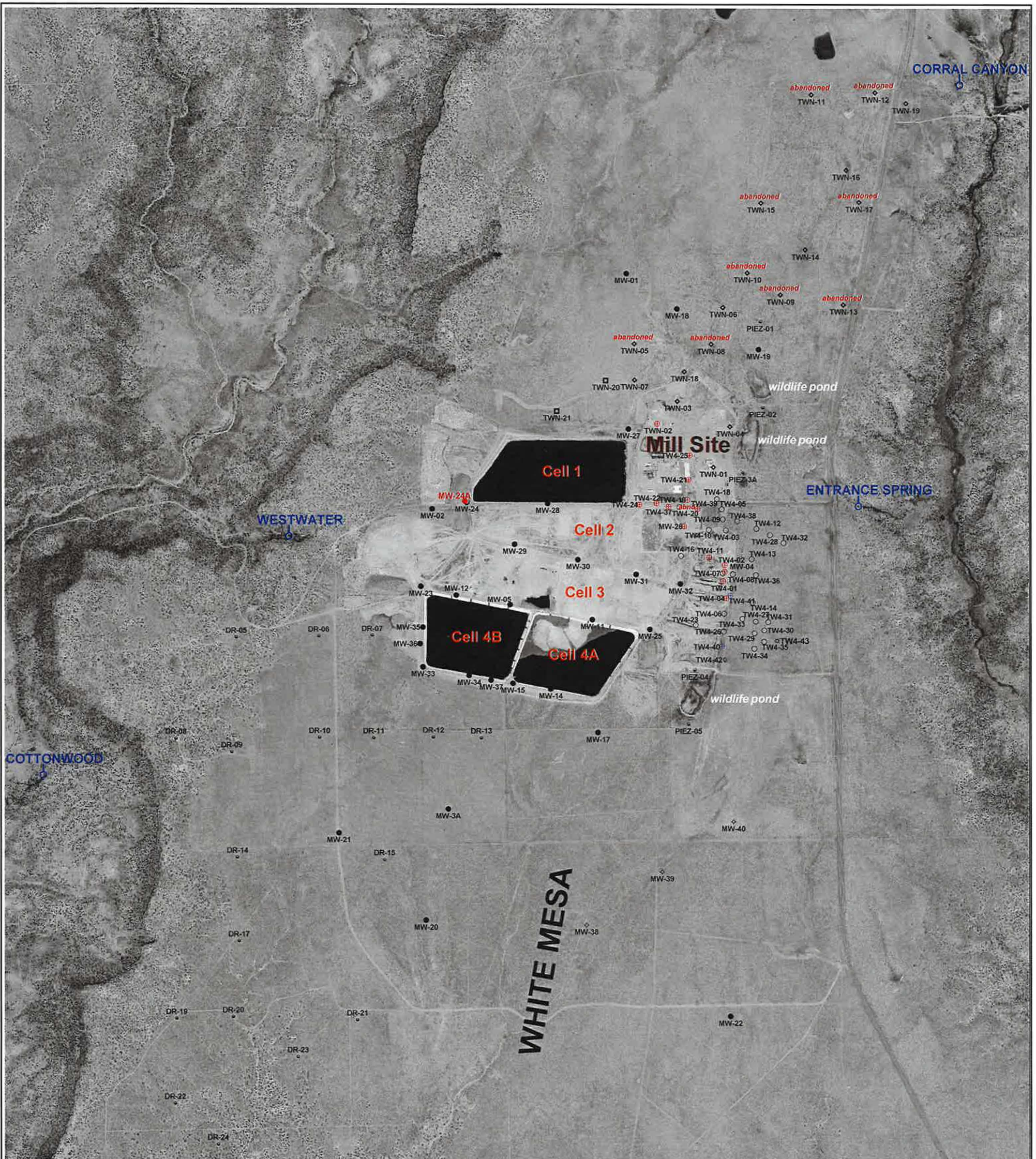
Pursuant to the DWMRC letter of February 2, 2022, these constituents will no longer be monitored on an accelerated schedule. These constituents will be dropped from this report after this quarter.

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Tab A

Site Plan and Perched Well Locations White Mesa Site



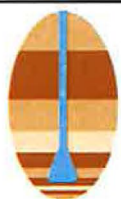
EXPLANATION

- 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



1 mile



**HYDRO
 GEO
 CHEM, INC.**

**WHITE MESA SITE PLAN SHOWING LOCATIONS OF
 PERCHED WELLS AND PIEZOMETERS**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov21/Uwelloc1221.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_01182022
Purge Date & Time	1/18/2022 7:10
Sample Date & Time	1/18/2022 10:45

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
---------	-------

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.31
Calculated Casing Volumes Purge Duration (min)	270.22
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-36

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.10

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/18/2022 10:42	59.02	2921	7.80	14.23	383	0	1.0	
1/18/2022 10:43	59.24	2920	7.82	14.28	382	0	1.0	
1/18/2022 10:44	59.45	2924	7.86	14.30	378	0	1.0	
1/18/2022 10:45	59.67	2929	7.90	14.28	376	0	1.0	

Volume of water purged (gals)	59.67
-------------------------------	-------

Final Depth to Water (feet)	87.12
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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)	275.00
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 0706. Purge began at 0710. Purged well for a total of 275 minutes. Purge ended and samples collected at 1045. Water was clear. Left site at 1055.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-12
Field Sample ID	MW-12_01202022
Purge Date & Time	1/20/2022 7:05
Sample Date & Time	1/20/2022 9:15

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
---------	-------

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	13.58
Calculated Casing Volumes Purge Duration (min)	125.18
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-32

Well Depth (ft)	130.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.60

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/20/2022 9:12	27.55	4223	6.62	13.65	292	1.6	13.2	
1/20/2022 9:13	27.77	4221	6.61	13.60	292	1.5	13.1	
1/20/2022 9:14	27.99	4225	6.60	13.62	293	1.6	13.0	
1/20/2022 9:15	28.21	4227	6.59	13.62	296	1.7	13.1	

Volume of water purged (gals)	28.21
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Final Depth to Water (feet)	121.65
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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)	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 0700. Purge began at 0705. Purged well for a total of 130 minutes. Purge ended and sample collected at 0915. Water was mostly clear. Left site at 0918.

Signature of Field Technician

Darrel Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_01182022
Purge Date & Time	1/18/2022 7:25
Sample Date & Time	1/18/2022 10:15

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
---------	-------

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.74
Calculated Casing Volumes Purge Duration (min)	163.52
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-11

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	101.53

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/18/2022 10:12	36.23	3867	6.97	14.34	405	0	1.0	
1/18/2022 10:13	36.45	3860	7.02	14.33	404	0	1.0	
1/18/2022 10:14	36.67	3873	7.05	14.23	405	0	1.0	
1/18/2022 10:15	36.89	3869	7.07	14.20	404	0	1.0	

Volume of water purged (gals)	36.89
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Final Depth to Water (feet)	102.20
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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)	170.00
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 0720. Purge began at 0725. Purged well for a total of 170 minutes. Purge ended and samples collected at 1015. Water was clear. Left site at 1025.

Signature of Field Technician

Junna Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_01272022
Purge Date & Time	1/26/2022 13:35
Sample Date & Time	1/27/2022 9:00

Sampling Program	
Sampling Event	2022 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	7
Previous Well Sampled	MW-38

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	6.72
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.70

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/26/2022 13:40	5.00	4406	5.42	14.19	319	93.0	96.0	
1/27/2022 9:00		4398	5.32	14.75				Before
1/27/2022 9:02		4417	5.31	14.71				After

Volume of water purged (gals)	14.00
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Final Depth to Water (feet)	120.00
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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 1330. Bailing began at 1335. Bailed a total of 14 gallons from well. Water was murky. Bailing ended at 1358. Bailed well dry. Left site at 1400. Arrived on site at 0855. Depth to water was 109.77. Samples bailed and collected at 0900. Left site at 0905.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24A
Field Sample ID	MW-24A_01262022
Purge Date & Time	1/25/2022 7:50
Sample Date & Time	1/26/2022 10:00

Sampling Program	
Sampling Event	2022 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-40

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.37
Calculated Casing Volumes Purge Duration (min)	70.95
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	122.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.70

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/25/2022 9:05	15.50	4353	5.00	15.13	330	30.0	90.0	
1/26/2022 9:44		4375	5.28	15.21	317	4.8	95.0	After
1/26/2022 9:59		4382	5.30	15.20	306	4.7	96.0	Before

Volume of water purged (gals)	15.60
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Final Depth to Water (feet)	118.58
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.208
Time to evacuate 2 Casing Volumes (min)	75.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (gals)	15.60

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 0745. Purge began at 0750. Purged well for a total of 75 minutes. Purged well dry. Purge ended at 0905. Water was a little murky. Left site at 0908. Arrived on site at 0956. Depth to water was 110.82. Samples collected at 1000. Left site at 1011.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_01172022
Purge Date & Time	1/17/2022 10:00
Sample Date & Time	1/17/2022 11:25

Sampling Program	
Sampling Event	2022 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	-1
Previous Well Sampled	MW-30

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.84
Calculated Casing Volumes Purge Duration (min)	201.31
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/17/2022 11:22	51.42	3173	7.26	14.47	392	12.0	4.1	
1/17/2022 11:23	51.64	3173	7.30	14.42	392	12.1	4.0	
1/17/2022 11:24	51.86	3170	7.32	14.46	390	12.2	3.9	
1/17/2022 11:25	52.08	3180	7.33	14.49	390	12.3	3.9	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	83.53
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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)	240.00
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 0720. Purge began at 0725. Purged well for a total of 240 minutes. Purge ended and samples collected at 1125. Water was clear. Left site at 1136.

Signature of Field Technician

Jurren Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_01202022
Purge Date & Time	1/20/2022 7:59
Sample Date & Time	1/20/2022 8:00

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	29.37
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-28

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.34

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/20/2022 7:59		3572	6.51	14.56	321	1.2	26.0	

Volume of water purged ()	
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Final Depth to Water (feet)	93.58
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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 0756. Samples collected at 0800. Water was clear. Left site at 0804.

Signature of Field Technician

Junner Hillis



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-27
Field Sample ID	MW-27_01182022
Purge Date & Time	1/18/2022 10:35
Sample Date & Time	1/18/2022 14:25

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.12
Calculated Casing Volumes Purge Duration (min)	222.38
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	3
Previous Well Sampled	MW-14

Well Depth (ft)	95.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	58.05

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/18/2022 14:22	49.25	1187	7.85	14.70	268	0	94.0	
1/18/2022 14:23	49.47	1185	7.88	14.78	268	0	93.8	
1/18/2022 14:24	49.69	1184	7.89	14.82	268	0	93.6	
1/18/2022 14:25	49.91	1186	7.88	14.82	269	0	93.7	

Volume of water purged (gals)	49.91
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Final Depth to Water (feet)	59.56
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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 ()	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

Comments:

Arrived on site at 1031. Purge began at 1035. Purged well for a total of 230 minutes. Purge ended and samples collected at 1425. Water was clear. Left site at 1429.

Signature of Field Technician

James Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-28
Field Sample ID	MW-28_01202022
Purge Date & Time	1/20/2022 7:20
Sample Date & Time	1/20/2022 11:00

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.09
Calculated Casing Volumes Purge Duration (min)	212.87
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-12

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.63

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/20/2022 10:57	47.08	4062	6.51	13.16	261	1.1	29.2	
1/20/2022 10:58	47.30	4070	6.54	13.20	260	1.1	28.0	
1/20/2022 10:59	47.52	4075	6.55	13.23	260	1.1	27.5	
1/20/2022 11:00	47.74	4072	6.55	13.22	259	1.1	27.0	

Volume of water purged (gals)	47.74
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Final Depth to Water (feet)	77.20
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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)	220.00
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 0715. Purge began at 0720. Purged well for a total of 220 minutes. Purge ended and samples collected at 1100. Water was clear. Left site at 1107.

Signature of Field Technician

Jarrod Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-29
Field Sample ID	MW-29_01182022
Purge Date & Time	1/18/2022 11:00
Sample Date & Time	1/18/2022 14:00

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	18.34
Calculated Casing Volumes Purge Duration (min)	169.11
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	4
Previous Well Sampled	MW-27

Well Depth (ft)	135.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	106.90

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/18/2022 13:57	38.40	4586	6.89	14.50	310	0	7.0	
1/18/2022 13:58	38.62	4587	6.90	14.46	307	0	7.0	
1/18/2022 13:59	38.84	4588	6.94	14.40	305	0	7.0	
1/18/2022 14:00	39.06	4588	6.96	14.42	303	0	7.1	

Volume of water purged (gals)	39.06
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Final Depth to Water (feet)	109.40
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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 1057. Purge began at 1100. Purged well for a total of 180 minutes. Purge ended and samples collected at 1400. Water was clear. Left site at 1404.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_01172022
Purge Date & Time	1/17/2022 7:05
Sample Date & Time	1/17/2022 10:35

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.75
Calculated Casing Volumes Purge Duration (min)	209.74
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	-1
Previous Well Sampled	N/A

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.15

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/17/2022 10:32	44.91	2181	7.65	15.65	395	0	52.0	
1/17/2022 10:33	45.13	2123	7.66	15.48	394	0	52.4	
1/17/2022 10:34	45.35	2143	7.64	15.47	393	0	51.8	
1/17/2022 10:35	45.57	2174	7.62	15.50	393	0	53.1	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.13
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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 1047.

Signature of Field Technician

Jarrett Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_01192022
Purge Date & Time	1/19/2022 6:40
Sample Date & Time	1/19/2022 12:50

Sampling Program	
Sampling Event	2022 Q1 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-29

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.63
Calculated Casing Volumes Purge Duration (min)	365.31
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/19/2022 12:47	79.63	3396	7.37	14.63	277	0	110.0	
1/19/2022 12:48	79.85	3396	7.40	14.55	276	0	110.0	
1/19/2022 12:49	80.07	3394	7.44	14.50	275	0	110.3	
1/19/2022 12:50	80.29	3397	7.51	14.51	273	0	110.4	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	71.02
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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?
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 370 minutes. Purge ended and samples collected at 1250. Water was clear. Left site at 1306.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_01192022
Purge Date & Time	1/19/2022 7:00
Sample Date & Time	1/19/2022 12:00

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	31.55
Calculated Casing Volumes Purge Duration (min)	290.81
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-31

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.28

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/19/2022 11:57	64.44	3722	6.67	14.40	285	2.1	21.0	
1/19/2022 11:58	64.66	3727	6.78	14.40	281	3.0	21.6	
1/19/2022 11:59	64.88	3732	6.82	14.37	279	3.1	21.5	
1/19/2022 12:00	65.10	3733	6.84	14.40	277	3.1	21.5	

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 0655. Purge began at 0700. Purged well for a total of 300 minutes. Purge ended and samples collected at 1200. Water was clear. Left site at 1204.

Signature of Field Technician

Danner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_01172022
Purge Date & Time	1/17/2022 12:15
Sample Date & Time	1/17/2022 13:25

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.34
Calculated Casing Volumes Purge Duration (min)	67.70
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	6
Previous Well Sampled	MW-25

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.35

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/17/2022 13:22	14.53	4986	7.43	14.03	388	0	70.5	
1/17/2022 13:23	14.75	4896	7.46	14.00	388	0	70.6	
1/17/2022 13:24	14.97	4895	7.49	13.99	388	0	70.3	
1/17/2022 13:25	15.19	4901	7.52	14.00	388	0	70.5	

Volume of water purged (gals)	15.19
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Final Depth to Water (feet)	110.95
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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 ()	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 1210. Purge began at 1215. Purged well for a total of 70 minutes. Purge ended and samples collected at 1325. Water was clear. Left site at 1335.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-38
Field Sample ID	MW-38_01272022
Purge Date & Time	1/26/2022 11:47
Sample Date & Time	1/27/2022 9:30

Sampling Program	
Sampling Event	2022 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	4
Previous Well Sampled	MW-39

Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	2.67
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	74.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/26/2022 11:57	5.00	4282	6.50	14.77	272	35.0	63.0	
1/27/2022 9:30		4377	6.28	14.35				Before
1/27/2022 9:33		4391	6.31	14.30				After

Volume of water purged (gals)	5.00
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Final Depth to Water (feet)	74.35
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.86
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 1145. Bailing began at 1148. Bailed a total of 5 gallons from well. Bailed well dry. Water started clear and ended murky. Left site at 1207. Arrived on site at 0925. Depth to water was 70.27. Samples bailed and collected at 0930. Left site at 0935.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-39
Field Sample ID	MW-39_01262022
Purge Date & Time	1/26/2022 8:20
Sample Date & Time	1/26/2022 12:20

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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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

Weather Conditions	Sunny
External Ambient Temperature (C)	-4
Previous Well Sampled	MW-24A

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
1/26/2022 12:17	51.42	4726	4.63	14.06	488	4.0	0	
1/26/2022 12:18	51.64	4726	4.60	13.07	499	4.0	0	
1/26/2022 12:19	51.86	4725	4.50	14.13	515	3.0	0	
1/26/2022 12:20	52.08	4727	4.48	14.15	520	2.9	0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	68.00
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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)	240.00
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 0815. Purge began at 0820. Purged well for a total of 240 minutes. Purge ended and samples collected at 1220. Water was clear. Left site at 1230.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-40
Field Sample ID	MW-40_01252022
Purge Date & Time	1/25/2022 7:20
Sample Date & Time	1/25/2022 11:30

Sampling Program	
Sampling Event	2022 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.42
Calculated Casing Volumes Purge Duration (min)	243.56
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-26

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	79.53

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/25/2022 11:27	53.59	3896	6.53	13.75	301	3.1	104.4	
1/25/2022 11:28	53.81	3822	6.54	13.80	312	3.0	104.0	
1/25/2022 11:29	54.03	3874	6.56	13.80	317	2.9	103.0	
1/25/2022 11:30	54.25	3870	6.58	13.83	320	2.9	102.8	

Volume of water purged (gals)	54.25
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Final Depth to Water (feet)	80.45
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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)	250.00
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 0715. Purge began at 0720. Purged well for a total of 250 minutes. Purge ended and samples collected at 1130. Water was clear. Left site at 1140.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_01192022
Purge Date & Time	
Sample Date & Time	1/19/2022 12:50

Sampling Program	
Sampling Event	2022 Q1 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-31

Signature of Field Technician

Janner Holliday

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

February 2022



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_02082022
Purge Date & Time	2/8/2022 7:30
Sample Date & Time	2/8/2022 12:00

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.14
Calculated Casing Volumes Purge Duration (min)	268.66
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	-2
Previous Well Sampled	MW-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.36

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/8/2022 11:57	57.93	3045	7.15	14.25	220	1.5	1.6	
2/8/2022 11:58	58.15	3055	7.10	14.25	225	1.4	2.0	
2/8/2022 11:59	58.37	3067	7.08	14.21	228	1.4	2.0	
2/8/2022 12:00	58.59	3066	7.05	14.20	230	1.4	1.9	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	86.88
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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)	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

Comments:
Arrived on site at 0725. Purge began at 0730. Purged well for a total of 270 minutes. Purge ended and samples collected at 1200. Water was clear. Left site at 1209.

Signature of Field Technician

Jurren Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_02092022
Purge Date & Time	2/9/2022 7:25
Sample Date & Time	2/9/2022 10:40

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.77
Calculated Casing Volumes Purge Duration (min)	200.65
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	1
Previous Well Sampled	MW-30

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.66

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/9/2022 11:02	47.08	3173	6.83	14.47	238	1.0	0	
2/9/2022 11:03	47.30	3181	6.80	14.36	242	1.0	0	
2/9/2022 11:04	47.52	3181	6.78	14.35	244	1.0	0	
2/9/2022 11:05	47.74	3183	6.77	14.31	246	1.1	0	

Volume of water purged (gals)	47.74
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Final Depth to Water (feet)	83.61
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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)	220.00
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 0720. Purge began at 0725. Purged well for a total of 220 minutes. Purge ended and samples collected at 1105. Water was clear. Left site at 1108.

Signature of Field Technician

James Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_02092022
Purge Date & Time	2/9/2022 11:58
Sample Date & Time	2/9/2022 12:30

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	26.83
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)	10
Previous Well Sampled	MW-25

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.23

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/9/2022 12:29		3381	7.06	15.66	261	1.2	51.0	

Volume of water purged ()	
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Final Depth to Water (feet)	100.67
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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 1225. Samples collected at 1230. Water was clear. Left site at 1235.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_02092022
Purge Date & Time	2/9/2022 7:10
Sample Date & Time	2/9/2022 10:40

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
---------	-------

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.67
Calculated Casing Volumes Purge Duration (min)	209.02
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	1
Previous Well Sampled	MW-11

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.27

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/9/2022 10:37	44.91	2235	7.37	14.33	222	3.0	52.8	
2/9/2022 10:38	45.13	2240	7.25	14.30	236	2.7	52.5	
2/9/2022 10:39	45.35	2242	7.23	14.28	248	2.8	52.5	
2/9/2022 10:40	45.57	2243	7.20	14.29	257	2.7	52.6	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.86
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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 0705. Purge began at 0710. Purged well for a total of 210 minutes. Purge ended and samples collected at 1040. Water was clear. Left site at 1050.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_02082022
Purge Date & Time	2/8/2022 7:10
Sample Date & Time	2/8/2022 13:20

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.47
Calculated Casing Volumes Purge Duration (min)	363.81
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	-2
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/8/2022 13:17	79.63	3377	7.16	14.70	242	1.7	109.0	
2/8/2022 13:18	79.85	3382	7.12	14.67	252	1.8	109.9	
2/8/2022 13:19	80.07	3386	7.10	14.67	265	1.6	109.8	
2/8/2022 13:20	80.29	3387	7.09	14.65	271	1.5	109.5	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	73.21
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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 0706. Purge began at 0710. Purged well for a total of 370 minutes. Purge ended and samples collected at 1320. Water was clear. Left site at 1328.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_02092022
Purge Date & Time	
Sample Date & Time	2/9/2022 10:40

Sampling Program	
Sampling Event	February 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

Janner Holliday

Tab C2

Field Data Worksheets Accelerated Monitoring

March 2022



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_03082022
Purge Date & Time	3/8/2022 6:40
Sample Date & Time	3/8/2022 11:10

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.26
Calculated Casing Volumes Purge Duration (min)	269.74
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-7
Previous Well Sampled	MW-25

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.18

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/8/2022 11:07	57.93	3020	7.45	13.90	271	0	2.7	
3/8/2022 11:08	58.15	3015	7.45	14.03	272	0	2.8	
3/8/2022 11:09	58.37	3045	7.45	14.03	273	0	2.8	
3/8/2022 11:10	58.59	3042	7.44	14.08	274	0	2.8	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	86.89
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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

Comments:

Arrived on site at 0635. Purge began at 0640. Purged well for a total of 270 minutes. Purge ended and samples collected at 1110. Water was clear. Left site at 1118.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_03072022
Purge Date & Time	3/7/2022 11:00
Sample Date & Time	3/7/2022 14:30

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.79
Calculated Casing Volumes Purge Duration (min)	200.83
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	4
Previous Well Sampled	MW-31

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.63

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/7/2022 14:27	44.91	3196	6.95	13.90	350	1.2	7.0	
3/7/2022 14:28	44.13	3187	6.90	14.00	355	1.2	6.0	
3/7/2022 14:29	45.35	3186	6.88	14.01	358	1.1	6.0	
3/7/2022 14:30	45.57	3188	6.86	14.02	361	1.1	5.8	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	83.24
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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 1057. Purge began 1100. Purged well for a total of 210 minutes. Purge ended and samples collected at 1430. Water was clear. Left site at 1435.

Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_03082022
Purge Date & Time	3/8/2022 8:29
Sample Date & Time	3/8/2022 8:30

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.86
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-4
Previous Well Sampled	MW-11

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	77.13

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/8/2022 8:30		3483	6.77	14.44	280	4.0	29.5	

Volume of water purged ()	
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Final Depth to Water (feet)	98.23
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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 0825. Samples collected at 0830. Water was clear. Left site at 0836.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_03072022
Purge Date & Time	3/7/2022 7:00
Sample Date & Time	3/7/2022 10:30

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.78
Calculated Casing Volumes Purge Duration (min)	209.98
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	0
Previous Well Sampled	N/A

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.11

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/7/2022 10:27	44.91	2236	7.10	14.19	329	3.8	50.0	
3/7/2022 10:28	45.13	2241	7.11	14.15	329	3.5	50.3	
3/7/2022 10:29	45.35	2234	7.11	14.13	326	3.4	52.0	
3/7/2022 10:30	45.57	2230	7.12	14.15	326	3.3	53.5	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.80
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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?
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 0657. Purge began at 0700. Purged well for a total of 210 minutes. Purge ended and samples collected at 1030. Water was clear. Left site at 1038.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_03072022
Purge Date & Time	3/7/2022 7:35
Sample Date & Time	3/7/2022 13:45

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.57
Calculated Casing Volumes Purge Duration (min)	364.71
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	0
Previous Well Sampled	MW-30

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.40

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/7/2022 13:42	79.63	3401	7.03	13.90	337	5.0	108.0	
3/7/2022 13:43	79.85	3401	7.04	13.91	345	4.8	109.0	
3/7/2022 13:44	80.07	3401	7.05	13.95	352	4.5	109.6	
3/7/2022 13:45	80.29	3406	7.05	14.00	357	4.4	109.8	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	72.47
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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 0730. Purge began at 0735. Purged well for a total of 370 minutes. Purge ended and samples collected at 1345. Water was clear. Left site at 1351.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_03082022
Purge Date & Time	
Sample Date & Time	3/8/2022 11:10

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
---------	-------

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
-----------	----------------	--------------	----	------	-------	-----------	------------------	--------------

Volume of water purged ()	
---------------------------	--

Final Depth to Water (feet)	
-----------------------------	--

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
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

Comments:	
Duplicate of MW-11	

Signature of Field Technician

Janner Holliday

Tab D

Quarterly Depth to Water

Name: Tanner Holliday, Deen Lyman

Date: 2/10/2022

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)
2/10/2022	910	MW-01	64.91	2/10/2022	1253	MW-04	82.63	2/10/2022	852	PIEZ-01	67.33
2/10/2022	816	MW-02	109.56	2/10/2022	1250	TW4-01	105.14	2/10/2022	846	PIEZ-02	46.47
2/10/2022	1025	MW-03A	83.98	2/10/2022	1302	TW4-02	111.20	2/10/2022	843	PIEZ-03A	54.31
2/10/2022	835	MW-05	108.15	2/10/2022	1423	TW4-03	65.08	2/10/2022	943	PIEZ-04	68.03
2/10/2022	843	MW-11	85.34	2/10/2022	1245	TW4-04	74.03	2/10/2022	948	PIEZ-05	66.63
2/10/2022	830	MW-12	109.57	2/10/2022	1417	TW4-05	72.47	2/10/2022	1444	TWN-01	69.71
2/10/2022	923	MW-14	101.73	2/10/2022	1243	TW4-06	79.55	2/10/2022	1429	TWN-02	58.60
2/10/2022	926	MW-15	105.32	2/10/2022	1256	TW4-07	83.13	2/10/2022	834	TWN-03	43.49
2/10/2022	1018	MW-17	72.22	2/10/2022	1259	TW4-08	85.64	2/10/2022	840	TWN-04	62.62
2/10/2022	906	MW-18	73.89	2/10/2022	1415	TW4-09	70.47	2/10/2022	903	TWN-06	80.74
2/10/2022	849	MW-19	66.27	2/10/2022	1411	TW4-10	69.83	2/10/2022	913	TWN-07	80.36
2/10/2022	1332	MW-20	86.65	2/10/2022	1306	TW4-11	90.11	2/10/2022	855	TWN-14	59.25
2/10/2022	1315	MW-22	66.53	2/10/2022	1350	TW4-12	56.33	2/10/2022	858	TWN-16	47.76
2/10/2022	825	MW-23	113.91	2/10/2022	1348	TW4-13	57.25	2/10/2022	837	TWN-18	62.65
2/10/2022	1207	MW-24A	110.83	2/10/2022	1342	TW4-14	77.34	2/10/2022	1429	TWN-19	54.10
2/10/2022	1204	MW-24	109.82	2/10/2022	1309	TW4-16	73.97	2/10/2022	914	TWN-20	77.94
2/10/2022	850	MW-25	81.68	2/10/2022	1440	TW4-18	73.53	2/10/2022	918	TWN-21	79.13
2/10/2022	1231	MW-26	76.41	2/10/2022	1452	TW4-19	71.27	2/10/2022	1418	DR-05	83.11
2/10/2022	1214	MW-27	58.30	2/10/2022	1437	TW4-21	71.74	2/10/2022	1415	DR-06	94.02
2/10/2022	1155	MW-28	74.55	2/10/2022	1221	TW4-22	69.65	2/10/2022	743	DR-07	91.82
2/10/2022	811	MW-29	107.07	2/10/2022	1234	TW4-23	76.20	2/10/2022	1410	DR-08	51.32
2/10/2022	806	MW-30	75.32	2/10/2022	1218	TW4-24	71.39	2/10/2022	1407	DR-09	86.50
2/10/2022	912	MW-31	69.43	2/10/2022	1434	TW4-25	66.84	2/10/2022	1404	DR-10	78.45
2/10/2022	916	MW-32	82.58	2/10/2022	1237	TW4-26	74.42	2/10/2022	1047	DR-11	97.95
2/10/2022	750	MW-33	DRY	2/10/2022	1320	TW4-27	79.15	2/10/2022	1039	DR-12	DRY
2/10/2022	933	MW-34	107.30	2/10/2022	1353	TW4-28	49.76	2/10/2022	1033	DR-13	69.65
2/10/2022	802	MW-35	112.25	2/10/2022	1339	TW4-29	78.76	2/10/2022	1400	DR-14	76.14
2/10/2022	758	MW-36	110.48	2/10/2022	1326	TW4-30	75.18	2/10/2022	1327	DR-15	92.81
2/10/2022	930	MW-37	106.12	2/10/2022	1323	TW4-31	76.22	2/10/2022	1356	DR-17	64.65
2/10/2022	1319	MW-38	70.22	2/10/2022	1356	TW4-32	56.61	2/10/2022	1346	DR-19	63.23
2/10/2022	1322	MW-39	64.60	2/10/2022	1316	TW4-33	78.55	2/10/2022	1343	DR-20	55.65
2/10/2022	1009	MW-40	79.85	2/10/2022	1336	TW4-34	77.08	2/10/2022	1336	DR-21	100.58
				2/10/2022	1329	TW4-35	75.57	2/10/2022	1353	DR-22	DRY
				2/10/2022	1344	TW4-36	58.50	2/10/2022	1339	DR-23	70.40
				2/10/2022	1225	TW4-37	69.12	2/10/2022	1350	DR-24	44.50
				2/10/2022	1420	TW4-38	60.50				
				2/10/2022	1228	TW4-39	70.51				
				2/10/2022	1240	TW4-40	72.11				
				2/10/2022	1247	TW4-41	90.01				
				2/10/2022	1312	TW4-42	70.25				
				2/10/2022	1333	TW4-43	73.41				

MW-26 = TW4-15

MW-32 = TW4-17

Comments:

Tab E

Laboratory Analytical Reports – Quarterly Sampling



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-006
Client Sample ID: MW-11_01182022
Collection Date: 1/18/2022 1045h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 845h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1924h	E200.7	10.0	109	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 845h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 845h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1924h	E200.7	1.00	34.8	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	0.156	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1013h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2008h	E200.7	1.00	9.30	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.00500	0.00929	
Silver	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1924h	E200.7	10.0	513	
Thallium	mg/L	1/24/2022 730h	1/25/2022 845h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/25/2022 845h	E200.8	0.000300	0.00178	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2008h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2248h	E200.8	0.0100	< 0.0100	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-006
Client Sample ID: MW-11_01182022
Collection Date: 1/18/2022 1045h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1320h	E350.1	0.0500	0.458	
Chloride	mg/L		1/21/2022 1821h	E300.0	10.0	51.1	
Fluoride	mg/L		1/22/2022 007h	E300.0	0.200	0.368	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	4.58	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1910h	E353.2	0.100	2.55	
Sulfate	mg/L		1/21/2022 1821h	E300.0	50.0	1,020	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		28.1	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		30.8	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.08	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		1,900	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West

Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-006E
Client Sample ID: MW-11_01182022
Collection Date: 1/18/2022 1045h
Received Date: 1/21/2022 1340h

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 845h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West

Salt Lake City, UT 84119

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Fax: (801) 263-8687

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web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	1
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	1
Xylenes, Total	1330-20-7	1.00	< 1.00	1

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.1	50.00	104	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.8	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	50.6	50.00	101	78-132	
Surr: Toluene-d8		2037-26-5	52.4	50.00	105	81-123	

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-11_01182022

Matrix: Water

Lab ID: 22A1301-01

Date Sampled: 1/18/22 10:45

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO3)	272	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	2050	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01182022	Project: DNMI00100
Sample ID: 568395001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 18-JAN-22 10:45	
Receive Date: 25-JAN-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	+/-0.211	0.724	1.00	pCi/L			JXC9	02/21/22	0734	2225007	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"			93.7	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-001
Client Sample ID: MW-12_01202022
Collection Date: 1/20/2022 915h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	1/24/2022 730h	1/24/2022 2205h	E200.8	0.00500	0.0256	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2205h	E200.8	0.00200	0.0221	

3440 South 700 West

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-007
Client Sample ID: MW-14_01182022
Collection Date: 1/18/2022 1015h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 849h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.000500	0.00134	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1925h	E200.7	10.0	508	²
Chromium	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 849h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 849h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1925h	E200.7	1.00	152	²
Manganese	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	1.89	²
Mercury	mg/L	1/28/2022 939h	1/31/2022 1023h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2010h	E200.7	1.00	15.2	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1925h	E200.7	10.0	334	²
Thallium	mg/L	1/24/2022 730h	1/25/2022 849h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/25/2022 849h	E200.8	0.000500	0.0661	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2010h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2216h	E200.8	0.0100	0.0179	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-007
Client Sample ID: MW-14_01182022
Collection Date: 1/18/2022 1015h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
	Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1321h	E350.1	0.0500	0.0928	
	Chloride	mg/L		1/22/2022 031h	E300.0	1.00	18.6	
	Fluoride	mg/L		1/22/2022 031h	E300.0	0.100	0.114	
Phone: (801) 263-8686	Ion Balance	%		2/2/2022 1145h	Calc.	-100	-0.475	*
Toll Free: (888) 263-8686	Nitrate/Nitrite (as N)	mg/L		1/25/2022 1914h	E353.2	0.100	< 0.100	'@
Fax: (801) 263-8687	Sulfate	mg/L		1/21/2022 1933h	E300.0	100	2,180	
e-mail: awal@awal-labs.com	Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		53.3	*
	Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		52.8	
web: www.awal-labs.com	Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.03	*
Jennifer Osborn	Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		3,430	*

Laboratory Director

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-007A
Client Sample ID: MW-14_01182022
Collection Date: 1/18/2022 1015h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 904h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.3	50.00	107	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.3	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	50.3	50.00	101	78-132	
Surr: Toluene-d8		2037-26-5	51.9	50.00	104	81-123	



Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-14_01182022

Matrix: Water

Lab ID: 22A1301-02

Date Sampled: 1/18/22 10:15

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	370	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	3540	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01182022	Project: DNMI00100
Sample ID: 568395002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 18-JAN-22 10:15	
Receive Date: 25-JAN-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	+/-0.192	0.528	1.00	pCi/L			JXC9	02/21/22	0734 2225007	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"			76.2	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-002
Client Sample ID: MW-24_01272022
Collection Date: 1/27/2022 900h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.00200	0.00271	
Cadmium	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.000500	0.00846	
Calcium	mg/L	1/31/2022 1131h	2/7/2022 2153h	E200.7	10.0	492	
Chromium	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0100	0.136	
Copper	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0100	0.0140	
Iron	mg/L	1/31/2022 1131h	1/31/2022 2054h	E200.8	0.0300	0.0336	
Lead	mg/L	1/31/2022 1131h	1/31/2022 2054h	E200.8	0.00100	0.00224	
Magnesium	mg/L	1/31/2022 1131h	2/7/2022 2153h	E200.7	1.00	189	
Manganese	mg/L	1/31/2022 1131h	1/31/2022 2025h	E200.8	0.0100	7.63	
Mercury	mg/L	1/31/2022 1104h	2/1/2022 1057h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0200	0.0809	
Potassium	mg/L	1/31/2022 1131h	2/7/2022 2213h	E200.7	1.00	17.1	
Selenium	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.00500	0.00734	
Silver	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/31/2022 1131h	2/7/2022 2153h	E200.7	10.0	440	
Thallium	mg/L	1/31/2022 1131h	1/31/2022 2054h	E200.8	0.000500	0.00266	
Tin	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/31/2022 1131h	1/31/2022 2054h	E200.8	0.000300	0.00617	
Vanadium	mg/L	1/31/2022 1131h	2/7/2022 2213h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/31/2022 1131h	1/31/2022 1906h	E200.8	0.0100	0.146	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-002
Client Sample ID: MW-24_01272022
Collection Date: 1/27/2022 900h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	2/9/2022 1237h	2/9/2022 1530h	E350.1	0.0500	0.114	
Ion Balance	%		2/10/2022 1657h	Calc.	-100	-4.31	*
Nitrate/Nitrite (as N)	mg/L		2/9/2022 1234h	E353.2	0.100	0.282	
Total Anions, Measured	meq/L		2/10/2022 1657h	Calc.		65.0	*
Total Cations, Measured	meq/L		2/10/2022 1657h	Calc.		59.7	
Total Dissolved Solids Ratio, Measured/Calculated			2/10/2022 1657h	Calc.		0.975	*
Total Dissolved Solids, Calculated	mg/L		2/10/2022 1657h	Calc.		4,240	*

* - The results used in these calculations for Alkalinity, Bicarbonate, Chloride, Sulfate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-002A
Client Sample ID: MW-24_01272022
Collection Date: 1/27/2022 900h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1552h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.2	50.00	102	80-136	
Surr: 4-Bromo fluorobenzene		460-00-4	50.4	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.0	50.00	95.9	78-132	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.2	81-123	

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201511
Receipt: 1/28/22 13:40 @ 5.0 °C
Date Reported: 2/21/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-24_01272022

Matrix: Water

Lab ID: 22A1649-02

Date Sampled: 1/27/22 9:00

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Chloride	47.5	mg/L	1.0	EPA 300.0	1/31/22	2/2/22	
Fluoride	1.0	mg/L	0.1	EPA 300.0	1/31/22	2/2/22	
Sulfate	3060	mg/L	50.0	EPA 300.0	1/31/22	2/2/22	
Total Dissolved Solids (TDS)	4140	mg/L	20	SM 2540 C	2/1/22	2/1/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 28, 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_01272022	Project: DNMI00100
Sample ID: 569062002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 27-JAN-22 09:00	
Receive Date: 01-FEB-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		2.26	+/-0.329	0.440	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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"			113	(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 |



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-001
Client Sample ID: MW-24A_01262022
Collection Date: 1/26/2022 1000h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.00200	0.00427	
Cadmium	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.000500	0.00817	
Calcium	mg/L	1/31/2022 1131h	2/7/2022 2152h	E200.7	10.0	465	
Chromium	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0100	0.133	
Copper	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0100	0.0186	
Iron	mg/L	1/31/2022 1131h	1/31/2022 2050h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2022 1131h	1/31/2022 2050h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/31/2022 1131h	2/7/2022 2152h	E200.7	1.00	175	
Manganese	mg/L	1/31/2022 1131h	1/31/2022 2021h	E200.8	0.0100	6.81	
Mercury	mg/L	1/31/2022 1104h	2/1/2022 1047h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0200	0.0658	
Potassium	mg/L	1/31/2022 1131h	2/7/2022 2212h	E200.7	1.00	15.9	
Selenium	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.00500	0.00634	
Silver	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/31/2022 1131h	2/7/2022 2152h	E200.7	10.0	438	
Thallium	mg/L	1/31/2022 1131h	1/31/2022 2050h	E200.8	0.000500	0.00210	
Tin	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/31/2022 1131h	1/31/2022 2050h	E200.8	0.000300	0.00667	
Vanadium	mg/L	1/31/2022 1131h	2/7/2022 2212h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/31/2022 1131h	1/31/2022 1902h	E200.8	0.0100	0.0537	

3440 South 700 West
 Salt Lake City, UT 84119

 Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com
 web: www.awal-labs.com

Jennifer Osborn
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-001
Client Sample ID: MW-24A_01262022
Collection Date: 1/26/2022 1000h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	2/9/2022 1237h	2/9/2022 1526h	E350.1	0.0500	0.125	
Ion Balance	%		2/10/2022 1657h	Calc.	-100	-0.521	*
Nitrate/Nitrite (as N)	mg/L		2/9/2022 1230h	E353.2	0.100	0.288	†
Total Anions, Measured	meq/L		2/10/2022 1657h	Calc.		57.6	*
Total Cations, Measured	meq/L		2/10/2022 1657h	Calc.		57.0	
Total Dissolved Solids Ratio, Measured/Calculated			2/10/2022 1657h	Calc.		1.08	*
Total Dissolved Solids, Calculated	mg/L		2/10/2022 1657h	Calc.		3,850	*

* - The results used in these calculations for Alkalinity, Bicarbonate, Chloride, Sulfate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

† - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-001A
Client Sample ID: MW-24A_01262022
Collection Date: 1/26/2022 1000h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1355h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	@
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.1	50.00	102	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	49.6	50.00	99.1	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.7	50.00	97.4	78-132	
Surr: Toluene-d8		2037-26-5	49.9	50.00	99.8	81-123	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201511
Receipt: 1/28/22 13:40 @ 5.0 °C
Date Reported: 2/21/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-24A_01262022

Matrix: Water

Lab ID: 22A1649-01

Date Sampled: 1/26/22 10:00

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Chloride	34.5	mg/L	1.0	EPA 300.0	1/29/22	1/29/22	
Fluoride	1.4	mg/L	0.1	EPA 300.0	1/31/22	2/2/22	
Sulfate	2720	mg/L	50.0	EPA 300.0	1/31/22	2/2/22	
Total Dissolved Solids (TDS)	4160	mg/L	20	SM 2540 C	1/31/22	1/31/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 28, 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_01262022	Project: DNMI00100
Sample ID: 569062001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 26-JAN-22 10:00	
Receive Date: 01-FEB-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		2.03	+/-0.344	0.571	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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"			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 |



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-008
Client Sample ID: MW-25_01172022
Collection Date: 1/17/2022 1125h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 902h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.000500	0.00151	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1937h	E200.7	10.0	362	²
Chromium	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	0.0101	
Copper	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 902h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 902h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1937h	E200.7	1.00	121	²
Manganese	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	1.48	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1025h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	0.0168	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2014h	E200.7	1.00	12.2	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1937h	E200.7	10.0	290	²
Thallium	mg/L	1/24/2022 730h	1/25/2022 902h	E200.8	0.000500	0.000914	
Tin	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.00200	0.00670	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2014h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2252h	E200.8	0.0100	< 0.0100	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-008
Client Sample ID: MW-25_01172022
Collection Date: 1/17/2022 1125h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1323h	E350.1	0.0500	0.330	
Chloride	mg/L		1/22/2022 143h	E300.0	1.00	34.1	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	-0.0714	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1917h	E353.2	0.100	< 0.100	
Sulfate	mg/L		1/21/2022 1957h	E300.0	50.0	1,630	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		41.0	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		41.0	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.03	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		2,630	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-008A
Client Sample ID: MW-25_01172022
Collection Date: 1/17/2022 1125h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1106h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West

Salt Lake City, UT 84119

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Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.8	50.00	108	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	52.1	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	50.3	50.00	101	78-132	
Surr: Toluene-d8		2037-26-5	52.0	50.00	104	81-123	

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-25_01172022

Matrix: Water

Lab ID: 22A1301-03

Date Sampled: 1/17/22 11:25

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	307	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Fluoride	0.3	mg/L	0.1	EPA 300.0	1/25/22	1/25/22	
Total Dissolved Solids (TDS)	2720	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01172022	Project: DNMI00100
Sample ID: 568395003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 17-JAN-22 11:25	
Receive Date: 25-JAN-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	+/-0.198	0.503	1.00	pCi/L			JXC9	02/21/22	0734 2225007	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"			82.5	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-009
Client Sample ID: MW-26_01202022
Collection Date: 1/20/2022 800h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 1313h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.000500	0.000546	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1943h	E200.7	10.0	525	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.100	0.416	
Lead	mg/L	1/24/2022 730h	1/25/2022 1313h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1943h	E200.7	1.00	166	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	0.952	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1027h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2022h	E200.7	1.00	14.0	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.00500	0.00570	
Silver	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1943h	E200.7	10.0	173	
Thallium	mg/L	1/24/2022 730h	1/25/2022 1313h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.00200	0.0465	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2022h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2304h	E200.8	0.0100	< 0.0100	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-009
Client Sample ID: MW-26_01202022
Collection Date: 1/20/2022 800h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1324h	E350.1	0.0500	0.598	
Chloride	mg/L		1/21/2022 2121h	E300.0	20.0	77.1	
Fluoride	mg/L		1/22/2022 207h	E300.0	0.100	0.215	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	-1.30	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1918h	E353.2	0.100	0.601	
Sulfate	mg/L		1/21/2022 2121h	E300.0	100	1,940	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		49.0	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		47.7	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		0.998	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		3,080	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-009A
Client Sample ID: MW-26_01202022
Collection Date: 1/20/2022 800h
Received Date: 1/21/2022 1340h

Contact: Tamer Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/25/2022 856h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	818	1

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	530	500.0	106	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	524	500.0	105	85-121	
Surr: Dibromofluoromethane		1868-53-7	517	500.0	103	78-132	
Surr: Toluene-d8		2037-26-5	527	500.0	105	81-123	

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
 ~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 1/24/2022 1125h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.2	50.00	106	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.2	50.00	102	85-121	
Surr: Dibromofluoromethane		1868-53-7	51.6	50.00	103	78-132	
Surr: Toluene-d8		2037-26-5	51.3	50.00	103	81-123	

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-26_01202022

Matrix: Water

Lab ID: 22A1301-04

Date Sampled: 1/20/22 8:00

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	324	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	3080	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01202022 Project: DNMI00100
Sample ID: 568395004 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 20-JAN-22 08:00
Receive Date: 25-JAN-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		1.42	+/-0.256	0.322	1.00	pCi/L			JXC9	02/21/22	0734	2225007	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"			114	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-002
Client Sample ID: MW-27_01182022
Collection Date: 1/18/2022 1425h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1902h	E353.2	0.100	6.25	1

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-003
Client Sample ID: MW-28_01202022
Collection Date: 1/20/2022 1100h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	1/24/2022 730h	1/24/2022 2209h	E200.8	0.00500	0.0133	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2209h	E200.8	0.00200	0.00850	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-003
Client Sample ID: MW-28_01202022
Collection Date: 1/20/2022 1100h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2022 1734h	E300.0	5.00	140	
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1909h	E353.2	0.100	4.03	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-004
Client Sample ID: MW-29_01182022
Collection Date: 1/18/2022 1400h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	1/24/2022 730h	1/24/2022 2213h	E200.8	0.00200	0.0151	

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-010
Client Sample ID: MW-30_01172022
Collection Date: 1/17/2022 1035h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 1317h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1944h	E200.7	10.0	299	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 1317h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 1317h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1944h	E200.7	1.00	77.8	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1029h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2023h	E200.7	1.00	8.17	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.00500	0.0567	
Silver	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1944h	E200.7	10.0	106	
Thallium	mg/L	1/24/2022 730h	1/25/2022 1317h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.00200	0.0101	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2023h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2308h	E200.8	0.0100	< 0.0100	

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Salt Lake City, UT 84119

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Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-010
Client Sample ID: MW-30_01172022
Collection Date: 1/17/2022 1035h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1325h	E350.1	0.0500	< 0.0500	¹ @
Chloride	mg/L		1/21/2022 2232h	E300.0	10.0	181	
Fluoride	mg/L		1/22/2022 318h	E300.0	0.200	0.316	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	3.62	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1920h	E353.2	0.200	14.5	
Sulfate	mg/L		1/21/2022 2232h	E300.0	50.0	757	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		24.3	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		26.1	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.09	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		1,540	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-010A
Client Sample ID: MW-30_01172022
Collection Date: 1/17/2022 1035h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1444h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.9	50.00	108	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.6	50.00	103	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.6	50.00	99.3	78-132	
Surr: Toluene-d8		2037-26-5	52.3	50.00	105	81-123	



Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-30_01172022

Matrix: Water

Lab ID: 22A1301-05

Date Sampled: 1/17/22 10:35

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	160	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	1680	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01172022	Project: DNMI00100
Sample ID: 568395005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 17-JAN-22 10:35	
Receive Date: 25-JAN-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	+/-0.169	0.500	1.00	pCi/L			JXC9	02/21/22	0734	2225007	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"			98.4	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-011
Client Sample ID: MW-31_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

3440 South 700 West
 Salt Lake City, UT 84119

 Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com

 web: www.awal-labs.com

Jennifer Osborn
 Laboratory Director

Jose Rocha
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 906h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1946h	E200.7	10.0	413	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 906h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 906h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1946h	E200.7	1.00	184	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1031h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2024h	E200.7	1.00	9.78	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.00500	0.0887	
Silver	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1946h	E200.7	10.0	134	
Thallium	mg/L	1/24/2022 730h	1/25/2022 906h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.00200	0.0217	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2024h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2312h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-011
Client Sample ID: MW-31_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1327h	E350.1	0.0500	< 0.0500	
Chloride	mg/L		1/21/2022 2256h	E300.0	10.0	370	
Fluoride	mg/L		1/22/2022 342h	E300.0	0.200	0.583	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	2.66	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1921h	E353.2	0.200	18.0	
Sulfate	mg/L		1/21/2022 2256h	E300.0	50.0	1,210	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		39.7	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		41.8	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.07	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		2,450	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-011A
Client Sample ID: MW-31_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1504h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

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Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.2	50.00	108	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	52.1	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.5	50.00	99.0	78-132	
Surr: Toluene-d8		2037-26-5	52.2	50.00	104	81-123	



Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-31_01192022

Matrix: Water

Lab ID: 22A1301-06

Date Sampled: 1/19/22 12:50

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	188	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	2620	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01192022	Project: DNMI00100
Sample ID: 568395006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 19-JAN-22 12:50	
Receive Date: 25-JAN-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	+/-0.227	0.666	1.00	pCi/L			JXC9	02/21/22	0734 2225007	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"			113	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-005
Client Sample ID: MW-32_01192022
Collection Date: 1/19/2022 1200h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2022 1757h	E300.0	2.50	35.0	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-012
Client Sample ID: MW-36_01172022
Collection Date: 1/17/2022 1325h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 910h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1947h	E200.7	10.0	463	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 910h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 910h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1947h	E200.7	1.00	144	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1042h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2026h	E200.7	1.00	14.2	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.00500	0.224	
Silver	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1947h	E200.7	10.0	692	
Thallium	mg/L	1/24/2022 730h	1/25/2022 910h	E200.8	0.000500	0.000633	
Tin	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.00200	0.0242	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2026h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2316h	E200.8	0.0100	< 0.0100	

3440 South 700 West

Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-012
Client Sample ID: MW-36_01172022
Collection Date: 1/17/2022 1325h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1328h	E350.1	0.0500	< 0.0500	
Chloride	mg/L		1/21/2022 2320h	E300.0	20.0	55.6	
Fluoride	mg/L		1/22/2022 406h	E300.0	0.100	0.318	
Ion Balance	%		2/2/2022 1145h	Calc.	-100	1.36	*
Nitrate/Nitrite (as N)	mg/L		1/25/2022 1922h	E353.2	0.100	0.227	
Sulfate	mg/L		1/21/2022 2320h	E300.0	100	2,720	
Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		63.6	*
Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		65.4	
Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.02	*
Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		4,250	*

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-012A
Client Sample ID: MW-36_01172022
Collection Date: 1/17/2022 1325h
Received Date: 1/21/2022 1340h

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1523h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.3	50.00	105	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.4	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.4	50.00	98.8	78-132	
Surr: Toluene-d8		2037-26-5	50.6	50.00	101	81-123	



Certificate of Analysis

American West Analytical Labs
Elona Hayward
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Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-36_01172022

Matrix: Water

Lab ID: 22A1301-07

Date Sampled: 1/17/22 13:25

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	273	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	4340	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01172022	Project: DNMI00100
Sample ID: 568395007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 17-JAN-22 13:25	
Receive Date: 25-JAN-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	+/-0.184	0.494	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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"			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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-003
Client Sample ID: MW-38_01272022
Collection Date: 1/27/2022 930h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2022 1131h	2/18/2022 1339h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/31/2022 1131h	2/7/2022 2154h	E200.7	10.0	466	²
Chromium	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2022 1131h	1/31/2022 2058h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2022 1131h	1/31/2022 2058h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/31/2022 1131h	2/7/2022 2154h	E200.7	1.00	176	²
Manganese	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/31/2022 1104h	2/1/2022 1059h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/31/2022 1131h	2/7/2022 2215h	E200.7	1.00	33.5	
Selenium	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.00500	0.144	
Silver	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/31/2022 1131h	2/7/2022 2154h	E200.7	10.0	420	²
Thallium	mg/L	1/31/2022 1131h	1/31/2022 2058h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/31/2022 1131h	1/31/2022 2058h	E200.8	0.000300	0.00604	
Vanadium	mg/L	1/31/2022 1131h	2/7/2022 2215h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/31/2022 1131h	1/31/2022 1910h	E200.8	0.0100	< 0.0100	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-003
Client Sample ID: MW-38_01272022
Collection Date: 1/27/2022 930h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	2/14/2022 1021h	2/14/2022 1621h	E350.1	0.0500	< 0.0500	@
Ion Balance	%		2/10/2022 1657h	Calc.	-100	-0.313	*
Nitrate/Nitrite (as N)	mg/L		2/9/2022 1235h	E353.2	0.100	15.6	
Total Anions, Measured	meq/L		2/10/2022 1657h	Calc.		57.2	*
Total Cations, Measured	meq/L		2/10/2022 1657h	Calc.		56.8	
Total Dissolved Solids Ratio, Measured/Calculated			2/10/2022 1657h	Calc.		1.01	*
Total Dissolved Solids, Calculated	mg/L		2/10/2022 1657h	Calc.		3,830	*

* - The results used in these calculations for Alkalinity, Bicarbonate, Chloride, Sulfate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-003A
Client Sample ID: MW-38_01272022
Collection Date: 1/27/2022 930h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1612h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.6	50.00	99.2	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	48.2	50.00	96.4	85-121	
Surr: Dibromofluoromethane		1868-53-7	45.3	50.00	90.6	78-132	
Surr: Toluene-d8		2037-26-5	47.5	50.00	95.1	81-123	

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201511
Receipt: 1/28/22 13:40 @ 5.0 °C
Date Reported: 2/21/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-38_01272022

Matrix: Water

Lab ID: 22A1649-03

Date Sampled: 1/27/22 9:30

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO3)	103	mg/L	1.0	SM 2320 B	2/2/22	2/2/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/2/22	
Chloride	41.9	mg/L	1.0	EPA 300.0	1/29/22	1/29/22	
Fluoride	< 0.1	mg/L	0.1	EPA 300.0	1/31/22	2/2/22	
Sulfate	2690	mg/L	50.0	EPA 300.0	1/31/22	2/2/22	
Total Dissolved Solids (TDS)	3860	mg/L	20	SM 2540 C	2/2/22	2/2/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 28, 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_01272022	Project: DNMI00100
Sample ID: 569062003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 27-JAN-22 09:30	
Receive Date: 01-FEB-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	+/-0.198	0.470	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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 |



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-004
Client Sample ID: MW-39_01262022
Collection Date: 1/26/2022 1220h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.00200	0.00542	
Cadmium	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.000500	0.00243	
Calcium	mg/L	1/31/2022 1131h	2/7/2022 2205h	E200.7	10.0	446	
Chromium	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0100	0.0705	
Copper	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0100	0.0253	
Iron	mg/L	1/31/2022 1131h	2/1/2022 956h	E200.8	1.00	14.5	
Lead	mg/L	1/31/2022 1131h	1/31/2022 2102h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/31/2022 1131h	2/7/2022 2205h	E200.7	1.00	189	
Manganese	mg/L	1/31/2022 1131h	2/1/2022 952h	E200.8	0.0100	2.51	
Mercury	mg/L	1/31/2022 1104h	2/1/2022 1105h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0200	0.0365	
Potassium	mg/L	1/31/2022 1131h	2/7/2022 2219h	E200.7	1.00	19.1	
Selenium	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/31/2022 1131h	2/7/2022 2205h	E200.7	10.0	517	
Thallium	mg/L	1/31/2022 1131h	1/31/2022 2102h	E200.8	0.000500	0.00354	
Tin	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/31/2022 1131h	1/31/2022 2102h	E200.8	0.000300	0.0109	
Vanadium	mg/L	1/31/2022 1131h	2/7/2022 2219h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/31/2022 1131h	1/31/2022 1942h	E200.8	0.0100	0.221	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-004
Client Sample ID: MW-39_01262022
Collection Date: 1/26/2022 1220h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	2/9/2022 1237h	2/9/2022 1532h	E350.1	0.0500	0.142	
Ion Balance	%		2/10/2022 1657h	Calc.	-100	0.142	*
Nitrate/Nitrite (as N)	mg/L		2/9/2022 1236h	E353.2	0.100	0.129	
Total Anions, Measured	meq/L		2/10/2022 1657h	Calc.		61.4	*
Total Cations, Measured	meq/L		2/10/2022 1657h	Calc.		61.6	
Total Dissolved Solids Ratio, Measured/Calculated			2/10/2022 1657h	Calc.		1.08	*
Total Dissolved Solids, Calculated	mg/L		2/10/2022 1657h	Calc.		4,130	*

* - The results used in these calculations for Alkalinity, Bicarbonate, Chloride, Sulfate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-004A
Client Sample ID: MW-39_01262022
Collection Date: 1/26/2022 1220h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1631h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.8	50.00	106	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.9	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	48.5	50.00	96.9	78-132	
Surr: Toluene-d8		2037-26-5	51.2	50.00	102	81-123	

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: **2201511**
Receipt: **1/28/22 13:40 @ 5.0 °C**
Date Reported: **2/21/2022**
Project Name: **1st Quarter Ground Water 2022**

Sample ID: **MW-39_01262022**

Matrix: **Water**

Lab ID: **22A1649-04**

Date Sampled: **1/26/22 12:20**

Sampled By: **Client**

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/3/22	
Chloride	20.9	mg/L	1.0	EPA 300.0	1/29/22	1/29/22	
Fluoride	0.7	mg/L	0.1	EPA 300.0	1/31/22	2/2/22	
Sulfate	2920	mg/L	50.0	EPA 300.0	1/31/22	2/2/22	
Total Dissolved Solids (TDS)	4450	mg/L	20	SM 2540 C	2/1/22	2/1/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 28, 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_01262022	Project: DNMI00100
Sample ID: 569062004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 26-JAN-22 12:20	
Receive Date: 01-FEB-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		2.78	+/-0.402	0.594	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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"			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	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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-005
Client Sample ID: MW-40_01252022
Collection Date: 1/25/2022 1130h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2022 1131h	2/18/2022 1343h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/31/2022 1131h	2/7/2022 2206h	E200.7	10.0	458	
Chromium	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2022 1131h	1/31/2022 2106h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2022 1131h	1/31/2022 2106h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/31/2022 1131h	2/7/2022 2206h	E200.7	1.00	183	
Manganese	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	0.113	
Mercury	mg/L	1/31/2022 1104h	2/1/2022 1107h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/31/2022 1131h	2/7/2022 2220h	E200.7	1.00	11.3	
Selenium	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.00500	0.176	
Silver	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/31/2022 1131h	2/7/2022 2206h	E200.7	10.0	329	
Thallium	mg/L	1/31/2022 1131h	1/31/2022 2106h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/31/2022 1131h	1/31/2022 2106h	E200.8	0.000300	0.0220	
Vanadium	mg/L	1/31/2022 1131h	2/7/2022 2220h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/31/2022 1131h	1/31/2022 1946h	E200.8	0.0100	< 0.0100	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-005
Client Sample ID: MW-40_01252022
Collection Date: 1/25/2022 1130h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
	Ammonia (as N)	mg/L	2/9/2022 1237h	2/9/2022 1532h	E350.1	0.0500	0.114	
	Ion Balance	%		2/10/2022 1657h	Calc.	-100	3.12	*
	Nitrate/Nitrite (as N)	mg/L		2/9/2022 1237h	E353.2	0.100	2.37	
Phone: (801) 263-8686	Total Anions, Measured	meq/L		2/10/2022 1657h	Calc.		49.4	*
Toll Free: (888) 263-8686	Total Cations, Measured	meq/L		2/10/2022 1657h	Calc.		52.6	
Fax: (801) 263-8687	Total Dissolved Solids Ratio, Measured/Calculated			2/10/2022 1657h	Calc.		1.08	*
e-mail: awal@awal-labs.com	Total Dissolved Solids, Calculated	mg/L		2/10/2022 1657h	Calc.		3,340	*
web: www.awal-labs.com								

* - The results used in these calculations for Alkalinity, Bicarbonate, Chloride, Sulfate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-005A
Client Sample ID: MW-40_01252022
Collection Date: 1/25/2022 1130h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1651h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.0	50.00	102	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	49.0	50.00	97.9	85-121	
Surr: Dibromofluoromethane		1868-53-7	46.8	50.00	93.6	78-132	
Surr: Toluene-d8		2037-26-5	48.9	50.00	97.8	81-123	

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201511
Receipt: 1/28/22 13:40 @ 5.0 °C
Date Reported: 2/21/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-40_01252022

Matrix: Water

Lab ID: 22A1649-05

Date Sampled: 1/25/22 11:30

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO3)	218	mg/L	1.0	SM 2320 B	2/2/22	2/2/22	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/2/22	2/2/22	
Chloride	23.0	mg/L	1.0	EPA 300.0	1/29/22	1/29/22	
Fluoride	< 0.1	mg/L	0.1	EPA 300.0	1/31/22	2/2/22	
Sulfate	2340	mg/L	50.0	EPA 300.0	1/31/22	2/2/22	
Total Dissolved Solids (TDS)	3620	mg/L	20	SM 2540 C	1/31/22	1/31/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 28, 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_01252022	Project: DNMI00100
Sample ID: 569062005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 25-JAN-22 11:30	
Receive Date: 01-FEB-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	+/-0.215	0.420	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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"			110	(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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-013
Client Sample ID: MW-65_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2022 730h	1/25/2022 1321h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2022 730h	1/25/2022 1948h	E200.7	10.0	405	
Chromium	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2022 730h	1/25/2022 1321h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2022 730h	1/25/2022 1321h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2022 730h	1/25/2022 1948h	E200.7	1.00	180	
Manganese	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/28/2022 939h	1/31/2022 1044h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2022 730h	1/25/2022 2027h	E200.7	1.00	9.89	
Selenium	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.00500	0.0864	
Silver	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2022 730h	1/25/2022 1948h	E200.7	10.0	131	
Thallium	mg/L	1/24/2022 730h	1/25/2022 1321h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.00200	0.0213	
Vanadium	mg/L	1/24/2022 730h	1/25/2022 2027h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2022 730h	1/24/2022 2320h	E200.8	0.0100	< 0.0100	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-013
Client Sample ID: MW-65_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
	Ammonia (as N)	mg/L	1/27/2022 1126h	1/27/2022 1329h	E350.1	0.0500	< 0.0500	
	Chloride	mg/L		1/21/2022 2344h	E300.0	20.0	366	
	Fluoride	mg/L		1/22/2022 430h	E300.0	0.100	0.637	
Phone: (801) 263-8686	Ion Balance	%		2/2/2022 1145h	Calc.	-100	2.00	*
Toll Free: (888) 263-8686	Nitrate/Nitrite (as N)	mg/L		1/25/2022 1923h	E353.2	0.100	18.9	
Fax: (801) 263-8687	Sulfate	mg/L		1/21/2022 2344h	E300.0	100	1,200	
e-mail: awal@awal-labs.com	Total Anions, Measured	meq/L		2/2/2022 1145h	Calc.		39.4	*
	Total Cations, Measured	meq/L		2/2/2022 1145h	Calc.		41.0	
web: www.awal-labs.com	Total Dissolved Solids Ratio, Measured/Calculated			2/2/2022 1145h	Calc.		1.11	*
Jennifer Osborn	Total Dissolved Solids, Calculated	mg/L		2/2/2022 1145h	Calc.		2,430	*

Laboratory Director

* - The results used in these calculations for Alkalinity, Bicarbonate, and Total Dissolved Solids were performed at Chemtech-Ford Laboratories (9632 South 500 West, Sandy, UT 84070).

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-013A
Client Sample ID: MW-65_01192022
Collection Date: 1/19/2022 1250h
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1543h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.1	50.00	106	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.4	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.6	50.00	99.2	78-132	
Surr: Toluene-d8		2037-26-5	50.4	50.00	101	81-123	

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st Quarter Ground Water 2022

Sample ID: MW-65_01192022

Matrix: Water

Lab ID: 22A1301-08

Date Sampled: 1/19/22 12:50

Sampled By: Client

	<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							
Alkalinity - Bicarbonate (as CaCO ₃)	188	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	1/26/22	1/26/22	
Total Dissolved Solids (TDS)	2690	mg/L	20	SM 2540 C	1/24/22	1/24/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 22, 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_01192022	Project: DNMI00100
Sample ID: 568395008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 19-JAN-22 12:50	
Receive Date: 25-JAN-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	+/-0.198	0.662	1.00	pCi/L			JXC9	02/21/22	0735	2225007	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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201442-014A
Client Sample ID: Trip Blank
Collection Date: 1/17/2022
Received Date: 1/21/2022 1340h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2022 1603h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.0	50.00	100	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	47.3	50.00	94.7	85-121	
Surr: Dibromofluoromethane		1868-53-7	45.8	50.00	91.5	78-132	
Surr: Toluene-d8		2037-26-5	48.1	50.00	96.1	81-123	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Sample ID: 2201511-006A
Client Sample ID: Trip Blank
Collection Date: 1/25/2022 1130h
Received Date: 1/28/2022 1048h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/1/2022 1414h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	L
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.6	50.00	101	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	49.7	50.00	99.4	85-121	
Surr: Dibromofluoromethane		1868-53-7	47.9	50.00	95.8	78-132	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.3	81-123	

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.



Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 1st Quarter Ground Water 2022

Dear Tanner Holliday:

Lab Set ID: 2201442

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received sample(s) on 1/21/2022 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha Date: 2022.02.07 13:09:35 -07'00'
--------------------------	---------------------------------------------------------------------------------

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Carbonate/Bicarbonate

TDS



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201442
Date Received: 1/21/2022 1340h

Contact: Tanner Holliday

3440 South 700 West
 Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2201442-001A	MW-12_01202022	1/20/2022 915h	Aqueous	ICPMS Metals, Dissolved
2201442-002A	MW-27_01182022	1/18/2022 1425h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-003A	MW-28_01202022	1/20/2022 1100h	Aqueous	ICPMS Metals, Dissolved
2201442-003B	MW-28_01202022	1/20/2022 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-003C	MW-28_01202022	1/20/2022 1100h	Aqueous	Anions, E300.0
2201442-004A	MW-29_01182022	1/18/2022 1400h	Aqueous	ICPMS Metals, Dissolved
2201442-005A	MW-32_01192022	1/19/2022 1200h	Aqueous	Anions, E300.0
2201442-006A	MW-11_01182022	1/18/2022 1045h	Aqueous	ICP Metals, Dissolved
2201442-006A	MW-11_01182022	1/18/2022 1045h	Aqueous	Ion Balance
2201442-006A	MW-11_01182022	1/18/2022 1045h	Aqueous	Mercury, Drinking Water Dissolved
2201442-006A	MW-11_01182022	1/18/2022 1045h	Aqueous	ICPMS Metals, Dissolved
2201442-006B	MW-11_01182022	1/18/2022 1045h	Aqueous	Ammonia, Aqueous
2201442-006B	MW-11_01182022	1/18/2022 1045h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-006C	MW-11_01182022	1/18/2022 1045h	Aqueous	Anions, E300.0
2201442-006D	MW-11_01182022	1/18/2022 1045h	Aqueous	Analysis subcontracted to outside laboratory
2201442-006E	MW-11_01182022	1/18/2022 1045h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-007A	MW-14_01182022	1/18/2022 1015h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-007B	MW-14_01182022	1/18/2022 1015h	Aqueous	Anions, E300.0
2201442-007C	MW-14_01182022	1/18/2022 1015h	Aqueous	Analysis subcontracted to outside laboratory
2201442-007D	MW-14_01182022	1/18/2022 1015h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-007D	MW-14_01182022	1/18/2022 1015h	Aqueous	Ammonia, Aqueous
2201442-007E	MW-14_01182022	1/18/2022 1015h	Aqueous	ICP Metals, Dissolved
2201442-007E	MW-14_01182022	1/18/2022 1015h	Aqueous	ICPMS Metals, Dissolved
2201442-007E	MW-14_01182022	1/18/2022 1015h	Aqueous	Mercury, Drinking Water Dissolved
2201442-007E	MW-14_01182022	1/18/2022 1015h	Aqueous	Ion Balance
2201442-008A	MW-25_01172022	1/17/2022 1125h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-008B	MW-25_01172022	1/17/2022 1125h	Aqueous	Anions, E300.0
2201442-008C	MW-25_01172022	1/17/2022 1125h	Aqueous	Analysis subcontracted to outside laboratory
2201442-008D	MW-25_01172022	1/17/2022 1125h	Aqueous	Ammonia, Aqueous



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201442
Date Received: 1/21/2022 1340h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2201442-008D	MW-25_01172022	1/17/2022 1125h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-008E	MW-25_01172022	1/17/2022 1125h	Aqueous	Mercury, Drinking Water Dissolved
2201442-008E	MW-25_01172022	1/17/2022 1125h	Aqueous	ICPMS Metals, Dissolved
2201442-008E	MW-25_01172022	1/17/2022 1125h	Aqueous	Ion Balance
2201442-008E	MW-25_01172022	1/17/2022 1125h	Aqueous	ICP Metals, Dissolved
2201442-009A	MW-26_01202022	1/20/2022 800h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-009B	MW-26_01202022	1/20/2022 800h	Aqueous	Anions, E300.0
2201442-009C	MW-26_01202022	1/20/2022 800h	Aqueous	Analysis subcontracted to outside laboratory
2201442-009D	MW-26_01202022	1/20/2022 800h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-009D	MW-26_01202022	1/20/2022 800h	Aqueous	Ammonia, Aqueous
2201442-009E	MW-26_01202022	1/20/2022 800h	Aqueous	ICP Metals, Dissolved
2201442-009E	MW-26_01202022	1/20/2022 800h	Aqueous	ICPMS Metals, Dissolved
2201442-009E	MW-26_01202022	1/20/2022 800h	Aqueous	Mercury, Drinking Water Dissolved
2201442-009E	MW-26_01202022	1/20/2022 800h	Aqueous	Ion Balance
2201442-010A	MW-30_01172022	1/17/2022 1035h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-010B	MW-30_01172022	1/17/2022 1035h	Aqueous	Anions, E300.0
2201442-010C	MW-30_01172022	1/17/2022 1035h	Aqueous	Analysis subcontracted to outside laboratory
2201442-010D	MW-30_01172022	1/17/2022 1035h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-010D	MW-30_01172022	1/17/2022 1035h	Aqueous	Ammonia, Aqueous
2201442-010E	MW-30_01172022	1/17/2022 1035h	Aqueous	Ion Balance
2201442-010E	MW-30_01172022	1/17/2022 1035h	Aqueous	Mercury, Drinking Water Dissolved
2201442-010E	MW-30_01172022	1/17/2022 1035h	Aqueous	ICP Metals, Dissolved
2201442-010E	MW-30_01172022	1/17/2022 1035h	Aqueous	ICPMS Metals, Dissolved
2201442-011A	MW-31_01192022	1/19/2022 1250h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-011B	MW-31_01192022	1/19/2022 1250h	Aqueous	Anions, E300.0
2201442-011C	MW-31_01192022	1/19/2022 1250h	Aqueous	Analysis subcontracted to outside laboratory
2201442-011D	MW-31_01192022	1/19/2022 1250h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-011D	MW-31_01192022	1/19/2022 1250h	Aqueous	Ammonia, Aqueous
2201442-011E	MW-31_01192022	1/19/2022 1250h	Aqueous	Mercury, Drinking Water Dissolved

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201442
Date Received: 1/21/2022 1340h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2201442-011E	MW-31_01192022	1/19/2022 1250h	Aqueous	ICPMS Metals, Dissolved
2201442-011E	MW-31_01192022	1/19/2022 1250h	Aqueous	ICP Metals, Dissolved
2201442-011E	MW-31_01192022	1/19/2022 1250h	Aqueous	Ion Balance
2201442-012A	MW-36_01172022	1/17/2022 1325h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-012B	MW-36_01172022	1/17/2022 1325h	Aqueous	Anions, E300.0
2201442-012C	MW-36_01172022	1/17/2022 1325h	Aqueous	Analysis subcontracted to outside laboratory
2201442-012D	MW-36_01172022	1/17/2022 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-012D	MW-36_01172022	1/17/2022 1325h	Aqueous	Ammonia, Aqueous
2201442-012E	MW-36_01172022	1/17/2022 1325h	Aqueous	ICPMS Metals, Dissolved
2201442-012E	MW-36_01172022	1/17/2022 1325h	Aqueous	Mercury, Drinking Water Dissolved
2201442-012E	MW-36_01172022	1/17/2022 1325h	Aqueous	ICP Metals, Dissolved
2201442-012E	MW-36_01172022	1/17/2022 1325h	Aqueous	Ion Balance
2201442-013A	MW-65_01192022	1/19/2022 1250h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201442-013B	MW-65_01192022	1/19/2022 1250h	Aqueous	Anions, E300.0
2201442-013C	MW-65_01192022	1/19/2022 1250h	Aqueous	Analysis subcontracted to outside laboratory
2201442-013D	MW-65_01192022	1/19/2022 1250h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201442-013D	MW-65_01192022	1/19/2022 1250h	Aqueous	Ammonia, Aqueous
2201442-013E	MW-65_01192022	1/19/2022 1250h	Aqueous	Ion Balance
2201442-013E	MW-65_01192022	1/19/2022 1250h	Aqueous	ICP Metals, Dissolved
2201442-013E	MW-65_01192022	1/19/2022 1250h	Aqueous	ICPMS Metals, Dissolved
2201442-013E	MW-65_01192022	1/19/2022 1250h	Aqueous	Mercury, Drinking Water Dissolved
2201442-014A	Trip Blank	1/17/2022	Aqueous	VOA by GC/MS Method 8260D/5030C



Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	1st Quarter Ground Water 2022
Lab Set ID:	2201442

Sample Receipt Information:

Date of Receipt:	1/21/2022
Date of Collection:	1/17-1/20/2022
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD;

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
2201442-002A	Nitrate/Nitrite	MSD	Sample matrix interference
2201442-007D	Nitrate/Nitrite	MS/RPD	Sample matrix interference and/or suspected sample non-homogeneity
2201442-007E	Calcium	MS/MSD	High analyte concentration
2201442-007E	Magnesium	MSD	High analyte concentration
2201442-007E	Manganese	MS	High analyte concentration
2201442-007E	Sodium	MSD	High analyte concentration
2201442-008E	Calcium	MS/MSD	High analyte concentration
2201442-008E	Magnesium	MS	High analyte concentration
2201442-008E	Sodium	MS/MSD	High analyte concentration
2201442-010D	Ammonia	MSD/RPD	Sample matrix interference and/or suspected sample non-homogeneity

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201442

Sample Receipt Information:

Date of Receipt: 1/21/2022
Date of Collection: 1/17-1/20/2022
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

General Set Comments: One or more target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: the MS and/or MSD percent recoveries for multiple analytes on samples 2201442-006A and 2201442-009A were outside of the control limits due to sample matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-81810		Date Analyzed: 01/25/2022 1923h											
Test Code: 200.7-DIS		Date Prepared: 01/24/2022 730h											
Calcium	10.1	mg/L	E200.7	0.0313	1.00	10.00	0	101	85 - 115				
Magnesium	9.83	mg/L	E200.7	0.0140	0.100	10.00	0	98.3	85 - 115				
Potassium	10.0	mg/L	E200.7	0.183	1.00	10.00	0	100	85 - 115				
Sodium	9.87	mg/L	E200.7	0.257	1.00	10.00	0	98.7	85 - 115				
Vanadium	0.199	mg/L	E200.7	0.00148	0.00500	0.2000	0	99.7	85 - 115				
Lab Sample ID: LCS-81811		Date Analyzed: 01/24/2022 2201h											
Test Code: 200.8-DIS		Date Prepared: 01/24/2022 730h											
Arsenic	0.198	mg/L	E200.8	0.000298	0.00200	0.2000	0	99.1	85 - 115				
Beryllium	0.190	mg/L	E200.8	0.000198	0.00200	0.2000	0	95.2	85 - 115				
Cadmium	0.203	mg/L	E200.8	0.0000742	0.000500	0.2000	0	102	85 - 115				
Chromium	0.203	mg/L	E200.8	0.000872	0.00200	0.2000	0	101	85 - 115				
Cobalt	0.201	mg/L	E200.8	0.000300	0.00400	0.2000	0	100	85 - 115				
Copper	0.204	mg/L	E200.8	0.00118	0.00200	0.2000	0	102	85 - 115				
Iron	1.02	mg/L	E200.8	0.0374	0.100	1.000	0	102	85 - 115				
Lead	0.200	mg/L	E200.8	0.000588	0.00200	0.2000	0	99.9	85 - 115				
Manganese	0.203	mg/L	E200.8	0.000990	0.00200	0.2000	0	101	85 - 115				
Molybdenum	0.207	mg/L	E200.8	0.000520	0.00200	0.2000	0	103	85 - 115				
Nickel	0.200	mg/L	E200.8	0.000600	0.00200	0.2000	0	100	85 - 115				
Selenium	0.197	mg/L	E200.8	0.000508	0.00200	0.2000	0	98.6	85 - 115				
Silver	0.203	mg/L	E200.8	0.000232	0.00200	0.2000	0	101	85 - 115				
Thallium	0.201	mg/L	E200.8	0.000238	0.00200	0.2000	0	100	85 - 115				
Tin	1.02	mg/L	E200.8	0.000968	0.00400	1.000	0	102	85 - 115				
Uranium	0.197	mg/L	E200.8	0.000512	0.00200	0.2000	0	98.3	85 - 115				
Zinc	1.00	mg/L	E200.8	0.00370	0.00600	1.000	0	100	85 - 115				



3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-81882	Date Analyzed:	01/31/2022	1006h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/28/2022	939h										
Mercury	0.00360	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	108	85 - 115				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-81810	Date Analyzed:	01/25/2022	1921h										
Test Code:	200.7-DIS	Date Prepared:	01/24/2022	730h									
Calcium	< 1.00	mg/L	E200.7	0.0313	1.00								
Magnesium	< 0.100	mg/L	E200.7	0.0140	0.100								
Potassium	< 1.00	mg/L	E200.7	0.183	1.00								
Sodium	< 1.00	mg/L	E200.7	0.257	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00148	0.00500								
Lab Sample ID: MB-81811	Date Analyzed:	01/24/2022	2157h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Arsenic	< 0.00200	mg/L	E200.8	0.000298	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000742	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000872	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000300	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00118	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.000990	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000520	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000600	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000508	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000232	0.00200								
Tin	< 0.00400	mg/L	E200.8	0.000968	0.00400								
Zinc	< 0.00600	mg/L	E200.8	0.00370	0.00600								
Lab Sample ID: MB-81811	Date Analyzed:	01/25/2022	914h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Beryllium	< 0.000200	mg/L	E200.8	0.0000198	0.000200								
Iron	< 0.0100	mg/L	E200.8	0.00374	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000588	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.0000238	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000512	0.000200								



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Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-81882	Date Analyzed:	01/31/2022	1004h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/28/2022	939h										
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-007EMS													
Date Analyzed:		01/25/2022 1929h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Calcium	522	mg/L	E200.7	0.313	10.0	10.00	508	138	70 - 130				2
Magnesium	163	mg/L	E200.7	0.140	1.00	10.00	152	110	70 - 130				
Sodium	347	mg/L	E200.7	2.57	10.0	10.00	334	122	70 - 130				
Lab Sample ID: 2201442-008EMS													
Date Analyzed:		01/25/2022 1955h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Calcium	360	mg/L	E200.7	0.313	10.0	10.00	362	-21.3	70 - 130				2
Magnesium	127	mg/L	E200.7	0.140	1.00	10.00	121	56.8	70 - 130				2
Sodium	290	mg/L	E200.7	2.57	10.0	10.00	290	-2.21	70 - 130				2
Lab Sample ID: 2201442-007EMS													
Date Analyzed:		01/25/2022 2011h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Potassium	27.5	mg/L	E200.7	0.183	1.00	10.00	15.2	123	70 - 130				
Vanadium	0.208	mg/L	E200.7	0.00148	0.00500	0.2000	0	104	70 - 130				
Lab Sample ID: 2201442-008EMS													
Date Analyzed:		01/25/2022 2015h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Potassium	23.7	mg/L	E200.7	0.183	1.00	10.00	12.2	115	70 - 130				
Vanadium	0.206	mg/L	E200.7	0.00148	0.00500	0.2000	0	103	70 - 130				
Lab Sample ID: 2201442-007EMS													
Date Analyzed:		01/24/2022 2228h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2022 730h											
Arsenic	0.201	mg/L	E200.8	0.000298	0.00200	0.2000	0	100	75 - 125				
Beryllium	0.188	mg/L	E200.8	0.000198	0.00200	0.2000	0	94.2	75 - 125				
Cadmium	0.201	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00134	99.7	75 - 125				
Chromium	0.197	mg/L	E200.8	0.000872	0.00200	0.2000	0	98.5	75 - 125				
Cobalt	0.197	mg/L	E200.8	0.000300	0.00400	0.2000	0.00259	97.4	75 - 125				
Copper	0.195	mg/L	E200.8	0.00118	0.00200	0.2000	0	97.4	75 - 125				
Iron	0.997	mg/L	E200.8	0.0374	0.100	1.000	0	99.7	75 - 125				



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Jennifer Osborn
Laboratory Director

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-007EMS													
Date Analyzed:		01/24/2022 2228h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2022 730h											
Lead	0.194	mg/L	E200.8	0.000588	0.00200	0.2000	0	97.0	75 - 125				
Molybdenum	0.216	mg/L	E200.8	0.000520	0.00200	0.2000	0.00458	106	75 - 125				
Nickel	0.200	mg/L	E200.8	0.000600	0.00200	0.2000	0.00457	97.5	75 - 125				
Selenium	0.193	mg/L	E200.8	0.000508	0.00200	0.2000	0	96.7	75 - 125				
Silver	0.191	mg/L	E200.8	0.000232	0.00200	0.2000	0	95.4	75 - 125				
Thallium	0.194	mg/L	E200.8	0.000238	0.00200	0.2000	0.000409	96.9	75 - 125				
Tin	1.06	mg/L	E200.8	0.000968	0.00400	1.000	0	106	75 - 125				
Uranium	0.257	mg/L	E200.8	0.000512	0.00200	0.2000	0.0661	95.3	75 - 125				
Zinc	1.00	mg/L	E200.8	0.00370	0.00600	1.000	0.0179	98.7	75 - 125				
Lab Sample ID: 2201442-008EMS													
Date Analyzed:		01/24/2022 2256h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2022 730h											
Arsenic	0.200	mg/L	E200.8	0.000298	0.00200	0.2000	0.0003	100	75 - 125				
Beryllium	0.188	mg/L	E200.8	0.000198	0.00200	0.2000	0	93.9	75 - 125				
Cadmium	0.202	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00151	100	75 - 125				
Chromium	0.197	mg/L	E200.8	0.000872	0.00200	0.2000	0	98.6	75 - 125				
Cobalt	0.205	mg/L	E200.8	0.000300	0.00400	0.2000	0.0101	97.3	75 - 125				
Copper	0.195	mg/L	E200.8	0.00118	0.00200	0.2000	0	97.6	75 - 125				
Iron	0.986	mg/L	E200.8	0.0374	0.100	1.000	0	98.6	75 - 125				
Lead	0.193	mg/L	E200.8	0.000588	0.00200	0.2000	0	96.7	75 - 125				
Manganese	1.64	mg/L	E200.8	0.000990	0.00200	0.2000	1.48	81.5	75 - 125				
Molybdenum	0.225	mg/L	E200.8	0.000520	0.00200	0.2000	0.0168	104	75 - 125				
Nickel	0.201	mg/L	E200.8	0.000600	0.00200	0.2000	0.00596	97.4	75 - 125				
Selenium	0.193	mg/L	E200.8	0.000508	0.00200	0.2000	0	96.6	75 - 125				
Silver	0.189	mg/L	E200.8	0.000232	0.00200	0.2000	0	94.7	75 - 125				
Thallium	0.195	mg/L	E200.8	0.000238	0.00200	0.2000	0.000914	97.0	75 - 125				
Tin	1.05	mg/L	E200.8	0.000968	0.00400	1.000	0	105	75 - 125				
Uranium	0.204	mg/L	E200.8	0.000512	0.00200	0.2000	0.0067	98.6	75 - 125				



3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-008EMS	Date Analyzed:	01/24/2022	2256h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Zinc	1.00	mg/L	E200.8	0.00370	0.00600	1.000	0.00418	99.6	75 - 125				
Lab Sample ID: 2201442-007EMS	Date Analyzed:	01/25/2022	853h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Manganese	2.15	mg/L	E200.8	0.00198	0.00400	0.2000	1.89	127	75 - 125				2
Lab Sample ID: 2201442-006AMS	Date Analyzed:	01/31/2022	1019h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/28/2022	939h									
Mercury	0.00374	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	112	85 - 115				

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-007EMSD													
Date Analyzed:		01/25/2022 1931h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Calcium	534	mg/L	E200.7	0.313	10.0	10.00	508	256	70 - 130	522	2.24	20	2
Magnesium	167	mg/L	E200.7	0.140	1.00	10.00	152	149	70 - 130	163	2.37	20	2
Sodium	355	mg/L	E200.7	2.57	10.0	10.00	334	203	70 - 130	347	2.31	20	2
Lab Sample ID: 2201442-008EMSD													
Date Analyzed:		01/25/2022 1941h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Calcium	367	mg/L	E200.7	0.313	10.0	10.00	362	50.1	70 - 130	360	1.96	20	2
Magnesium	129	mg/L	E200.7	0.140	1.00	10.00	121	84.5	70 - 130	127	2.16	20	
Sodium	296	mg/L	E200.7	2.57	10.0	10.00	290	65.8	70 - 130	290	2.32	20	2
Lab Sample ID: 2201442-007EMSD													
Date Analyzed:		01/25/2022 2012h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Potassium	27.3	mg/L	E200.7	0.183	1.00	10.00	15.2	121	70 - 130	27.5	0.656	20	
Vanadium	0.207	mg/L	E200.7	0.00148	0.00500	0.2000	0	104	70 - 130	0.208	0.265	20	
Lab Sample ID: 2201442-008EMSD													
Date Analyzed:		01/25/2022 2016h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2022 730h											
Potassium	24.4	mg/L	E200.7	0.183	1.00	10.00	12.2	121	70 - 130	23.7	2.69	20	
Vanadium	0.210	mg/L	E200.7	0.00148	0.00500	0.2000	0	105	70 - 130	0.206	1.86	20	
Lab Sample ID: 2201442-007EMSD													
Date Analyzed:		01/24/2022 2232h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2022 730h											
Arsenic	0.198	mg/L	E200.8	0.000298	0.00200	0.2000	0	98.8	75 - 125	0.201	1.55	20	
Beryllium	0.188	mg/L	E200.8	0.000198	0.00200	0.2000	0	93.8	75 - 125	0.188	0.428	20	
Cadmium	0.202	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00134	101	75 - 125	0.201	0.786	20	
Chromium	0.197	mg/L	E200.8	0.000872	0.00200	0.2000	0	98.5	75 - 125	0.197	0.0673	20	
Cobalt	0.197	mg/L	E200.8	0.000300	0.00400	0.2000	0.00259	97.2	75 - 125	0.197	0.192	20	
Copper	0.195	mg/L	E200.8	0.00118	0.00200	0.2000	0	97.4	75 - 125	0.195	0.0584	20	
Iron	0.990	mg/L	E200.8	0.0374	0.100	1.000	0	99.0	75 - 125	0.997	0.705	20	



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Jennifer Osborn
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-007EMSD		Date Analyzed: 01/24/2022 2232h											
Test Code: 200.8-DIS		Date Prepared: 01/24/2022 730h											
Lead	0.195	mg/L	E200.8	0.000588	0.00200	0.2000	0	97.5	75 - 125	0.194	0.541	20	
Molybdenum	0.217	mg/L	E200.8	0.000520	0.00200	0.2000	0.00458	106	75 - 125	0.216	0.404	20	
Nickel	0.197	mg/L	E200.8	0.000600	0.00200	0.2000	0.00457	96.4	75 - 125	0.2	1.18	20	
Selenium	0.195	mg/L	E200.8	0.000508	0.00200	0.2000	0	97.7	75 - 125	0.193	0.988	20	
Silver	0.191	mg/L	E200.8	0.000232	0.00200	0.2000	0	95.3	75 - 125	0.191	0.0452	20	
Thallium	0.196	mg/L	E200.8	0.000238	0.00200	0.2000	0.000409	97.6	75 - 125	0.194	0.753	20	
Tin	1.06	mg/L	E200.8	0.000968	0.00400	1.000	0	106	75 - 125	1.06	0.188	20	
Uranium	0.258	mg/L	E200.8	0.000512	0.00200	0.2000	0.0661	96.2	75 - 125	0.257	0.667	20	
Zinc	1.00	mg/L	E200.8	0.00370	0.00600	1.000	0.0179	98.3	75 - 125	1	0.415	20	
Lab Sample ID: 2201442-008EMSD		Date Analyzed: 01/24/2022 2300h											
Test Code: 200.8-DIS		Date Prepared: 01/24/2022 730h											
Arsenic	0.198	mg/L	E200.8	0.000298	0.00200	0.2000	0.0003	98.9	75 - 125	0.2	1.17	20	
Beryllium	0.189	mg/L	E200.8	0.000198	0.00200	0.2000	0	94.7	75 - 125	0.188	0.871	20	
Cadmium	0.202	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00151	100	75 - 125	0.202	0.126	20	
Chromium	0.198	mg/L	E200.8	0.000872	0.00200	0.2000	0	98.8	75 - 125	0.197	0.161	20	
Cobalt	0.206	mg/L	E200.8	0.000300	0.00400	0.2000	0.0101	97.8	75 - 125	0.205	0.530	20	
Copper	0.198	mg/L	E200.8	0.00118	0.00200	0.2000	0	98.8	75 - 125	0.195	1.20	20	
Iron	1.00	mg/L	E200.8	0.0374	0.100	1.000	0	100	75 - 125	0.986	1.48	20	
Lead	0.197	mg/L	E200.8	0.000588	0.00200	0.2000	0	98.5	75 - 125	0.193	1.89	20	
Manganese	1.68	mg/L	E200.8	0.000990	0.00200	0.2000	1.48	101	75 - 125	1.64	2.35	20	
Molybdenum	0.228	mg/L	E200.8	0.000520	0.00200	0.2000	0.0168	106	75 - 125	0.225	1.11	20	
Nickel	0.201	mg/L	E200.8	0.000600	0.00200	0.2000	0.00596	97.5	75 - 125	0.201	0.102	20	
Selenium	0.192	mg/L	E200.8	0.000508	0.00200	0.2000	0	95.9	75 - 125	0.193	0.764	20	
Silver	0.193	mg/L	E200.8	0.000232	0.00200	0.2000	0	96.3	75 - 125	0.189	1.65	20	
Thallium	0.198	mg/L	E200.8	0.000238	0.00200	0.2000	0.000914	98.5	75 - 125	0.195	1.48	20	
Tin	1.05	mg/L	E200.8	0.000968	0.00400	1.000	0	105	75 - 125	1.05	0.730	20	
Uranium	0.204	mg/L	E200.8	0.000512	0.00200	0.2000	0.0067	98.5	75 - 125	0.204	0.0723	20	



3440 South 700 West

Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-008EMSD	Date Analyzed:	01/24/2022	2300h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Zinc	0.989	mg/L	E200.8	0.00370	0.00600	1.000	0.00418	98.5	75 - 125	1	1.03	20	
Lab Sample ID: 2201442-007EMSD	Date Analyzed:	01/25/2022	857h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2022	730h									
Manganese	2.12	mg/L	E200.8	0.00198	0.00400	0.2000	1.89	114	75 - 125	2.15	1.21	20	
Lab Sample ID: 2201442-006AMSD	Date Analyzed:	01/31/2022	1021h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/28/2022	939h									
Mercury	0.00373	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	112	85 - 115	0.00375	0.312	20	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-161166													
Date Analyzed:		01/21/2022 1223h											
Test Code:		300.0-W											
Chloride	4.93	mg/L	E300.0	0.0210	0.100	5.000	0	98.5	90 - 110				
Fluoride	4.86	mg/L	E300.0	0.0183	0.100	5.000	0	97.1	90 - 110				
Sulfate	5.02	mg/L	E300.0	0.0374	0.500	5.000	0	100	90 - 110				
Lab Sample ID: LCS-81862													
Date Analyzed:		01/27/2022 1318h											
Test Code:		NH3-W-350.1											
Date Prepared:		01/27/2022 1126h											
Ammonia (as N)	2.17	mg/L	E350.1	0.0494	0.0500	2.000	0	108	90 - 110				
Lab Sample ID: LCS-R161212													
Date Analyzed:		01/25/2022 1830h											
Test Code:		NO2/NO3-W-353.2											
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00541	0.0100	1.000	0	108	90 - 110				
Lab Sample ID: LCS-R161213													
Date Analyzed:		01/25/2022 1908h											
Test Code:		NO2/NO3-W-353.2											
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00541	0.0100	1.000	0	105	90 - 110				



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Jennifer Osborn
Laboratory Director

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-161166	Date Analyzed:	01/21/2022	1200h										
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.0210	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0183	0.100								
Sulfate	< 0.500	mg/L	E300.0	0.0374	0.500								
Lab Sample ID: MB-81862	Date Analyzed:	01/27/2022	1317h										
Test Code:	NH3-W-350.1	Date Prepared:	01/27/2022	1126h									
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0494	0.0500								
Lab Sample ID: MB-R161212	Date Analyzed:	01/25/2022	1829h										
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								
Lab Sample ID: MB-R161213	Date Analyzed:	01/25/2022	1907h										
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								



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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-006CMS Date Analyzed: 01/21/2022 1845h													
Test Code: 300.0-W													
Chloride	1,020	mg/L	E300.0	4.20	20.0	1,000	51.1	97.0	90 - 110				
Sulfate	2,010	mg/L	E300.0	7.48	100	1,000	1020	99.2	90 - 110				
Lab Sample ID: 2201442-007BMS Date Analyzed: 01/22/2022 055h													
Test Code: 300.0-W													
Chloride	28.5	mg/L	E300.0	0.0420	0.200	10.00	18.6	98.1	90 - 110				
Fluoride	9.69	mg/L	E300.0	0.0366	0.200	10.00	0.114	95.8	90 - 110				
Lab Sample ID: 2201442-010DMS Date Analyzed: 01/27/2022 1326h													
Test Code: NH3-W-350.1 Date Prepared: 01/27/2022 1126h													
Ammonia (as N)	1.83	mg/L	E350.1	0.0494	0.0500	2.000	0	91.6	90 - 110				
Lab Sample ID: 2201442-002AMS Date Analyzed: 01/25/2022 1903h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	17.2	mg/L	E353.2	0.0541	0.100	10.00	6.25	110	90 - 110				
Lab Sample ID: 2201442-007DMS Date Analyzed: 01/25/2022 1915h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.5	mg/L	E353.2	0.0541	0.100	10.00	0.0773	124	90 - 110				1

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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e-mail: awal@awal-labs.com, web: www.awal-labs.com

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-006CMSD Date Analyzed: 01/21/2022 1909h													
Test Code: 300.0-W													
Chloride	1,020	mg/L	E300.0	4.20	20.0	1,000	51.1	97.2	90 - 110	1020	0.181	20	
Sulfate	2,030	mg/L	E300.0	7.48	100	1,000	1020	101	90 - 110	2010	0.809	20	
Lab Sample ID: 2201442-007BMSD Date Analyzed: 01/22/2022 119h													
Test Code: 300.0-W													
Chloride	28.5	mg/L	E300.0	0.0420	0.200	10.00	18.6	98.5	90 - 110	28.5	0.150	20	
Fluoride	9.71	mg/L	E300.0	0.0366	0.200	10.00	0.114	95.9	90 - 110	9.69	0.145	20	
Lab Sample ID: 2201442-010DMSD Date Analyzed: 01/27/2022 1326h													
Test Code: NH3-W-350.1 Date Prepared: 01/27/2022 1126h													
Ammonia (as N)	2.23	mg/L	E350.1	0.0494	0.0500	2.000	0	112	90 - 110	1.83	19.6	10	'@
Lab Sample ID: 2201442-002AMSD Date Analyzed: 01/25/2022 1904h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	19.0	mg/L	E353.2	0.0541	0.100	10.00	6.25	127	90 - 110	17.2	9.78	10	'
Lab Sample ID: 2201442-007DMSD Date Analyzed: 01/25/2022 1916h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.2	mg/L	E353.2	0.0541	0.100	10.00	0.0773	101	90 - 110	12.5	20.5	10	@

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Jennifer Osborn
Laboratory Director

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 012422A		Date Analyzed: 01/24/2022 712h											
Test Code: 8260D-W-DEN100													
2-Butanone	20	µg/L	SW8260D	3.20	20.0	20.00	0	99.8	69 - 236				
Acetone	24.3	µg/L	SW8260D	1.49	20.0	20.00	0	121	36 - 198				
Benzene	23.0	µg/L	SW8260D	0.193	1.00	20.00	0	115	78 - 125				
Carbon tetrachloride	23.4	µg/L	SW8260D	0.668	1.00	20.00	0	117	66 - 143				
Chloroform	23.1	µg/L	SW8260D	0.310	1.00	20.00	0	115	74 - 120				
Chloromethane	21.1	µg/L	SW8260D	0.297	1.00	20.00	0	106	30 - 149				
Methylene chloride	24.0	µg/L	SW8260D	0.703	1.00	20.00	0	120	65 - 154				
Naphthalene	21.9	µg/L	SW8260D	1.16	1.00	20.00	0	109	55 - 128				
Tetrahydrofuran	23.0	µg/L	SW8260D	0.500	1.00	20.00	0	115	59 - 135				
Toluene	24.0	µg/L	SW8260D	0.957	1.00	20.00	0	120	69 - 129				
Xylenes, Total	73.6	µg/L	SW8260D	0.558	1.00	60.00	0	123	66 - 124				
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	49.6	µg/L	SW8260D			50.00		99.1	85 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260D			50.00		99.2	78 - 132				
Surr: Toluene-d8	51.0	µg/L	SW8260D			50.00		102	81 - 123				
Lab Sample ID: LCS VOC-2 012522A		Date Analyzed: 01/25/2022 652h											
Test Code: 8260D-W-DEN100													
Chloroform	22.7	µg/L	SW8260D	0.310	1.00	20.00	0	114	74 - 120				
Surr: 1,2-Dichloroethane-d4	51.6	µg/L	SW8260D			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	50.3	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	50.6	µg/L	SW8260D			50.00		101	81 - 123				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 012422A Date Analyzed: 01/24/2022 731h													
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	3.20	20.0								
Acetone	< 20.0	µg/L	SW8260D	1.49	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.193	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.668	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.310	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.297	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.703	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	1.16	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.500	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.957	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.558	1.00								
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260D			50.00		98.9	85 - 121				
Surr: Dibromofluoromethane	47.9	µg/L	SW8260D			50.00		95.8	78 - 132				
Surr: Toluene-d8	50.5	µg/L	SW8260D			50.00		101	81 - 123				
Lab Sample ID: MB VOC-2 012522A Date Analyzed: 01/25/2022 711h													
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.310	1.00								
Surr: 1,2-Dichloroethane-d4	53.8	µg/L	SW8260D			50.00		108	80 - 136				
Surr: 4-Bromofluorobenzene	50.7	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260D			50.00		99.6	78 - 132				
Surr: Toluene-d8	51.8	µg/L	SW8260D			50.00		104	81 - 123				



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Jennifer Osborn
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-006AMS Date Analyzed: 01/24/2022 1008h													
Test Code: 8260D-W-DEN100													
2-Butanone	16	µg/L	SW8260D	3.20	20.0	20.00	0	80.2	69 - 236				
Acetone	21.2	µg/L	SW8260D	1.49	20.0	20.00	0	106	36 - 198				
Benzene	23.8	µg/L	SW8260D	0.193	1.00	20.00	0	119	78 - 125				
Carbon tetrachloride	24.9	µg/L	SW8260D	0.668	1.00	20.00	0	125	66 - 143				
Chloroform	23.9	µg/L	SW8260D	0.310	1.00	20.00	0	119	74 - 120				
Chloromethane	22.4	µg/L	SW8260D	0.297	1.00	20.00	0	112	30 - 149				
Methylene chloride	24.7	µg/L	SW8260D	0.703	1.00	20.00	0	123	65 - 154				
Naphthalene	22.2	µg/L	SW8260D	1.16	1.00	20.00	0	111	55 - 128				
Tetrahydrofuran	21.3	µg/L	SW8260D	0.500	1.00	20.00	0	106	59 - 135				
Toluene	25.1	µg/L	SW8260D	0.957	1.00	20.00	0	125	69 - 129				
Xylenes, Total	77.6	µg/L	SW8260D	0.558	1.00	60.00	0	129	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.1	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	47.9	µg/L	SW8260D			50.00		95.7	85 - 121				
Surr: Dibromofluoromethane	48.7	µg/L	SW8260D			50.00		97.5	78 - 132				
Surr: Toluene-d8	49.7	µg/L	SW8260D			50.00		99.4	81 - 123				
Lab Sample ID: 2201442-009AMS Date Analyzed: 01/25/2022 916h													
Test Code: 8260D-W-DEN100													
Chloroform	1,030	µg/L	SW8260D	3.10	10.0	200.0	818	107	74 - 120				
Surr: 1,2-Dichloroethane-d4	530	µg/L	SW8260D			500.0		106	80 - 136				
Surr: 4-Bromofluorobenzene	504	µg/L	SW8260D			500.0		101	85 - 121				
Surr: Dibromofluoromethane	519	µg/L	SW8260D			500.0		104	78 - 132				
Surr: Toluene-d8	521	µg/L	SW8260D			500.0		104	81 - 123				

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201442
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201442-006AMSD Date Analyzed: 01/24/2022 1027h													
Test Code: 8260D-W-DEN100													
2-Butanone	20	µg/L	SW8260D	3.20	20.0	20.00	0	99.8	69 - 236	16	21.7	35	
Acetone	22.8	µg/L	SW8260D	1.49	20.0	20.00	0	114	36 - 198	21.2	7.09	35	
Benzene	25.1	µg/L	SW8260D	0.193	1.00	20.00	0	125	78 - 125	23.8	5.33	35	§
Carbon tetrachloride	25.9	µg/L	SW8260D	0.668	1.00	20.00	0	130	66 - 143	24.9	3.94	35	
Chloroform	25.0	µg/L	SW8260D	0.310	1.00	20.00	0	125	74 - 120	23.9	4.82	35	†
Chloromethane	25.9	µg/L	SW8260D	0.297	1.00	20.00	0	129	30 - 149	22.4	14.3	35	
Methylene chloride	26.0	µg/L	SW8260D	0.703	1.00	20.00	0	130	65 - 154	24.7	5.09	35	
Naphthalene	24.4	µg/L	SW8260D	1.16	1.00	20.00	0	122	55 - 128	22.2	9.32	35	
Tetrahydrofuran	24.0	µg/L	SW8260D	0.500	1.00	20.00	0	120	59 - 135	21.3	12.1	35	
Toluene	26.1	µg/L	SW8260D	0.957	1.00	20.00	0	131	69 - 129	25.1	4.06	35	†
Xylenes, Total	81.1	µg/L	SW8260D	0.558	1.00	60.00	0	135	66 - 124	77.6	4.34	35	†
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260D			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260D			50.00		99.3	85 - 121				
Surr: Dibromofluoromethane	49.5	µg/L	SW8260D			50.00		99.0	78 - 132				
Surr: Toluene-d8	50.2	µg/L	SW8260D			50.00		100	81 - 123				
Lab Sample ID: 2201442-009AMSD Date Analyzed: 01/25/2022 935h													
Test Code: 8260D-W-DEN100													
Chloroform	1,060	µg/L	SW8260D	3.10	10.0	200.0	818	121	74 - 120	1030	2.78	35	†
Surr: 1,2-Dichloroethane-d4	528	µg/L	SW8260D			500.0		106	80 - 136				
Surr: 4-Bromofluorobenzene	502	µg/L	SW8260D			500.0		100	85 - 121				
Surr: Dibromofluoromethane	503	µg/L	SW8260D			500.0		101	78 - 132				
Surr: Toluene-d8	510	µg/L	SW8260D			500.0		102	81 - 123				

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.

† - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

WORK ORDER Summary

Work Order: **2201442**

Page 1 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Client ID: ENE300

Contact: Tanner Holliday

Project: 1st Quarter Ground Water 2022

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD. Samples for bi/carb & TDS sent to Chemtech.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2201442-001A	MW-12_01202022	1/20/2022 0915h	1/21/2022 1340h	200.8-DIS	Aqueous		df-met	1
				2 SEL Analytes: SE U				
				200.8-DIS-PR			df-met	
2201442-002A	MW-27_01182022	1/18/2022 1425h	1/21/2022 1340h	NO2/NO3-W-353.2	Aqueous		df - no2/no3 & nh3	1
				1 SEL Analytes: NO3NO2N				
2201442-003A	MW-28_01202022	1/20/2022 1100h	1/21/2022 1340h	200.8-DIS	Aqueous		df-met	1
				2 SEL Analytes: SE U				
				200.8-DIS-PR			df-met	
2201442-003B				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2201442-003C				300.0-W			df - wc	
				1 SEL Analytes: CL				
2201442-004A	MW-29_01182022	1/18/2022 1400h	1/21/2022 1340h	200.8-DIS	Aqueous		df-met	1
				1 SEL Analytes: U				
				200.8-DIS-PR			df-met	
2201442-005A	MW-32_01192022	1/19/2022 1200h	1/21/2022 1340h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
2201442-006A	MW-11_01182022	1/18/2022 1045h	1/21/2022 1340h	200.7-DIS	Aqueous		df-met	1
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
1 SEL Analytes: HG								
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE-Anions Cations TDS-Balance TDS-Calc				

WORK ORDER Summary

Work Order: **2201442**

Page 2 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2201442-006B	MW-11_01182022	1/18/2022 1045h	1/21/2022 1340h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous		df - no2/no3 & nh3	1
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3	
2201442-006C				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc	
2201442-006D				OUTSIDE LAB			chemtech-Ford-tds/bi/carb	
2201442-006E				8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			Purge	3
2201442-007A	MW-14_01182022	1/18/2022 1015h	1/21/2022 1340h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge	3
2201442-007B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc	1
2201442-007C				OUTSIDE LAB			Chemtech-Ford	
2201442-007D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>			df - no2/no3 & nh3	
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3	
2201442-007E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met	
				200.7-DIS-PR			df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met	
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met	
				HG-DW-DIS-PR			df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met	
2201442-008A	MW-25_01172022	1/17/2022 1125h	1/21/2022 1340h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge	3
2201442-008B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc	1
2201442-008C				OUTSIDE LAB			Chemtech-Ford	

WORK ORDER Summary

Work Order: **2201442** Page 3 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2201442-008D	MW-25_01172022	1/17/2022 1125h	1/21/2022 1340h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous	df - no2/no3 & nh3	1
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
2201442-008E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
2201442-009A	MW-26_01202022	1/20/2022 0800h	1/21/2022 1340h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
2201442-009B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
2201442-009C				OUTSIDE LAB		Chemtech-Ford	
2201442-009D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
2201442-009E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	

WORK ORDER Summary

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
2201442-010A	MW-30_01172022	1/17/2022 1035h	1/21/2022 1340h	8260D-W-DEN100	Aqueous		VOCFridge 3		
2201442-010B				300.0-W			df - wc	1	
				3 SEL Analytes: CL F SO4					
2201442-010C				OUTSIDE LAB			Chemtech-Ford		
2201442-010D				NH3-W-350.1			df - no2/no3 & nh3		
				1 SEL Analytes: NH3N					
				NH3-W-PR			df - no2/no3 & nh3		
				NO2/NO3-W-353.2			df - no2/no3 & nh3		
				1 SEL Analytes: NO3NO2N					
2201442-010E				200.7-DIS		df-met			
				5 SEL Analytes: CA MG K NA V					
				200.7-DIS-PR		df-met			
				200.8-DIS		df-met			
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN					
				200.8-DIS-PR		df-met			
				HG-DW-DIS-245.1		df-met			
				1 SEL Analytes: HG					
				HG-DW-DIS-PR		df-met			
				IONBALANCE		df-met			
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					
2201442-011A	MW-31_01192022	1/19/2022 1250h	1/21/2022 1340h	8260D-W-DEN100	Aqueous		VOCFridge 3		
2201442-011B				300.0-W			df - wc	1	
				3 SEL Analytes: CL F SO4					
2201442-011C				OUTSIDE LAB			Chemtech-Ford		
2201442-011D				NH3-W-350.1			df - no2/no3 & nh3		
				1 SEL Analytes: NH3N					
				NH3-W-PR			df - no2/no3 & nh3		
				NO2/NO3-W-353.2			df - no2/no3 & nh3		
				1 SEL Analytes: NO3NO2N					
2201442-011E				200.7-DIS		df-met			
				5 SEL Analytes: CA MG K NA V					
				200.7-DIS-PR		df-met			
				200.8-DIS		df-met			
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN					

WORK ORDER Summary

Work Order: **2201442** Page 5 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2201442-011E	MW-31_01192022	1/19/2022 1250h	1/21/2022 1340h	200.8-DIS-PR	Aqueous		df-met	1
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2201442-012A	MW-36_01172022	1/17/2022 1325h	1/21/2022 1340h	8260D-W-DEN100	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2201442-012B				300.0-W			df - wc	1
				3 SEL Analytes: CL F SO4				
2201442-012C				OUTSIDE LAB			Chemtech-Ford	
2201442-012D				NH3-W-350.1			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2201442-012E				200.7-DIS			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2201442-013A	MW-65_01192022	1/19/2022 1250h	1/21/2022 1340h	8260D-W-DEN100	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2201442-013B				300.0-W			df - wc	1
				3 SEL Analytes: CL F SO4				
2201442-013C				OUTSIDE LAB			Chemtech-Ford	
2201442-013D				NH3-W-350.1			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				

WORK ORDER Summary

Work Order: **2201442** Page 6 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 2/4/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2201442-013E	MW-65_01192022	1/19/2022 1250h	1/21/2022 1340h	200.7-DIS	Aqueous	df-met	1
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
2201442-014A	Trip Blank	1/17/2022	1/21/2022 1340h	8260D-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			



**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.

2201442
AWAL Lab Sample Set #
Page 1 of 2

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:
-----------------------	--------------------------------------	--------------------------------------------------------------------------------------------------------------	------------------

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: **1st Quarter Ground Water 2022**
Project #: _____
PO #: _____
Sampler Name: **Tanner Holliday**

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)	Fl (4500 or 300.0)	Dissolved Beryllium (200.7/200.8)	Ammonia (350.1)	Dissolved Nickel (200.7/200.8)	Known Hazards & Sample Comments
1 MW-12_01202022	1/20/2022	915	1	W				X	X								
2 MW-27_01182022	1/18/2022	1425	1	W	X												
3 MW-28_01202022	1/20/2022	1100	3	W	X	X		X	X								
4 MW-29_01182022	1/18/2022	1400	1	W				X									
5 MW-32_01192022	1/19/2022	1200	1	W	X												
6																	
7																	
8																	
9																	
10																	
11																	
12																	

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: URS
 Shipped or hand delivered
 Ambient or chilled

Temperature: 1.0 °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

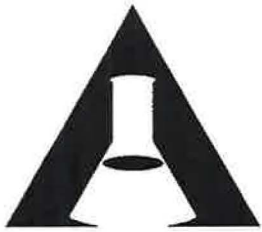
Unbroken on Outer Package
Y N NA

Present on Sample
Y N NA

Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N

Relinquished by: Signature: <u>Tanner Holliday</u>	Date: 1/20/2022	Received by: Signature: <u>Elmer Hays</u>	Date: 1/21/22	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: Elmer Hays	Time: 1340	
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:	



**American West
Analytical Laboratories**

463 W. 3600 S. Salt Lake City, UT 84115
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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.

2201442

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: **1st 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)	F1, 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	
											X Include EDD: LOCUS UPLOAD EXCEL X Field Filtered For: Dissolved Metals	
For Compliance With:											Known Hazards & Sample Comments	
<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:												
5/1	MW-11_01182022	1/18/2022	1045	7	W	x	x	x	x	x	x	
7/2	MW-14_01182022	1/18/2022	1015	7	W	x	x	x	x	x	x	
8/8	MW-25_01172022	1/17/2022	1125	7	W	x	x	x	x	x	x	
9/1	MW-26_01202022	1/20/2022	800	7	W	x	x	x	x	x	x	
10	MW-30_01172022	1/17/2022	1035	7	W	x	x	x	x	x	x	
11	MW-31_01192022	1/19/2022	1250	7	W	x	x	x	x	x	x	
12	MW-36_01172022	1/17/2022	1325	7	W	x	x	x	x	x	x	
13	MW-65_01192022	1/19/2022	1250	7	W	x	x	x	x	x	x	
14	TRIP BLANK			3	W						x	
15												
16												
17												
18												
19												
20												
21												
22												

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

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 1/20/2022	Received by: Signature <i>Elona Hays</i>	Date: 1/21/22	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: Elona Hays	Time: 1340	
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:	

Lab Set ID: 2201442
 pH Lot #: 6821

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	6	7	8	9	10	11	12	13					
Ammonia	pH <2 H ₂ SO ₄					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >10 NaOH																	
Metals	pH <2 HNO ₃	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
NO ₂ /NO ₃	pH <2 H ₂ SO ₄		Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
O & G	pH <2 HCL						Yes	Yes	Yes	Yes	Yes	Yes	Yes					
Phenols	pH <2 H ₂ SO ₄																	
Sulfide	pH >9 NaOH, ZnAC																	
TKN	pH <2 H ₂ SO ₄																	
T PO ₄	pH <2 H ₂ SO ₄																	
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																	

- Procedure:
- 1) Pour a small amount of sample in the sample lid
 - 2) Pour sample from lid gently over wide range pH paper
 - 3) **Do Not** dip the pH paper in the sample bottle or lid
 - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
 - 5) Flag COC, notify client if requested
 - 6) Place client conversation on COC
 - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- * The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.



Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 1st Quarter Ground Water 2022

Dear Tanner Holliday:

Lab Set ID: 2201511

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 1/28/2022 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha Date: 2022.02.21 10:38:57 -07'00'
--------------------------	---------------------------------------------------------------------------------

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201511
Date Received: 1/28/2022 1048h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2201511-001A	MW-24A_01262022	1/26/2022 1000h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201511-001B	MW-24A_01262022	1/26/2022 1000h	Aqueous	Analysis subcontracted to outside laboratory
2201511-001C	MW-24A_01262022	1/26/2022 1000h	Aqueous	Analysis subcontracted to outside laboratory
2201511-001D	MW-24A_01262022	1/26/2022 1000h	Aqueous	Ammonia, Aqueous
2201511-001D	MW-24A_01262022	1/26/2022 1000h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201511-001E	MW-24A_01262022	1/26/2022 1000h	Aqueous	Ion Balance
2201511-001E	MW-24A_01262022	1/26/2022 1000h	Aqueous	ICP Metals, Dissolved
2201511-001E	MW-24A_01262022	1/26/2022 1000h	Aqueous	ICPMS Metals, Dissolved
2201511-001E	MW-24A_01262022	1/26/2022 1000h	Aqueous	Mercury, Drinking Water Dissolved
2201511-002A	MW-24_01272022	1/27/2022 900h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201511-002B	MW-24_01272022	1/27/2022 900h	Aqueous	Analysis subcontracted to outside laboratory
2201511-002C	MW-24_01272022	1/27/2022 900h	Aqueous	Analysis subcontracted to outside laboratory
2201511-002D	MW-24_01272022	1/27/2022 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201511-002D	MW-24_01272022	1/27/2022 900h	Aqueous	Ammonia, Aqueous
2201511-002E	MW-24_01272022	1/27/2022 900h	Aqueous	Ion Balance
2201511-002E	MW-24_01272022	1/27/2022 900h	Aqueous	ICP Metals, Dissolved
2201511-002E	MW-24_01272022	1/27/2022 900h	Aqueous	ICPMS Metals, Dissolved
2201511-002E	MW-24_01272022	1/27/2022 900h	Aqueous	Mercury, Drinking Water Dissolved
2201511-003A	MW-38_01272022	1/27/2022 930h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201511-003B	MW-38_01272022	1/27/2022 930h	Aqueous	Analysis subcontracted to outside laboratory
2201511-003C	MW-38_01272022	1/27/2022 930h	Aqueous	Analysis subcontracted to outside laboratory
2201511-003D	MW-38_01272022	1/27/2022 930h	Aqueous	Ammonia, Aqueous
2201511-003D	MW-38_01272022	1/27/2022 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201511-003E	MW-38_01272022	1/27/2022 930h	Aqueous	ICP Metals, Dissolved
2201511-003E	MW-38_01272022	1/27/2022 930h	Aqueous	ICPMS Metals, Dissolved
2201511-003E	MW-38_01272022	1/27/2022 930h	Aqueous	Mercury, Drinking Water Dissolved



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2022
Lab Set ID: 2201511
Date Received: 1/28/2022 1048h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2201511-003E	MW-38_01272022	1/27/2022 930h	Aqueous	Ion Balance
2201511-004A	MW-39_01262022	1/26/2022 1220h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201511-004B	MW-39_01262022	1/26/2022 1220h	Aqueous	Analysis subcontracted to outside laboratory
2201511-004C	MW-39_01262022	1/26/2022 1220h	Aqueous	Analysis subcontracted to outside laboratory
2201511-004D	MW-39_01262022	1/26/2022 1220h	Aqueous	Ammonia, Aqueous
2201511-004D	MW-39_01262022	1/26/2022 1220h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201511-004E	MW-39_01262022	1/26/2022 1220h	Aqueous	ICP Metals, Dissolved
2201511-004E	MW-39_01262022	1/26/2022 1220h	Aqueous	ICPMS Metals, Dissolved
2201511-004E	MW-39_01262022	1/26/2022 1220h	Aqueous	Ion Balance
2201511-004E	MW-39_01262022	1/26/2022 1220h	Aqueous	Mercury, Drinking Water Dissolved
2201511-005A	MW-40_01252022	1/25/2022 1130h	Aqueous	VOA by GC/MS Method 8260D/5030C
2201511-005B	MW-40_01252022	1/25/2022 1130h	Aqueous	Analysis subcontracted to outside laboratory
2201511-005C	MW-40_01252022	1/25/2022 1130h	Aqueous	Analysis subcontracted to outside laboratory
2201511-005D	MW-40_01252022	1/25/2022 1130h	Aqueous	Ammonia, Aqueous
2201511-005D	MW-40_01252022	1/25/2022 1130h	Aqueous	Nitrite/Nitrate (as N), E353.2
2201511-005E	MW-40_01252022	1/25/2022 1130h	Aqueous	Ion Balance
2201511-005E	MW-40_01252022	1/25/2022 1130h	Aqueous	ICP Metals, Dissolved
2201511-005E	MW-40_01252022	1/25/2022 1130h	Aqueous	ICPMS Metals, Dissolved
2201511-005E	MW-40_01252022	1/25/2022 1130h	Aqueous	Mercury, Drinking Water Dissolved
2201511-006A	Trip Blank	1/25/2022 1130h	Aqueous	VOA by GC/MS Method 8260D/5030C

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client:
Contact:
Project:
Lab Set ID:

Energy Fuels Resources, Inc.
Tanner Holliday
1st Quarter Ground Water 2022
2201511

Sample Receipt Information:

Date of Receipt: 1/28/2022
Date of Collection: 1/25-1/27/2022
Sample Condition: Intact
C-O-C Discrepancies: None

3440 South 700 West
Salt Lake City, UT 84119

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination, with the following exception: Ammonia was observed above the reporting limit in MB-82011. The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentrations in the batch including samples 2201442-001, -002, -004, and -005.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
2201511-001D	Nitrate/Nitrite	MS	Sample matrix interference
2201511-003D	Ammonia	RPD	Sample matrix interference and/or suspected sample non-homogeneity
2201511-003E	Calcium	MSD	High analyte concentration
2201511-003E	Magnesium	MSD	High analyte concentration
2201511-003E	Sodium	MS/MSD	High analyte concentration

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.



Volatile Case Narrative

Client:
Contact:
Project:
Lab Set ID:

Energy Fuels Resources, Inc.
Tanner Holliday
1st Quarter Ground Water 2022
2201511

Sample Receipt Information:

Date of Receipt:	1/28/2022
Date of Collection:	1/25-1/27/2022
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260D/5030C
Analysis:	Volatile Organic Compounds

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

General Set Comments: One or more target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control, with the following exception: the LCS percent recovery for Tetrahydrofuran in LCS VOC-2 020122A was outside of the control limits indicating possible bias high. Data deemed acceptable as the analyte was not observed in the field samples.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: the RPD for Chloromethane on sample 2201511-001A was outside of the control limits due to suspected sample non-homogeneity or sample matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



3440 South 700 West
Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-81901		Date Analyzed: 02/07/2022 2150h											
Test Code: 200.7-DIS		Date Prepared: 01/31/2022 1131h											
Calcium	10.0	mg/L	E200.7	0.0313	1.00	10.00	0	100	85 - 115				
Magnesium	9.69	mg/L	E200.7	0.0140	0.100	10.00	0	96.9	85 - 115				
Potassium	9.86	mg/L	E200.7	0.183	1.00	10.00	0	98.6	85 - 115				
Sodium	9.83	mg/L	E200.7	0.257	1.00	10.00	0	98.3	85 - 115				
Vanadium	0.197	mg/L	E200.7	0.00148	0.00500	0.2000	0	98.6	85 - 115				
Lab Sample ID: LCS-81900		Date Analyzed: 01/31/2022 1858h											
Test Code: 200.8-DIS		Date Prepared: 01/31/2022 1131h											
Arsenic	0.197	mg/L	E200.8	0.000298	0.00200	0.2000	0	98.5	85 - 115				
Beryllium	0.199	mg/L	E200.8	0.000198	0.00200	0.2000	0	99.6	85 - 115				
Cadmium	0.205	mg/L	E200.8	0.0000742	0.000500	0.2000	0	103	85 - 115				
Chromium	0.207	mg/L	E200.8	0.000872	0.00200	0.2000	0	104	85 - 115				
Cobalt	0.205	mg/L	E200.8	0.000300	0.00400	0.2000	0	103	85 - 115				
Copper	0.208	mg/L	E200.8	0.00118	0.00200	0.2000	0	104	85 - 115				
Iron	1.03	mg/L	E200.8	0.0374	0.100	1.000	0	103	85 - 115				
Lead	0.198	mg/L	E200.8	0.000588	0.00200	0.2000	0	99.2	85 - 115				
Manganese	0.199	mg/L	E200.8	0.000990	0.00200	0.2000	0	99.4	85 - 115				
Molybdenum	0.207	mg/L	E200.8	0.000520	0.00200	0.2000	0	104	85 - 115				
Nickel	0.205	mg/L	E200.8	0.000600	0.00200	0.2000	0	102	85 - 115				
Selenium	0.194	mg/L	E200.8	0.000508	0.00200	0.2000	0	97.0	85 - 115				
Silver	0.195	mg/L	E200.8	0.000232	0.00200	0.2000	0	97.7	85 - 115				
Thallium	0.195	mg/L	E200.8	0.000238	0.00200	0.2000	0	97.6	85 - 115				
Tin	1.04	mg/L	E200.8	0.000968	0.00400	1.000	0	104	85 - 115				
Uranium	0.199	mg/L	E200.8	0.000512	0.00200	0.2000	0	99.5	85 - 115				
Zinc	1.01	mg/L	E200.8	0.00370	0.00600	1.000	0	101	85 - 115				

analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This



3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2201511

Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-81908	Date Analyzed:	02/01/2022	1045h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/31/2022	1104h										
Mercury	0.00339	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	102	85 - 115				



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-81901	Date Analyzed:	02/07/2022	2149h										
Test Code: 200.7-DIS	Date Prepared:	01/31/2022	1131h										
Calcium	< 1.00	mg/L	E200.7	0.0313	1.00								
Magnesium	< 0.100	mg/L	E200.7	0.0140	0.100								
Potassium	< 1.00	mg/L	E200.7	0.183	1.00								
Sodium	< 1.00	mg/L	E200.7	0.257	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00148	0.00500								
Lab Sample ID: MB-81900	Date Analyzed:	01/31/2022	1854h										
Test Code: 200.8-DIS	Date Prepared:	01/31/2022	1131h										
Arsenic	< 0.000500	mg/L	E200.8	0.0000745	0.000500								
Cadmium	< 0.000125	mg/L	E200.8	0.0000186	0.000125								
Chromium	< 0.000500	mg/L	E200.8	0.000218	0.000500								
Cobalt	< 0.00100	mg/L	E200.8	0.0000750	0.00100								
Copper	< 0.000500	mg/L	E200.8	0.000294	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00935	0.0250								
Manganese	< 0.000500	mg/L	E200.8	0.000248	0.000500								
Molybdenum	< 0.000500	mg/L	E200.8	0.000130	0.000500								
Nickel	< 0.000500	mg/L	E200.8	0.000150	0.000500								
Selenium	< 0.000500	mg/L	E200.8	0.000127	0.000500								
Silver	< 0.000500	mg/L	E200.8	0.0000580	0.000500								
Tin	< 0.00100	mg/L	E200.8	0.000242	0.00100								
Zinc	< 0.00150	mg/L	E200.8	0.000925	0.00150								
Lab Sample ID: MB-81900	Date Analyzed:	01/31/2022	2046h										
Test Code: 200.8-DIS	Date Prepared:	01/31/2022	1131h										
Iron	< 0.0100	mg/L	E200.8	0.00374	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000588	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.0000238	0.000200								



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2201511

Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-81900	Date Analyzed:	01/31/2022	2046h										
Test Code:	200.8-DIS	Date Prepared:	01/31/2022	1131h									
Uranium	< 0.000200	mg/L	E200.8	0.0000512	0.000200								
Lab Sample ID: MB-81900	Date Analyzed:	02/18/2022	1335h										
Test Code:	200.8-DIS	Date Prepared:	01/31/2022	1131h									
Beryllium	< 0.000500	mg/L	E200.8	0.0000494	0.000500								
Lab Sample ID: MB-81908	Date Analyzed:	02/01/2022	1043h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/31/2022	1104h									
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-003EMS													
Date Analyzed:		02/07/2022 2158h											
Test Code:		200.7-DIS											
Date Prepared:		01/31/2022 1131h											
Calcium	478	mg/L	E200.7	0.313	10.0	10.00	466	120	70 - 130				
Magnesium	187	mg/L	E200.7	0.140	1.00	10.00	176	110	70 - 130				
Sodium	433	mg/L	E200.7	2.57	10.0	10.00	420	132	70 - 130				
Lab Sample ID: 2201511-003EMS													
Date Analyzed:		02/07/2022 2216h											
Test Code:		200.7-DIS											
Date Prepared:		01/31/2022 1131h											
Potassium	45.3	mg/L	E200.7	0.183	1.00	10.00	33.5	118	70 - 130				
Vanadium	0.209	mg/L	E200.7	0.00148	0.00500	0.2000	0	105	70 - 130				
Lab Sample ID: 2201511-003EMS													
Date Analyzed:		01/31/2022 1922h											
Test Code:		200.8-DIS											
Date Prepared:		01/31/2022 1131h											
Arsenic	0.202	mg/L	E200.8	0.000298	0.00200	0.2000	0.000391	101	75 - 125				
Beryllium	0.195	mg/L	E200.8	0.000198	0.00200	0.2000	0	97.3	75 - 125				
Cadmium	0.203	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000105	102	75 - 125				
Chromium	0.200	mg/L	E200.8	0.000872	0.00200	0.2000	0	100	75 - 125				
Cobalt	0.200	mg/L	E200.8	0.000300	0.00400	0.2000	0	99.8	75 - 125				
Copper	0.195	mg/L	E200.8	0.00118	0.00200	0.2000	0	97.4	75 - 125				
Iron	0.998	mg/L	E200.8	0.0374	0.100	1.000	0	99.8	75 - 125				
Manganese	0.198	mg/L	E200.8	0.000990	0.00200	0.2000	0.00518	96.3	75 - 125				
Molybdenum	0.223	mg/L	E200.8	0.000520	0.00200	0.2000	0.00843	107	75 - 125				
Nickel	0.199	mg/L	E200.8	0.000600	0.00200	0.2000	0	99.7	75 - 125				
Selenium	0.336	mg/L	E200.8	0.000508	0.00200	0.2000	0.144	96.0	75 - 125				
Silver	0.188	mg/L	E200.8	0.000232	0.00200	0.2000	0	94.0	75 - 125				
Tin	1.08	mg/L	E200.8	0.000968	0.00400	1.000	0	108	75 - 125				
Zinc	1.01	mg/L	E200.8	0.00370	0.00600	1.000	0	101	75 - 125				



3440 South 700 West
Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001EMS	Date Analyzed:	02/01/2022	1053h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/31/2022	1104h										
Mercury	0.00332	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	99.6	85 - 115				

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-003EMSD													
Date Analyzed:		02/07/2022 2200h											
Test Code:		200.7-DIS											
Date Prepared:		01/31/2022 1131h											
Calcium	486	mg/L	E200.7	0.313	10.0	10.00	466	193	70 - 130	478	1.51	20	2
Magnesium	189	mg/L	E200.7	0.140	1.00	10.00	176	137	70 - 130	187	1.47	20	2
Sodium	435	mg/L	E200.7	2.57	10.0	10.00	420	159	70 - 130	433	0.607	20	2
Lab Sample ID: 2201511-003EMSD													
Date Analyzed:		02/07/2022 2217h											
Test Code:		200.7-DIS											
Date Prepared:		01/31/2022 1131h											
Potassium	46.1	mg/L	E200.7	0.183	1.00	10.00	33.5	126	70 - 130	45.3	1.78	20	
Vanadium	0.208	mg/L	E200.7	0.00148	0.00500	0.2000	0	104	70 - 130	0.209	0.782	20	
Lab Sample ID: 2201511-003EMSD													
Date Analyzed:		01/31/2022 1926h											
Test Code:		200.8-DIS											
Date Prepared:		01/31/2022 1131h											
Arsenic	0.202	mg/L	E200.8	0.000298	0.00200	0.2000	0.000391	101	75 - 125	0.202	0.0364	20	
Beryllium	0.192	mg/L	E200.8	0.000198	0.00200	0.2000	0	96.0	75 - 125	0.195	1.27	20	
Cadmium	0.203	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000105	102	75 - 125	0.203	0.0993	20	
Chromium	0.201	mg/L	E200.8	0.000872	0.00200	0.2000	0	101	75 - 125	0.2	0.501	20	
Cobalt	0.197	mg/L	E200.8	0.000300	0.00400	0.2000	0	98.7	75 - 125	0.2	1.10	20	
Copper	0.195	mg/L	E200.8	0.00118	0.00200	0.2000	0	97.7	75 - 125	0.195	0.274	20	
Iron	1.01	mg/L	E200.8	0.0374	0.100	1.000	0	101	75 - 125	0.998	0.969	20	
Manganese	0.198	mg/L	E200.8	0.000990	0.00200	0.2000	0.00518	96.5	75 - 125	0.198	0.266	20	
Molybdenum	0.219	mg/L	E200.8	0.000520	0.00200	0.2000	0.00843	105	75 - 125	0.223	1.62	20	
Nickel	0.196	mg/L	E200.8	0.000600	0.00200	0.2000	0	97.8	75 - 125	0.199	1.98	20	
Selenium	0.338	mg/L	E200.8	0.000508	0.00200	0.2000	0.144	97.0	75 - 125	0.336	0.582	20	
Silver	0.185	mg/L	E200.8	0.000232	0.00200	0.2000	0	92.5	75 - 125	0.188	1.57	20	
Tin	1.07	mg/L	E200.8	0.000968	0.00400	1.000	0	107	75 - 125	1.08	0.960	20	
Zinc	1.01	mg/L	E200.8	0.00370	0.00600	1.000	0	101	75 - 125	1.01	0.579	20	



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2201511

Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday

Dept: ME

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001EMSD	Date Analyzed:	02/01/2022	1055h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/31/2022	1104h										
Mercury	0.00328	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	98.4	85 - 115	0.00332	1.26	20	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-82011	Date Analyzed: 02/09/2022 1525h												
Test Code: NH3-W-350.1	Date Prepared: 02/09/2022 1237h												
Ammonia (as N)	1.96	mg/L	E350.1	0.0494	0.0500	2.000	0	97.9	90 - 110				
Lab Sample ID: LCS-82058	Date Analyzed: 02/14/2022 1620h												
Test Code: NH3-W-350.1	Date Prepared: 02/14/2022 1021h												
Ammonia (as N)	2.07	mg/L	E350.1	0.0494	0.0500	2.000	0	103	90 - 110				
Lab Sample ID: LCS-R161416	Date Analyzed: 02/09/2022 1229h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00541	0.0100	1.000	0	103	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2201511

Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday

Dept: WC

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-82011	Date Analyzed:	02/09/2022	1525h										
Test Code:	NH3-W-350.1	Date Prepared:	02/09/2022	1237h									
Ammonia (as N)	0.0655	mg/L	E350.1	0.0494	0.0500								B
Lab Sample ID: MB-82058	Date Analyzed:	02/14/2022	1619h										
Test Code:	NH3-W-350.1	Date Prepared:	02/14/2022	1021h									
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0494	0.0500								
Lab Sample ID: MB-R161416	Date Analyzed:	02/09/2022	1228h										
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.



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Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001DMS													
Date Analyzed: 02/09/2022 1527h													
Test Code: NH3-W-350.1													
Date Prepared: 02/09/2022 1237h													
Ammonia (as N)	2.22	mg/L	E350.1	0.0494	0.0500	2.000	0.125	105	90 - 110				
Lab Sample ID: 2201511-003DMS													
Date Analyzed: 02/14/2022 1622h													
Test Code: NH3-W-350.1													
Date Prepared: 02/14/2022 1021h													
Ammonia (as N)	2.15	mg/L	E350.1	0.0494	0.0500	2.000	0	107	90 - 110				
Lab Sample ID: 2201511-001DMS													
Date Analyzed: 02/09/2022 1231h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.2	mg/L	E353.2	0.0541	0.100	10.00	0.288	119	90 - 110				

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001DMSD	Date Analyzed: 02/09/2022 1528h												
Test Code: NH3-W-350.1	Date Prepared: 02/09/2022 1237h												
Ammonia (as N)	2.19	mg/L	E350.1	0.0494	0.0500	2.000	0.125	103	90 - 110	2.22	1.45	10	
Lab Sample ID: 2201511-003DMSD	Date Analyzed: 02/14/2022 1623h												
Test Code: NH3-W-350.1	Date Prepared: 02/14/2022 1021h												
Ammonia (as N)	1.83	mg/L	E350.1	0.0494	0.0500	2.000	0	91.6	90 - 110	2.15	16.0	10	@
Lab Sample ID: 2201511-001DMSD	Date Analyzed: 02/09/2022 1233h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.1	mg/L	E353.2	0.0541	0.100	10.00	0.288	108	90 - 110	12.2	9.44	10	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 020122A		Date Analyzed: 02/01/2022 1221h											
Test Code: 8260D-W-DEN100													
2-Butanone	27.4	µg/L	SW8260D	3.20	20.0	20.00	0	137	69 - 236				
Acetone	35.4	µg/L	SW8260D	1.49	20.0	20.00	0	177	36 - 198				
Benzene	21.6	µg/L	SW8260D	0.193	1.00	20.00	0	108	78 - 125				
Carbon tetrachloride	23.6	µg/L	SW8260D	0.668	1.00	20.00	0	118	66 - 143				
Chloroform	21.8	µg/L	SW8260D	0.310	1.00	20.00	0	109	74 - 120				
Chloromethane	17.6	µg/L	SW8260D	0.297	1.00	20.00	0	87.9	30 - 149				
Methylene chloride	21.2	µg/L	SW8260D	0.703	1.00	20.00	0	106	65 - 154				
Naphthalene	19.4	µg/L	SW8260D	1.16	1.00	20.00	0	97.1	55 - 128				
Tetrahydrofuran	30.8	µg/L	SW8260D	0.500	1.00	20.00	0	154	59 - 135				L
Toluene	21.5	µg/L	SW8260D	0.957	1.00	20.00	0	107	69 - 129				
Xylenes, Total	64.9	µg/L	SW8260D	0.558	1.00	60.00	0	108	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.3	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260D			50.00		97.9	85 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260D			50.00		99.1	78 - 132				
Surr: Toluene-d8	49.5	µg/L	SW8260D			50.00		99.0	81 - 123				

L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2201511

Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 020122A		Date Analyzed: 02/01/2022 1240h											
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	3.20	20.0								
Acetone	< 20.0	µg/L	SW8260D	1.49	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.193	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.668	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.310	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.297	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.703	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	1.16	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.500	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.957	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.558	1.00								
Surr: 1,2-Dichloroethane-d4	50.9	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260D			50.00		99.3	85 - 121				
Surr: Dibromofluoromethane	48.4	µg/L	SW8260D			50.00		96.7	78 - 132				
Surr: Toluene-d8	50.1	µg/L	SW8260D			50.00		100	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001AMS		Date Analyzed: 02/01/2022 1434h											
Test Code: 8260D-W-DEN100													
2-Butanone	17.6	µg/L	SW8260D	3.20	20.0	20.00	0	88.0	69 - 236				
Acetone	20.1	µg/L	SW8260D	1.49	20.0	20.00	0	100	36 - 198				
Benzene	19.6	µg/L	SW8260D	0.193	1.00	20.00	0	98.0	78 - 125				
Carbon tetrachloride	21.4	µg/L	SW8260D	0.668	1.00	20.00	0	107	66 - 143				
Chloroform	19.7	µg/L	SW8260D	0.310	1.00	20.00	0	98.3	74 - 120				
Chloromethane	16.6	µg/L	SW8260D	0.297	1.00	20.00	0	83.0	30 - 149				
Methylene chloride	19.4	µg/L	SW8260D	0.703	1.00	20.00	0	97.1	65 - 154				
Naphthalene	16.7	µg/L	SW8260D	1.16	1.00	20.00	0	83.6	55 - 128				
Tetrahydrofuran	19.0	µg/L	SW8260D	0.500	1.00	20.00	0	95.0	59 - 135				
Toluene	19.4	µg/L	SW8260D	0.957	1.00	20.00	0	97.2	69 - 129				
Xylenes, Total	57.8	µg/L	SW8260D	0.558	1.00	60.00	0	96.4	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.9	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	48.4	µg/L	SW8260D			50.00		96.7	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260D			50.00		98.5	78 - 132				
Surr: Toluene-d8	49.8	µg/L	SW8260D			50.00		99.6	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2201511
Project: 1st Quarter Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2201511-001AMSD		Date Analyzed: 02/01/2022 1453h											
Test Code: 8260D-W-DEN100													
2-Butanone	17.9	µg/L	SW8260D	3.20	20.0	20.00	0	89.4	69 - 236	17.6	1.64	35	
Acetone	21.0	µg/L	SW8260D	1.49	20.0	20.00	0	105	36 - 198	20.1	4.62	35	
Benzene	21.4	µg/L	SW8260D	0.193	1.00	20.00	0	107	78 - 125	19.6	8.68	35	
Carbon tetrachloride	22.6	µg/L	SW8260D	0.668	1.00	20.00	0	113	66 - 143	21.4	5.55	35	
Chloroform	21.2	µg/L	SW8260D	0.310	1.00	20.00	0	106	74 - 120	19.7	7.73	35	
Chloromethane	25.8	µg/L	SW8260D	0.297	1.00	20.00	0	129	30 - 149	16.6	43.4	35	@
Methylene chloride	21.7	µg/L	SW8260D	0.703	1.00	20.00	0	109	65 - 154	19.4	11.1	35	
Naphthalene	20.5	µg/L	SW8260D	1.16	1.00	20.00	0	103	55 - 128	16.7	20.5	35	
Tetrahydrofuran	21.0	µg/L	SW8260D	0.500	1.00	20.00	0	105	59 - 135	19	9.81	35	
Toluene	21.1	µg/L	SW8260D	0.957	1.00	20.00	0	106	69 - 129	19.4	8.28	35	
Xylenes, Total	64.3	µg/L	SW8260D	0.558	1.00	60.00	0	107	66 - 124	57.8	10.6	35	
Surr: 1,2-Dichloroethane-d4	51.4	µg/L	SW8260D			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	47.2	µg/L	SW8260D			50.00		94.5	85 - 121				
Surr: Dibromofluoromethane	48.4	µg/L	SW8260D			50.00		96.9	78 - 132				
Surr: Toluene-d8	48.8	µg/L	SW8260D			50.00		97.5	81 - 123				

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201442
Receipt: 1/24/22 14:08 @ 4.3 °C
Date Reported: 2/4/2022
Project Name: 1st 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

Chain of Custody

Client: American West Analytical Laboratories
 Address: 463 W. 3600 S.
 Salt Lake City, UT 84115
 Project Name: **1st Quarter Ground Water 2022**
 PO#: **2201442**

Contact: Elona Hayward
 Phone: (801) 263-8686
 Fax: (801) 263-8687
 Email: elona@awal-labs.com
denise@awal-labs.com

QC Level: 3 / EDD
 Turn Around Time
Standard

22A1301

Lab Use Only	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	tds (2540 C)	Carb/Bicarb (2320 B low level)	AP Client Cont.	Comments
01	MW-11_01182022	1/18/2022	10:48	1	aq	x	x		## call
02	MW-14_01182022	1/18/2022	10:15	1	aq	x	x		Fluoride was requested on MW-25_01172022 Per Kathy 1/20/2022
03	MW-25_01172022	1/17/2022	11:25	1	aq	x	x		Per Kathy 1/20/2022
04	MW-26_01202022	1/20/2022	8:00	1	aq	x	x		
05	MW-30_01172022	1/17/2022	10:35	1	aq	x	x		
06	MW-31_01192022	1/19/2022	12:50	1	aq	x	x		
07	MW-36_01172022	1/17/2022	13:25	1	aq	x	x		
08	MW-65_01192022	1/19/2022	12:50	1	aq	x	x		

Time sampled on 22A1301-01 corrected to 10:45

Appropriate

Laboratory Use Only	
Samples Were:	
1 Shipped or hand delivered	
2 Ambient or Chilled	
3 Temperature	4.3
4 Received Broken/Leaking (Improperly Sealed)	Y N
5 Properly Preserved	Y N
6 Received Within Holding Times	Y N
COC Tape Was:	
1 Present on Outer Package	Y N NA

Sample Receipt:

- Custody Seals
- Containers Intact
- COC/Labels Linked
- Received on Ice
- Correct Containers
- COC Included
- Complete
- Sample Volume OK
- Headspace Present (VOC)
- Temp Blank
- Within Hold Time

Checked by: CF
 Chem Conv

Special Instructions: Include project name and PO# on final report and invoice. Email results to both Denise and Elona.

Relinquished by: Signature <i>Elona Hayward</i>	Date: 1-24-22	Received by: Signature <i>Chris Roll</i>	Date: 1-24-22
Print Name: Elona Hayward	Time: 1408	Print Name: Chris Roll	Time: 1408
Relinquished by: Signature <i>Chris Roll</i>	Date: 1-24-22	Received by: Signature <i>Denise</i>	Date: 1-24-22
Print Name: Chris Roll	Time: 1440	Print Name: Denise	Time: 1410

QC Report for Work Order (WO) - 22A1301

Analyte

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

Blank - EPA 300.0

QC Sample ID: BWA0577-BLK1	Batch: BWA0577							
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride				ND			0.1	1.00

LCS - EPA 300.0

QC Sample ID: BWA0577-BS1	Batch: BWA0577							
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride	96.3	90 - 110		4.8		5.00	0.1	1.00

Matrix Spike - EPA 300.0

QC Sample ID: BWA0577-MS1	Batch: BWA0577	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride	89.2	80 - 120		1.1	0.07	1.11	0.1	1.00

QC Sample ID: BWA0577-MS2	Batch: BWA0577	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride	85.7	80 - 120		1.2	0.2	1.11	0.1	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWA0577-MSD1	Batch: BWA0577	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride	91.5	2.43	80 - 120	20	1.1	0.07	1.11	0.1

QC Sample ID: BWA0577-MSD2	Batch: BWA0577	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 01/25/2022	Date Analyzed: 01/25/2022							
Fluoride	103	15.3	80 - 120	20	1.4	0.2	1.11	0.1

Sample bottles received and NH3 and NO2/NO3 added -
DB

WORK ORDER Summary

Work Order: **2201511** Page 1 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 2/11/2022

Client ID: ENE300

Contact: Tanner Holliday

Project: 1st Quarter Ground Water 2022

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "**R_" samples as MS/MSD. All Wet Chem analysis sent to Chemtech. 2-8-22 - Sample bottle returned from Chemtech and NH3 and NO2/NO3 added.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2201511-001A	MW-24A_01262022	1/26/2022 1000h	1/28/2022 1048h	8260D-W-DEN100	Aqueous	VOCFridge	3
<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>							
2201511-001B				OUTSIDE LAB		df - wc	1
2201511-001C				OUTSIDE LAB		df - tds	
2201511-001D				NH3-W-350.1		df - no2/no3 & nh3	
<i>1 SEL Analytes: NH3N</i>							
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
<i>1 SEL Analytes: NO3NO2N</i>							
2201511-001E				200.7-DIS		df-met	
<i>5 SEL Analytes: CA MG K NA V</i>							
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>							
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
<i>1 SEL Analytes: HG</i>							
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>							
2201511-002A	MW-24_01272022	1/27/2022 0900h	1/28/2022 1048h	8260D-W-DEN100	Aqueous	VOCFridge	3
<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>							
2201511-002B				OUTSIDE LAB		df - wc	1
2201511-002C				OUTSIDE LAB		df - tds	
2201511-002D				NH3-W-350.1		df - no2/no3 & nh3	
<i>1 SEL Analytes: NH3N</i>							
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
<i>1 SEL Analytes: NO3NO2N</i>							

WORK ORDER Summary

Work Order: **2201511** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 2/11/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2201511-002E	MW-24_01272022	1/27/2022 0900h	1/28/2022 1048h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous	df-met	1
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
2201511-003A	MW-38_01272022	1/27/2022 0930h	1/28/2022 1048h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
2201511-003B				OUTSIDE LAB		df - wc	1
2201511-003C				OUTSIDE LAB		df - tds	
2201511-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
2201511-003E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
2201511-004A	MW-39_01262022	1/26/2022 1220h	1/28/2022 1048h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
2201511-004B				OUTSIDE LAB		df - wc	1
2201511-004C				OUTSIDE LAB		df - tds	
2201511-004D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	

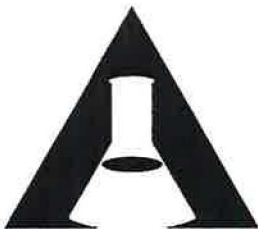
WORK ORDER Summary

Work Order: **2201511** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 2/11/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2201511-004D	MW-39_01262022	1/26/2022 1220h	1/28/2022 1048h	NH3-W-PR	Aqueous	df - no2/no3 & nh3	1
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
2201511-004E				1 SEL Analytes: NO3NO2N			
				200.7-DIS		df-met	
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				1 SEL Analytes: HG			
				HG-DW-DIS-PR		df-met	
2201511-005A	MW-40_01252022	1/25/2022 1130h	1/28/2022 1048h	IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
2201511-005B				8260D-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4			
2201511-005C				OUTSIDE LAB		df - wc	1
2201511-005D				OUTSIDE LAB		df - tds	
2201511-005E				NH3-W-350.1		df - no2/no3 & nh3	
				1 SEL Analytes: NH3N			
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N			
				200.7-DIS		df-met	
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
200.8-DIS-PR		df-met					
HG-DW-DIS-245.1		df-met					
1 SEL Analytes: HG							
HG-DW-DIS-PR		df-met					
IONBALANCE		df-met					
5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc							
2201511-006A	Trip Blank	1/25/2022 1130h	1/28/2022 1048h	8260D-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4			



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.

2201511
 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; kweinel@energyfuels.com**
 Project Name: **1st 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) Fl, 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, Ti, Sn, U, V, Zn, Na, K, Mg, Ca Ion Balance VOCs (8260C)							

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

Laboratory Use Only

Samples Were: UPS

- Shipped or hand delivered
- Ambient or Chilled
- Temperature 0.9c
- Received Broken/Leaking (Improperly Sealed)
Y (N)
- Properly Preserved
Y (N)
Checked at bench
Y (N)
- Received Within Holding Times
(Y) (N)

Sample ID:	Date Sampled	Time Sampled	# 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, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo,	Ni, Se, Ag, Ti, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1 MW-24A_01262022	1/26/2022	1000	7	W	x	x	x	x	x	x	x	x	x	x	
2 MW-24_01272022	1/27/2022	900	7	W	x	x	x	x	x	x	x	x	x	x	
3 MW-38_01272022	1/27/2022	930	7	W	x	x	x	x	x	x	x	x	x	x	
4 MW-39_01262022	1/26/2022	1220	7	W	x	x	x	x	x	x	x	x	x	x	
5 MW-40_01252022	1/25/2022	1130	7	W	x	x	x	x	x	x	x	x	x	x	
6 Trip Blank	1/25/2022	1130	3	W										x	
7															
8															
9															
10															
11															
12															

COC Tape Was:

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

Discrepancies Between Sample Labels and COC Record?
Y (N)

Relinquished by: Signature <u>Tanner Holliday</u>	Date: 1/27/2022	Received by: Signature <u>[Signature]</u>	Date:
Print Name: Tanner Holliday	Time: 1130	Print Name:	Time:
Relinquished by: Signature <u>[Signature]</u>	Date:	Received by: Signature <u>[Signature]</u>	Date: 1/28/22
Print Name:		Print Name: <u>[Signature]</u>	Time: 1048
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:		Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:		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.

Lab Set ID: 2201511

pH Lot #: 6810 6821

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5												
Ammonia	pH <2 H ₂ SO ₄																	
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >10 NaOH																	
Metals	pH <2 HNO ₃	Y	Y	Y	Y	Y												
NO ₂ /NO ₃	pH <2 H ₂ SO ₄																	
O & G	pH <2 HCL																	
Phenols	pH <2 H ₂ SO ₄																	
Sulfide	pH >9 NaOH, ZnAC																	
TKN	pH <2 H ₂ SO ₄																	
T PO ₄	pH <2 H ₂ SO ₄																	
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																	

- Procedure:
- 1) Pour a small amount of sample in the sample lid
 - 2) Pour sample from lid gently over wide range pH paper
 - 3) **Do Not** dip the pH paper in the sample bottle or lid
 - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
 - 5) Flag COC, notify client if requested
 - 6) Place client conversation on COC
 - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- * The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.



2/4/2022

Work Order: 22A1301
Project: 1st Quarter Ground Water 2022

American West Analytical Labs
Attn: Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

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:

Mark Broadhead, Project Manager



American West Analytical Labs

Project: 1st Quarter Ground Water 2022

Project Manager: Elona Hayward

<u>Laboratory ID</u>	<u>Sample Name</u>
22A1301-01	MW-11_01182022
22A1301-02	MW-14_01182022
22A1301-03	MW-25_01172022
22A1301-04	MW-26_01202022
22A1301-05	MW-30_01172022
22A1301-06	MW-31_01192022
22A1301-07	MW-36_01172022
22A1301-08	MW-65_01192022

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.

QC Report for Work Order (WO) - 22A1301

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - SM 2320 B

QC Sample ID: BWA0608-BLK1

Batch: BWA0608

Date Prepared: 01/26/2022

Date Analyzed: 01/26/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)					ND			1.0	1.00
Alkalinity - Total (as CaCO3)					ND			1.0	1.00

Duplicate - SM 2320 B

QC Sample ID: BWA0608-DUP1

Batch: BWA0608

QC Source Sample: 22A1301-01

Date Prepared: 01/26/2022

Date Analyzed: 01/26/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Alkalinity - Bicarbonate (as CaCO3)	3.08		20	280	272			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	3.08		20	280	272			1.0	1.00

LCS - SM 2320 B

QC Sample ID: BWA0608-BS1

Batch: BWA0608

Date Prepared: 01/26/2022

Date Analyzed: 01/26/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Alkalinity - Total (as CaCO3)	97.4		90 - 110	230			236	1.0	1.00

QC Report for Work Order (WO) - 22A1301

Analyte

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

Blank - SM 2540 C

QC Sample ID: BWA0560-BLK1	Batch: BWA0560							
Date Prepared: 01/24/2022	Date Analyzed: 01/24/2022							
Total Dissolved Solids (TDS)				ND			20	1.00

Duplicate - SM 2540 C

QC Sample ID: BWA0560-DUP1	Batch: BWA0560	QC Source Sample: 22A1301-01						
Date Prepared: 01/24/2022	Date Analyzed: 01/24/2022							
Total Dissolved Solids (TDS)	0.4	10	2060	2050			20	1.00

LCS - SM 2540 C

QC Sample ID: BWA0560-BS1	Batch: BWA0560							
Date Prepared: 01/24/2022	Date Analyzed: 01/24/2022							
Total Dissolved Solids (TDS)	102	90 - 110	408			400	20	1.00



2/21/2022

Work Order: 22A1649
Project: 1st Quarter Ground Water 2022

American West Analytical Labs
Attn: Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

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:

Mark Broadhead, Project Manager



American West Analytical Labs

Project: 1st Quarter Ground Water 2022

Project Manager: Elona Hayward

<u>Laboratory ID</u>	<u>Sample Name</u>
22A1649-01	MW-24A_01262022
22A1649-02	MW-24_01262022
22A1649-03	MW-38_01272022
22A1649-04	MW-39_01272022
22A1649-05	MW-40_01252022

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

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2201511
Receipt: 1/28/22 13:40 @ 5.0 °C
Date Reported: 2/21/2022
Project Name: 1st 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

Chain of Custody

Client: American West Analytical Laboratories
 Address: 463 W. 3600 S.
 Salt Lake City, UT 84115

Contact: Elona Hayward
 Phone: (801) 263-8686
 Fax: (801) 263-8687

Project Name: **1st Quarter Ground Water 2022**
 PO#: **2201511**

Email: elona@awal-labs.com
denise@awal-labs.com

QC Level: 3 / EDD

Turn Around Time

Standard

22A11049

Lab Use Only	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	tds (2540 C)	Carb/Bicarb (2320 B low level)	no2/no3 (353.2)	NH3 (4500 or 300.0)	Fl, Cl, SO4 (300.0 or 4500)	Comments
1	01 MW-24A_01262022	1/26/2022	10:00	3	aq	x	x	x	x	x	## special
2	02 MW-24_01272022	1/27/2022	9:00	3	aq	x	x	x	x	x	project, needs
3	03 MW-38_01272022	1/27/2022	9:30	3	aq	x	x	x	x	x	historicals
4	04 MW-39_01262022	1/26/2022	12:20	3	aq	x	x	x	x	x	see Melissa
5	05 MW-40_01172022	1/25/2022	11:30	3	aq	x	x	x	x	x	
6	-0/252022										
7											
8											
9											
10											
11											
12											
13											Sample sent to Chemtech-Ford
14											Appropriate Utah state certifications required.
15											

Laboratory Use Only

- Samples Were:
- Shipped or hand delivered
 - Ambient or Chilled
 - Temperature _____
 - Received Broken/Leaking (Improperly Sealed)
Y N
 - Properly Preserved
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

Special Instructions: **Include project name and PO# on final report and invoice. Email results to both Denise and Elona.**

Relinquished by: Signature <i>Elona Hayward</i>	Date: 1/28/22	Received by: Signature <i>Chloe Rhodes</i>	Date: 1/28/22
Print Name <i>Elona Hayward</i>	Time: 13:00	Print Name <i>Chloe Rhodes</i>	Time: 1340
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time:

QC Report for Work Order (WO) - 22A1649

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 300.0

QC Sample ID: BWA0734-BLK1	Batch: BWA0734								
Date Prepared: 01/29/2022	Date Analyzed: 01/29/2022								
Chloride					ND			1.0	1.00

QC Sample ID: BWA0766-BLK1	Batch: BWA0766								
Date Prepared: 01/31/2022	Date Analyzed: 02/01/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.1	1.00
Sulfate					ND			1.0	1.00

LCS - EPA 300.0

QC Sample ID: BWA0734-BS1	Batch: BWA0734								
Date Prepared: 01/29/2022	Date Analyzed: 01/29/2022								
Chloride	99.0	90 - 110		49.5		50.0		1.0	1.00

QC Sample ID: BWA0766-BS1	Batch: BWA0766								
Date Prepared: 01/31/2022	Date Analyzed: 02/01/2022								
Chloride	98.0	90 - 110		49.0		50.0		1.0	1.00
Fluoride	100	90 - 110		5.0		5.00		0.1	1.00
Sulfate	98.8	90 - 110		49.4		50.0		1.0	1.00

Matrix Spike - EPA 300.0

QC Sample ID: BWA0734-MS1	Batch: BWA0734		QC Source Sample: 22A1649-01						
Date Prepared: 01/29/2022	Date Analyzed: 01/29/2022								
Chloride	95.6	80 - 120		45.1	34.5	11.1		1.1	1.00
Sulfate		80 - 120		ND	ND	11.1		1.1	1.00

QM-05 - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The analytical batch was accepted based on the acceptable data provided by the Laboratory Control Sample(s) [LCS] and/or LCS Duplicates.

QC Sample ID: BWA0766-MS1	Batch: BWA0766		QC Source Sample: 22A1649-01						
Date Prepared: 01/31/2022	Date Analyzed: 02/03/2022								
Chloride	107	80 - 120		60.7	48.8	11.1		1.1	1.00
Fluoride	104	80 - 120		2.5	1.4	1.11		0.1	1.00
Sulfate	-24500	80 - 120		ND	2720	11.1		1.1	1.00

A-01 - The analyte concentration is an estimated value outside of the calibration range. The spike recovery was outside of limits due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS recoveries.

QC Sample ID: BWA0766-MS2	Batch: BWA0766		QC Source Sample: 22A1649-02						
Date Prepared: 01/31/2022	Date Analyzed: 02/03/2022								
Chloride	107	80 - 120		59.5	47.5	11.1		1.1	1.00
Fluoride	-90.3	80 - 120		ND	1.0	1.11		0.1	1.00
Sulfate	-27500	80 - 120		ND	3060	11.1		1.1	1.00

QM-05 - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The analytical batch was accepted based on the acceptable data provided by the Laboratory Control Sample(s) [LCS] and/or LCS Duplicates.

A-01 - The analyte concentration is an estimated value outside of the calibration range. The spike recovery was outside of limits due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS recoveries.

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWA0734-MSD1	Batch: BWA0734		QC Source Sample: 22A1649-01						
Date Prepared: 01/29/2022	Date Analyzed: 01/29/2022								
Chloride	91.2	1.08	80 - 120	20	44.6	34.5	11.1	1.1	1.00

QC Sample ID: BWA0766-MSD1	Batch: BWA0766		QC Source Sample: 22A1649-01						
Date Prepared: 01/31/2022	Date Analyzed: 02/03/2022								
Chloride	104	0.546	80 - 120	20	60.3	48.8	11.1	1.1	1.00

QC Report for Work Order (WO) - 22A1649

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Matrix Spike Dup - EPA 300.0 (cont.)

QC Sample ID: BWA0766-MSD1	Batch: BWA0766	QC Source Sample: 22A1649-01
Date Prepared: 01/31/2022	Date Analyzed: 02/02/2022	
Fluoride	106 0.936	80 - 120 20 2.6 1.4 1.11 0.1 1.00
Sulfate	-24500	80 - 120 20 ND 2720 11.1 1.1 1.00

A-01 - The analyte concentration is an estimated value outside of the calibration range. The spike recovery was outside of limits due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS recoveries.

QC Sample ID: BWA0766-MSD2	Batch: BWA0766	QC Source Sample: 22A1649-02
Date Prepared: 01/31/2022	Date Analyzed: 02/03/2022	
Chloride	-400 180	80 - 120 20 3.1 47.5 11.1 1.1 1.00
Fluoride	-90.3	80 - 120 20 ND 1.0 1.11 0.1 1.00
Sulfate	-27500	80 - 120 20 ND 3060 11.1 1.1 1.00

NR - No analyte requiring this QC element is included in this analytical bracket.

QM-05 - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The analytical batch was accepted based on the acceptable data provided by the Laboratory Control Sample(s) [LCS] and/or LCS Duplicates.

A-01 - The analyte concentration is an estimated value outside of the calibration range. The spike recovery was outside of limits due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS recoveries.

QC Report for Work Order (WO) - 22A1649

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

Blank - SM 2320 B

QC Sample ID: BWB0065-BLK1	Batch: BWB0065								
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)					ND			1.0	1.00
Alkalinity - Total (as CaCO3)					ND			1.0	1.00

QC Sample ID: BWB0066-BLK1	Batch: BWB0066								
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022								
Alkalinity - Total (as CaCO3)					ND			1.0	1.00

Duplicate - SM 2320 B

QC Sample ID: BWB0065-DUP1	Batch: BWB0065		QC Source Sample: 22A1649-01						
Date Prepared: 02/02/2022	Date Analyzed: 02/03/2022								
Alkalinity - Bicarbonate (as CaCO3)		20		ND	ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)		20		ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)		20		ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)		20		ND	ND			1.0	1.00

QC Sample ID: BWB0066-DUP1	Batch: BWB0066		QC Source Sample: 22A1649-02						
Date Prepared: 02/02/2022	Date Analyzed: 02/03/2022								
Alkalinity - Total (as CaCO3)		20		ND	ND			1.0	1.00

QC Sample ID: BWB0066-DUP2	Batch: BWB0066		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022								
Alkalinity - Total (as CaCO3)		0.713		20	83.8	84.4		1.0	1.00

LCS - SM 2320 B

QC Sample ID: BWB0065-BS1	Batch: BWB0065								
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022								
Alkalinity - Total (as CaCO3)		94.7	90 - 110		224		236	1.0	1.00

QC Sample ID: BWB0066-BS1	Batch: BWB0066								
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022								
Alkalinity - Total (as CaCO3)		96.7	90 - 110		228		236	1.0	1.00

QC Report for Work Order (WO) - 22A1649

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - SM 2540 C

QC Sample ID: BWA0760-BLK1	Batch: BWA0760							
Date Prepared: 01/31/2022	Date Analyzed: 01/31/2022							
Total Dissolved Solids (TDS)				ND			10	1.00
QC Sample ID: BWB0034-BLK1	Batch: BWB0034							
Date Prepared: 02/01/2022	Date Analyzed: 02/01/2022							
Total Dissolved Solids (TDS)				ND			10	1.00
QC Sample ID: BWB0087-BLK1	Batch: BWB0087							
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022							
Total Dissolved Solids (TDS)				ND			10	1.00

Duplicate - SM 2540 C

QC Sample ID: BWA0760-DUP1	Batch: BWA0760	QC Source Sample: 22A1649-01						
Date Prepared: 01/31/2022	Date Analyzed: 01/31/2022							
Total Dissolved Solids (TDS)	1	10	4110	4160			20	1.00
QC Sample ID: BWA0760-DUP2	Batch: BWA0760	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 01/31/2022	Date Analyzed: 01/31/2022							
Total Dissolved Solids (TDS)	1	10	3660	3700			20	1.00
QC Sample ID: BWB0034-DUP1	Batch: BWB0034	QC Source Sample: 22A1649-02						
Date Prepared: 02/01/2022	Date Analyzed: 02/01/2022							
Total Dissolved Solids (TDS)	1	10	4200	4140			20	1.00
QC Sample ID: BWB0034-DUP2	Batch: BWB0034	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 02/01/2022	Date Analyzed: 02/01/2022							
Total Dissolved Solids (TDS)	0	10	1940	1940			20	1.00
QC Sample ID: BWB0087-DUP1	Batch: BWB0087	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022							
Total Dissolved Solids (TDS)	2	10	1310	1280			20	1.00
QC Sample ID: BWB0087-DUP2	Batch: BWB0087	QC Source Sample: XXXXXXXX-XX						
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022							
Total Dissolved Solids (TDS)	5	10	3470	3640			20	1.00

LCS - SM 2540 C

QC Sample ID: BWA0760-BS1	Batch: BWA0760							
Date Prepared: 01/31/2022	Date Analyzed: 01/31/2022							
Total Dissolved Solids (TDS)	103	90 - 110	412			400	20	1.00
QC Sample ID: BWB0034-BS1	Batch: BWB0034							
Date Prepared: 02/01/2022	Date Analyzed: 02/01/2022							
Total Dissolved Solids (TDS)	101	90 - 110	404			400	20	1.00
QC Sample ID: BWB0087-BS1	Batch: BWB0087							
Date Prepared: 02/02/2022	Date Analyzed: 02/02/2022							
Total Dissolved Solids (TDS)	100	90 - 110	400			400	20	1.00



February 21, 2022

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

Re: White Mesa Mill GW
Work Order: 568395

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 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,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 568395

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 568395**

February 21, 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 January 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>
568395001	MW-11_01182022
568395002	MW-14_01182022
568395003	MW-25_01172022
568395004	MW-26_01202022
568395005	MW-30_01172022
568395006	MW-31_01192022
568395007	MW-36_01172022
568395008	MW-65_01192022

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 "Grace Bodiford". The script is cursive and somewhat stylized.

Grace Bodiford for
Julie Robinson
Project Manager

568395



CHAIN OF CUSTODY

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
Q1 Ground Water 2022	Tanner Holliday		
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11 01182022	1/18/2022	1045	Gross Alpha
MW-14 01182022	1/18/2022	1015	Gross Alpha
MW-25 01172022	1/17/2022	1125	Gross Alpha
MW-26 01202022	1/20/2022	800	Gross Alpha
MW-30 01172022	1/17/2022	1035	Gross Alpha
MW-31 01192022	1/19/2022	1250	Gross Alpha
MW-36 01172022	1/17/2022	1325	Gross Alpha
MW-65 01192022	1/19/2022	1250	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) 	Date/Time 1/20/2022 1100	Received By:(Signature) 	Date/Time 1-25-22 1015
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time



SAMPLE RECEIPT & REVIEW FORM

572

Client: DNMI SDG/AR/COC/Work Order: 548395

Received By: BE Date Received: 1-25-22

Carrier and Tracking Number
Circle applicable:
FedEx Express FedEx Ground DPS Field Services Courier Other
1Z 187 44Y 12 9546 0857

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? 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): 0 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. 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? Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

2 Chain of custody documents included with shipment? Circle Applicable: Client contacted and provided COC COC created upon receipt

3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?* Preservation Method: Wet Ice Ice Packs Dry Ice None Other: TEMP: 11

4 Daily check performed and passed on IR temperature gun? Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):

5 Sample containers intact and sealed? Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

6 Samples requiring chemical preservation at proper pH? Sample ID's and Containers Affected: If Preservation added, Lot#:

7 Do any samples require Volatile Analysis? 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? ID's and tests affected:

9 Sample ID's on COC match ID's on bottles? ID's and containers affected:

10 Date & time on COC match date & time on bottles? 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? Circle Applicable: No container count on COC Other (describe)

12 Are sample containers identifiable as GEL provided by use of GEL labels?

13 COC form is properly signed in relinquished/received sections? Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 21-FEB-22

Work Order: 568395

Page 1 of 2

GEL Work Order/SDG: 568395 Q1 Ground Water 2022
 Client SDG: 568395
 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-FEB-22
 Package Due Date: 22-FEB-22
 EDD Due Date: 22-FEB-22
 Due Date: 22-FEB-22
 GB1

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
568395001	MW-11_01182022		18-JAN-22 10:45	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395002	MW-14_01182022		18-JAN-22 10:15	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395003	MW-25_01172022		17-JAN-22 11:25	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395004	MW-26_01202022		20-JAN-22 08:00	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395005	MW-30_01172022		17-JAN-22 10:35	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395006	MW-31_01192022		19-JAN-22 12:50	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395007	MW-36_01172022		17-JAN-22 13:25	25-JAN-22 10:15	-2	1	GROUND WATER		20		1		
568395008	MW-65_01192022		19-JAN-22 12:50	25-JAN-22 10:15	-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_01182022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-14_01182022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-25_01172022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-26_01202022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-30_01172022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-31_01192022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-36_01172022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-65_01192022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

GEL Laboratories LLC – Login Review Report

Report Date: 21-FEB-22

Work Order: 568395

Page 2 of 2

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 **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? _____

List of current GEL Certifications as of 21 February 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 568395**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

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

Analytical Batch: 2225007

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
568395001	MW-11_01182022
568395002	MW-14_01182022
568395003	MW-25_01172022
568395004	MW-26_01202022
568395005	MW-30_01172022
568395006	MW-31_01192022
568395007	MW-36_01172022
568395008	MW-65_01192022
1205011099	Method Blank (MB)
1205011100	568395001(MW-11_01182022) Sample Duplicate (DUP)
1205011101	568395001(MW-11_01182022) Matrix Spike (MS)
1205011102	568395001(MW-11_01182022) Matrix Spike Duplicate (MSD)
1205011103	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.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1205011101 (MW-11_01182022MS) and 1205011102 (MW-11_01182022MSD), aliquots were reduced to conserve sample volume.

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: 568395 GEL Work Order: 568395

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: Kate Gellatly

Date: 22 FEB 2022

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 22, 2022

Page 1 of

Energy Fuels Resources (USA), Inc.

225 Union Boulevard

Suite 600

Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 568395

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2225007										
QC1205011100	568395001	DUP									
Gross Radium Alpha	U	0.214	U	0.300	pCi/L	N/A		N/A	JXC9	02/21/22	07:3
	Uncertainty	+/-0.211		+/-0.154							
QC1205011103	LCS										
Gross Radium Alpha	527			453	pCi/L		86.1	(75%-125%)		02/21/22	07:3
	Uncertainty			+/-4.57							
QC1205011099	MB										
Gross Radium Alpha			U	0.146	pCi/L					02/21/22	07:3
	Uncertainty			+/-0.143							
QC1205011101	568395001	MS									
Gross Radium Alpha	2130	U	0.214	1820	pCi/L		85.5	(75%-125%)		02/21/22	07:3
	Uncertainty		+/-0.211	+/-18.9							
QC1205011102	568395001	MSD									
Gross Radium Alpha	2100	U	0.214	1990	pCi/L	8.58	94.4	(0%-20%)		02/21/22	07:3
	Uncertainty		+/-0.211	+/-20.6							

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: 568395

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 either the sample or 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.



February 21, 2022

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

Re: White Mesa Mill GW
Work Order: 569062

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 01, 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,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 569062

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 569062**

February 21, 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 February 01, 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.

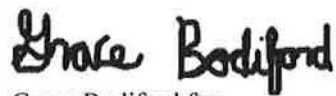
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
569062001	MW-24A_01262022
569062002	MW-24_01272022
569062003	MW-38_01272022
569062004	MW-39_01262022
569062005	MW-40_01252022

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 "Grace Bodiford". The signature is written in a cursive style with a large initial "G".

Grace Bodiford for
Julie Robinson
Project Manager

JAR

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DNMS</u>		SDG/AR/COC/Work Order: <u>569-062</u>	
Received By: <u>DC</u>		Date Received: <u>2-1-22</u>	
Carrier and Tracking Number		FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other <u>1Z187Y471292928205</u>	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Receipt Criteria		Yes	NA
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8 Samples received within holding time?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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"/>
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials NRG Date 2/2/22 Page 1 of 1

GEL Laboratories LLC – Login Review Report

Report Date: 21-FEB-22

Work Order: 569062

Page 1 of 2

GEL Work Order/SDG: 569062 Q1 Ground Water 2022
 Client SDG: 569062
 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: 01-MAR-22
 Package Due Date: 01-MAR-22
 EDD Due Date: 01-MAR-22
 Due Date: 01-MAR-22
 NG1

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
569062001	MW-24A_01262022		26-JAN-22 10:00	01-FEB-22 10:05	-2	1	GROUND WATER		20		1		
569062002	MW-24_01272022		27-JAN-22 09:00	01-FEB-22 10:05	-2	1	GROUND WATER		20		1		
569062003	MW-38_01272022		27-JAN-22 09:30	01-FEB-22 10:05	-2	1	GROUND WATER		20		1		
569062004	MW-39_01262022		26-JAN-22 12:20	01-FEB-22 10:05	-2	1	GROUND WATER		20		1		
569062005	MW-40_01252022		25-JAN-22 11:30	01-FEB-22 10:05	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-24A_01262022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-24_01272022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-38_01272022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-39_01262022	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-40_01252022	REVV	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 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

GEL Laboratories LLC – Login Review Report

Report Date: 21-FEB-22

Work Order: 569062

Page 2 of 2

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? _____

List of current GEL Certifications as of 21 February 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 569062**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

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

Analytical Batch: 2225007

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569062001	MW-24A_01262022
569062002	MW-24_01272022
569062003	MW-38_01272022
569062004	MW-39_01262022
569062005	MW-40_01252022
1205011099	Method Blank (MB)
1205011100	568395001(MW-11_01182022) Sample Duplicate (DUP)
1205011101	568395001(MW-11_01182022) Matrix Spike (MS)
1205011102	568395001(MW-11_01182022) Matrix Spike Duplicate (MSD)
1205011103	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.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1205011101 (MW-11_01182022MS) and 1205011102 (MW-11_01182022MSD), aliquots were reduced to conserve sample volume.

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: 569062 GEL Work Order: 569062

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: Kenshalla Oston

Date: 28 FEB 2022

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 28, 2022

Page 1 of

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

Contact: Ms. Kathy Weinel

Workorder: 569062

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2225007										
QC1205011100	568395001	DUP									
Gross Radium Alpha		U	0.214	U	0.300	pCi/L	N/A		N/A	JXC9	02/21/22 07:3
		Uncertainty	+/-0.211		+/-0.154						
QC1205011103	LCS										
Gross Radium Alpha	527				453	pCi/L	86.1	(75%-125%)			02/21/22 07:3
		Uncertainty			+/-4.57						
QC1205011099	MB										
Gross Radium Alpha			U	0.146	0.146	pCi/L					02/21/22 07:3
		Uncertainty		+/-0.143							
QC1205011101	568395001	MS									
Gross Radium Alpha	2130	U	0.214		1820	pCi/L	85.5	(75%-125%)			02/21/22 07:3
		Uncertainty	+/-0.211		+/-18.9						
QC1205011102	568395001	MSD									
Gross Radium Alpha	2100	U	0.214		1990	pCi/L	8.58	94.4	(0%-20%)		02/21/22 07:3
		Uncertainty	+/-0.211		+/-20.6						

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: 569062

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 either the sample or 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

February 2022



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-001
Client Sample ID: MW-11_02082022
Collection Date: 2/8/2022 1200h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	2/14/2022 1313h	2/15/2022 922h	E200.8	0.0100	0.233	

Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com
 web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-11_02082022

Matrix: Water

Lab ID: 22B0951-01

Date Sampled: 2/8/22 12:00

Sampled By: Client

	<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	57.2	mg/L	1.0	EPA 300.0	2/15/22	2/16/22	
Sulfate	1240	mg/L	20.0	EPA 300.0	2/17/22	2/17/22	
Total Dissolved Solids (TDS)	1900	mg/L	20	SM 2540 C	2/14/22	2/14/22	



Chemtech-Ford Laboratories

Serving the Intermountain West Since 1953

9632 South 500 West
Sandy, UT 84070
O: (801) 262-7299 F: (866) 792-0093
www.ChemtechFord.com



Certificate of Analysis

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-25_02092022

Matrix: Water

Lab ID: 22B0951-02

Date Sampled: 2/9/22 11:05

Sampled By: Client

	<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)	2690	mg/L	20	SM 2540 C	2/14/22	2/14/22	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-003
Client Sample ID: MW-26_02092022
Collection Date: 2/9/2022 1230h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		2/15/2022 1229h	E353.2	0.100	0.367	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-003C
Client Sample ID: MW-26_02092022
Collection Date: 2/9/2022 1230h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/16/2022 1121h **Extracted:**
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	1,580	

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	5,410	5,000	108	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	4,870	5,000	97.4	85-121	
Surr: Dibromofluoromethane		1868-53-7	4,670	5,000	93.4	78-132	
Surr: Toluene-d8		2037-26-5	4,840	5,000	96.8	81-123	

The reporting limits were raised due to high analyte concentrations.

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
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Jose Rocha
QA Officer

Certificate of Analysis

American West Analytical Labs
Elona Hayward
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Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-26_02092022

Matrix: Water

Lab ID: 22B0951-03

Date Sampled: 2/9/22 12:30

Sampled By: Client

	<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	58.6	mg/L	1.0	EPA 300.0	2/15/22	2/15/22	
Total Dissolved Solids (TDS)	2980	mg/L	20	SM 2540 C	2/15/22	2/15/22	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-004
Client Sample ID: MW-30_02092022
Collection Date: 2/9/2022 1040h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	2/14/2022 1313h	2/15/2022 926h	E200.8	0.00500	0.0577	
Uranium	mg/L	2/14/2022 1313h	2/15/2022 959h	E200.8	0.000300	0.0103	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

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Fax: (801) 263-8687

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web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-004
Client Sample ID: MW-30_02092022
Collection Date: 2/9/2022 1040h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Nitrate/Nitrite (as N)	mg/L		2/15/2022 1230h	E353.2	0.100	13.6	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

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web: www.awal-labs.com

Jennifer Osborn

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QA Officer

Certificate of Analysis

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Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-30_02092022

Matrix: Water

Lab ID: 22B0951-04

Date Sampled: 2/9/22 10:40

Sampled By: Client

	<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	184	mg/L	5.0	EPA 300.0	2/15/22	2/15/22	
Total Dissolved Solids (TDS)	1640	mg/L	20	SM 2540 C	2/14/22	2/14/22	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-005
Client Sample ID: MW-31_02082022
Collection Date: 2/8/2022 1320h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	2/14/2022 1313h	2/15/2022 1003h	E200.8	0.000300	0.0221	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-005
Client Sample ID: MW-31_02082022
Collection Date: 2/8/2022 1320h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Nitrate/Nitrite (as N)	mg/L		2/15/2022 1231h	E353.2	0.100	13.5	

3440 South 700 West

Salt Lake City, UT 84119

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Jennifer Osborn

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American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-31_02082022

Matrix: Water

Lab ID: 22B0951-05

Date Sampled: 2/8/22 13:20

Sampled By: Client

	<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	379	mg/L	5.0	EPA 300.0	2/15/22	2/15/22	
Sulfate	1250	mg/L	20.0	EPA 300.0	2/17/22	2/17/22	
Total Dissolved Solids (TDS)	2680	mg/L	20	SM 2540 C	2/14/22	2/14/22	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-006
Client Sample ID: MW-65_02092022
Collection Date: 2/9/2022 1230h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	2/14/2022 1313h	2/15/2022 1011h	E200.8	0.00500	0.0576	
Uranium	mg/L	2/14/2022 1313h	2/15/2022 1011h	E200.8	0.000300	0.0107	

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-006
Client Sample ID: MW-65_02092022
Collection Date: 2/9/2022 1230h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		2/15/2022 1232h	E353.2	0.100	14.8	1

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

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web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



Certificate of Analysis

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3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February Ground Water 2022

Sample ID: MW-65_02092022

Matrix: Water

Lab ID: 22B0951-06

Date Sampled: 2/9/22 12:30

Sampled By: Client

	<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	187	mg/L	5.0	EPA 300.0	2/15/22	2/15/22	
Total Dissolved Solids (TDS)	1650	mg/L	20	SM 2540 C	2/15/22	2/15/22	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Sample ID: 2202144-007A
Client Sample ID: Trip Blank
Collection Date: 2/9/2022 1230h
Received Date: 2/11/2022 1115h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/14/2022 1319h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.0	50.00	110	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	49.1	50.00	98.2	85-121	
Surr: Dibromofluoromethane		1868-53-7	46.6	50.00	93.3	78-132	
Surr: Toluene-d8		2037-26-5	48.7	50.00	97.4	81-123	

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: February Ground Water 2022

Dear Tanner Holliday:

Lab Set ID: 2202144

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

American West Analytical Laboratories received sample(s) on 2/11/2022 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha
	Date: 2022.02.24 13:06:23 -07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2022
Lab Set ID: 2202144
Date Received: 2/11/2022 1115h

Contact: Tanner Holliday

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2202144-001A	MW-11_02082022	2/8/2022 1200h	Aqueous	ICPMS Metals, Dissolved
2202144-001B	MW-11_02082022	2/8/2022 1200h	Aqueous	Analysis subcontracted to outside laboratory
2202144-002A	MW-25_02092022	2/9/2022 1105h	Aqueous	Analysis subcontracted to outside laboratory
2202144-003A	MW-26_02092022	2/9/2022 1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
2202144-003B	MW-26_02092022	2/9/2022 1230h	Aqueous	Analysis subcontracted to outside laboratory
2202144-003C	MW-26_02092022	2/9/2022 1230h	Aqueous	VOA by GC/MS Method 8260D/5030C
2202144-004A	MW-30_02092022	2/9/2022 1040h	Aqueous	ICPMS Metals, Dissolved
2202144-004B	MW-30_02092022	2/9/2022 1040h	Aqueous	Analysis subcontracted to outside laboratory
2202144-004C	MW-30_02092022	2/9/2022 1040h	Aqueous	Nitrite/Nitrate (as N), E353.2
2202144-005A	MW-31_02082022	2/8/2022 1320h	Aqueous	ICPMS Metals, Dissolved
2202144-005B	MW-31_02082022	2/8/2022 1320h	Aqueous	Analysis subcontracted to outside laboratory
2202144-005C	MW-31_02082022	2/8/2022 1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
2202144-006A	MW-65_02092022	2/9/2022 1230h	Aqueous	ICPMS Metals, Dissolved
2202144-006B	MW-65_02092022	2/9/2022 1230h	Aqueous	Analysis subcontracted to outside laboratory
2202144-006C	MW-65_02092022	2/9/2022 1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
2202144-007A	Trip Blank	2/9/2022 1230h	Aqueous	VOA by GC/MS Method 8260D/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: February Ground Water 2022
Lab Set ID: 2202144

Sample Receipt Information:

Date of Receipt: 2/11/2022
Date of Collection: 2/8/2022-2/9/2022
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
2202144-006C	Nitrate/Nitrite	MS/MSD	Sample matrix interference

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: February Ground Water 2022
Lab Set ID: 2202144

Sample Receipt Information:

Date of Receipt: 2/11/2022
Date of Collection: 2/8/2022-2/9/2022
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

General Set Comments: One or more target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



3440 South 700 West

Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-82061	Date Analyzed: 02/15/2022 918h												
Test Code: 200.8-DIS	Date Prepared: 02/14/2022 1313h												
Manganese	0.200	mg/L	E200.8	0.000990	0.00200	0.2000	0	100	85 - 115				
Selenium	0.198	mg/L	E200.8	0.000508	0.00200	0.2000	0	99.2	85 - 115				
Uranium	0.204	mg/L	E200.8	0.000512	0.00200	0.2000	0	102	85 - 115				



3440 South 700 West

Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2202144

Project: February Ground Water 2022

Contact: Tanner Holliday

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-82061	Date Analyzed:	02/15/2022	914h										
Test Code: 200.8-DIS	Date Prepared:	02/14/2022	1313h										
Manganese	< 0.000200	mg/L	E200.8	0.0000990	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.0000508	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000512	0.000200								



3440 South 700 West

Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2202144

Project: February Ground Water 2022

Contact: Tanner Holliday

Dept: ME

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-004AMS	Date Analyzed:	02/15/2022 938h											
Test Code: 200.8-DIS	Date Prepared:	02/14/2022 1313h											
Manganese	0.207	mg/L	E200.8	0.000990	0.00200	0.2000	0.00774	99.6	75 - 125				
Selenium	0.251	mg/L	E200.8	0.000508	0.00200	0.2000	0.0577	96.7	75 - 125				
Uranium	0.216	mg/L	E200.8	0.000512	0.00200	0.2000	0.0104	103	75 - 125				



3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-004AMSD	Date Analyzed: 02/15/2022 942h												
Test Code: 200.8-DIS	Date Prepared: 02/14/2022 1313h												
Manganese	0.207	mg/L	E200.8	0.000990	0.00200	0.2000	0.00774	99.8	75 - 125	0.207	0.139	20	
Selenium	0.254	mg/L	E200.8	0.000508	0.00200	0.2000	0.0577	98.2	75 - 125	0.251	1.16	20	
Uranium	0.212	mg/L	E200.8	0.000512	0.00200	0.2000	0.0104	101	75 - 125	0.216	1.48	20	



3440 South 700 West

Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2202144

Project: February Ground Water 2022

Contact: Tanner Holliday

Dept: WC

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R161508	Date Analyzed: 02/15/2022 1227h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00541	0.0100	1.000	0	108	90 - 110				



3440 South 700 West
 Salt Lake City, UT 84119
 Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
 Laboratory Director

Jose Rocha
 QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R161508	Date Analyzed: 02/15/2022 1226h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-006CMS	Date Analyzed: 02/15/2022 1237h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	38.1	mg/L	E353.2	0.108	0.200	20.00	14.8	117	90 - 110				t

^t - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-006CMSD	Date Analyzed: 02/15/2022 1238h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	37.5	mg/L	E353.2	0.108	0.200	20.00	14.8	114	90 - 110	38.1	1.53	10	¹

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Salt Lake City, UT 84119

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 021422A Date Analyzed: 02/14/2022 736h													
Test Code: 8260D-W-DEN100													
Chloroform	22.1	µg/L	SW8260D	0.310	1.00	20.00	0	111	74 - 120				
Surr: 1,2-Dichloroethane-d4	53.9	µg/L	SW8260D			50.00		108	80 - 136				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260D			50.00		96.0	85 - 121				
Surr: Dibromofluoromethane	48.2	µg/L	SW8260D			50.00		96.4	78 - 132				
Surr: Toluene-d8	47.9	µg/L	SW8260D			50.00		95.8	81 - 123				
Lab Sample ID: LCS VOC-2 021622A Date Analyzed: 02/16/2022 1028h													
Test Code: 8260D-W-DEN100													
Chloroform	21.8	µg/L	SW8260D	0.310	1.00	20.00	0	109	74 - 120				
Surr: 1,2-Dichloroethane-d4	52.9	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	45.3	µg/L	SW8260D			50.00		90.6	85 - 121				
Surr: Dibromofluoromethane	45.6	µg/L	SW8260D			50.00		91.3	78 - 132				
Surr: Toluene-d8	46.1	µg/L	SW8260D			50.00		92.1	81 - 123				



American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 021422A		Date Analyzed: 02/14/2022 755h											
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.310	1.00								
Surr: 1,2-Dichloroethane-d4	54.4	µg/L	SW8260D			50.00		109	80 - 136				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260D			50.00		98.8	85 - 121				
Surr: Dibromofluoromethane	48.1	µg/L	SW8260D			50.00		96.1	78 - 132				
Surr: Toluene-d8	48.8	µg/L	SW8260D			50.00		97.7	81 - 123				
Lab Sample ID: MB VOC-2 021622A		Date Analyzed: 02/16/2022 1048h											
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.310	1.00								
Surr: 1,2-Dichloroethane-d4	54.2	µg/L	SW8260D			50.00		108	80 - 136				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260D			50.00		99.3	85 - 121				
Surr: Dibromofluoromethane	46.3	µg/L	SW8260D			50.00		92.7	78 - 132				
Surr: Toluene-d8	48.7	µg/L	SW8260D			50.00		97.4	81 - 123				



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Jose Rocha
 QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2202144
Project: February Ground Water 2022

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-003CMS		Date Analyzed: 02/16/2022 1200h											
Test Code: 8260D-W-DEN100													
Chloroform	3,800	µg/L	SW8260D	31.0	100	2,000	1580	111	74 - 120				
Surr: 1,2-Dichloroethane-d4	5,330	µg/L	SW8260D			5,000		107	80 - 136				
Surr: 4-Bromofluorobenzene	4,630	µg/L	SW8260D			5,000		92.6	85 - 121				
Surr: Dibromofluoromethane	4,580	µg/L	SW8260D			5,000		91.5	78 - 132				
Surr: Toluene-d8	4,640	µg/L	SW8260D			5,000		92.8	81 - 123				



3440 South 700 West

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2202144

Project: February Ground Water 2022

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202144-003CMSD	Date Analyzed: 02/16/2022 1220h												
Test Code: 8260D-W-DEN100													
Chloroform	3,890	µg/L	SW8260D	31.0	100	2,000	1580	115	74 - 120	3800	2.37	35	
Surr: 1,2-Dichloroethane-d4	5,400	µg/L	SW8260D			5,000		108	80 - 136				
Surr: 4-Bromofluorobenzene	4,640	µg/L	SW8260D			5,000		92.8	85 - 121				
Surr: Dibromofluoromethane	4,600	µg/L	SW8260D			5,000		92.0	78 - 132				
Surr: Toluene-d8	4,650	µg/L	SW8260D			5,000		93.0	81 - 123				

WORK ORDER Summary

Work Order: **2202144** Page 1 of 2
Due Date: 2/25/2022

Client: Energy Fuels Resources, Inc.
Client ID: ENE300
Project: February Ground Water 2022
Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD. Samples for TDS, Cl, and SO4 sent to Chemtech;

Contact: Tanner Holliday
QC Level: III
WO Type: Project

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2202144-001A	MW-11_02082022	2/8/2022 1200h	2/11/2022 1115h	200.8-DIS	Aqueous		df-met	1
				<i>1 SEL Analytes: MN</i>				
				200.8-DIS-PR			df-met	
2202144-001B				OUTSIDE LAB			Chemtech-Ford-TDS	2
2202144-002A	MW-25_02092022	2/9/2022 1105h	2/11/2022 1115h	OUTSIDE LAB	Aqueous		chemtech-Ford-tds	1
2202144-003A	MW-26_02092022	2/9/2022 1230h	2/11/2022 1115h	NO2/NO3-W-353.2	Aqueous		DF-NO2/NO3	1
2202144-003B				OUTSIDE LAB			chemtech-Ford-tds	2
2202144-003C				8260D-W-DEN100			Purge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 1 / # of Surr: 4</i>				
2202144-004A	MW-30_02092022	2/9/2022 1040h	2/11/2022 1115h	200.8-DIS	Aqueous		df-met	1
				<i>2 SEL Analytes: SE U</i>				
				200.8-DIS-PR			df-met	
2202144-004B				OUTSIDE LAB			Chemtech-Ford-TDS	2
2202144-004C				NO2/NO3-W-353.2			DF-NO2/NO3	1
				<i>1 SEL Analytes: NO3NO2N</i>				
2202144-005A	MW-31_02082022	2/8/2022 1320h	2/11/2022 1115h	200.8-DIS	Aqueous		df-met	1
				<i>1 SEL Analytes: U</i>				
				200.8-DIS-PR			df-met	
2202144-005B				OUTSIDE LAB			Chemtech-Ford-TDS	2
2202144-005C				NO2/NO3-W-353.2			DF-NO2/NO3	1
				<i>1 SEL Analytes: NO3NO2N</i>				
2202144-006A	MW-65_02092022	2/9/2022 1230h	2/11/2022 1115h	200.8-DIS	Aqueous		df-met	1
				<i>2 SEL Analytes: SE U</i>				
				200.8-DIS-PR			df-met	
2202144-006B				OUTSIDE LAB			Chemtech-Ford-TDS	2
2202144-006C				NO2/NO3-W-353.2			DF-NO2/NO3	1
				<i>1 SEL Analytes: NO3NO2N</i>				

WORK ORDER Summary

Work Order: **2202144** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 2/25/2022

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2202144-007A	trip blank	2/9/2022 1230h	2/11/2022 1115h	8260D-W-DEN100	Aqueous	Purge	3
<i>Test Group: 8260D-W-DEN100; # of Analytes: 1 / # of Surr: 4</i>							



**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.

2202144
~~2202148~~ 7/1/22
 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; kweinel@energyfuels.com;**
 Project Name: **February 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	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)	SO4 (4500 or 300.0)	VOCs Chloroform (8260D)	Known Hazards & Sample Comments	Laboratory Use Only	
1 MW-11_02082022	2/8/2022	1200	3	W		X	X					X	X			X Include EDD: LOCUS UPLOAD EXCEL X Field Filtered For: Dissolved Metals For Compliance With: <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: Known Hazards & Sample Comments	Laboratory Use Only Samples Were: <i>UFS</i> 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <i>0-6</i> °C 4 Received Broken/Leaking (Improperly Sealed) Y <input checked="" type="checkbox"/> N 5 Properly Preserved <input checked="" type="checkbox"/> Y N Checked at bench Y <input checked="" type="checkbox"/> N 6 Received Within Holding Times <input checked="" type="checkbox"/> Y N
MW-25_02092022	2/9/2022	1105	1	W				X								1 Present on Outer Package <input checked="" type="checkbox"/> Y N NA 2 Unbroken on Outer Package <input checked="" type="checkbox"/> Y N NA 3 Present on Sample Y N <input checked="" type="checkbox"/> NA 4 Unbroken on Sample Y N <input checked="" type="checkbox"/> NA	
3 MW-26_02092022	2/9/2022	1230	6	W	X	X	X							X			
4 MW-30_02092022	2/9/2022	1040	4	W	X	X	X	X	X								
5 MW-31_02082022	2/8/2022	1320	4	W	X	X	X	X					X				
6 MW-65_02092022	2/9/2022	1230	4	W	X	X	X	X	X								
7																	
8																	
9 Trip Blank	2/9/2022	1230	3	W										X			
10																	
11																	
12																	
13																	

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 2/10/2022	Received by: Signature <i>Silma Hajj</i>	Date: 2/11/22	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: Silma Hajj	Time: 1115	
Relinquished by: Signature	Date:	Received by: Signature <i>Silma Hajj</i>	Date: 2/11/22	
Print Name:		Print Name: Silma Hajj	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:		Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:		Print Name:	Time:	

Lab Set ID: 2202144
 pH Lot #: 6821

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ammonia	pH <2 H ₂ SO ₄																			
COD	pH <2 H ₂ SO ₄																			
Cyanide	pH >10 NaOH																			
Metals	pH <2 HNO ₃	Yes		Yes	Yes	Yes														
NO ₂ /NO ₃	pH <2 H ₂ SO ₄		Yes	Yes	Yes	Yes														
O & G	pH <2 HCL																			
Phenols	pH <2 H ₂ SO ₄																			
Sulfide	pH >9 NaOH, ZnAC																			
TKN	pH <2 H ₂ SO ₄																			
T PO ₄	pH <2 H ₂ SO ₄																			
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																			

- Procedure:
- 1) Pour a small amount of sample in the sample lid
 - 2) Pour sample from lid gently over wide range pH paper
 - 3) **Do Not** dip the pH paper in the sample bottle or lid
 - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
 - 5) Flag COC, notify client if requested
 - 6) Place client conversation on COC
 - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- * The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.



2/21/2022

Work Order: 22B0951
Project: February Ground Water 2022

American West Analytical Labs
Attn: Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

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:

A handwritten signature in black ink, appearing to read "Mark Broadhead".

Mark Broadhead, Project Manager



American West Analytical Labs

Project: February Ground Water 2022

Project Manager: Elona Hayward

<u>Laboratory ID</u>	<u>Sample Name</u>
22B0951-01	MW-11_02082022
22B0951-02	MW-25_02092022
22B0951-03	MW-26_02092022
22B0951-04	MW-30_02092022
22B0951-05	MW-31_02082022
22B0951-06	MW-65_02092022

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

American West Analytical Labs
Elona Hayward
3440 South 700 West
Salt Lake City, UT 84119

PO#: 2202144
Receipt: 2/11/22 14:30 @ 0.8 °C
Date Reported: 2/21/2022
Project Name: February 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.

QC Report for Work Order (WO) - 22B0951

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

Blank - EPA 300.0

QC Sample ID: BWB0553-BLK1	Batch: BWB0553								
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride					ND			1.0	1.00

QC Sample ID: BWB0554-BLK1	Batch: BWB0554								
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride					ND			1.0	1.00

QC Sample ID: BWB0680-BLK1	Batch: BWB0680								
Date Prepared: 02/17/2022	Date Analyzed: 02/17/2022								
Sulfate					ND			1.0	1.00

LCS - EPA 300.0

QC Sample ID: BWB0553-BS1	Batch: BWB0553								
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	96.5	90 - 110		48.2		50.0		1.0	1.00

QC Sample ID: BWB0554-BS1	Batch: BWB0554								
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	97.9	90 - 110		49.0		50.0		1.0	1.00

QC Sample ID: BWB0680-BS1	Batch: BWB0680								
Date Prepared: 02/17/2022	Date Analyzed: 02/17/2022								
Sulfate	98.3	90 - 110		49.2		50.0		1.0	1.00

Matrix Spike - EPA 300.0

QC Sample ID: BWB0553-MS1	Batch: BWB0553	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	95.4	80 - 120		20.6	10.0	11.1		1.1	1.00

QC Sample ID: BWB0553-MS2	Batch: BWB0553	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	97.5	80 - 120		19.9	9.1	11.1		1.1	1.00

QC Sample ID: BWB0554-MS1	Batch: BWB0554	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/16/2022								
Chloride	91.1	80 - 120		32.9	22.8	11.1		1.1	1.00

QC Sample ID: BWB0554-MS2	Batch: BWB0554	QC Source Sample: 22B0951-01							
Date Prepared: 02/15/2022	Date Analyzed: 02/16/2022								
Chloride	93.8	80 - 120		67.6	57.2	11.1		1.1	1.00

QC Sample ID: BWB0680-MS1	Batch: BWB0680	QC Source Sample: 22B0951-01							
Date Prepared: 02/17/2022	Date Analyzed: 02/17/2022								
Sulfate	88.2	80 - 120		1440	1240	222		22.2	1.00

QC Sample ID: BWB0680-MS2	Batch: BWB0680	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/17/2022	Date Analyzed: 02/18/2022								
Sulfate	95.1	80 - 120		14.3	4.7	10.0		1.0	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWB0553-MSD1	Batch: BWB0553	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	99.0	80 - 120	1.96	20	21.0	10.0		11.1	1.1

QC Sample ID: BWB0553-MSD2	Batch: BWB0553	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Chloride	96.6	80 - 120	0.536	20	19.8	9.1		11.1	1.1

QC Report for Work Order (WO) - 22B0951

Analyte

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

Matrix Spike Dup - EPA 300.0 (cont.)

QC Sample ID: BWB0554-MSD1	Batch: BWB0554	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/16/2022								
Chloride	91.6	0.173	80 - 120	20	33.0	22.8	11.1	1.1	1.00
QC Sample ID: BWB0554-MSD2	Batch: BWB0554	QC Source Sample: 22B0951-01							
Date Prepared: 02/15/2022	Date Analyzed: 02/16/2022								
Chloride	95.7	0.320	80 - 120	20	67.8	57.2	11.1	1.1	1.00
QC Sample ID: BWB0680-MSD1	Batch: BWB0680	QC Source Sample: 22B0951-01							
Date Prepared: 02/17/2022	Date Analyzed: 02/17/2022								
Sulfate	113	3.80	80 - 120	20	1490	1240	222	22.2	1.00
QC Sample ID: BWB0680-MSD2	Batch: BWB0680	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/17/2022	Date Analyzed: 02/18/2022								
Sulfate	94.5	0.465	80 - 120	20	14.2	4.7	10.0	1.0	1.00

QC Report for Work Order (WO) - 22B0951

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - SM 2540 C

QC Sample ID: BWB0505-BLK1	Batch: BWB0505								
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)				ND				10	1.00
QC Sample ID: BWB0512-BLK1	Batch: BWB0512								
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)				ND				10	1.00
QC Sample ID: BWB0535-BLK1	Batch: BWB0535								
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)				ND				10	1.00
QC Sample ID: BWB0566-BLK1	Batch: BWB0566								
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Total Dissolved Solids (TDS)				ND				10	1.00

Duplicate - SM 2540 C

QC Sample ID: BWB0505-DUP1	Batch: BWB0505	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	0.5		10	3990	4010			20	1.00
QC Sample ID: BWB0505-DUP2	Batch: BWB0505	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	1		10	3200	3230			20	1.00
QC Sample ID: BWB0512-DUP1	Batch: BWB0512	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	5		10	5810	6080			20	1.00
QC Sample ID: BWB0512-DUP2	Batch: BWB0512	QC Source Sample: 22B0951-01							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	3		10	1950	1900			20	1.00
QC Sample ID: BWB0535-DUP1	Batch: BWB0535	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	6		10	212	200			10	1.00
QC Sample ID: BWB0535-DUP2	Batch: BWB0535	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	0.7		10	584	580			20	1.00
QC Sample ID: BWB0566-DUP1	Batch: BWB0566	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Total Dissolved Solids (TDS)	1		10	1930	1910			20	1.00
QC Sample ID: BWB0566-DUP2	Batch: BWB0566	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022								
Total Dissolved Solids (TDS)	2		10	8930	9140			50	1.00

LCS - SM 2540 C

QC Sample ID: BWB0505-BS1	Batch: BWB0505								
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	103	90 - 110		412			400	20	1.00
QC Sample ID: BWB0512-BS1	Batch: BWB0512								
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022								
Total Dissolved Solids (TDS)	106	90 - 110		424			400	20	1.00

QC Report for Work Order (WO) - 22B0951

Analyte

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

LCS - SM 2540 C (cont.)

QC Sample ID: BWB0535-BS1	Batch: BWB0535							
Date Prepared: 02/14/2022	Date Analyzed: 02/14/2022							
Total Dissolved Solids (TDS)	97	90 - 110		388		400	20	1.00
QC Sample ID: BWB0566-BS1	Batch: BWB0566							
Date Prepared: 02/15/2022	Date Analyzed: 02/15/2022							
Total Dissolved Solids (TDS)	100	90 - 110		400		400	20	1.00

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

March 2022

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-11_03082022**

Matrix: **Water**
Date Sampled: **3/8/22 11:10**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-01**

	<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	67.7	mg/L	1.0	EPA 300.0	3/14/22	3/15/22	
Sulfate	1170	mg/L	100	EPA 300.0	3/17/22	3/18/22	
Total Dissolved Solids (TDS)	2080	mg/L	50	SM 2540 C	3/14/22	3/14/22	
Metals							
Manganese, Dissolved	0.224	mg/L	0.0050	EPA 200.8	3/18/22	3/18/22	

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-25_03072022**

Matrix: **Water**
Date Sampled: **3/7/22 14:30**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-02**

	<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)	2610	mg/L	50	SM 2540 C	3/14/22	3/14/22	



Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-26_03082022**

Matrix: **Water**
Date Sampled: **3/8/22 8:30**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-03**

	<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	64.1	mg/L	1.0	EPA 300.0	3/14/22	3/15/22	
Nitrate + Nitrite, Total, as N	0.6	mg/L	0.1	EPA 353.2	3/15/22	3/15/22	
Total Dissolved Solids (TDS)	2870	mg/L	50	SM 2540 C	3/14/22	3/14/22	
Volatile Organic Compounds							
Chloroform	1460	ug/L	100	EPA 8260B/C /5030A	3/16/22	3/16/22	

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-30_03072022**

Matrix: **Water**
Date Sampled: **3/7/22 10:30**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-04**

	<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	196	mg/L	10.0	EPA 300.0	3/14/22	3/15/22	
Nitrate + Nitrite, Total, as N	16.6	mg/L	1.0	EPA 353.2	3/15/22	3/15/22	
Total Dissolved Solids (TDS)	1500	mg/L	50	SM 2540 C	3/14/22	3/14/22	
Metals							
Selenium, Dissolved	0.0620	mg/L	0.0050	EPA 200.8	3/18/22	3/18/22	
Uranium, Dissolved	0.0099	mg/L	0.0050	EPA 200.8	3/18/22	3/18/22	

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-31_03072022**

Matrix: **Water**
Date Sampled: **3/7/22 13:45**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-05**

	<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>
Inorganic							
Chloride	416	mg/L	10.0	EPA 300.0	3/14/22	3/15/22	
Nitrate + Nitrite, Total, as N	17.0	mg/L	1.0	EPA 353.2	3/15/22	3/15/22	
Sulfate	731	mg/L	100	EPA 300.0	3/17/22	3/18/22	
Total Dissolved Solids (TDS)	2530	mg/L	50	SM 2540 C	3/14/22	3/14/22	
Metals							
Uranium, Dissolved	0.0225	mg/L	0.0050	EPA 200.8	3/18/22	3/18/22	

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **MW-65_03082022**

Matrix: **Water**
Date Sampled: **3/8/22 11:10**

Lab ID: **22C0710-06**

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	67.3	mg/L	1.0	EPA 300.0	3/14/22	3/15/22	
Sulfate	1120	mg/L	100	EPA 300.0	3/17/22	3/18/22	
Total Dissolved Solids (TDS)	2050	mg/L	50	SM 2540 C	3/14/22	3/14/22	
Metals							
Manganese, Dissolved	0.220	mg/L	0.0050	EPA 200.8	3/18/22	3/18/22	

Certificate of Analysis

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

PO#: _____
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March Ground Water 2022**

Sample ID: **Trip Blank**

Matrix: **Water**
Date Sampled: **3/8/22 8:30**

Sampled By: **Tanner Holliday**

Lab ID: **22C0710-07**

	<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	1.9	ug/L	1.0	EPA 8260B/C /5030A	3/16/22	3/16/22	

Certificate of Analysis

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

PO#:
Receipt: 3/9/22 11:10 @ 0.9 °C
Date Reported: 4/8/2022
Project Name: **March 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.

Work Order # 22C0710

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD
LABORATORIES

Delivery Method:  12187Y4Y0390465084

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

Receiving Temperature 0.9 °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	Ap	client						
	AH	client						
	m	client						
02	Ap	client						
03	N	client						
	Ap	client						
	AH	client						
	W(3)	client						1 vial broke
04	N	client						
	Ap	client						
	AH	client						
	m	client						
05	N	client						
	Ap	client						
	AH	client						
	m	client						
06	Ap	client						
	AH	client						
	m	client						
07	W(3)	client						

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- HAAs (NH4Cl)
- J- 508/515/525 (Na2SO3)
- K- 515.3 Herbicides
- O- Oil & Grease (HCl)
- P- Phenols (H2SO4)
- T- TOC/TDX (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) - 22C0710

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Blank - EPA 200.8

QC Sample ID: BWC0788-BLK1

Batch: BWC0788

Date Prepared: 03/18/2022

Date Analyzed: 03/18/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Manganese, Dissolved					ND			0.0005	1.00
Selenium, Dissolved					ND			0.0005	1.00
Uranium, Dissolved					ND			0.0005	1.00

LCS - EPA 200.8

QC Sample ID: BWC0788-BS1

Batch: BWC0788

Date Prepared: 03/18/2022

Date Analyzed: 03/18/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Manganese, Dissolved	99.2		85 - 115		0.040		0.0400	0.0005	1.00
Selenium, Dissolved	96.5		85 - 115		0.039		0.0400	0.0005	1.00
Uranium, Dissolved	92.4		85 - 115		0.037		0.0400	0.0005	1.00

Matrix Spike - EPA 200.8

QC Sample ID: BWC0788-MS1

Batch: BWC0788

QC Source Sample: 22C0710-05

Date Prepared: 03/18/2022

Date Analyzed: 03/18/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Manganese, Dissolved	97.1		70 - 130		0.391	0.002	0.400	0.0050	1.00
Selenium, Dissolved	98.1		70 - 130		0.490	0.097	0.400	0.0050	1.00
Uranium, Dissolved	95.5		70 - 130		0.404	0.022	0.400	0.0050	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BWC0560-BLK1	Batch: BWC0560								
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride					ND			1.0	1.00
QC Sample ID: BWC0769-BLK1	Batch: BWC0769								
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Sulfate					ND			1.0	1.00
LCS - EPA 300.0									
QC Sample ID: BWC0560-BS1	Batch: BWC0560								
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride	108	90 - 110			53.9		50.0	1.0	1.00
QC Sample ID: BWC0769-BS1	Batch: BWC0769								
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Sulfate	97.5	90 - 110			48.8		50.0	1.0	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BWC0560-MS1	Batch: BWC0560		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride	132	80 - 120			220	206	11.1	1.1	1.00
E, QM-4X -									
QC Sample ID: BWC0560-MS2	Batch: BWC0560		QC Source Sample: 22C0710-05						
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride	128	80 - 120			430	416	11.1	1.1	1.00
E, QM-4X -									
QC Sample ID: BWC0769-MS1	Batch: BWC0769		QC Source Sample: 22C0710-05						
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Chloride	97.4	80 - 120			1350	272	1110	111	1.00
Sulfate	90.7	80 - 120			1740	731	1110	111	1.00
QC Sample ID: BWC0769-MS2	Batch: BWC0769		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Sulfate	92.9	80 - 120			12.9	2.6	11.1	1.1	1.00
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BWC0560-MSD1	Batch: BWC0560		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride	127	0.254	80 - 120	20	220	206	11.1	1.1	1.00
E, QM-4X -									
QC Sample ID: BWC0560-MSD2	Batch: BWC0560		QC Source Sample: 22C0710-05						
Date Prepared: 03/14/2022	Date Analyzed: 03/15/2022								
Chloride	126	0.0526	80 - 120	20	430	416	11.1	1.1	1.00
E, QM-4X -									
QC Sample ID: BWC0769-MSD1	Batch: BWC0769		QC Source Sample: 22C0710-05						
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Sulfate	96.3	3.52	80 - 120	20	1800	731	1110	111	1.00
QC Sample ID: BWC0769-MSD2	Batch: BWC0769		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/17/2022	Date Analyzed: 03/18/2022								
Sulfate	94.2	1.15	80 - 120	20	13.0	2.6	11.1	1.1	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWC0621-BLK1	Batch: BWC0621								
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N					ND			0.1	1.00
LCS - EPA 353.2									
QC Sample ID: BWC0621-BS1	Batch: BWC0621								
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N	107		80 - 120		2.1		2.00	0.1	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWC0621-MS1	Batch: BWC0621		QC Source Sample: 22C0710-05						
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N	85.9		80 - 120		17.9	17.0	1.00	1.0	10.00
QC Sample ID: BWC0621-MS2	Batch: BWC0621		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N	85.9		80 - 120		1.5	0.7	1.00	0.1	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWC0621-MSD1	Batch: BWC0621		QC Source Sample: 22C0710-05						
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N	114	1.54	80 - 120	20	18.2	17.0	1.00	1.0	10.00
QC Sample ID: BWC0621-MSD2	Batch: BWC0621		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/15/2022	Date Analyzed: 03/15/2022								
Nitrate + Nitrite, Total, as N	100	9.01	80 - 120	20	1.7	0.7	1.00	0.1	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260B/C /5030A									
QC Sample ID: BWC0792-BLK1	Batch: BWC0792								
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022								
1,1,1,2-Tetrachloroethane					ND			1.0	1.00
1,1,1-Trichloroethane					ND			1.0	1.00
1,1,2,2-Tetrachloroethane					ND			1.0	1.00
1,1,2-Trichloroethane					ND			1.0	1.00
1,1,2-Trichlorotrifluoroethane					ND			1.0	1.00
1,1-Dichloroethane					ND			1.0	1.00
1,1-Dichloroethene					ND			1.0	1.00
1,1-Dichloropropene					ND			1.0	1.00
2-Hexanone					ND			20.0	1.00
1,2,3-Trichlorobenzene					ND			1.0	1.00
1,2,3-Trichloropropane					ND			1.0	1.00
1,2,4-Trichlorobenzene					ND			1.0	1.00
1,2,4-Trimethylbenzene					ND			1.0	1.00
1,2-Dibromo-3-chloropropane					ND			1.0	1.00
1,2-Dibromoethane (EDB)					ND			1.0	1.00
1,2-Dichlorobenzene					ND			1.0	1.00
1,2-Dichloroethane					ND			1.0	1.00
1,2-Dichloropropane					ND			1.0	1.00
1,3,5-Trimethylbenzene					ND			1.0	1.00
1,3-Dichlorobenzene					ND			1.0	1.00
1,3-Dichloropropane					ND			1.0	1.00
1,4-Dichlorobenzene					ND			1.0	1.00
2,2-Dichloropropane					ND			1.0	1.00
2-Chlorotoluene					ND			1.0	1.00
2-Nitropropane					ND			10.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
4-Chlorotoluene					ND			1.0	1.00
Acetone					ND			10.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Acrylonitrile					ND			10.0	1.00
Benzene					ND			0.4	1.00
Bromobenzene					ND			1.0	1.00
Bromochloromethane					ND			1.0	1.00
Bromodichloromethane					ND			1.0	1.00
Bromoform					ND			1.0	1.00
Bromomethane					ND			1.0	1.00
Carbon Disulfide					ND			1.0	1.00
Carbon Tetrachloride					ND			1.0	1.00
Chlorobenzene					ND			1.0	1.00
Chloroethane					ND			1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Chloroform					ND			1.0	1.00
Chloromethane					ND			1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
cis-1,2-Dichloroethene					ND			1.0	1.00
cis-1,3-Dichloropropene					ND			1.0	1.00
Cyclohexanone					ND			20.0	1.00
Dibromochloromethane					ND			1.0	1.00
Dibromomethane					ND			1.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 8260B/C /5030A (cont.)

QC Sample ID: BWC0792-BLK1	Batch: BWC0792	
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022	

Dichlorodifluoromethane		ND	1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV				
Ethyl Acetate		ND	10.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV				
Ethylbenzene		ND	1.0	1.00
Ethyl Ether		ND	1.0	1.00
Hexachlorobutadiene		ND	1.0	1.00
Isobutanol		ND	10.0	1.00
Isopropylbenzene		ND	1.0	1.00
Methyl Ethyl Ketone		ND	10.0	1.00
Methyl Isobutyl Ketone		ND	10.0	1.00
Methylene Chloride		ND	2.0	1.00
Methyl-tert-butyl ether (MTBE)		ND	1.0	1.00
Naphthalene		ND	1.0	1.00
n-Butyl Alcohol		ND	40.0	1.00
n-Butylbenzene		ND	1.0	1.00
Nitrobenzene		ND	20.0	1.00
n-Propyl Benzene		ND	1.0	1.00
p-Isopropyltoluene		ND	1.0	1.00
sec-Butyl Benzene		ND	1.0	1.00
Styrene		ND	1.0	1.00
tert-Butylbenzene		ND	1.0	1.00
Tetrachloroethene		ND	1.0	1.00
Toluene		ND	1.0	1.00
trans-1,2-Dichloroethene		ND	1.0	1.00
trans-1,3-Dichloropropene		ND	1.0	1.00
Trichloroethene		ND	1.0	1.00
Trichlorofluoromethane		ND	1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV				
Vinyl Chloride		ND	1.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV				
Xylenes, total		ND	1.0	1.00

LCS - EPA 8260B/C /5030A

QC Sample ID: BWC0792-BS1	Batch: BWC0792	
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022	

1,1,1,2-Tetrachloroethane	98.0	80 - 120	49.0	50.0	5.0	1.00
1,1,1-Trichloroethane	85.4	80 - 120	42.7	50.0	5.0	1.00
1,1,2,2-Tetrachloroethane	99.4	80 - 120	49.7	50.0	5.0	1.00
1,1,2-Trichloroethane	98.7	80 - 120	49.4	50.0	5.0	1.00
1,1,2-Trichlorotrifluoroethane	47.3	80 - 120	47.3	100	5.0	1.00
1,1-Dichloroethane	88.0	80 - 120	44.0	50.0	5.0	1.00
1,1-Dichloroethene	91.2	80 - 120	45.6	50.0	5.0	1.00
1,1-Dichloropropene	94.4	80 - 120	47.2	50.0	5.0	1.00
2-Hexanone		80 - 120	ND		100	1.00
1,2,3-Trichlorobenzene	111	80 - 120	55.4	50.0	5.0	1.00
1,2,3-Trichloropropane	97.6	80 - 120	48.8	50.0	5.0	1.00
1,2,4-Trichlorobenzene	109	80 - 120	54.6	50.0	5.0	1.00
1,2,4-Trimethylbenzene	98.8	80 - 120	49.4	50.0	5.0	1.00
1,2-Dibromo-3-chloropropane	92.7	80 - 120	46.4	50.0	5.0	1.00
1,2-Dibromoethane (EDB)		80 - 120	48.4		5.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
LCS - EPA 8260B/C /5030A (cont.)									
QC Sample ID: BWC0792-BS1	Batch: BWC0792								
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022								
1,2-Dichlorobenzene	105		80 - 120		52.3		50.0	5.0	1.00
1,2-Dichloroethane	80.0		80 - 120		40.0		50.0	5.0	1.00
1,2-Dichloropropane	91.4		80 - 120		45.7		50.0	5.0	1.00
1,3,5-Trimethylbenzene	105		80 - 120		52.5		50.0	5.0	1.00
1,3-Dichlorobenzene	105		80 - 120		52.5		50.0	5.0	1.00
1,3-Dichloropropane	95.6		80 - 120		47.8		50.0	5.0	1.00
1,4-Dichlorobenzene	107		80 - 120		53.4		50.0	5.0	1.00
2,2-Dichloropropane	89.6		80 - 120		44.8		50.0	5.0	1.00
2-Chlorotoluene	99.7		80 - 120		49.8		50.0	5.0	1.00
2-Nitropropane	72.4		80 - 120		90.5		125	50.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
4-Chlorotoluene	106		80 - 120		52.8		50.0	5.0	1.00
Acetone	70.9		80 - 120		354		500	50.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Acrylonitrile	89.4		80 - 120		447		500	50.0	1.00
Benzene	96.3		80 - 120		48.2		50.0	2.0	1.00
Bromobenzene	102		80 - 120		51.0		50.0	5.0	1.00
Bromochloromethane	103		80 - 120		51.3		50.0	5.0	1.00
Bromodichloromethane	88.2		80 - 120		44.1		50.0	5.0	1.00
Bromoform	99.8		80 - 120		49.9		50.0	5.0	1.00
Bromomethane	86.2		80 - 120		43.1		50.0	5.0	1.00
Carbon Disulfide	89.6		80 - 120		44.8		50.0	5.0	1.00
Carbon Tetrachloride	87.1		80 - 120		43.6		50.0	5.0	1.00
Chlorobenzene	100		80 - 120		50.1		50.0	5.0	1.00
Chloroethane	74.5		80 - 120		37.2		50.0	5.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Chloroform	91.9		80 - 120		46.0		50.0	5.0	1.00
Chloromethane	69.1		80 - 120		34.6		50.0	5.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
cis-1,2-Dichloroethene	95.1		80 - 120		47.6		50.0	5.0	1.00
cis-1,3-Dichloropropene	92.1		80 - 120		46.0		50.0	5.0	1.00
Cyclohexanone	90.7		80 - 120		907		1000	100	1.00
Dibromochloromethane	92.5		80 - 120		46.2		50.0	5.0	1.00
Dibromomethane	101		80 - 120		50.6		50.0	5.0	1.00
Dichlorodifluoromethane	66.2		80 - 120		33.1		50.0	5.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Ethyl Acetate	78.8		80 - 120		394		500	50.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Ethylbenzene	102		80 - 120		51.0		50.0	5.0	1.00
Ethyl Ether	84.7		80 - 120		42.4		50.0	5.0	1.00
Hexachlorobutadiene	116		80 - 120		57.8		50.0	5.0	1.00
Isobutanol	89.7		80 - 120		897		1000	50.0	1.00
Isopropylbenzene	100		80 - 120		50.0		50.0	5.0	1.00
Methyl Ethyl Ketone	91.3		80 - 120		456		500	50.0	1.00
Methyl Isobutyl Ketone	102		80 - 120		508		500	50.0	1.00
Methylene Chloride	93.3		80 - 120		46.6		50.0	10.0	1.00
Methyl-tert-butyl ether (MTBE)			80 - 120		41.2			5.0	1.00
Naphthalene	104		80 - 120		52.2		50.0	5.0	1.00
n-Butyl Alcohol	83.4		80 - 120		834		1000	200	1.00
n-Butylbenzene			80 - 120		57.1			5.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
LCS - EPA 8260B/C /5030A (cont.)									
QC Sample ID: BWC0792-BS1	Batch: BWC0792								
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022								
Nitrobenzene	107		80 - 120		1070		1000	100	1.00
n-Propyl Benzene	107		80 - 120		53.4		50.0	5.0	1.00
p-Isopropyltoluene	108		80 - 120		53.8		50.0	5.0	1.00
sec-Butyl Benzene	114		80 - 120		56.8		50.0	5.0	1.00
Styrene	103		80 - 120		51.6		50.0	5.0	1.00
tert-Butylbenzene	106		80 - 120		53.1		50.0	5.0	1.00
Tetrachloroethene	102		80 - 120		51.0		50.0	5.0	1.00
Toluene	97.6		80 - 120		48.8		50.0	5.0	1.00
trans-1,2-Dichloroethene	94.5		80 - 120		47.2		50.0	5.0	1.00
trans-1,3-Dichloropropene	91.1		80 - 120		45.6		50.0	5.0	1.00
Trichloroethene	104		80 - 120		51.8		50.0	5.0	1.00
Trichlorofluoromethane	68.6		80 - 120		34.3		50.0	5.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Vinyl Chloride	76.0		80 - 120		38.0		50.0	5.0	1.00
J-LOW - Estimated low due to low recovery of LCS or CCV									
Xylenes, total			80 - 120		148			5.0	1.00

Matrix Spike - EPA 8260B/C /5030A

QC Sample ID: BWC0792-MS1	Batch: BWC0792	QC Source Sample: 22C0710-03					
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022						
1,1,1,2-Tetrachloroethane	97.2	0 - 200	48.6	ND	50.0	5.0	1.00
1,1,1-Trichloroethane	86.5	0 - 200	43.2	ND	50.0	5.0	1.00
1,1,2,2-Tetrachloroethane	94.5	0 - 200	47.2	ND	50.0	5.0	1.00
1,1,2-Trichloroethane	93.7	0 - 200	46.8	ND	50.0	5.0	1.00
1,1,2-Trichlorotrifluoroethane	49.5	0 - 200	49.5	ND	100	5.0	1.00
1,1-Dichloroethane	88.2	0 - 200	44.1	ND	50.0	5.0	1.00
1,1-Dichloroethene	94.8	70 - 130	47.4	ND	50.0	5.0	1.00
1,1-Dichloropropene	97.2	0 - 200	48.6	ND	50.0	5.0	1.00
2-Hexanone		0 - 200	ND	ND		100	1.00
1,2,3-Trichlorobenzene	102	0 - 200	51.0	ND	50.0	5.0	1.00
1,2,3-Trichloropropane	93.8	0 - 200	46.9	ND	50.0	5.0	1.00
1,2,4-Trichlorobenzene	103	0 - 200	51.4	ND	50.0	5.0	1.00
1,2,4-Trimethylbenzene	96.3	0 - 200	48.2	ND	50.0	5.0	1.00
1,2-Dibromo-3-chloropropane	85.7	0 - 200	42.8	ND	50.0	5.0	1.00
1,2-Dibromoethane (EDB)		0 - 200	46.8	ND		5.0	1.00
1,2-Dichlorobenzene	101	0 - 200	50.4	ND	50.0	5.0	1.00
1,2-Dichloroethane	76.1	0 - 200	38.0	ND	50.0	5.0	1.00
1,2-Dichloropropane	89.8	0 - 200	44.9	ND	50.0	5.0	1.00
1,3,5-Trimethylbenzene	102	0 - 200	51.1	ND	50.0	5.0	1.00
1,3-Dichlorobenzene	100	0 - 200	50.2	ND	50.0	5.0	1.00
1,3-Dichloropropane	91.6	0 - 200	45.8	ND	50.0	5.0	1.00
1,4-Dichlorobenzene	102	0 - 200	51.2	ND	50.0	5.0	1.00
2,2-Dichloropropane	86.3	0 - 200	43.2	ND	50.0	5.0	1.00
2-Chlorotoluene	97.3	0 - 200	48.6	ND	50.0	5.0	1.00
2-Nitropropane	68.8	0 - 200	86.0	ND	125	50.0	1.00
4-Chlorotoluene	101	0 - 200	50.5	ND	50.0	5.0	1.00
Acetone	68.9	0 - 200	345	ND	500	50.0	1.00
Acrylonitrile	78.9	2 - 300	394	ND	500	50.0	1.00
Benzene	95.2	70 - 130	47.6	ND	50.0	2.0	1.00
Bromobenzene	100	0 - 200	50.1	ND	50.0	5.0	1.00
Bromochloromethane	102	0 - 200	50.8	ND	50.0	5.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Matrix Spike - EPA 8260B/C /5030A (cont.)

QC Sample ID: BWC0792-MS1	Batch: BWC0792	QC Source Sample: 22C0710-03
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022	

Bromodichloromethane	87.0	0 - 200		43.5	ND	50.0	5.0	1.00
Bromoform	98.9	0 - 200		49.4	ND	50.0	5.0	1.00
Bromomethane	89.5	0 - 200		44.8	ND	50.0	5.0	1.00
Carbon Disulfide	91.8	0 - 200		45.9	ND	50.0	5.0	1.00
Carbon Tetrachloride	92.4	0 - 200		46.2	ND	50.0	5.0	1.00
Chlorobenzene	101	70 - 130		50.4	ND	50.0	5.0	1.00
Chloroethane	80.5	0 - 200		40.2	ND	50.0	5.0	1.00
Chloroform	41.3	0 - 200		1480	1460	50.0	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.

Chloromethane	76.0	0 - 200		38.0	ND	50.0	5.0	1.00
cis-1,2-Dichloroethene	94.6	0 - 200		47.3	ND	50.0	5.0	1.00
cis-1,3-Dichloropropene	89.7	0 - 200		44.8	ND	50.0	5.0	1.00
Cyclohexanone	81.9	0 - 200		819	ND	1000	100	1.00
Dibromochloromethane	89.8	0 - 200		44.9	ND	50.0	5.0	1.00
Dibromomethane	98.6	0 - 200		49.3	ND	50.0	5.0	1.00
Dichlorodifluoromethane	71.0	0 - 200		35.5	ND	50.0	5.0	1.00
Ethyl Acetate	78.3	0 - 200		392	ND	500	50.0	1.00
Ethylbenzene	105	0 - 200		52.5	ND	50.0	5.0	1.00
Ethyl Ether	82.3	0 - 200		43.3	2.13	50.0	5.0	1.00
Hexachlorobutadiene	95.4	0 - 200		47.7	ND	50.0	5.0	1.00
Isobutanol	78.8	0 - 200		788	ND	1000	50.0	1.00
Isopropylbenzene	97.5	0 - 200		48.8	ND	50.0	5.0	1.00
Methyl Ethyl Ketone	89.8	0 - 200		449	ND	500	50.0	1.00
Methyl Isobutyl Ketone	94.9	0 - 200		474	ND	500	50.0	1.00
Methylene Chloride	88.6	0 - 200		44.3	ND	50.0	10.0	1.00
Methyl-tert-butyl ether (MTBE)		0 - 200		40.2	ND		5.0	1.00
Naphthalene	96.7	0 - 200		48.4	ND	50.0	5.0	1.00
n-Butyl Alcohol	85.7	0 - 200		857	ND	1000	200	1.00
n-Butylbenzene		0 - 200		49.7	ND		5.0	1.00
Nitrobenzene	103	0 - 200		1030	ND	1000	100	1.00
n-Propyl Benzene	103	0 - 200		51.4	ND	50.0	5.0	1.00
p-Isopropyltoluene	101	0 - 200		50.5	ND	50.0	5.0	1.00
sec-Butyl Benzene	105	0 - 200		52.6	ND	50.0	5.0	1.00
Styrene	102	0 - 200		51.2	ND	50.0	5.0	1.00
tert-Butylbenzene	102	0 - 200		50.8	ND	50.0	5.0	1.00
Tetrachloroethene	5.30	0 - 200		2.65	ND	50.0	5.0	1.00

J - Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Toluene	97.7	70 - 130		48.8	ND	50.0	5.0	1.00
trans-1,2-Dichloroethene	91.9	0 - 200		46.0	ND	50.0	5.0	1.00
trans-1,3-Dichloropropene	88.0	0 - 200		44.0	ND	50.0	5.0	1.00
Trichloroethene	99.3	70 - 130		49.6	ND	50.0	5.0	1.00
Trichlorofluoromethane	79.1	0 - 200		39.6	ND	50.0	5.0	1.00
Vinyl Chloride	85.3	0 - 200		42.6	ND	50.0	5.0	1.00
Xylenes, total		0 - 200		160	ND		5.0	1.00

Matrix Spike Dup - EPA 8260B/C /5030A

QC Sample ID: BWC0792-MSD1	Batch: BWC0792	QC Source Sample: 22C0710-03
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022	

1,1,1,2-Tetrachloroethane	97.0	0.206	0 - 200	200	48.5	ND	50.0	5.0	1.00
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QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Matrix Spike Dup - EPA 8260B/C /5030A (cont.)

QC Sample ID: BWC0792-MSD1	Batch: BWC0792	QC Source Sample: 22C0710-03
Date Prepared: 03/16/2022	Date Analyzed: 03/16/2022	

1,1,1-Trichloroethane	87.4	1.04	0 - 200	200	43.7	ND	50.0	5.0	1.00
1,1,2,2-Tetrachloroethane	96.2	1.78	0 - 200	200	48.1	ND	50.0	5.0	1.00
1,1,2-Trichloroethane	100	6.50	0 - 200	200	50.0	ND	50.0	5.0	1.00
1,1,2-Trichlorotrifluoroethane	50.1	1.20	0 - 200	200	50.1	ND	100	5.0	1.00
1,1-Dichloroethane	89.0	0.903	0 - 200	200	44.5	ND	50.0	5.0	1.00
1,1-Dichloroethene	94.9	0.105	70 - 130	20	47.4	ND	50.0	5.0	1.00
1,1-Dichloropropene	95.8	1.45	0 - 200	200	47.9	ND	50.0	5.0	1.00
2-Hexanone			0 - 200	200	ND	ND		100	1.00
1,2,3-Trichlorobenzene	105	3.38	0 - 200	200	52.7	ND	50.0	5.0	1.00
1,2,3-Trichloropropane	91.1	2.92	0 - 200	200	45.6	ND	50.0	5.0	1.00
1,2,4-Trichlorobenzene	105	2.50	0 - 200	200	52.6	ND	50.0	5.0	1.00
1,2,4-Trimethylbenzene	98.6	2.36	0 - 200	200	49.3	ND	50.0	5.0	1.00
1,2-Dibromo-3-chloropropane	88.9	3.67	0 - 200	200	44.4	ND	50.0	5.0	1.00
1,2-Dibromoethane (EDB)			0 - 200	200	45.9	ND		5.0	1.00
1,2-Dichlorobenzene	103	2.45	0 - 200	200	51.7	ND	50.0	5.0	1.00
1,2-Dichloroethane	77.6	1.95	0 - 200	200	38.8	ND	50.0	5.0	1.00
1,2-Dichloropropane	91.9	2.31	0 - 200	200	46.0	ND	50.0	5.0	1.00
1,3,5-Trimethylbenzene	102	0.0978	0 - 200	200	51.2	ND	50.0	5.0	1.00
1,3-Dichlorobenzene	99.6	0.900	0 - 200	200	49.8	ND	50.0	5.0	1.00
1,3-Dichloropropane	91.8	0.218	0 - 200	200	45.9	ND	50.0	5.0	1.00
1,4-Dichlorobenzene	103	0.487	0 - 200	200	51.5	ND	50.0	5.0	1.00
2,2-Dichloropropane	89.0	3.08	0 - 200	200	44.5	ND	50.0	5.0	1.00
2-Chlorotoluene	98.1	0.819	0 - 200	200	49.0	ND	50.0	5.0	1.00
2-Nitropropane	70.6	2.58	0 - 200	200	88.2	ND	125	50.0	1.00
4-Chlorotoluene	100	0.895	0 - 200	200	50.0	ND	50.0	5.0	1.00
Acetone	72.6	5.20	0 - 200	200	363	ND	500	50.0	1.00
Acrylonitrile	81.6	3.37	2 - 300	200	408	ND	500	50.0	1.00
Benzene	96.9	1.77	70 - 130	20	48.4	ND	50.0	2.0	1.00
Bromobenzene	104	3.53	0 - 200	200	51.9	ND	50.0	5.0	1.00
Bromochloromethane	102	0.980	0 - 200	200	51.2	ND	50.0	5.0	1.00
Bromodichloromethane	88.8	2.05	0 - 200	200	44.4	ND	50.0	5.0	1.00
Bromoform	99.1	0.202	0 - 200	200	49.6	ND	50.0	5.0	1.00
Bromomethane	92.6	3.40	0 - 200	200	46.3	ND	50.0	5.0	1.00
Carbon Disulfide	91.8	0.00	0 - 200	200	45.9	ND	50.0	5.0	1.00
Carbon Tetrachloride	92.3	0.108	0 - 200	200	46.2	ND	50.0	5.0	1.00
Chlorobenzene	99.1	1.60	70 - 130	20	49.6	ND	50.0	5.0	1.00
Chloroethane	84.1	4.37	0 - 200	200	42.0	ND	50.0	5.0	1.00
Chloroform	3.70	167	0 - 200	200	1460	1460	50.0	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.

Chloromethane	77.1	1.44	0 - 200	200	38.6	ND	50.0	5.0	1.00
cis-1,2-Dichloroethene	94.7	0.106	0 - 200	200	47.4	ND	50.0	5.0	1.00
cis-1,3-Dichloropropene	91.7	2.21	0 - 200	200	45.8	ND	50.0	5.0	1.00
Cyclohexanone	91.7	11.4	0 - 200	200	917	ND	1000	100	1.00
Dibromochloromethane	93.2	3.72	0 - 200	200	46.6	ND	50.0	5.0	1.00
Dibromomethane	104	5.14	0 - 200	200	51.9	ND	50.0	5.0	1.00
Dichlorodifluoromethane	72.1	1.54	0 - 200	200	36.0	ND	50.0	5.0	1.00
Ethyl Acetate	81.1	3.49	0 - 200	200	405	ND	500	50.0	1.00
Ethylbenzene	99.4	5.48	0 - 200	200	49.7	ND	50.0	5.0	1.00
Ethyl Ether	83.2	1.09	0 - 200	200	43.8	2.13	50.0	5.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

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

QC Sample ID: BWC0792-MSD1

Batch: BWC0792

QC Source Sample: 22C0710-03

Date Prepared: 03/16/2022

Date Analyzed: 03/16/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Hexachlorobutadiene	91.0	4.72	0 - 200	200	45.5	ND	50.0	5.0	1.00
Isobutanol	87.9	11.0	0 - 200	200	879	ND	1000	50.0	1.00
Isopropylbenzene	96.0	1.55	0 - 200	200	48.0	ND	50.0	5.0	1.00
Methyl Ethyl Ketone	88.6	1.36	0 - 200	200	443	ND	500	50.0	1.00
Methyl Isobutyl Ketone	96.0	1.22	0 - 200	200	480	ND	500	50.0	1.00
Methylene Chloride	91.8	3.55	0 - 200	200	45.9	ND	50.0	10.0	1.00
Methyl-tert-butyl ether (MTBE)			0 - 200	200	40.4	ND		5.0	1.00
Naphthalene	97.6	0.926	0 - 200	200	48.8	ND	50.0	5.0	1.00
n-Butyl Alcohol	84.2	1.83	0 - 200	200	842	ND	1000	200	1.00
n-Butylbenzene			0 - 200	200	50.1	ND		5.0	1.00
Nitrobenzene	103	0.122	0 - 200	200	1030	ND	1000	100	1.00
n-Propyl Benzene	101	1.47	0 - 200	200	50.6	ND	50.0	5.0	1.00
p-Isopropyltoluene	99.3	1.70	0 - 200	200	49.6	ND	50.0	5.0	1.00
sec-Butyl Benzene	103	2.02	0 - 200	200	51.6	ND	50.0	5.0	1.00
Styrene	101	1.77	0 - 200	200	50.4	ND	50.0	5.0	1.00
tert-Butylbenzene	102	0.197	0 - 200	200	50.8	ND	50.0	5.0	1.00
Tetrachloroethene	105	181	0 - 200	200	52.4	ND	50.0	5.0	1.00
Toluene	99.4	1.73	70 - 130	20	49.7	ND	50.0	5.0	1.00
trans-1,2-Dichloroethene	89.0	3.21	0 - 200	200	44.5	ND	50.0	5.0	1.00
trans-1,3-Dichloropropene	90.7	3.02	0 - 200	200	45.4	ND	50.0	5.0	1.00
Trichloroethene	101	2.09	70 - 130	20	50.7	ND	50.0	5.0	1.00
Trichlorofluoromethane	79.2	0.126	0 - 200	200	39.6	ND	50.0	5.0	1.00
Vinyl Chloride	83.9	1.65	0 - 200	200	42.0	ND	50.0	5.0	1.00
Xylenes, total			0 - 200	200	152	ND		5.0	1.00

QC Report for Work Order (WO) - 22C0710

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2540 C									
QC Sample ID: BWC0576-BLK1	Batch: BWC0576								
Date Prepared: 03/14/2022	Date Analyzed: 03/14/2022								
Total Dissolved Solids (TDS)					ND			20	1.00
Duplicate - SM 2540 C									
QC Sample ID: BWC0576-DUP1	Batch: BWC0576		QC Source Sample: 22C0710-05						
Date Prepared: 03/14/2022	Date Analyzed: 03/14/2022								
Total Dissolved Solids (TDS)	4			10	2640	2530		50	1.00
QC Sample ID: BWC0576-DUP2	Batch: BWC0576		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 03/14/2022	Date Analyzed: 03/14/2022								
Total Dissolved Solids (TDS)	1			10	2510	2480		50	1.00
LCS - SM 2540 C									
QC Sample ID: BWC0576-BS1	Batch: BWC0576								
Date Prepared: 03/14/2022	Date Analyzed: 03/14/2022								
Total Dissolved Solids (TDS)	96		90 - 110		384		400	20	1.00

Surrogates Report for Work Order (WO) - 22C0710

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260B/C /5030A								
BWC0792-BLK1	1,2-Dichloroethane-d4	83.9	64.2	126	8.39	10.0	BWC0792	1.00
BWC0792-BLK1	4-Bromofluorobenzene	97.1	71.4	122	9.71	10.0	BWC0792	1.00
BWC0792-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWC0792	1.00
LCS - EPA 8260B/C /5030A								
BWC0792-BS1	1,2-Dichloroethane-d4	80.7	64.2	126	40.4	50.0	BWC0792	1.00
BWC0792-BS1	4-Bromofluorobenzene	97.8	71.4	122	48.9	50.0	BWC0792	1.00
BWC0792-BS1	Toluene-d8	100	63.2	129	50.0	50.0	BWC0792	1.00
Matrix Spike - EPA 8260B/C /5030A								
BWC0792-MS1	1,2-Dichloroethane-d4	76.2	64.2	126	38.1	50.0	BWC0792	1.00
BWC0792-MS1	4-Bromofluorobenzene	93.9	71.4	122	47.0	50.0	BWC0792	1.00
BWC0792-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BWC0792	1.00
Matrix Spike Dup - EPA 8260B/C /5030A								
BWC0792-MSD1	1,2-Dichloroethane-d4	79.8	64.2	126	39.9	50.0	BWC0792	1.00
BWC0792-MSD1	4-Bromofluorobenzene	95.5	71.4	122	47.8	50.0	BWC0792	1.00
BWC0792-MSD1	Toluene-d8	99.1	63.2	129	49.6	50.0	BWC0792	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>
8260B Low Level Volatiles							
22C0710-03	Toluene-d8	9.57	10.0	95.7	63.2	129	
22C0710-03	4-Bromofluorobenzene	9.90	10.0	99.0	71.4	122	
22C0710-03	1,2-Dichloroethane-d4	7.58	10.0	75.8	64.2	126	
8260B Low Level Volatiles							
22C0710-07	Toluene-d8	9.85	10.0	98.5	63.2	129	
22C0710-07	4-Bromofluorobenzene	9.61	10.0	96.1	71.4	122	
22C0710-07	1,2-Dichloroethane-d4	7.78	10.0	77.8	64.2	126	



4/8/2022

Work Order: 22C0710
Project: March 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:

Patrick Noteboom, Project Manager



Energy Fuels Resources, Inc.

Project: March Ground Water 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22C0710-01	MW-11_03082022
22C0710-02	MW-25_03072022
22C0710-03	MW-26_03082022
22C0710-04	MW-30_03072022
22C0710-05	MW-31_03072022
22C0710-06	MW-65_03082022
22C0710-07	Trip Blank

Work Order Report Narrative

General Set Notes

One vial for the Chloroform analysis was received broken on sample MW-26_03082022.

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.

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	29.31	59.67	58.62	okay	2924	2929	0.17	7.86	7.90	0.51	14.30	14.28	0.14	378	376	0.53	0	0	0.00	1.0	1.0	0.00
MW-12	13.58	28.21	27.16	okay	4225	4227	0.05	6.60	6.59	0.15	13.62	13.62	0.00	293	296	1.02	1.6	1.7	6.06	13.0	13.1	0.77
MW-14	17.74	36.89	35.48	okay	3873	3869	0.10	7.05	7.07	0.28	14.23	14.20	0.21	405	404	0.25	0	0	0.00	1.0	1.0	0.00
MW-24	6.72	14.00	13.44	Pumped Dry	4398	4417	0.43	5.32	5.31	0.19	14.75	14.71	0.27	NM		NC	NM		NC	NM		NC
MW-24A	7.37	15.60	14.74	Pumped Dry	4375	4382	0.16	5.28	5.30	0.38	15.21	15.20	0.07	317	306	3.53	4.8	4.7	2.11	95.0	96.0	1.05
MW-25	21.84	52.08	43.68	okay	3170	3180	0.31	7.32	7.33	0.14	14.46	14.49	0.21	390	390	0.00	12.2	12.3	0.82	3.9	3.9	0.00
MW-26	NA	Continuously Pumped well	--		3572		NC	6.51		NC	14.56		NC	321		NC	1.2		NC	26.0		NC
MW-27	24.12	49.91	48.24	okay	1184	1186	0.17	7.89	7.88	0.13	14.82	14.82	0.00	268	269	0.37	0	0	0.00	93.6	93.7	0.11
MW-28	23	47.74	46	okay	4075	4072	0.07	6.55	6.55	0.00	13.23	13.22	0.08	260	259	0.39	1.1	1.1	0.00	27.5	27.0	1.83
MW-29	18.34	39.06	36.68	okay	4588	4588	0.00	6.94	6.96	0.29	14.40	14.42	0.14	305	303	0.66	0	0	0.00	7.0	7.1	1.42
MW-30	22.75	45.57	45.5	okay	2143	2174	1.44	7.64	7.62	0.26	15.47	15.50	0.19	393	393	0.00	0	0	0.00	51.8	53.1	2.48
MW-31	39.63	80.29	79.26	okay	3394	3397	0.09	7.44	7.51	0.94	14.50	14.51	0.07	275	273	0.73	0	0	0.00	110.3	110.4	0.09
MW-32	31.55	65.10	63.1	okay	3732	3733	0.03	6.82	6.84	0.29	14.37	14.40	0.21	279	277	0.72	3.1	3.1	0.00	21.5	21.5	0.00
MW-36	7.34	15.19	14.68	okay	4895	4901	0.12	7.49	7.52	0.40	13.99	14.00	0.07	388	388	0.00	0	0	0.00	70.3	70.5	0.28
MW-38	2.67	5.00	5.34	Pumped Dry	4377	4391	0.32	6.28	6.31	0.48	14.35	14.30	0.35	NM		NC	NM		NC	NM		NC
MW-39	24.78	52.08	49.56	okay	4725	4727	0.04	4.50	4.48	0.45	14.13	14.15	0.14	515	520	0.97	3.0	2.9	3.39	0	0	0.00
MW-40	26.42	54.25	52.84	okay	3874	3870	0.10	6.56	6.58	0.30	13.80	13.83	0.22	317	320	0.94	2.9	2.9	0.00	103.0	102.8	0.19

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

February																						
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	29.14	58.59	58.28	okay	3067	3066	0.03	7.08	7.05	0.42	14.21	14.20	0.07	228	230	0.87	1.4	1.4	0.00	2.0	1.9	5.13
MW-25	21.77	47.74	43.54	okay	3181	3183	0.06	6.78	6.77	0.15	14.35	14.31	0.28	244	246	0.82	1.0	1.1	9.52	0	0	0.00
MW-26	NA	Continuously Pumped well	--		3381		NC	7.06		NC	15.66		NC	261		NC	1.2		NC	51.0		NC
MW-30	22.67	45.57	45.34	okay	2242	2243	0.04	7.23	7.20	0.42	14.28	14.29	0.07	248	257	3.56	2.8	2.7	3.64	52.5	52.6	0.19
MW-31	39.47	80.29	78.94	okay	3386	3387	0.03	7.10	7.09	0.14	14.67	14.65	0.14	265	271	2.24	1.6	1.5	6.45	109.8	109.5	0.27
March																						
MW-11	29.26	58.59	58.52	okay	3045	3042	0.10	7.45	7.44	0.13	14.03	14.08	0.36	273	274	0.37	0	0	0.00	2.8	2.8	0.00
MW-25	21.79	45.57	43.58	okay	3186	3188	0.06	6.88	6.86	0.29	14.01	14.02	0.07	358	361	0.83	1.1	1.1	0.00	6.0	5.8	3.39
MW-26	NA	Continuously Pumped well	--		3483		NC	6.77		NC	14.44		NC	280		NC	4.0		NC	29.5		NC
MW-30	22.78	45.57	45.56	okay	2234	2230	0.18	7.11	7.12	0.14	14.13	14.15	0.14	326	326	0.00	3.4	3.3	2.99	52.0	53.5	2.84
MW-31	39.57	80.29	79.14	okay	3401	3406	0.15	7.05	7.05	0.00	13.95	14.00	0.36	352	357	1.41	4.5	4.4	2.25	109.6	109.8	0.18

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	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Benzene	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Carbon tetrachloride	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Chloroform	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Chloromethane	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Methyl ethyl ketone	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Methylene chloride	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Naphthalene	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Tetrahydrofuran	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Toluene	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Xylenes, Total	1/17/2022	1/24/2022	7	14	OK
Trip Blank	Acetone	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Benzene	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Carbon tetrachloride	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Chloroform	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Chloromethane	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Methyl ethyl ketone	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Methylene chloride	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Naphthalene	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Tetrahydrofuran	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Toluene	1/25/2022	2/1/2022	7	14	OK
Trip Blank	Xylenes, Total	1/25/2022	2/1/2022	7	14	OK
MW-11	Acetone	1/18/2022	1/24/2022	6	14	OK
MW-11	Arsenic	1/18/2022	1/24/2022	6	180	OK
MW-11	Benzene	1/18/2022	1/24/2022	6	14	OK
MW-11	Beryllium	1/18/2022	1/25/2022	7	180	OK
MW-11	Bicarbonate as CaCO3	1/18/2022	1/26/2022	8	14	OK
MW-11	Cadmium	1/18/2022	1/24/2022	6	180	OK
MW-11	Calcium	1/18/2022	1/25/2022	7	180	OK
MW-11	Carbon tetrachloride	1/18/2022	1/24/2022	6	14	OK
MW-11	Carbonate as CO3	1/18/2022	1/26/2022	8	14	OK
MW-11	Chloride	1/18/2022	1/21/2022	3	28	OK
MW-11	Chloroform	1/18/2022	1/24/2022	6	14	OK
MW-11	Chloromethane	1/18/2022	1/24/2022	6	14	OK
MW-11	Chromium	1/18/2022	1/24/2022	6	180	OK
MW-11	Cobalt	1/18/2022	1/24/2022	6	180	OK
MW-11	Copper	1/18/2022	1/24/2022	6	180	OK
MW-11	Fluoride	1/18/2022	1/22/2022	4	28	OK
MW-11	Gross Radium Alpha	1/18/2022	2/21/2022	34	180	OK
MW-11	Iron	1/18/2022	1/25/2022	7	180	OK
MW-11	Lead	1/18/2022	1/25/2022	7	180	OK
MW-11	Magnesium	1/18/2022	1/25/2022	7	180	OK
MW-11	Manganese	1/18/2022	1/24/2022	6	180	OK
MW-11	Mercury	1/18/2022	1/31/2022	13	180	OK
MW-11	Methyl ethyl ketone	1/18/2022	1/24/2022	6	14	OK
MW-11	Methylene chloride	1/18/2022	1/24/2022	6	14	OK
MW-11	Molybdenum	1/18/2022	1/24/2022	6	180	OK
MW-11	Naphthalene	1/18/2022	1/24/2022	6	14	OK
MW-11	Nickel	1/18/2022	1/24/2022	6	180	OK
MW-11	Nitrate + Nitrite as N	1/18/2022	1/25/2022	7	28	OK
MW-11	Nitrogen, Ammonia as N	1/18/2022	1/27/2022	9	28	OK
MW-11	Potassium	1/18/2022	1/25/2022	7	180	OK
MW-11	Selenium	1/18/2022	1/24/2022	6	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	1/18/2022	1/24/2022	6	180	OK
MW-11	Sodium	1/18/2022	1/25/2022	7	180	OK
MW-11	Sulfate	1/18/2022	1/21/2022	3	28	OK
MW-11	Tetrahydrofuran	1/18/2022	1/24/2022	6	14	OK
MW-11	Thallium	1/18/2022	1/25/2022	7	180	OK
MW-11	Tin	1/18/2022	1/24/2022	6	180	OK
MW-11	Toluene	1/18/2022	1/24/2022	6	14	OK
MW-11	Total Dissolved Solids	1/18/2022	1/24/2022	6	7	OK
MW-11	Uranium	1/18/2022	1/25/2022	7	180	OK
MW-11	Vanadium	1/18/2022	1/25/2022	7	180	OK
MW-11	Xylenes, Total	1/18/2022	1/24/2022	6	14	OK
MW-11	Zinc	1/18/2022	1/24/2022	6	180	OK
MW-12	Selenium	1/20/2022	1/24/2022	4	180	OK
MW-12	Uranium	1/20/2022	1/24/2022	4	180	OK
MW-14	Acetone	1/18/2022	1/24/2022	6	14	OK
MW-14	Arsenic	1/18/2022	1/24/2022	6	180	OK
MW-14	Benzene	1/18/2022	1/24/2022	6	14	OK
MW-14	Beryllium	1/18/2022	1/25/2022	7	180	OK
MW-14	Bicarbonate as CaCO3	1/18/2022	1/26/2022	8	14	OK
MW-14	Cadmium	1/18/2022	1/24/2022	6	180	OK
MW-14	Calcium	1/18/2022	1/25/2022	7	180	OK
MW-14	Carbon tetrachloride	1/18/2022	1/24/2022	6	14	OK
MW-14	Carbonate as CO3	1/18/2022	1/26/2022	8	14	OK
MW-14	Chloride	1/18/2022	1/22/2022	4	28	OK
MW-14	Chloroform	1/18/2022	1/24/2022	6	14	OK
MW-14	Chloromethane	1/18/2022	1/24/2022	6	14	OK
MW-14	Chromium	1/18/2022	1/24/2022	6	180	OK
MW-14	Cobalt	1/18/2022	1/24/2022	6	180	OK
MW-14	Copper	1/18/2022	1/24/2022	6	180	OK
MW-14	Fluoride	1/18/2022	1/22/2022	4	28	OK
MW-14	Gross Radium Alpha	1/18/2022	2/21/2022	34	180	OK
MW-14	Iron	1/18/2022	1/25/2022	7	180	OK
MW-14	Lead	1/18/2022	1/25/2022	7	180	OK
MW-14	Magnesium	1/18/2022	1/25/2022	7	180	OK
MW-14	Manganese	1/18/2022	1/24/2022	6	180	OK
MW-14	Mercury	1/18/2022	1/31/2022	13	180	OK
MW-14	Methyl ethyl ketone	1/18/2022	1/24/2022	6	14	OK
MW-14	Methylene chloride	1/18/2022	1/24/2022	6	14	OK
MW-14	Molybdenum	1/18/2022	1/24/2022	6	180	OK
MW-14	Naphthalene	1/18/2022	1/24/2022	6	14	OK
MW-14	Nickel	1/18/2022	1/24/2022	6	180	OK
MW-14	Nitrate + Nitrite as N	1/18/2022	1/25/2022	7	28	OK
MW-14	Nitrogen, Ammonia as N	1/18/2022	1/27/2022	9	28	OK
MW-14	Potassium	1/18/2022	1/25/2022	7	180	OK
MW-14	Selenium	1/18/2022	1/24/2022	6	180	OK
MW-14	Silver	1/18/2022	1/24/2022	6	180	OK
MW-14	Sodium	1/18/2022	1/25/2022	7	180	OK
MW-14	Sulfate	1/18/2022	1/21/2022	3	28	OK
MW-14	Tetrahydrofuran	1/18/2022	1/24/2022	6	14	OK
MW-14	Thallium	1/18/2022	1/25/2022	7	180	OK
MW-14	Tin	1/18/2022	1/24/2022	6	180	OK
MW-14	Toluene	1/18/2022	1/24/2022	6	14	OK
MW-14	Total Dissolved Solids	1/18/2022	1/24/2022	6	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	1/18/2022	1/25/2022	7	180	OK
MW-14	Vanadium	1/18/2022	1/25/2022	7	180	OK
MW-14	Xylenes, Total	1/18/2022	1/24/2022	6	14	OK
MW-14	Zinc	1/18/2022	1/24/2022	6	180	OK
MW-24	Acetone	1/27/2022	2/1/2022	5	14	OK
MW-24	Arsenic	1/27/2022	1/31/2022	4	180	OK
MW-24	Benzene	1/27/2022	2/1/2022	5	14	OK
MW-24	Beryllium	1/27/2022	1/31/2022	4	180	OK
MW-24	Bicarbonate as CaCO3	1/27/2022	2/3/2022	7	14	OK
MW-24	Cadmium	1/27/2022	1/31/2022	4	180	OK
MW-24	Calcium	1/27/2022	2/7/2022	11	180	OK
MW-24	Carbon tetrachloride	1/27/2022	2/1/2022	5	14	OK
MW-24	Carbonate as CO3	1/27/2022	2/3/2022	7	14	OK
MW-24	Chloride	1/27/2022	2/2/2022	6	28	OK
MW-24	Chloroform	1/27/2022	2/1/2022	5	14	OK
MW-24	Chloromethane	1/27/2022	2/1/2022	5	14	OK
MW-24	Chromium	1/27/2022	1/31/2022	4	180	OK
MW-24	Cobalt	1/27/2022	1/31/2022	4	180	OK
MW-24	Copper	1/27/2022	1/31/2022	4	180	OK
MW-24	Fluoride	1/27/2022	2/2/2022	6	28	OK
MW-24	Gross Radium Alpha	1/27/2022	2/21/2022	25	180	OK
MW-24	Iron	1/27/2022	1/31/2022	4	180	OK
MW-24	Lead	1/27/2022	1/31/2022	4	180	OK
MW-24	Magnesium	1/27/2022	2/7/2022	11	180	OK
MW-24	Manganese	1/27/2022	1/31/2022	4	180	OK
MW-24	Mercury	1/27/2022	2/1/2022	5	180	OK
MW-24	Methyl ethyl ketone	1/27/2022	2/1/2022	5	14	OK
MW-24	Methylene chloride	1/27/2022	2/1/2022	5	14	OK
MW-24	Molybdenum	1/27/2022	1/31/2022	4	180	OK
MW-24	Naphthalene	1/27/2022	2/1/2022	5	14	OK
MW-24	Nickel	1/27/2022	1/31/2022	4	180	OK
MW-24	Nitrate + Nitrite as N	1/27/2022	2/9/2022	13	28	OK
MW-24	Nitrogen, Ammonia as N	1/27/2022	2/9/2022	13	28	OK
MW-24	Potassium	1/27/2022	2/7/2022	11	180	OK
MW-24	Selenium	1/27/2022	1/31/2022	4	180	OK
MW-24	Silver	1/27/2022	1/31/2022	4	180	OK
MW-24	Sodium	1/27/2022	2/7/2022	11	180	OK
MW-24	Sulfate	1/27/2022	2/2/2022	6	28	OK
MW-24	Tetrahydrofuran	1/27/2022	2/1/2022	5	14	OK
MW-24	Thallium	1/27/2022	1/31/2022	4	180	OK
MW-24	Tin	1/27/2022	1/31/2022	4	180	OK
MW-24	Toluene	1/27/2022	2/1/2022	5	14	OK
MW-24	Total Dissolved Solids	1/27/2022	2/1/2022	5	7	OK
MW-24	Uranium	1/27/2022	1/31/2022	4	180	OK
MW-24	Vanadium	1/27/2022	2/7/2022	11	180	OK
MW-24	Xylenes, Total	1/27/2022	2/1/2022	5	14	OK
MW-24	Zinc	1/27/2022	1/31/2022	4	180	OK
MW-24A	Acetone	1/26/2022	2/1/2022	6	14	OK
MW-24A	Arsenic	1/26/2022	1/31/2022	5	180	OK
MW-24A	Benzene	1/26/2022	2/1/2022	6	14	OK
MW-24A	Beryllium	1/26/2022	1/31/2022	5	180	OK
MW-24A	Bicarbonate as CaCO3	1/26/2022	2/3/2022	8	14	OK
MW-24A	Cadmium	1/26/2022	1/31/2022	5	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	1/26/2022	2/7/2022	12	180	OK
MW-24A	Carbon tetrachloride	1/26/2022	2/1/2022	6	14	OK
MW-24A	Carbonate as CO3	1/26/2022	2/3/2022	8	14	OK
MW-24A	Chloride	1/26/2022	1/29/2022	3	28	OK
MW-24A	Chloroform	1/26/2022	2/1/2022	6	14	OK
MW-24A	Chloromethane	1/26/2022	2/1/2022	6	14	OK
MW-24A	Chromium	1/26/2022	1/31/2022	5	180	OK
MW-24A	Cobalt	1/26/2022	1/31/2022	5	180	OK
MW-24A	Copper	1/26/2022	1/31/2022	5	180	OK
MW-24A	Fluoride	1/26/2022	2/2/2022	7	28	OK
MW-24A	Gross Radium Alpha	1/26/2022	2/21/2022	26	180	OK
MW-24A	Iron	1/26/2022	1/31/2022	5	180	OK
MW-24A	Lead	1/26/2022	1/31/2022	5	180	OK
MW-24A	Magnesium	1/26/2022	2/7/2022	12	180	OK
MW-24A	Manganese	1/26/2022	1/31/2022	5	180	OK
MW-24A	Mercury	1/26/2022	2/1/2022	6	180	OK
MW-24A	Methyl ethyl ketone	1/26/2022	2/1/2022	6	14	OK
MW-24A	Methylene chloride	1/26/2022	2/1/2022	6	14	OK
MW-24A	Molybdenum	1/26/2022	1/31/2022	5	180	OK
MW-24A	Naphthalene	1/26/2022	2/1/2022	6	14	OK
MW-24A	Nickel	1/26/2022	1/31/2022	5	180	OK
MW-24A	Nitrate + Nitrite as N	1/26/2022	2/9/2022	14	28	OK
MW-24A	Nitrogen, Ammonia as N	1/26/2022	2/9/2022	14	28	OK
MW-24A	Potassium	1/26/2022	2/7/2022	12	180	OK
MW-24A	Selenium	1/26/2022	1/31/2022	5	180	OK
MW-24A	Silver	1/26/2022	1/31/2022	5	180	OK
MW-24A	Sodium	1/26/2022	2/7/2022	12	180	OK
MW-24A	Sulfate	1/26/2022	2/2/2022	7	28	OK
MW-24A	Tetrahydrofuran	1/26/2022	2/1/2022	6	14	OK
MW-24A	Thallium	1/26/2022	1/31/2022	5	180	OK
MW-24A	Tin	1/26/2022	1/31/2022	5	180	OK
MW-24A	Toluene	1/26/2022	2/1/2022	6	14	OK
MW-24A	Total Dissolved Solids	1/26/2022	1/31/2022	5	7	OK
MW-24A	Uranium	1/26/2022	1/31/2022	5	180	OK
MW-24A	Vanadium	1/26/2022	2/7/2022	12	180	OK
MW-24A	Xylenes, Total	1/26/2022	2/1/2022	6	14	OK
MW-24A	Zinc	1/26/2022	1/31/2022	5	180	OK
MW-25	Acetone	1/17/2022	1/24/2022	7	14	OK
MW-25	Arsenic	1/17/2022	1/24/2022	7	180	OK
MW-25	Benzene	1/17/2022	1/24/2022	7	14	OK
MW-25	Beryllium	1/17/2022	1/25/2022	8	180	OK
MW-25	Bicarbonate as CaCO3	1/17/2022	1/26/2022	9	14	OK
MW-25	Cadmium	1/17/2022	1/24/2022	7	180	OK
MW-25	Calcium	1/17/2022	1/25/2022	8	180	OK
MW-25	Carbon tetrachloride	1/17/2022	1/24/2022	7	14	OK
MW-25	Carbonate as CO3	1/17/2022	1/26/2022	9	14	OK
MW-25	Chloride	1/17/2022	1/22/2022	5	28	OK
MW-25	Chloroform	1/17/2022	1/24/2022	7	14	OK
MW-25	Chloromethane	1/17/2022	1/24/2022	7	14	OK
MW-25	Chromium	1/17/2022	1/24/2022	7	180	OK
MW-25	Cobalt	1/17/2022	1/24/2022	7	180	OK
MW-25	Copper	1/17/2022	1/24/2022	7	180	OK
MW-25	Fluoride	1/17/2022	1/25/2022	8	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	1/17/2022	2/21/2022	35	180	OK
MW-25	Iron	1/17/2022	1/25/2022	8	180	OK
MW-25	Lead	1/17/2022	1/25/2022	8	180	OK
MW-25	Magnesium	1/17/2022	1/25/2022	8	180	OK
MW-25	Manganese	1/17/2022	1/24/2022	7	180	OK
MW-25	Mercury	1/17/2022	1/31/2022	14	180	OK
MW-25	Methyl ethyl ketone	1/17/2022	1/24/2022	7	14	OK
MW-25	Methylene chloride	1/17/2022	1/24/2022	7	14	OK
MW-25	Molybdenum	1/17/2022	1/24/2022	7	180	OK
MW-25	Naphthalene	1/17/2022	1/24/2022	7	14	OK
MW-25	Nickel	1/17/2022	1/24/2022	7	180	OK
MW-25	Nitrate + Nitrite as N	1/17/2022	1/25/2022	8	28	OK
MW-25	Nitrogen, Ammonia as N	1/17/2022	1/27/2022	10	28	OK
MW-25	Potassium	1/17/2022	1/25/2022	8	180	OK
MW-25	Selenium	1/17/2022	1/24/2022	7	180	OK
MW-25	Silver	1/17/2022	1/24/2022	7	180	OK
MW-25	Sodium	1/17/2022	1/25/2022	8	180	OK
MW-25	Sulfate	1/17/2022	1/21/2022	4	28	OK
MW-25	Tetrahydrofuran	1/17/2022	1/24/2022	7	14	OK
MW-25	Thallium	1/17/2022	1/25/2022	8	180	OK
MW-25	Tin	1/17/2022	1/24/2022	7	180	OK
MW-25	Toluene	1/17/2022	1/24/2022	7	14	OK
MW-25	Total Dissolved Solids	1/17/2022	1/24/2022	7	7	OK
MW-25	Uranium	1/17/2022	1/24/2022	7	180	OK
MW-25	Vanadium	1/17/2022	1/25/2022	8	180	OK
MW-25	Xylenes, Total	1/17/2022	1/24/2022	7	14	OK
MW-25	Zinc	1/17/2022	1/24/2022	7	180	OK
MW-26	Acetone	1/20/2022	1/24/2022	4	14	OK
MW-26	Arsenic	1/20/2022	1/24/2022	4	180	OK
MW-26	Benzene	1/20/2022	1/24/2022	4	14	OK
MW-26	Beryllium	1/20/2022	1/25/2022	5	180	OK
MW-26	Bicarbonate as CaCO3	1/20/2022	1/26/2022	6	14	OK
MW-26	Cadmium	1/20/2022	1/24/2022	4	180	OK
MW-26	Calcium	1/20/2022	1/25/2022	5	180	OK
MW-26	Carbon tetrachloride	1/20/2022	1/24/2022	4	14	OK
MW-26	Carbonate as CO3	1/20/2022	1/26/2022	6	14	OK
MW-26	Chloride	1/20/2022	1/21/2022	1	28	OK
MW-26	Chloroform	1/20/2022	1/25/2022	5	14	OK
MW-26	Chloromethane	1/20/2022	1/24/2022	4	14	OK
MW-26	Chromium	1/20/2022	1/24/2022	4	180	OK
MW-26	Cobalt	1/20/2022	1/24/2022	4	180	OK
MW-26	Copper	1/20/2022	1/24/2022	4	180	OK
MW-26	Fluoride	1/20/2022	1/22/2022	2	28	OK
MW-26	Gross Radium Alpha	1/20/2022	2/21/2022	32	180	OK
MW-26	Iron	1/20/2022	1/24/2022	4	180	OK
MW-26	Lead	1/20/2022	1/25/2022	5	180	OK
MW-26	Magnesium	1/20/2022	1/25/2022	5	180	OK
MW-26	Manganese	1/20/2022	1/24/2022	4	180	OK
MW-26	Mercury	1/20/2022	1/31/2022	11	180	OK
MW-26	Methyl ethyl ketone	1/20/2022	1/24/2022	4	14	OK
MW-26	Methylene chloride	1/20/2022	1/24/2022	4	14	OK
MW-26	Molybdenum	1/20/2022	1/24/2022	4	180	OK
MW-26	Naphthalene	1/20/2022	1/24/2022	4	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-26	Nickel	1/20/2022	1/24/2022	4	180	OK
MW-26	Nitrate + Nitrite as N	1/20/2022	1/25/2022	5	28	OK
MW-26	Nitrogen, Ammonia as N	1/20/2022	1/27/2022	7	28	OK
MW-26	Potassium	1/20/2022	1/25/2022	5	180	OK
MW-26	Selenium	1/20/2022	1/24/2022	4	180	OK
MW-26	Silver	1/20/2022	1/24/2022	4	180	OK
MW-26	Sodium	1/20/2022	1/25/2022	5	180	OK
MW-26	Sulfate	1/20/2022	1/21/2022	1	28	OK
MW-26	Tetrahydrofuran	1/20/2022	1/24/2022	4	14	OK
MW-26	Thallium	1/20/2022	1/25/2022	5	180	OK
MW-26	Tin	1/20/2022	1/24/2022	4	180	OK
MW-26	Toluene	1/20/2022	1/24/2022	4	14	OK
MW-26	Total Dissolved Solids	1/20/2022	1/24/2022	4	7	OK
MW-26	Uranium	1/20/2022	1/24/2022	4	180	OK
MW-26	Vanadium	1/20/2022	1/25/2022	5	180	OK
MW-26	Xylenes, Total	1/20/2022	1/24/2022	4	14	OK
MW-26	Zinc	1/20/2022	1/24/2022	4	180	OK
MW-27	Nitrate + Nitrite as N	1/18/2022	1/25/2022	7	28	OK
MW-28	Chloride	1/20/2022	1/21/2022	1	28	OK
MW-28	Nitrate + Nitrite as N	1/20/2022	1/25/2022	5	28	OK
MW-28	Selenium	1/20/2022	1/24/2022	4	180	OK
MW-28	Uranium	1/20/2022	1/24/2022	4	180	OK
MW-29	Uranium	1/18/2022	1/24/2022	6	180	OK
MW-30	Acetone	1/17/2022	1/24/2022	7	14	OK
MW-30	Arsenic	1/17/2022	1/24/2022	7	180	OK
MW-30	Benzene	1/17/2022	1/24/2022	7	14	OK
MW-30	Beryllium	1/17/2022	1/25/2022	8	180	OK
MW-30	Bicarbonate as CaCO3	1/17/2022	1/26/2022	9	14	OK
MW-30	Cadmium	1/17/2022	1/24/2022	7	180	OK
MW-30	Calcium	1/17/2022	1/25/2022	8	180	OK
MW-30	Carbon tetrachloride	1/17/2022	1/24/2022	7	14	OK
MW-30	Carbonate as CO3	1/17/2022	1/26/2022	9	14	OK
MW-30	Chloride	1/17/2022	1/21/2022	4	28	OK
MW-30	Chloroform	1/17/2022	1/24/2022	7	14	OK
MW-30	Chloromethane	1/17/2022	1/24/2022	7	14	OK
MW-30	Chromium	1/17/2022	1/24/2022	7	180	OK
MW-30	Cobalt	1/17/2022	1/24/2022	7	180	OK
MW-30	Copper	1/17/2022	1/24/2022	7	180	OK
MW-30	Fluoride	1/17/2022	1/22/2022	5	28	OK
MW-30	Gross Radium Alpha	1/17/2022	2/21/2022	35	180	OK
MW-30	Iron	1/17/2022	1/25/2022	8	180	OK
MW-30	Lead	1/17/2022	1/25/2022	8	180	OK
MW-30	Magnesium	1/17/2022	1/25/2022	8	180	OK
MW-30	Manganese	1/17/2022	1/24/2022	7	180	OK
MW-30	Mercury	1/17/2022	1/31/2022	14	180	OK
MW-30	Methyl ethyl ketone	1/17/2022	1/24/2022	7	14	OK
MW-30	Methylene chloride	1/17/2022	1/24/2022	7	14	OK
MW-30	Molybdenum	1/17/2022	1/24/2022	7	180	OK
MW-30	Naphthalene	1/17/2022	1/24/2022	7	14	OK
MW-30	Nickel	1/17/2022	1/24/2022	7	180	OK
MW-30	Nitrate + Nitrite as N	1/17/2022	1/25/2022	8	28	OK
MW-30	Nitrogen, Ammonia as N	1/17/2022	1/27/2022	10	28	OK
MW-30	Potassium	1/17/2022	1/25/2022	8	180	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	Selenium	1/17/2022	1/24/2022	7	180	OK
MW-30	Silver	1/17/2022	1/24/2022	7	180	OK
MW-30	Sodium	1/17/2022	1/25/2022	8	180	OK
MW-30	Sulfate	1/17/2022	1/21/2022	4	28	OK
MW-30	Tetrahydrofuran	1/17/2022	1/24/2022	7	14	OK
MW-30	Thallium	1/17/2022	1/25/2022	8	180	OK
MW-30	Tin	1/17/2022	1/24/2022	7	180	OK
MW-30	Toluene	1/17/2022	1/24/2022	7	14	OK
MW-30	Total Dissolved Solids	1/17/2022	1/24/2022	7	7	OK
MW-30	Uranium	1/17/2022	1/24/2022	7	180	OK
MW-30	Vanadium	1/17/2022	1/25/2022	8	180	OK
MW-30	Xylenes, Total	1/17/2022	1/24/2022	7	14	OK
MW-30	Zinc	1/17/2022	1/24/2022	7	180	OK
MW-31	Acetone	1/19/2022	1/24/2022	5	14	OK
MW-31	Arsenic	1/19/2022	1/24/2022	5	180	OK
MW-31	Benzene	1/19/2022	1/24/2022	5	14	OK
MW-31	Beryllium	1/19/2022	1/25/2022	6	180	OK
MW-31	Bicarbonate as CaCO3	1/19/2022	1/26/2022	7	14	OK
MW-31	Cadmium	1/19/2022	1/24/2022	5	180	OK
MW-31	Calcium	1/19/2022	1/25/2022	6	180	OK
MW-31	Carbon tetrachloride	1/19/2022	1/24/2022	5	14	OK
MW-31	Carbonate as CO3	1/19/2022	1/26/2022	7	14	OK
MW-31	Chloride	1/19/2022	1/21/2022	2	28	OK
MW-31	Chloroform	1/19/2022	1/24/2022	5	14	OK
MW-31	Chloromethane	1/19/2022	1/24/2022	5	14	OK
MW-31	Chromium	1/19/2022	1/24/2022	5	180	OK
MW-31	Cobalt	1/19/2022	1/24/2022	5	180	OK
MW-31	Copper	1/19/2022	1/24/2022	5	180	OK
MW-31	Fluoride	1/19/2022	1/22/2022	3	28	OK
MW-31	Gross Radium Alpha	1/19/2022	2/21/2022	33	180	OK
MW-31	Iron	1/19/2022	1/25/2022	6	180	OK
MW-31	Lead	1/19/2022	1/25/2022	6	180	OK
MW-31	Magnesium	1/19/2022	1/25/2022	6	180	OK
MW-31	Manganese	1/19/2022	1/24/2022	5	180	OK
MW-31	Mercury	1/19/2022	1/31/2022	12	180	OK
MW-31	Methyl ethyl ketone	1/19/2022	1/24/2022	5	14	OK
MW-31	Methylene chloride	1/19/2022	1/24/2022	5	14	OK
MW-31	Molybdenum	1/19/2022	1/24/2022	5	180	OK
MW-31	Naphthalene	1/19/2022	1/24/2022	5	14	OK
MW-31	Nickel	1/19/2022	1/24/2022	5	180	OK
MW-31	Nitrate + Nitrite as N	1/19/2022	1/25/2022	6	28	OK
MW-31	Nitrogen, Ammonia as N	1/19/2022	1/27/2022	8	28	OK
MW-31	Potassium	1/19/2022	1/25/2022	6	180	OK
MW-31	Selenium	1/19/2022	1/24/2022	5	180	OK
MW-31	Silver	1/19/2022	1/24/2022	5	180	OK
MW-31	Sodium	1/19/2022	1/25/2022	6	180	OK
MW-31	Sulfate	1/19/2022	1/21/2022	2	28	OK
MW-31	Tetrahydrofuran	1/19/2022	1/24/2022	5	14	OK
MW-31	Thallium	1/19/2022	1/25/2022	6	180	OK
MW-31	Tin	1/19/2022	1/24/2022	5	180	OK
MW-31	Toluene	1/19/2022	1/24/2022	5	14	OK
MW-31	Total Dissolved Solids	1/19/2022	1/24/2022	5	7	OK
MW-31	Uranium	1/19/2022	1/24/2022	5	180	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	Vanadium	1/19/2022	1/25/2022	6	180	OK
MW-31	Xylenes, Total	1/19/2022	1/24/2022	5	14	OK
MW-31	Zinc	1/19/2022	1/24/2022	5	180	OK
MW-32	Chloride	1/19/2022	1/21/2022	2	28	OK
MW-36	Acetone	1/17/2022	1/24/2022	7	14	OK
MW-36	Arsenic	1/17/2022	1/24/2022	7	180	OK
MW-36	Benzene	1/17/2022	1/24/2022	7	14	OK
MW-36	Beryllium	1/17/2022	1/25/2022	8	180	OK
MW-36	Bicarbonate as CaCO3	1/17/2022	1/26/2022	9	14	OK
MW-36	Cadmium	1/17/2022	1/24/2022	7	180	OK
MW-36	Calcium	1/17/2022	1/25/2022	8	180	OK
MW-36	Carbon tetrachloride	1/17/2022	1/24/2022	7	14	OK
MW-36	Carbonate as CO3	1/17/2022	1/26/2022	9	14	OK
MW-36	Chloride	1/17/2022	1/21/2022	4	28	OK
MW-36	Chloroform	1/17/2022	1/24/2022	7	14	OK
MW-36	Chloromethane	1/17/2022	1/24/2022	7	14	OK
MW-36	Chromium	1/17/2022	1/24/2022	7	180	OK
MW-36	Cobalt	1/17/2022	1/24/2022	7	180	OK
MW-36	Copper	1/17/2022	1/24/2022	7	180	OK
MW-36	Fluoride	1/17/2022	1/22/2022	5	28	OK
MW-36	Gross Radium Alpha	1/17/2022	2/21/2022	35	180	OK
MW-36	Iron	1/17/2022	1/25/2022	8	180	OK
MW-36	Lead	1/17/2022	1/25/2022	8	180	OK
MW-36	Magnesium	1/17/2022	1/25/2022	8	180	OK
MW-36	Manganese	1/17/2022	1/24/2022	7	180	OK
MW-36	Mercury	1/17/2022	1/31/2022	14	180	OK
MW-36	Methyl ethyl ketone	1/17/2022	1/24/2022	7	14	OK
MW-36	Methylene chloride	1/17/2022	1/24/2022	7	14	OK
MW-36	Molybdenum	1/17/2022	1/24/2022	7	180	OK
MW-36	Naphthalene	1/17/2022	1/24/2022	7	14	OK
MW-36	Nickel	1/17/2022	1/24/2022	7	180	OK
MW-36	Nitrate + Nitrite as N	1/17/2022	1/25/2022	8	28	OK
MW-36	Nitrogen, Ammonia as N	1/17/2022	1/27/2022	10	28	OK
MW-36	Potassium	1/17/2022	1/25/2022	8	180	OK
MW-36	Selenium	1/17/2022	1/24/2022	7	180	OK
MW-36	Silver	1/17/2022	1/24/2022	7	180	OK
MW-36	Sodium	1/17/2022	1/25/2022	8	180	OK
MW-36	Sulfate	1/17/2022	1/21/2022	4	28	OK
MW-36	Tetrahydrofuran	1/17/2022	1/24/2022	7	14	OK
MW-36	Thallium	1/17/2022	1/25/2022	8	180	OK
MW-36	Tin	1/17/2022	1/24/2022	7	180	OK
MW-36	Toluene	1/17/2022	1/24/2022	7	14	OK
MW-36	Total Dissolved Solids	1/17/2022	1/24/2022	7	7	OK
MW-36	Uranium	1/17/2022	1/24/2022	7	180	OK
MW-36	Vanadium	1/17/2022	1/25/2022	8	180	OK
MW-36	Xylenes, Total	1/17/2022	1/24/2022	7	14	OK
MW-36	Zinc	1/17/2022	1/24/2022	7	180	OK
MW-38	Acetone	1/27/2022	2/1/2022	5	14	OK
MW-38	Arsenic	1/27/2022	1/31/2022	4	180	OK
MW-38	Benzene	1/27/2022	2/1/2022	5	14	OK
MW-38	Beryllium	1/27/2022	2/18/2022	22	180	OK
MW-38	Bicarbonate as CaCO3	1/27/2022	2/2/2022	6	14	OK
MW-38	Cadmium	1/27/2022	1/31/2022	4	180	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	Calcium	1/27/2022	2/7/2022	11	180	OK
MW-38	Carbon tetrachloride	1/27/2022	2/1/2022	5	14	OK
MW-38	Carbonate as CO3	1/27/2022	2/2/2022	6	14	OK
MW-38	Chloride	1/27/2022	1/29/2022	2	28	OK
MW-38	Chloroform	1/27/2022	2/1/2022	5	14	OK
MW-38	Chloromethane	1/27/2022	2/1/2022	5	14	OK
MW-38	Chromium	1/27/2022	1/31/2022	4	180	OK
MW-38	Cobalt	1/27/2022	1/31/2022	4	180	OK
MW-38	Copper	1/27/2022	1/31/2022	4	180	OK
MW-38	Fluoride	1/27/2022	2/2/2022	6	28	OK
MW-38	Gross Radium Alpha	1/27/2022	2/21/2022	25	180	OK
MW-38	Iron	1/27/2022	1/31/2022	4	180	OK
MW-38	Lead	1/27/2022	1/31/2022	4	180	OK
MW-38	Magnesium	1/27/2022	2/7/2022	11	180	OK
MW-38	Manganese	1/27/2022	1/31/2022	4	180	OK
MW-38	Mercury	1/27/2022	2/1/2022	5	180	OK
MW-38	Methyl ethyl ketone	1/27/2022	2/1/2022	5	14	OK
MW-38	Methylene chloride	1/27/2022	2/1/2022	5	14	OK
MW-38	Molybdenum	1/27/2022	1/31/2022	4	180	OK
MW-38	Naphthalene	1/27/2022	2/1/2022	5	14	OK
MW-38	Nickel	1/27/2022	1/31/2022	4	180	OK
MW-38	Nitrate + Nitrite as N	1/27/2022	2/9/2022	13	28	OK
MW-38	Nitrogen, Ammonia as N	1/27/2022	2/14/2022	18	28	OK
MW-38	Potassium	1/27/2022	2/7/2022	11	180	OK
MW-38	Selenium	1/27/2022	1/31/2022	4	180	OK
MW-38	Silver	1/27/2022	1/31/2022	4	180	OK
MW-38	Sodium	1/27/2022	2/7/2022	11	180	OK
MW-38	Sulfate	1/27/2022	2/2/2022	6	28	OK
MW-38	Tetrahydrofuran	1/27/2022	2/1/2022	5	14	OK
MW-38	Thallium	1/27/2022	1/31/2022	4	180	OK
MW-38	Tin	1/27/2022	1/31/2022	4	180	OK
MW-38	Toluene	1/27/2022	2/1/2022	5	14	OK
MW-38	Total Dissolved Solids	1/27/2022	2/2/2022	6	7	OK
MW-38	Uranium	1/27/2022	1/31/2022	4	180	OK
MW-38	Vanadium	1/27/2022	2/7/2022	11	180	OK
MW-38	Xylenes, Total	1/27/2022	2/1/2022	5	14	OK
MW-38	Zinc	1/27/2022	1/31/2022	4	180	OK
MW-39	Acetone	1/26/2022	2/1/2022	6	14	OK
MW-39	Arsenic	1/26/2022	1/31/2022	5	180	OK
MW-39	Benzene	1/26/2022	2/1/2022	6	14	OK
MW-39	Beryllium	1/26/2022	1/31/2022	5	180	OK
MW-39	Bicarbonate as CaCO3	1/26/2022	2/3/2022	8	14	OK
MW-39	Cadmium	1/26/2022	1/31/2022	5	180	OK
MW-39	Calcium	1/26/2022	2/7/2022	12	180	OK
MW-39	Carbon tetrachloride	1/26/2022	2/1/2022	6	14	OK
MW-39	Carbonate as CO3	1/26/2022	2/3/2022	8	14	OK
MW-39	Chloride	1/26/2022	1/29/2022	3	28	OK
MW-39	Chloroform	1/26/2022	2/1/2022	6	14	OK
MW-39	Chloromethane	1/26/2022	2/1/2022	6	14	OK
MW-39	Chromium	1/26/2022	1/31/2022	5	180	OK
MW-39	Cobalt	1/26/2022	1/31/2022	5	180	OK
MW-39	Copper	1/26/2022	1/31/2022	5	180	OK
MW-39	Fluoride	1/26/2022	2/2/2022	7	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-39	Gross Radium Alpha	1/26/2022	2/21/2022	26	180	OK
MW-39	Iron	1/26/2022	2/1/2022	6	180	OK
MW-39	Lead	1/26/2022	1/31/2022	5	180	OK
MW-39	Magnesium	1/26/2022	2/7/2022	12	180	OK
MW-39	Manganese	1/26/2022	2/1/2022	6	180	OK
MW-39	Mercury	1/26/2022	2/1/2022	6	180	OK
MW-39	Methyl ethyl ketone	1/26/2022	2/1/2022	6	14	OK
MW-39	Methylene chloride	1/26/2022	2/1/2022	6	14	OK
MW-39	Molybdenum	1/26/2022	1/31/2022	5	180	OK
MW-39	Naphthalene	1/26/2022	2/1/2022	6	14	OK
MW-39	Nickel	1/26/2022	1/31/2022	5	180	OK
MW-39	Nitrate + Nitrite as N	1/26/2022	2/9/2022	14	28	OK
MW-39	Nitrogen, Ammonia as N	1/26/2022	2/9/2022	14	28	OK
MW-39	Potassium	1/26/2022	2/7/2022	12	180	OK
MW-39	Selenium	1/26/2022	1/31/2022	5	180	OK
MW-39	Silver	1/26/2022	1/31/2022	5	180	OK
MW-39	Sodium	1/26/2022	2/7/2022	12	180	OK
MW-39	Sulfate	1/26/2022	2/2/2022	7	28	OK
MW-39	Tetrahydrofuran	1/26/2022	2/1/2022	6	14	OK
MW-39	Thallium	1/26/2022	1/31/2022	5	180	OK
MW-39	Tin	1/26/2022	1/31/2022	5	180	OK
MW-39	Toluene	1/26/2022	2/1/2022	6	14	OK
MW-39	Total Dissolved Solids	1/26/2022	2/1/2022	6	7	OK
MW-39	Uranium	1/26/2022	1/31/2022	5	180	OK
MW-39	Vanadium	1/26/2022	2/7/2022	12	180	OK
MW-39	Xylenes, Total	1/26/2022	2/1/2022	6	14	OK
MW-39	Zinc	1/26/2022	1/31/2022	5	180	OK
MW-40	Acetone	1/25/2022	2/1/2022	7	14	OK
MW-40	Arsenic	1/25/2022	1/31/2022	6	180	OK
MW-40	Benzene	1/25/2022	2/1/2022	7	14	OK
MW-40	Beryllium	1/25/2022	2/18/2022	24	180	OK
MW-40	Bicarbonate as CaCO3	1/25/2022	2/2/2022	8	14	OK
MW-40	Cadmium	1/25/2022	1/31/2022	6	180	OK
MW-40	Calcium	1/25/2022	2/7/2022	13	180	OK
MW-40	Carbon tetrachloride	1/25/2022	2/1/2022	7	14	OK
MW-40	Carbonate as CO3	1/25/2022	2/2/2022	8	14	OK
MW-40	Chloride	1/25/2022	1/29/2022	4	28	OK
MW-40	Chloroform	1/25/2022	2/1/2022	7	14	OK
MW-40	Chloromethane	1/25/2022	2/1/2022	7	14	OK
MW-40	Chromium	1/25/2022	1/31/2022	6	180	OK
MW-40	Cobalt	1/25/2022	1/31/2022	6	180	OK
MW-40	Copper	1/25/2022	1/31/2022	6	180	OK
MW-40	Fluoride	1/25/2022	2/2/2022	8	28	OK
MW-40	Gross Radium Alpha	1/25/2022	2/21/2022	27	180	OK
MW-40	Iron	1/25/2022	1/31/2022	6	180	OK
MW-40	Lead	1/25/2022	1/31/2022	6	180	OK
MW-40	Magnesium	1/25/2022	2/7/2022	13	180	OK
MW-40	Manganese	1/25/2022	1/31/2022	6	180	OK
MW-40	Mercury	1/25/2022	2/1/2022	7	180	OK
MW-40	Methyl ethyl ketone	1/25/2022	2/1/2022	7	14	OK
MW-40	Methylene chloride	1/25/2022	2/1/2022	7	14	OK
MW-40	Molybdenum	1/25/2022	1/31/2022	6	180	OK
MW-40	Naphthalene	1/25/2022	2/1/2022	7	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-40	Nickel	1/25/2022	1/31/2022	6	180	OK
MW-40	Nitrate + Nitrite as N	1/25/2022	2/9/2022	15	28	OK
MW-40	Nitrogen, Ammonia as N	1/25/2022	2/9/2022	15	28	OK
MW-40	Potassium	1/25/2022	2/7/2022	13	180	OK
MW-40	Selenium	1/25/2022	1/31/2022	6	180	OK
MW-40	Silver	1/25/2022	1/31/2022	6	180	OK
MW-40	Sodium	1/25/2022	2/7/2022	13	180	OK
MW-40	Sulfate	1/25/2022	2/2/2022	8	28	OK
MW-40	Tetrahydrofuran	1/25/2022	2/1/2022	7	14	OK
MW-40	Thallium	1/25/2022	1/31/2022	6	180	OK
MW-40	Tin	1/25/2022	1/31/2022	6	180	OK
MW-40	Toluene	1/25/2022	2/1/2022	7	14	OK
MW-40	Uranium	1/25/2022	1/31/2022	6	180	OK
MW-40	Vanadium	1/25/2022	2/7/2022	13	180	OK
MW-40	Xylenes, Total	1/25/2022	2/1/2022	7	14	OK
MW-40	Zinc	1/25/2022	1/31/2022	6	180	OK
MW-65	Acetone	1/19/2022	1/24/2022	5	14	OK
MW-65	Arsenic	1/19/2022	1/24/2022	5	180	OK
MW-65	Benzene	1/19/2022	1/24/2022	5	14	OK
MW-65	Beryllium	1/19/2022	1/25/2022	6	180	OK
MW-65	Bicarbonate as CaCO3	1/19/2022	1/26/2022	7	14	OK
MW-65	Cadmium	1/19/2022	1/24/2022	5	180	OK
MW-65	Calcium	1/19/2022	1/25/2022	6	180	OK
MW-65	Carbon tetrachloride	1/19/2022	1/24/2022	5	14	OK
MW-65	Carbonate as CO3	1/19/2022	1/26/2022	7	14	OK
MW-65	Chloride	1/19/2022	1/21/2022	2	28	OK
MW-65	Chloroform	1/19/2022	1/24/2022	5	14	OK
MW-65	Chloromethane	1/19/2022	1/24/2022	5	14	OK
MW-65	Chromium	1/19/2022	1/24/2022	5	180	OK
MW-65	Cobalt	1/19/2022	1/24/2022	5	180	OK
MW-65	Copper	1/19/2022	1/24/2022	5	180	OK
MW-65	Fluoride	1/19/2022	1/22/2022	3	28	OK
MW-65	Gross Radium Alpha	1/19/2022	2/21/2022	33	180	OK
MW-65	Iron	1/19/2022	1/25/2022	6	180	OK
MW-65	Lead	1/19/2022	1/25/2022	6	180	OK
MW-65	Magnesium	1/19/2022	1/25/2022	6	180	OK
MW-65	Manganese	1/19/2022	1/24/2022	5	180	OK
MW-65	Mercury	1/19/2022	1/31/2022	12	180	OK
MW-65	Methyl ethyl ketone	1/19/2022	1/24/2022	5	14	OK
MW-65	Methylene chloride	1/19/2022	1/24/2022	5	14	OK
MW-65	Molybdenum	1/19/2022	1/24/2022	5	180	OK
MW-65	Naphthalene	1/19/2022	1/24/2022	5	14	OK
MW-65	Nickel	1/19/2022	1/24/2022	5	180	OK
MW-65	Nitrate + Nitrite as N	1/19/2022	1/25/2022	6	28	OK
MW-65	Nitrogen, Ammonia as N	1/19/2022	1/27/2022	8	28	OK
MW-65	Potassium	1/19/2022	1/25/2022	6	180	OK
MW-65	Selenium	1/19/2022	1/24/2022	5	180	OK
MW-65	Silver	1/19/2022	1/24/2022	5	180	OK
MW-65	Sodium	1/19/2022	1/25/2022	6	180	OK
MW-65	Sulfate	1/19/2022	1/21/2022	2	28	OK
MW-65	Tetrahydrofuran	1/19/2022	1/24/2022	5	14	OK
MW-65	Thallium	1/19/2022	1/25/2022	6	180	OK
MW-65	Tin	1/19/2022	1/24/2022	5	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-65	Toluene	1/19/2022	1/24/2022	5	14	OK
MW-65	Total Dissolved Solids	1/19/2022	1/24/2022	5	7	OK
MW-65	Uranium	1/19/2022	1/24/2022	5	180	OK
MW-65	Vanadium	1/19/2022	1/25/2022	6	180	OK
MW-65	Xylenes, Total	1/19/2022	1/24/2022	5	14	OK
MW-65	Zinc	1/19/2022	1/24/2022	5	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	2/9/2022	2/14/2022	5	14	OK
Trip Blank	Chloroform	3/8/2022	3/16/2022	8	14	OK
MW-11	Sulfate	2/8/2022	2/17/2022	9	28	OK
MW-11	Chloride	2/8/2022	2/16/2022	8	28	OK
MW-11	Manganese	2/8/2022	2/15/2022	7	180	OK
MW-11	Total Dissolved Solids	2/8/2022	2/14/2022	6	7	OK
MW-11	Sulfate	3/8/2022	3/18/2022	10	28	OK
MW-11	Chloride	3/8/2022	3/15/2022	7	28	OK
MW-11	Manganese	3/8/2022	3/18/2022	10	180	OK
MW-11	Total Dissolved Solids	3/8/2022	3/14/2022	6	7	OK
MW-25	Total Dissolved Solids	2/9/2022	2/14/2022	5	7	OK
MW-25	Total Dissolved Solids	3/7/2022	3/14/2022	7	7	OK
MW-26	Chloride	2/9/2022	2/15/2022	6	28	OK
MW-26	Chloroform	2/9/2022	2/16/2022	7	14	OK
MW-26	Nitrate + Nitrite as N	2/9/2022	2/15/2022	6	28	OK
MW-26	Total Dissolved Solids	2/9/2022	2/15/2022	6	7	OK
MW-26	Chloride	3/8/2022	3/15/2022	7	28	OK
MW-26	Chloroform	3/8/2022	3/16/2022	8	14	OK
MW-26	Nitrate + Nitrite as N	3/8/2022	3/15/2022	7	28	OK
MW-26	Total Dissolved Solids	3/8/2022	3/14/2022	6	7	OK
MW-30	Chloride	2/9/2022	2/15/2022	6	28	OK
MW-30	Uranium	2/9/2022	2/15/2022	6	180	OK
MW-30	Selenium	2/9/2022	2/15/2022	6	180	OK
MW-30	Nitrate + Nitrite as N	2/9/2022	2/15/2022	6	28	OK
MW-30	Total Dissolved Solids	2/9/2022	2/14/2022	5	7	OK
MW-30	Chloride	3/7/2022	3/15/2022	8	28	OK
MW-30	Uranium	3/7/2022	3/18/2022	11	180	OK
MW-30	Selenium	3/7/2022	3/18/2022	11	180	OK
MW-30	Nitrate + Nitrite as N	3/7/2022	3/15/2022	8	28	OK
MW-30	Total Dissolved Solids	3/7/2022	3/14/2022	7	7	OK
MW-31	Sulfate	2/8/2022	2/17/2022	9	28	OK
MW-31	Chloride	2/8/2022	2/15/2022	7	28	OK
MW-31	Uranium	2/8/2022	2/15/2022	7	180	OK
MW-31	Nitrate + Nitrite as N	2/8/2022	2/15/2022	7	28	OK
MW-31	Total Dissolved Solids	2/8/2022	2/14/2022	6	7	OK
MW-31	Sulfate	3/7/2022	3/18/2022	11	28	OK
MW-31	Chloride	3/7/2022	3/15/2022	8	28	OK
MW-31	Uranium	3/7/2022	3/18/2022	11	180	OK
MW-31	Nitrate + Nitrite as N	3/7/2022	3/15/2022	8	28	OK
MW-31	Total Dissolved Solids	3/7/2022	3/14/2022	7	7	OK
MW-65	Chloride	2/9/2022	2/15/2022	6	28	OK
MW-65	Uranium	2/9/2022	2/15/2022	6	180	OK
MW-65	Selenium	2/9/2022	2/15/2022	6	180	OK
MW-65	Nitrate + Nitrite as N	2/9/2022	2/15/2022	6	28	OK
MW-65	Total Dissolved Solids	2/9/2022	2/15/2022	6	7	OK
MW-65	Sulfate	3/8/2022	3/18/2022	10	28	OK
MW-65	Chloride	3/8/2022	3/15/2022	7	28	OK
MW-65	Manganese	3/8/2022	3/18/2022	10	180	OK
MW-65	Total Dissolved Solids	3/8/2022	3/14/2022	6	7	OK

G-3A: Quarterly Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 568395	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-65	NA
GEL 569062	MW-24, MW-24A, MW-38, MW-39, MW-40	NA
AWAL 2201442	MW-11, MW-12, MW-14, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-36, MW-65, Trip Blank	1.0 °C
AWAL 2201511	MW-24, MW-24A, MW-38, MW-39, MW-40, Trip Blank	0.9 °C
CTF 22A1649	MW-24, MW-24A, MW-38, MW-39, MW-40	5.0 °C
CTF 22A1301	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-65	4.3 °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
AWAL 2202144 - February	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.6 °C
CTF 22B0951- February	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65	0.8 °C
CTF 22C0710 - March	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.9 °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	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Methyl ethyl ketone	20	ug/L	U	1	20	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Methyl ethyl ketone	20	ug/L	U	1	20	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Arsenic	5	ug/L	U	20	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-11	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-11	Calcium	10	mg/L		10	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	10	mg/L		100	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	20	25	OK
MW-11	Cobalt	10	ug/L	U	20	10	OK
MW-11	Copper	10	ug/L	U	20	10	OK
MW-11	Fluoride	0.2	mg/L		2	0.1	OK
MW-11	Gross Radium Alpha	0.724	pCi/L	U	1	1	OK
MW-11	Iron	30	ug/L	U	2	30	OK
MW-11	Lead	1	ug/L	U	2	1	OK
MW-11	Magnesium	1	mg/L		10	0.5	OK
MW-11	Manganese	10	ug/L		20	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	20	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	20	20	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-11	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-11	Potassium	1	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L		20	5	OK
MW-11	Silver	10	ug/L	U	20	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	10	mg/L		10	0.5	OK
MW-11	Sulfate	50	mg/L		100	1	OK
MW-11	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-11	Thallium	0.5	ug/L	U	2	0.5	OK
MW-11	Tin	100	ug/L	U	20	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		1	10	OK
MW-11	Uranium	0.3	ug/L		2	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	20	10	OK
MW-12	Selenium	5	ug/L		20	5	OK
MW-12	Uranium	2	ug/L		20	0.3	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Arsenic	5	ug/L	U	20	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-14	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		20	0.5	OK
MW-14	Calcium	10	mg/L		10	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	20	25	OK
MW-14	Cobalt	10	ug/L	U	20	10	OK
MW-14	Copper	10	ug/L	U	20	10	OK
MW-14	Fluoride	0.1	mg/L		1	0.1	OK
MW-14	Gross Radium Alpha	0.528	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	5	30	OK
MW-14	Lead	1	ug/L	U	5	1	OK
MW-14	Magnesium	1	mg/L		10	0.5	OK
MW-14	Manganese	10	ug/L		20	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	20	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	20	20	OK
MW-14	Nitrate + Nitrite as N	0.1	mg/L	U	10	0.1	OK
MW-14	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-14	Potassium	1	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	20	5	OK
MW-14	Silver	10	ug/L	U	20	10	OK
MW-14	Sodium	10	mg/L		10	0.5	OK
MW-14	Sulfate	100	mg/L		200	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	5	0.5	OK
MW-14	Tin	100	ug/L	U	20	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		1	10	OK
MW-14	Uranium	0.5	ug/L		5	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		20	10	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Arsenic	5	ug/L	U	20	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	2	ug/L		20	0.5	OK
MW-24	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24	Cadmium	0.5	ug/L		20	0.5	OK
MW-24	Calcium	10	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	20	25	OK
MW-24	Cobalt	10	ug/L		20	10	OK
MW-24	Copper	10	ug/L		20	10	OK
MW-24	Fluoride	0.1	mg/L		1	0.1	OK
MW-24	Gross Radium Alpha	0.44	pCi/L		1	1	OK
MW-24	Iron	30	ug/L		2	30	OK
MW-24	Lead	1	ug/L		2	1	OK
MW-24	Magnesium	1	mg/L		10	0.5	OK
MW-24	Manganese	10	ug/L		100	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	20	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L		20	20	OK
MW-24	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-24	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-24	Potassium	1	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L		20	5	OK
MW-24	Silver	10	ug/L	U	20	10	OK
MW-24	Sodium	10	mg/L		10	0.5	OK
MW-24	Sulfate	50	mg/L		50	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		2	0.5	OK
MW-24	Tin	100	ug/L	U	20	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		1	10	OK
MW-24	Uranium	0.3	ug/L		2	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		20	10	OK
MW-24A	Acetone	20	ug/L	U	1	20	OK
MW-24A	Arsenic	5	ug/L	U	20	5	OK
MW-24A	Benzene	1	ug/L	U	1	1	OK
MW-24A	Beryllium	2	ug/L		20	0.5	OK
MW-24A	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24A	Cadmium	0.5	ug/L		20	0.5	OK
MW-24A	Calcium	10	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	20	25	OK
MW-24A	Cobalt	10	ug/L		20	10	OK
MW-24A	Copper	10	ug/L		20	10	OK
MW-24A	Fluoride	0.1	mg/L		1	0.1	OK
MW-24A	Gross Radium Alpha	0.571	pCi/L		1	1	OK
MW-24A	Iron	30	ug/L	U	2	30	OK
MW-24A	Lead	1	ug/L	U	2	1	OK
MW-24A	Magnesium	1	mg/L		10	0.5	OK
MW-24A	Manganese	10	ug/L		100	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	20	10	OK
MW-24A	Naphthalene	1	ug/L	U	1	1	OK
MW-24A	Nickel	20	ug/L		20	20	OK
MW-24A	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-24A	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-24A	Potassium	1	mg/L		1	0.5	OK
MW-24A	Selenium	5	ug/L		20	5	OK
MW-24A	Silver	10	ug/L	U	20	10	OK
MW-24A	Sodium	10	mg/L		10	0.5	OK
MW-24A	Sulfate	50	mg/L		50	1	OK
MW-24A	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24A	Thallium	0.5	ug/L		2	0.5	OK
MW-24A	Tin	100	ug/L	U	20	100	OK
MW-24A	Toluene	1	ug/L	U	1	1	OK
MW-24A	Total Dissolved Solids	20	MG/L		1	10	OK
MW-24A	Uranium	0.3	ug/L		2	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		20	10	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Arsenic	5	ug/L	U	20	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-25	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Calcium	10	mg/L		10	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		2	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	20	25	OK
MW-25	Cobalt	10	ug/L		20	10	OK
MW-25	Copper	10	ug/L	U	20	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.503	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	5	30	OK
MW-25	Lead	1	ug/L	U	5	1	OK
MW-25	Magnesium	1	mg/L		10	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		20	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		20	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	20	20	OK
MW-25	Nitrate + Nitrite as N	0.1	mg/L	U	10	0.1	OK
MW-25	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-25	Potassium	1	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	20	5	OK
MW-25	Silver	10	ug/L	U	20	10	OK
MW-25	Sodium	10	mg/L		10	0.5	OK
MW-25	Sulfate	50	mg/L		100	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		5	0.5	OK
MW-25	Tin	100	ug/L	U	20	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		1	10	OK
MW-25	Uranium	2	ug/L		20	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	20	10	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Arsenic	5	ug/L	U	20	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-26	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L		20	0.5	OK
MW-26	Calcium	10	mg/L		10	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	20	mg/L		200	1	OK
MW-26	Chloroform	10	ug/L		10	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	20	25	OK
MW-26	Cobalt	10	ug/L	U	20	10	OK
MW-26	Copper	10	ug/L	U	20	10	OK
MW-26	Fluoride	0.1	mg/L		1	0.1	OK
MW-26	Gross Radium Alpha	0.322	pCi/L		1	1	OK
MW-26	Iron	100	ug/L		20	30	OK
MW-26	Lead	1	ug/L	U	5	1	OK
MW-26	Magnesium	1	mg/L		10	0.5	OK
MW-26	Manganese	10	ug/L		20	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	20	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	20	20	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-26	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-26	Potassium	1	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L		20	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	20	10	OK
MW-26	Sodium	10	mg/L		10	0.5	OK
MW-26	Sulfate	100	mg/L		200	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-26	Thallium	0.5	ug/L	U	5	0.5	OK
MW-26	Tin	100	ug/L	U	20	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		1	10	OK
MW-26	Uranium	2	ug/L		20	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	20	10	OK
MW-27	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-28	Chloride	5	mg/L		50	1	OK
MW-28	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-28	Selenium	5	ug/L		20	5	OK
MW-28	Uranium	2	ug/L		20	0.3	OK
MW-29	Uranium	2	ug/L		20	0.3	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Arsenic	5	ug/L	U	20	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-30	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-30	Calcium	10	mg/L		10	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	10	mg/L		100	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	20	25	OK
MW-30	Cobalt	10	ug/L	U	20	10	OK
MW-30	Copper	10	ug/L	U	20	10	OK
MW-30	Fluoride	0.2	mg/L		2	0.1	OK
MW-30	Gross Radium Alpha	0.5	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	5	30	OK
MW-30	Lead	1	ug/L	U	5	1	OK
MW-30	Magnesium	1	mg/L		10	0.5	OK
MW-30	Manganese	10	ug/L	U	20	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	20	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	20	20	OK
MW-30	Nitrate + Nitrite as N	0.2	mg/L		20	0.1	OK
MW-30	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-30	Potassium	1	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Silver	10	ug/L	U	20	10	OK
MW-30	Sodium	10	mg/L		10	0.5	OK
MW-30	Sulfate	50	mg/L		100	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	5	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-30	Tin	100	ug/L	U	20	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		1	10	OK
MW-30	Uranium	2	ug/L		20	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	20	10	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Arsenic	5	ug/L	U	20	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-31	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-31	Calcium	10	mg/L		10	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	10	mg/L		100	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	20	25	OK
MW-31	Cobalt	10	ug/L	U	20	10	OK
MW-31	Copper	10	ug/L	U	20	10	OK
MW-31	Fluoride	0.2	mg/L		2	0.1	OK
MW-31	Gross Radium Alpha	0.666	pCi/L	U	1	1	OK
MW-31	Iron	30	ug/L	U	5	30	OK
MW-31	Lead	1	ug/L	U	5	1	OK
MW-31	Magnesium	1	mg/L		10	0.5	OK
MW-31	Manganese	10	ug/L	U	20	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	20	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	20	20	OK
MW-31	Nitrate + Nitrite as N	0.2	mg/L		20	0.1	OK
MW-31	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-31	Potassium	1	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Silver	10	ug/L	U	20	10	OK
MW-31	Sodium	10	mg/L		10	0.5	OK
MW-31	Sulfate	50	mg/L		100	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	5	0.5	OK
MW-31	Tin	100	ug/L	U	20	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		1	10	OK
MW-31	Uranium	2	ug/L		20	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	20	10	OK
MW-32	Chloride	2.5	mg/L		25	1	OK
MW-36	Acetone	20	ug/L	U	1	20	OK
MW-36	Arsenic	5	ug/L	U	20	5	OK
MW-36	Benzene	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-36	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-36	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-36	Calcium	10	mg/L		10	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	20	mg/L		200	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	20	25	OK
MW-36	Cobalt	10	ug/L	U	20	10	OK
MW-36	Copper	10	ug/L	U	20	10	OK
MW-36	Fluoride	0.1	mg/L		1	0.1	OK
MW-36	Gross Radium Alpha	0.494	pCi/L	U	1	1	OK
MW-36	Iron	30	ug/L	U	5	30	OK
MW-36	Lead	1	ug/L	U	5	1	OK
MW-36	Magnesium	1	mg/L		10	0.5	OK
MW-36	Manganese	10	ug/L	U	20	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	20	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	20	20	OK
MW-36	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-36	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-36	Potassium	1	mg/L		1	0.5	OK
MW-36	Selenium	5	ug/L		20	5	OK
MW-36	Silver	10	ug/L	U	20	10	OK
MW-36	Sodium	10	mg/L		10	0.5	OK
MW-36	Sulfate	100	mg/L		200	1	OK
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		5	0.5	OK
MW-36	Tin	100	ug/L	U	20	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		1	10	OK
MW-36	Uranium	2	ug/L		20	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	20	10	OK
MW-38	Acetone	20	ug/L	U	1	20	OK
MW-38	Arsenic	5	ug/L	U	20	5	OK
MW-38	Benzene	1	ug/L	U	1	1	OK
MW-38	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-38	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-38	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-38	Calcium	10	mg/L		10	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	20	25	OK
MW-38	Cobalt	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-38	Copper	10	ug/L	U	20	10	OK
MW-38	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-38	Gross Radium Alpha	0.47	pCi/L	U	1	1	OK
MW-38	Iron	30	ug/L	U	2	30	OK
MW-38	Lead	1	ug/L	U	2	1	OK
MW-38	Magnesium	1	mg/L		10	0.5	OK
MW-38	Manganese	10	ug/L	U	20	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	20	10	OK
MW-38	Naphthalene	1	ug/L	U	1	1	OK
MW-38	Nickel	20	ug/L	U	20	20	OK
MW-38	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-38	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-38	Potassium	1	mg/L		1	0.5	OK
MW-38	Selenium	5	ug/L		20	5	OK
MW-38	Silver	10	ug/L	U	20	10	OK
MW-38	Sodium	10	mg/L		10	0.5	OK
MW-38	Sulfate	50	mg/L		50	1	OK
MW-38	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-38	Thallium	0.5	ug/L	U	2	0.5	OK
MW-38	Tin	100	ug/L	U	20	100	OK
MW-38	Toluene	1	ug/L	U	1	1	OK
MW-38	Total Dissolved Solids	20	MG/L		1	10	OK
MW-38	Uranium	0.3	ug/L		2	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	20	10	OK
MW-39	Acetone	20	ug/L	U	1	20	OK
MW-39	Arsenic	5	ug/L	U	20	5	OK
MW-39	Benzene	1	ug/L	U	1	1	OK
MW-39	Beryllium	2	ug/L		20	0.5	OK
MW-39	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-39	Cadmium	0.5	ug/L		20	0.5	OK
MW-39	Calcium	10	mg/L		10	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	20	25	OK
MW-39	Cobalt	10	ug/L		20	10	OK
MW-39	Copper	10	ug/L		20	10	OK
MW-39	Fluoride	0.1	mg/L		1	0.1	OK
MW-39	Gross Radium Alpha	0.594	pCi/L		1	1	OK
MW-39	Iron	1000	ug/L		200	30	OK
MW-39	Lead	1	ug/L	U	2	1	OK
MW-39	Magnesium	1	mg/L		10	0.5	OK
MW-39	Manganese	10	ug/L		40	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
MW-39	Molybdenum	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-39	Naphthalene	1	ug/L	U	1	1	OK
MW-39	Nickel	20	ug/L		20	20	OK
MW-39	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-39	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-39	Potassium	1	mg/L		1	0.5	OK
MW-39	Selenium	5	ug/L	U	20	5	OK
MW-39	Silver	10	ug/L	U	20	10	OK
MW-39	Sodium	10	mg/L		10	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		2	0.5	OK
MW-39	Tin	100	ug/L	U	20	100	OK
MW-39	Toluene	1	ug/L	U	1	1	OK
MW-39	Total Dissolved Solids	20	MG/L		1	10	OK
MW-39	Uranium	0.3	ug/L		2	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		20	10	OK
MW-40	Acetone	20	ug/L	U	1	20	OK
MW-40	Arsenic	5	ug/L	U	20	5	OK
MW-40	Benzene	1	ug/L	U	1	1	OK
MW-40	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-40	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-40	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-40	Calcium	10	mg/L		10	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	20	25	OK
MW-40	Cobalt	10	ug/L	U	20	10	OK
MW-40	Copper	10	ug/L	U	20	10	OK
MW-40	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-40	Gross Radium Alpha	0.42	pCi/L	U	1	1	OK
MW-40	Iron	30	ug/L	U	2	30	OK
MW-40	Lead	1	ug/L	U	2	1	OK
MW-40	Magnesium	1	mg/L		10	0.5	OK
MW-40	Manganese	10	ug/L		20	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	20	10	OK
MW-40	Naphthalene	1	ug/L	U	1	1	OK
MW-40	Nickel	20	ug/L	U	20	20	OK
MW-40	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-40	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-40	Potassium	1	mg/L		1	0.5	OK
MW-40	Selenium	5	ug/L		20	5	OK
MW-40	Silver	10	ug/L	U	20	10	OK
MW-40	Sodium	10	mg/L		10	0.5	OK
MW-40	Sulfate	50	mg/L		50	1	OK
MW-40	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-40	Thallium	0.5	ug/L	U	2	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-40	Tin	100	ug/L	U	20	100	OK
MW-40	Toluene	1	ug/L	U	1	1	OK
MW-40	Uranium	0.3	ug/L		2	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	20	10	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Arsenic	5	ug/L	U	20	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-65	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-65	Calcium	10	mg/L		10	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	20	mg/L		200	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	20	25	OK
MW-65	Cobalt	10	ug/L	U	20	10	OK
MW-65	Copper	10	ug/L	U	20	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.662	pCi/L	U	1	1	OK
MW-65	Iron	30	ug/L	U	5	30	OK
MW-65	Lead	1	ug/L	U	5	1	OK
MW-65	Magnesium	1	mg/L		10	0.5	OK
MW-65	Manganese	10	ug/L	U	20	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	20	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	20	20	OK
MW-65	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-65	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-65	Potassium	1	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Silver	10	ug/L	U	20	10	OK
MW-65	Sodium	10	mg/L		10	0.5	OK
MW-65	Sulfate	100	mg/L		200	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L	U	5	0.5	OK
MW-65	Tin	100	ug/L	U	20	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		1	10	OK
MW-65	Uranium	2	ug/L		20	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	20	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		1	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Total Dissolved Solids	20	MG/L		1	10	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	5	ug/L		10	10	OK
MW-11	Sulfate	100	mg/L		100	1	OK
MW-11	Total Dissolved Solids	50	MG/L		1	10	OK
MW-25	Total Dissolved Solids	20	MG/L		1	10	OK
MW-25	Total Dissolved Solids	50	MG/L		1	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		10	0.1	OK
MW-26	Total Dissolved Solids	20	MG/L		1	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	50	MG/L		1	10	OK
MW-30	Chloride	5	mg/L		5	1	OK
MW-30	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Total Dissolved Solids	20	MG/L		1	10	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Chloride	10	mg/L		10	1	OK
MW-30	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-30	Selenium	5	ug/L		10	5	OK
MW-30	Total Dissolved Solids	50	MG/L		1	10	OK
MW-30	Uranium	5	ug/L		10	0.3	OK
MW-31	Chloride	5	mg/L		5	1	OK
MW-31	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-31	Sulfate	20	mg/L		20	1	OK
MW-31	Total Dissolved Solids	20	MG/L		1	10	OK
MW-31	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Chloride	10	mg/L		10	1	OK
MW-31	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Total Dissolved Solids	50	MG/L		1	10	OK
MW-31	Uranium	5	ug/L		10	0.3	OK
MW-65	Chloride	5	mg/L		5	1	OK
MW-65	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
MW-65	Selenium	5	ug/L		2	5	OK
MW-65	Total Dissolved Solids	20	MG/L		1	10	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Chloride	1	mg/L		1	1	OK
MW-65	Manganese	5	ug/L		10	10	OK
MW-65	Sulfate	100	mg/L		100	1	OK
MW-65	Total Dissolved Solids	50	MG/L		1	10	OK

G-6A: Quarterly Sample Trip Blank Evaluation

Lab Report	Constituent	Result
AWAL 2201442	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
AWAL2201511	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

Lab Report	Constituent	Result
AWAL 2202144 - February	Chloroform	ND
CTF 22C0710 - March	Chloroform	1.9 ug/L

G-7A: QA/QC Evaluation for Quarterly Sample Duplicates

Constituent	MW-31 1/19/22	MW-65 1/19/22	%RPD
Bicarbonate as CaCO ₃ (mg/L)	188	188	0.00
Calcium (mg/L)	413	405	1.96
Chloride (mg/L)	370	366	1.09
Fluoride (mg/L)	0.583	0.637	8.85
Magnesium (mg/L)	184	180	2.20
Nitrate + Nitrite (as N) (mg/L)	18.0	18.9	4.88
Potassium (mg/L)	9.78	9.89	1.12
Selenium (mg/L)	0.0887	0.0864	2.63
Sodium (mg/L)	134	131	2.26
Sulfate (mg/L)	1210	1200	0.83
TDS (mg/L)	2620	2690	2.64
Uranium (mg/L)	0.0217	0.0213	1.86

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-30 2/9/22	MW-65 2/9/22	%RPD*
Nitrate + Nitrite (as N) (mg/L)	13.6	14.8	8.45
Selenium (mg/L)	0.0577	0.0576	0.17
Uranium (mg/L)	0.0103	0.0107	3.81
Chloride (mg/L)	184	187	1.62
TDS (mg/L)	1640	1650	0.61
Constituent	MW-11 3/8/22	MW-65 3/8/22	%RPD
Manganese (mg/L)	0.224	0.220	1.80
Sulfate (mg/L)	1170	1120	4.37
Total Dissolved Solids (mg/L)	2080	2050	1.45
Chloride (mg/L)	67.7	67.3	0.59

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	0.211	NC	3.75	NC
MW-14	1.00 U	0.192	NC	7.5	NC
MW-24	2.26	0.329	Y	7.5	N/A
MW-24A	2.03	0.344	Y	-	-
MW-25	1.00 U	0.198	NC	7.5	NC
MW-26	1.42	0.256	Y	4.69	N/A
MW-30	1.00 U	0.169	NC	3.75	NC
MW-31	1.00 U	0.227	NC	7.5	NC
MW-36	1.00 U	0.184	NC	7.5	NC
MW-38	1.00 U	0.198	NC	-	-
MW-39	2.78	0.402	Y	-	-
MW-40	1.00 U	0.215	NC	-	-
MW-65	1.00 U	0.198	NC	7.5	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
2201442	MW-14	Calcium*	NC	NC	70-130	NC	20
2201442	MW-25	Calcium*	NC	NC	70-130	NC	20
2201442	MW-14	Magnesium*	NC	NC	70-130	NC	20
2201442	MW-25	Sodium*	NC	NC	70-130	NC	20
2201442	MW-25	Magnesium*	NC	NC	70-130	NC	20
2201442	MW-14	Sodium*	NC	NC	70-130	NC	20
2201442	MW-14	Manganese*	NC	NC	75-125	NC	20
2201442	MW-14	Nitrate	124	101	90-110	20.5	10
2201442	MW-11	Xylenes	129	135	66-124	4.34	35
2201442	MW-11	Chloroform	119	125	71-120	4.82	35
2201442	MW-11	Toluene	125	131	69-129	4.06	35
2201511	MW-38	Sodium*	NC	NC	70-130	NC	20
2201511	MW-38	Calcium*	NC	NC	70-130	NC	20
2201511	MW-38	Magnesium*	NC	NC	70-130	NC	20
2201511	MW-24A	Nitrate	119	108	90-110	9.44	10
2201511	MW-38	Ammonia	107	91.6	90-110	16.0	10
2201511	MW-24A	Chloromethane	83.0	129	30-149	43.4	35
22A1649	MW-24A	Sulfate*	NC	NC	80-120	NC	20
22A1649	MW-24	Fluoride	-90.3	-90.3	80-120	NC	20
22A1649	MW-24	Sulfate*	NC	NC	80-120	NC	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

Method Blank Detections

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
2201511	N/A	Ammonia	0.0655	0.05

Laboratory Control Sample

Lab Report	Analyte	LCS %REC	REC Range
2201511	Tetrahydrofuran	154	59-135

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicate samples were within acceptance limits for the quarter.

G-9B: Accelerated Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
2202144 - February Monthly	MW-65 (Duplicate of MW-30)	Nitrate	117	114	90-110	1.53	10
22C0710	NA	Chloride	132	127	80-120	0.254	20
22C0710	MW-31	Chloride	128	126	80-120	0.0526	20
22C0710	MW-26	Chloroform*	NC	NC	0-200	NC	200

* 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 Duplicate % Recovery Comparison

All Laboratory Duplicates were within acceptance limits for the quarter.

Method Blank Detections

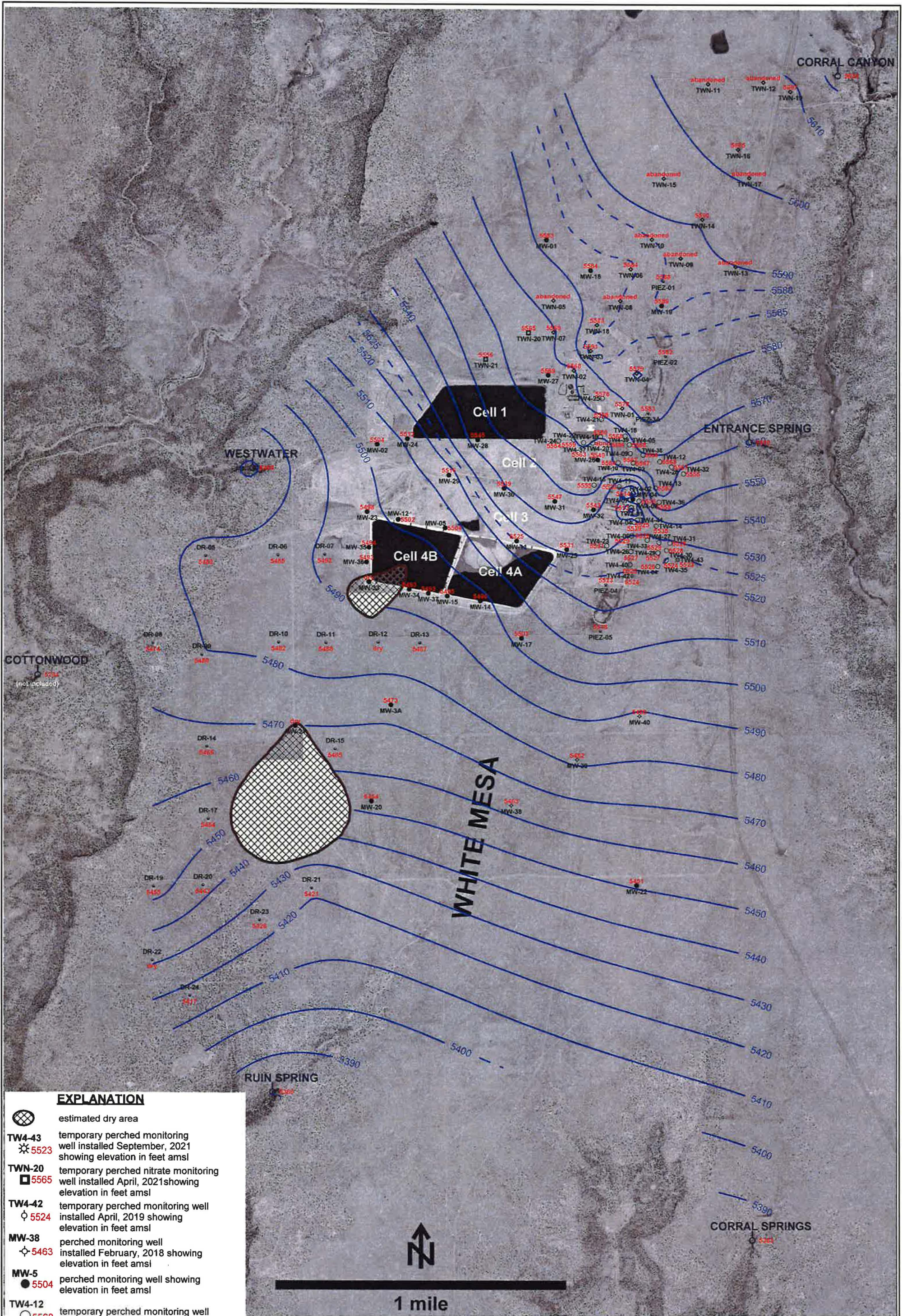
All Method Blanks for the quarter were non-detect.











Laboratory Control Sample

All Laboratory Control Samples were within acceptance limits for the quarter.

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; TW4-1, TW4-2 and TW4-11 water levels are below the base of the Burro Canyon Formation



**HYDRO
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CHEM, INC.**

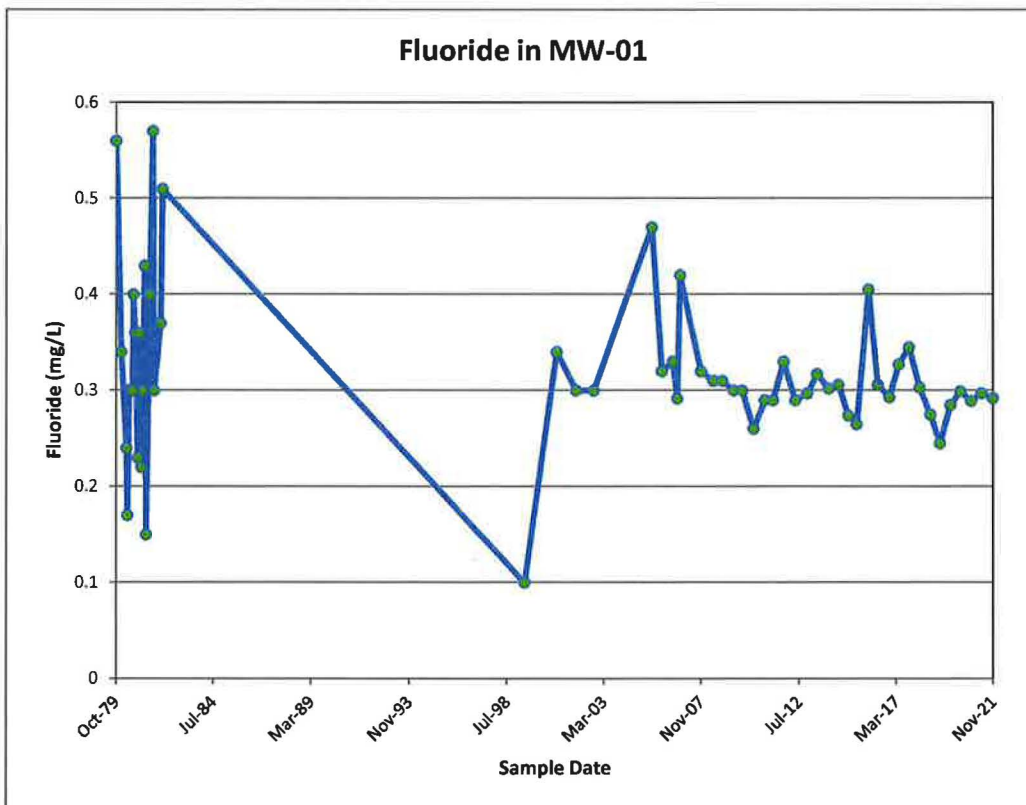
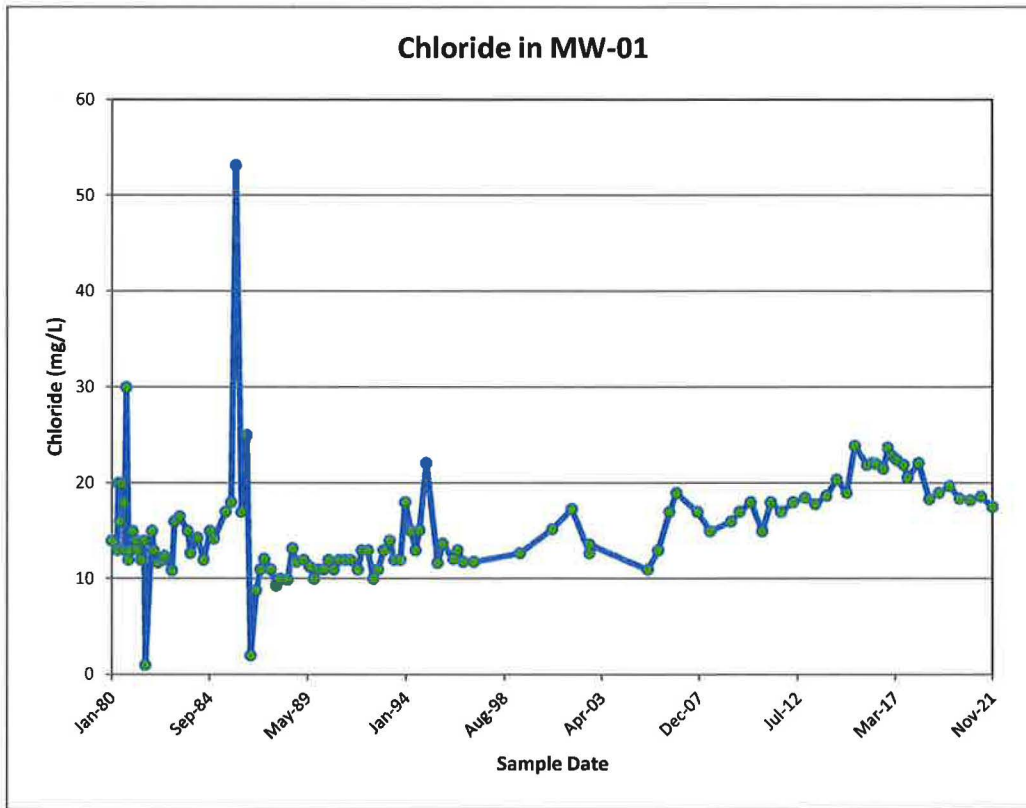
**KRIGED 1st QUARTER, 2022 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
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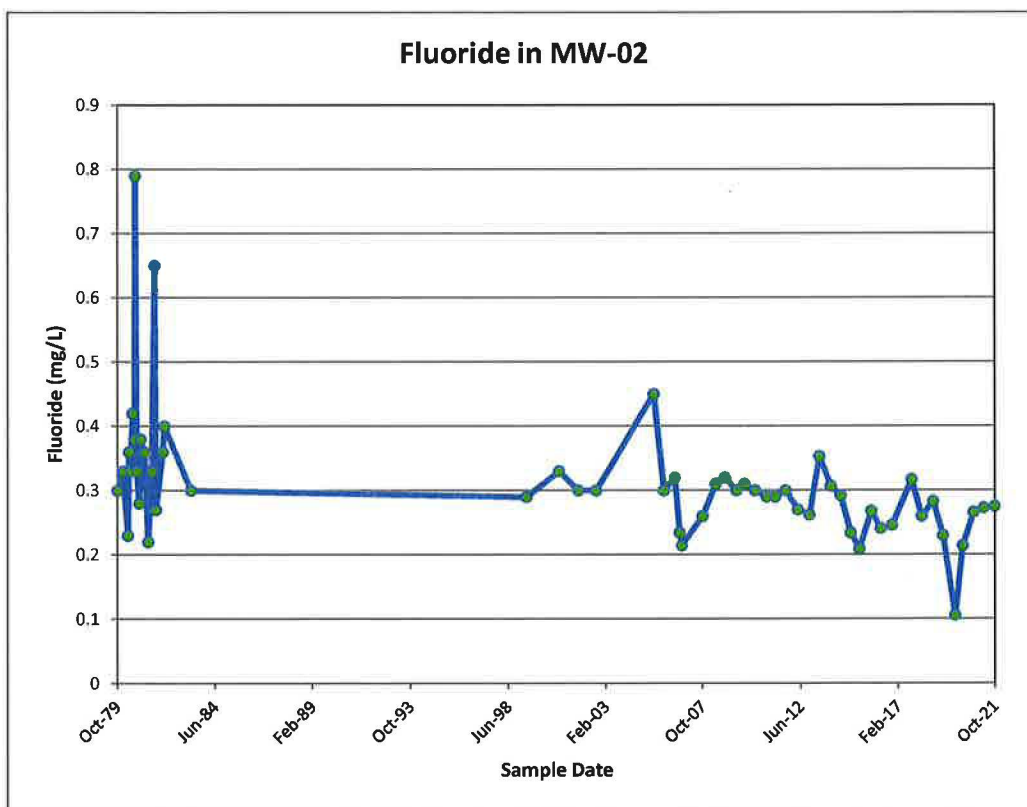
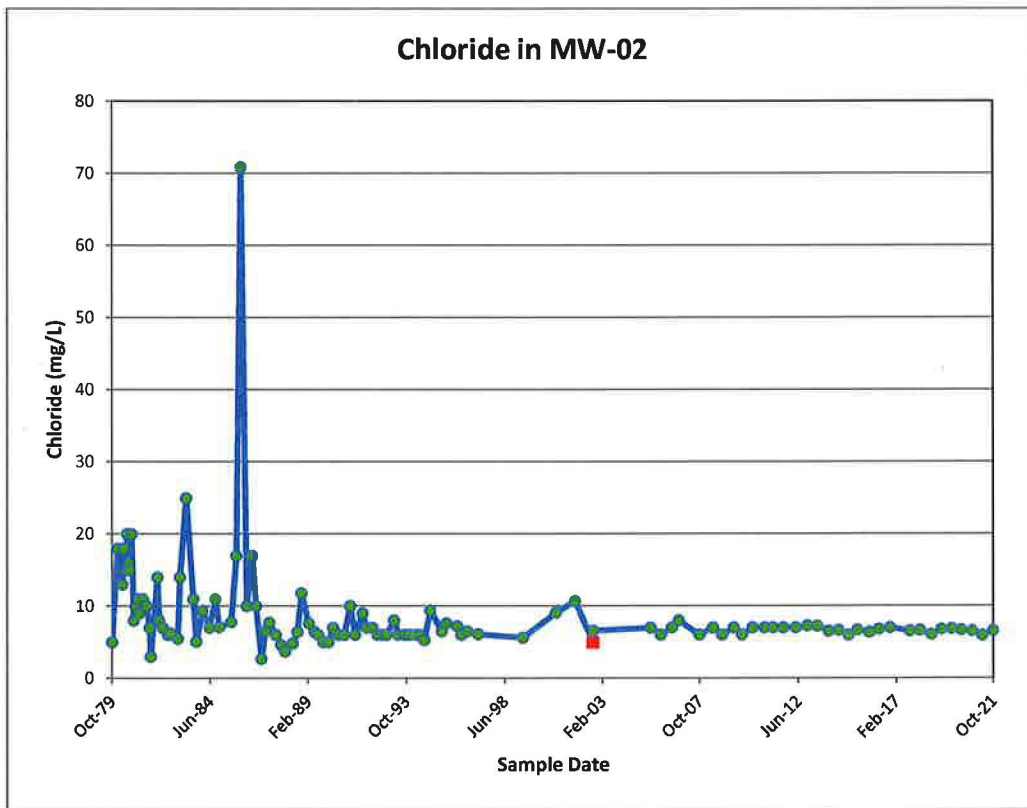
Tab I

Groundwater Time Concentration Plots

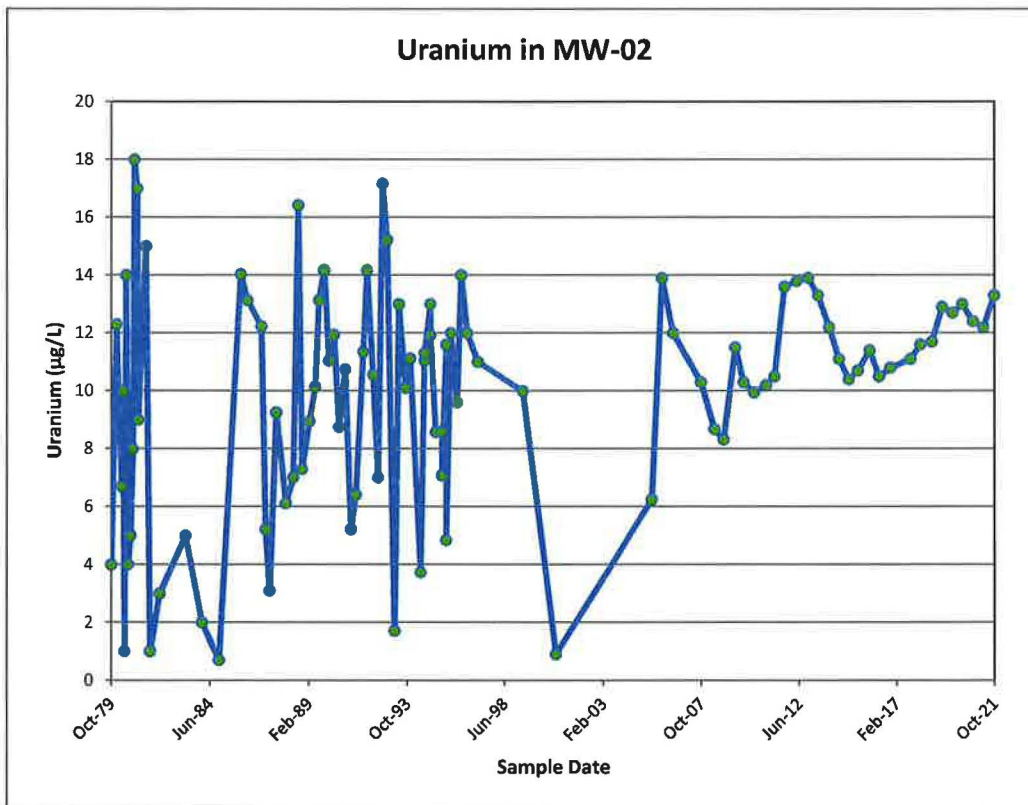
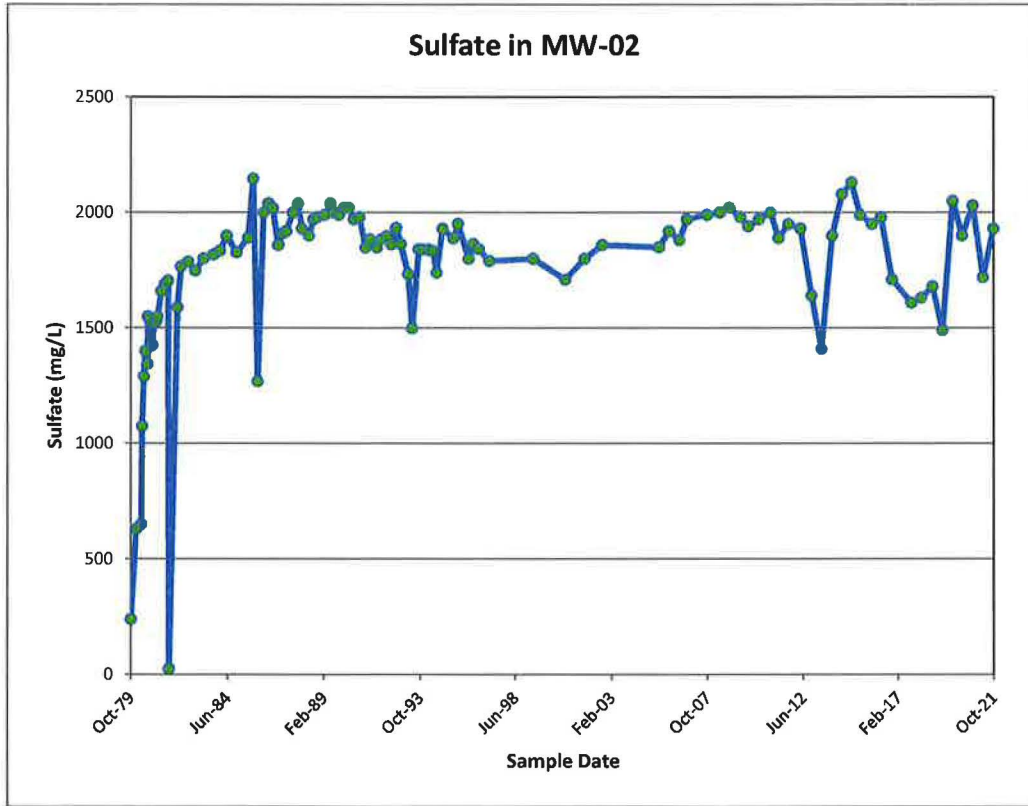
Time concentration plots for MW-01



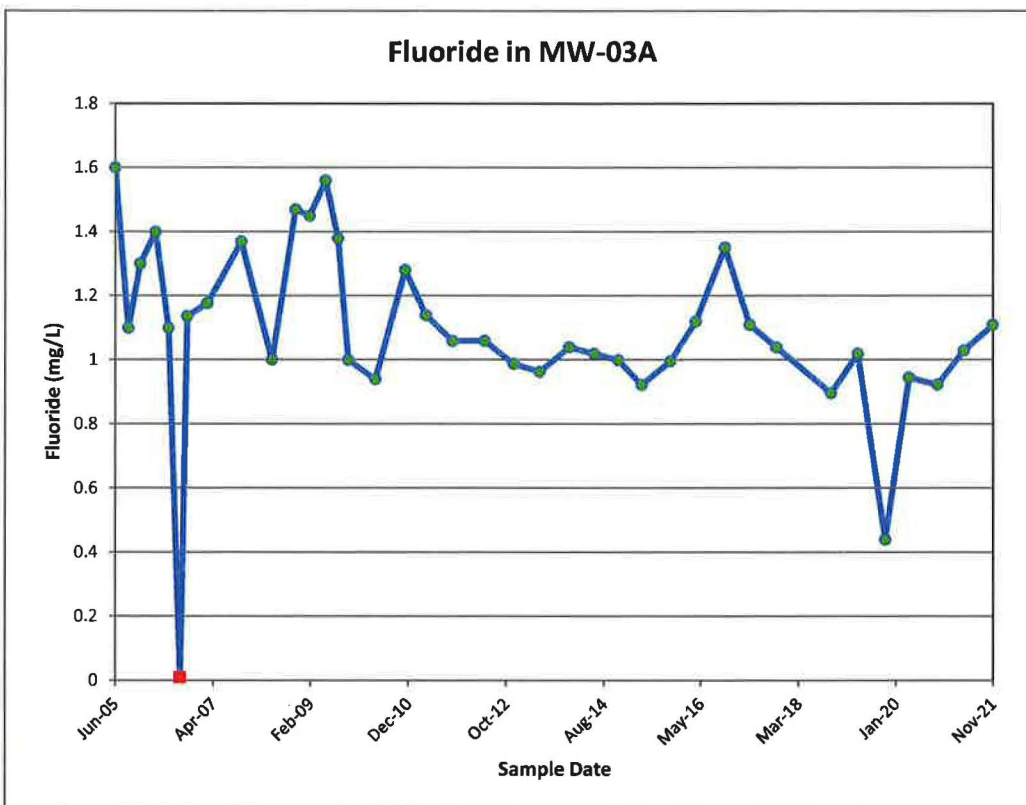
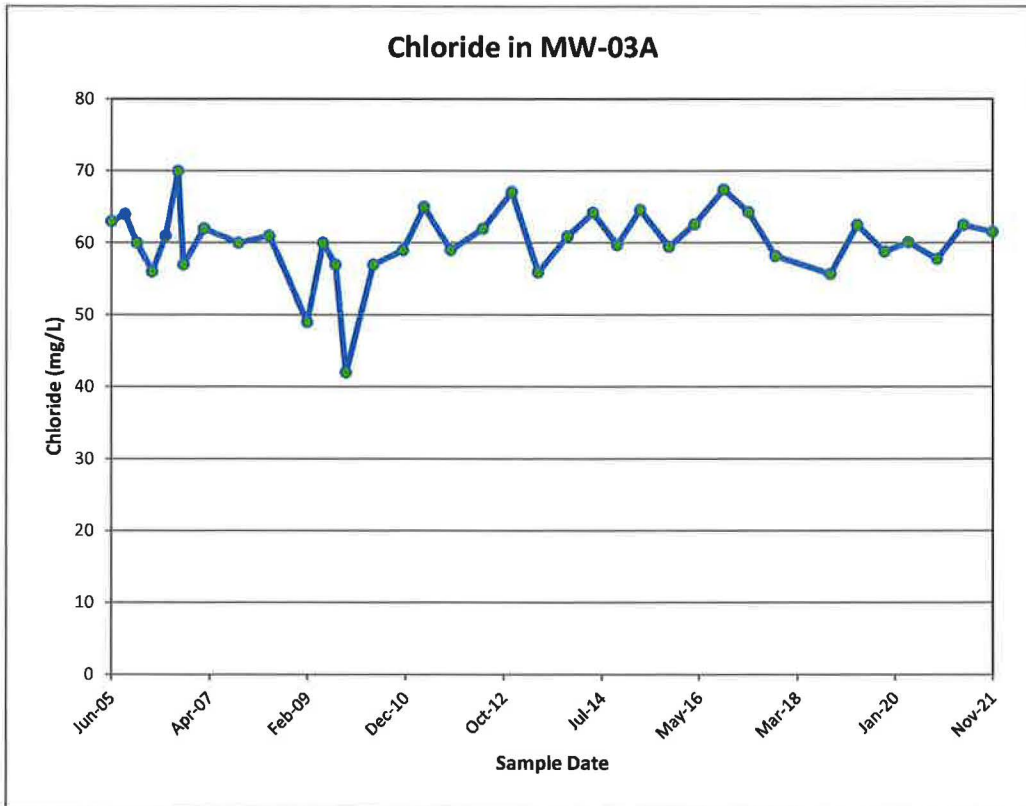
Time concentration plots for MW-02



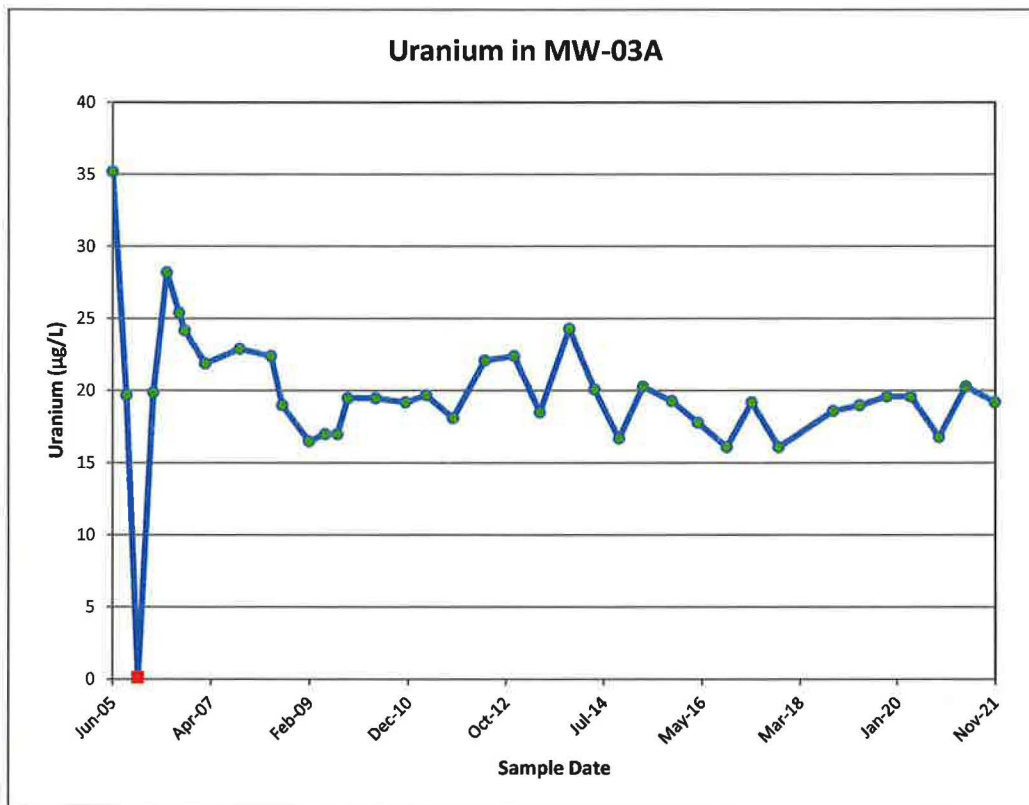
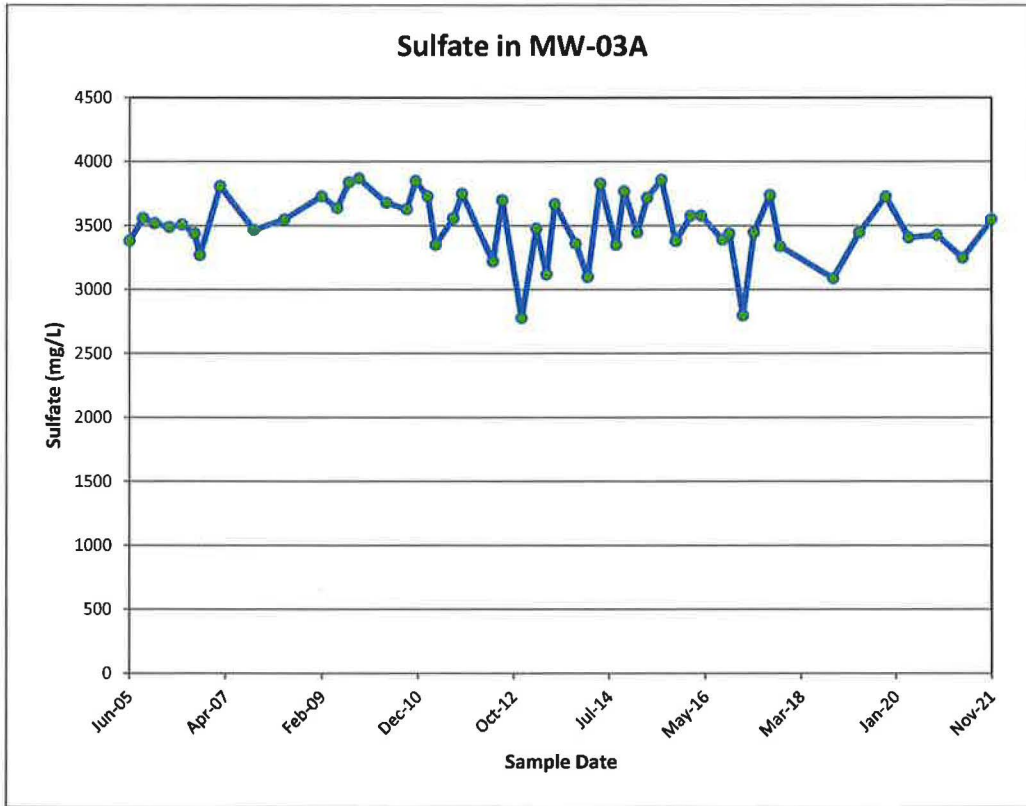
Time concentration plots for MW-02



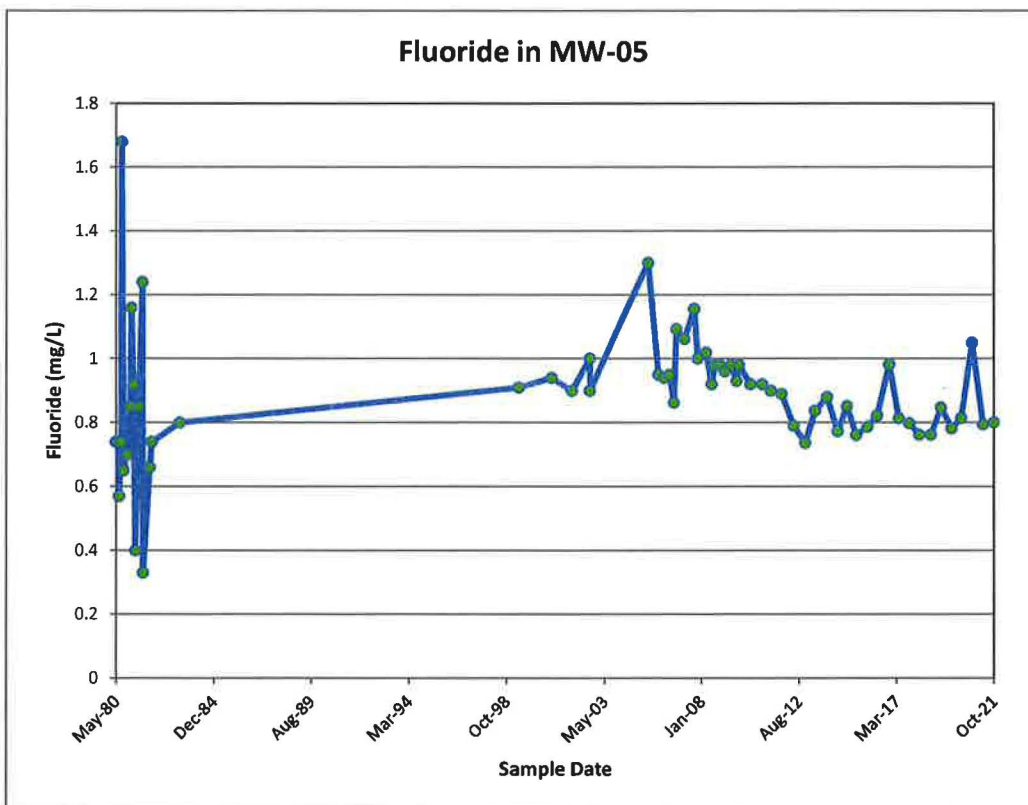
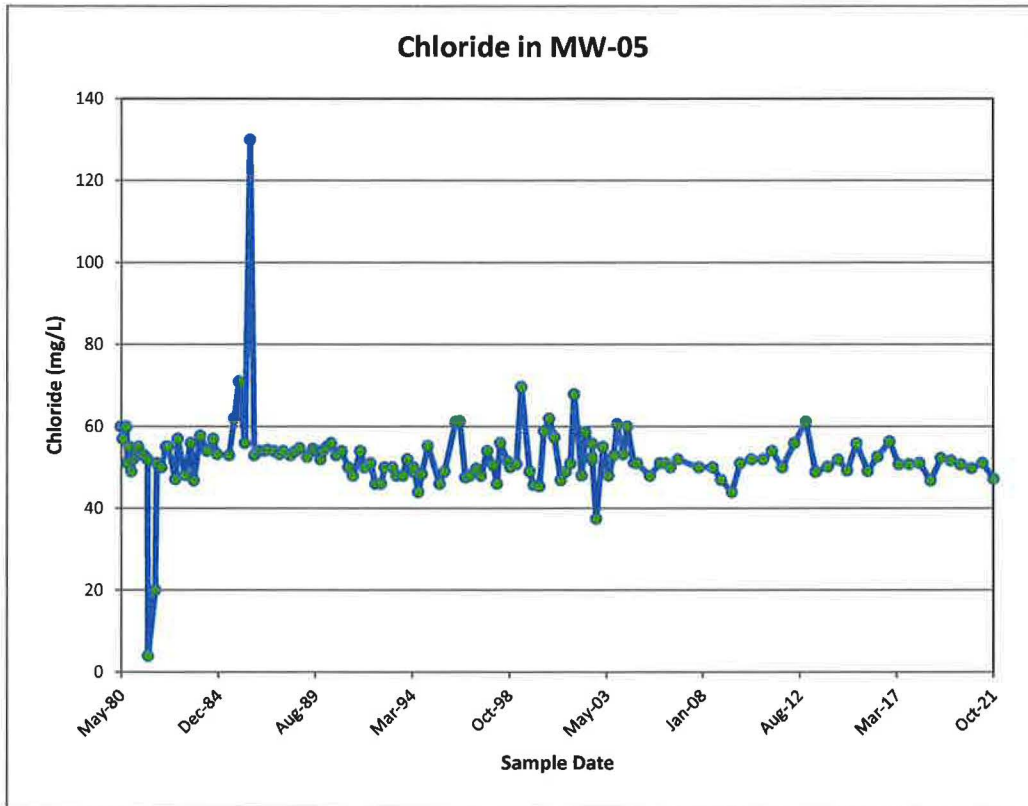
Time concentration plots for MW-03A



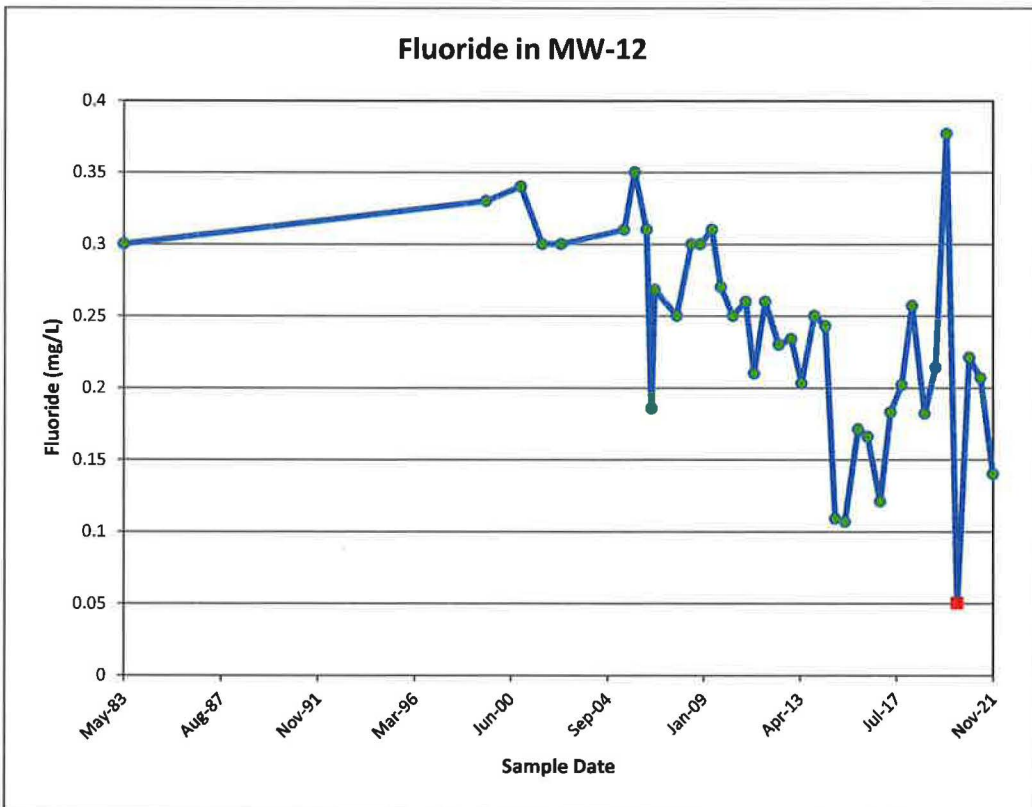
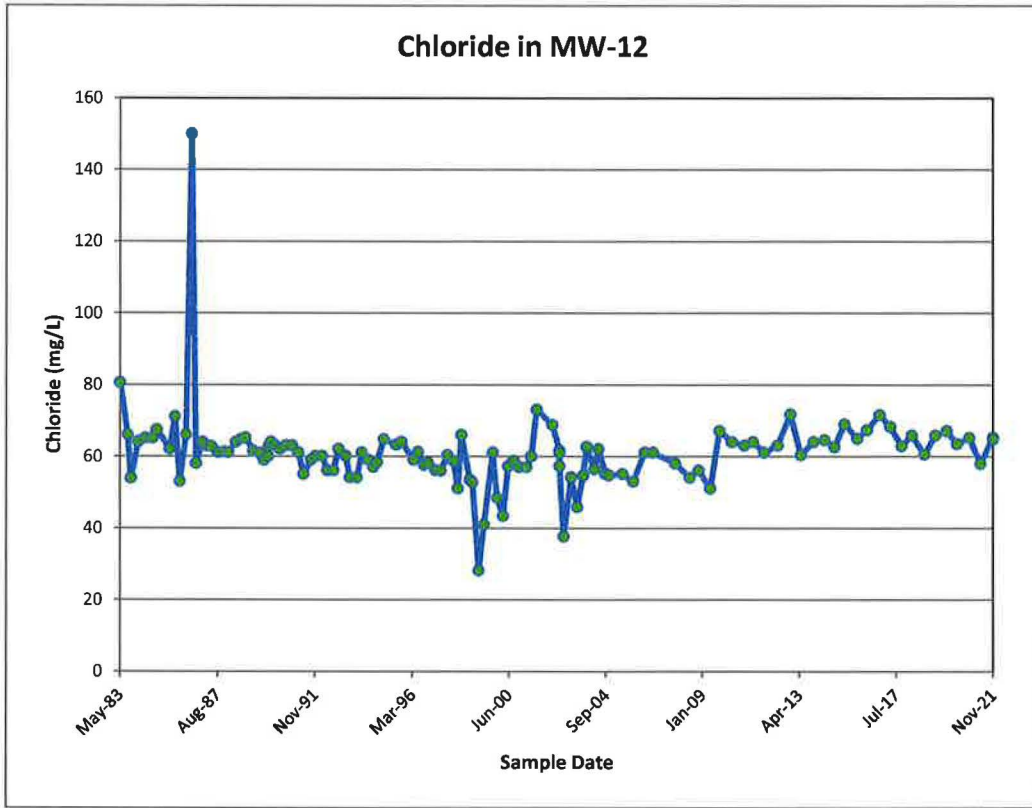
Time concentration plots for MW-03A



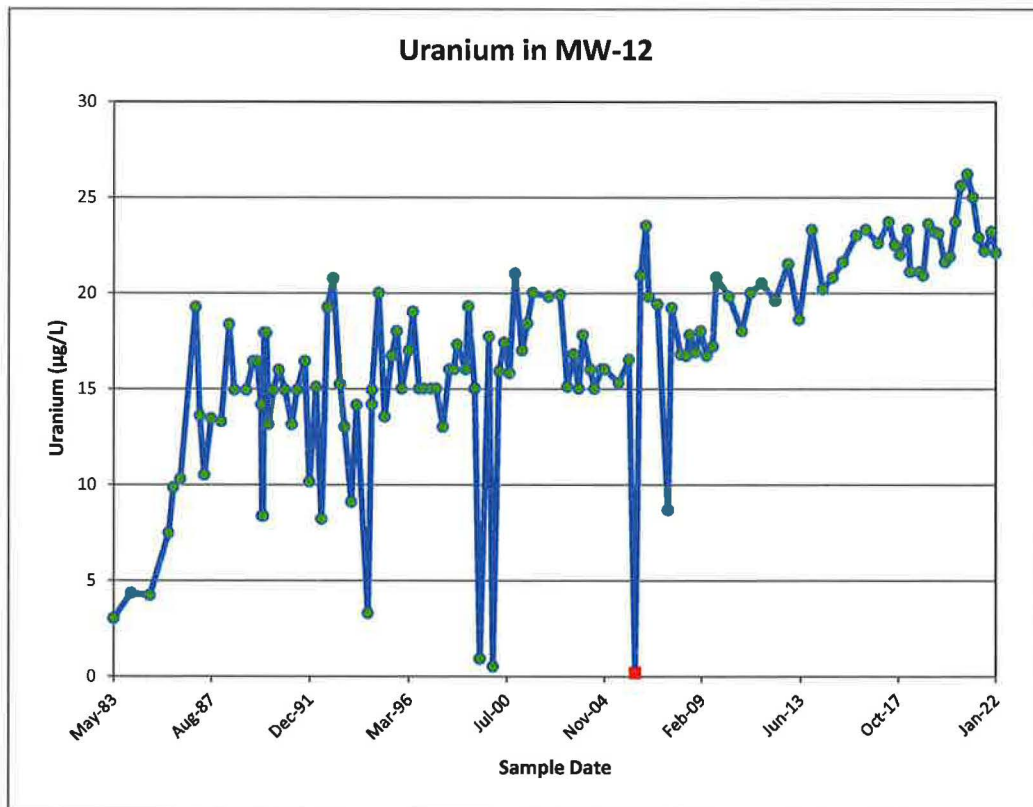
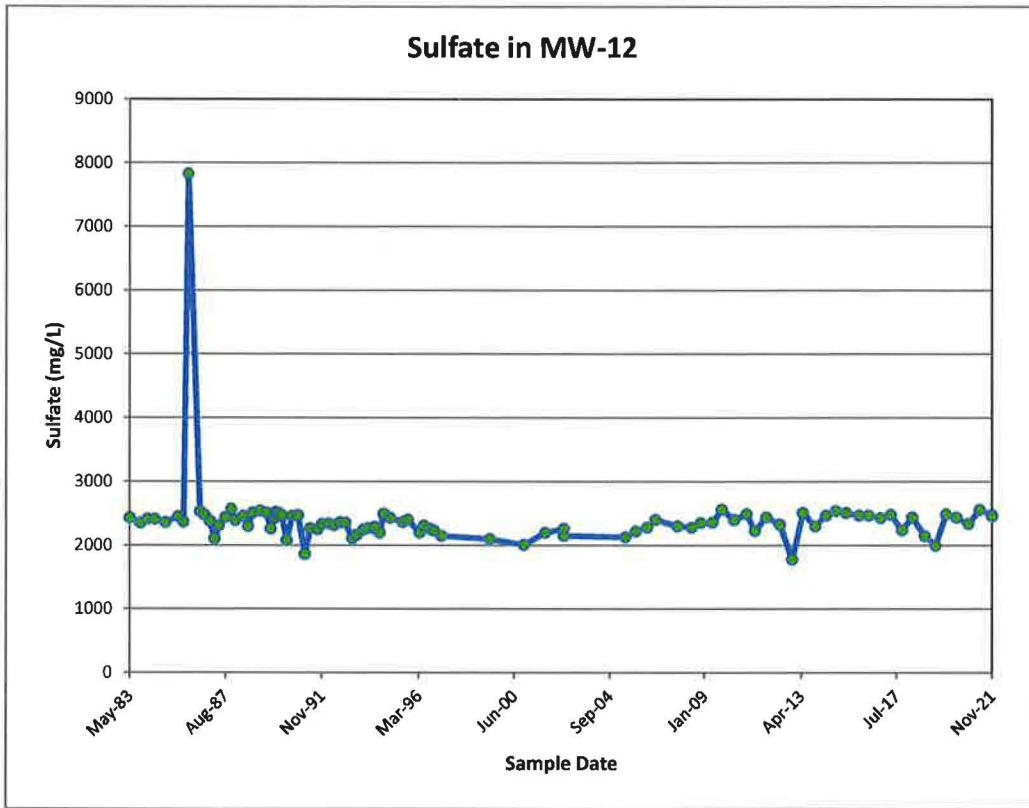
Time concentration plots for MW-05



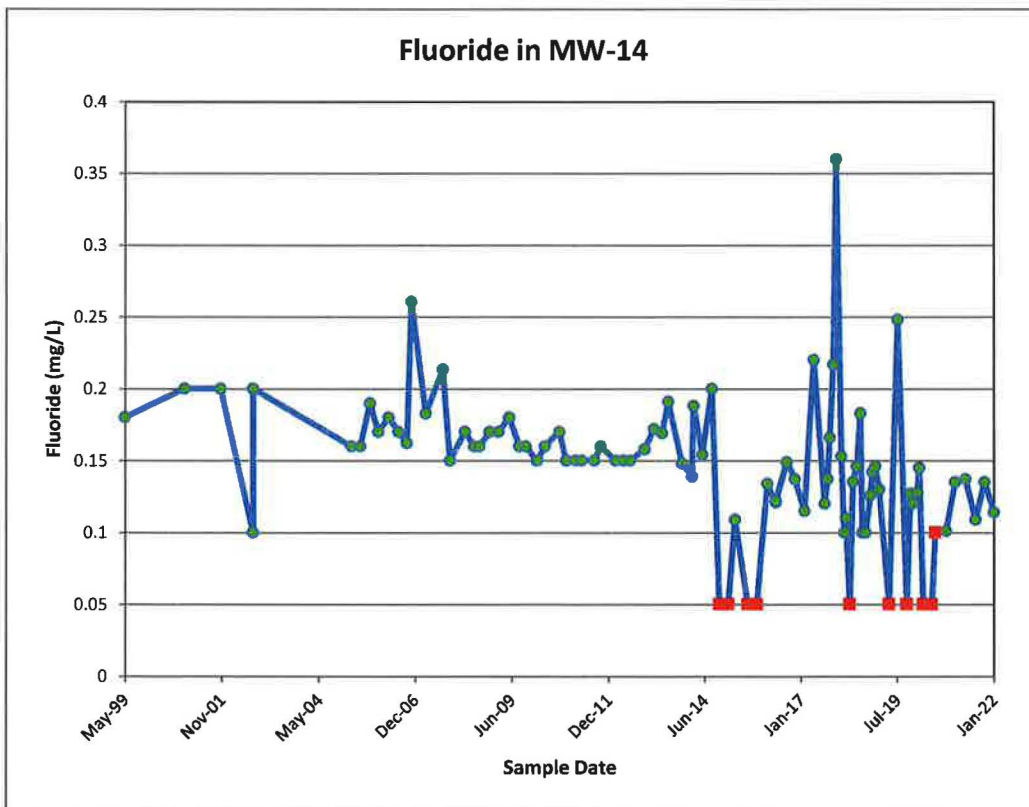
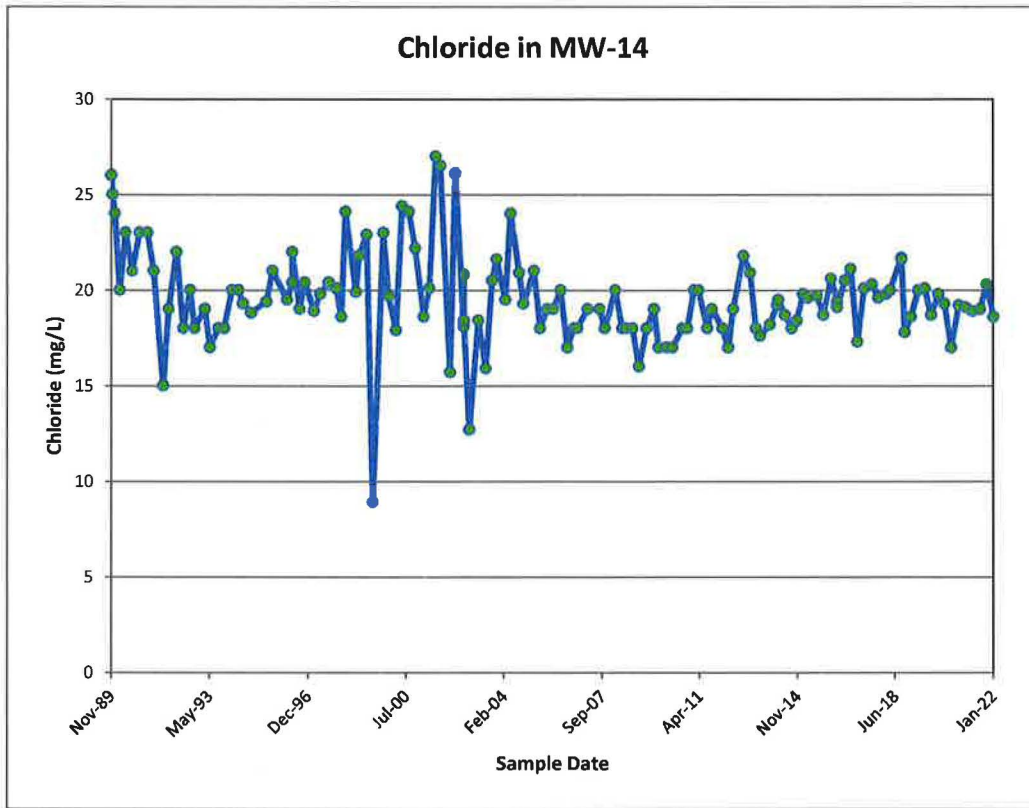
Time concentration plots for MW-12



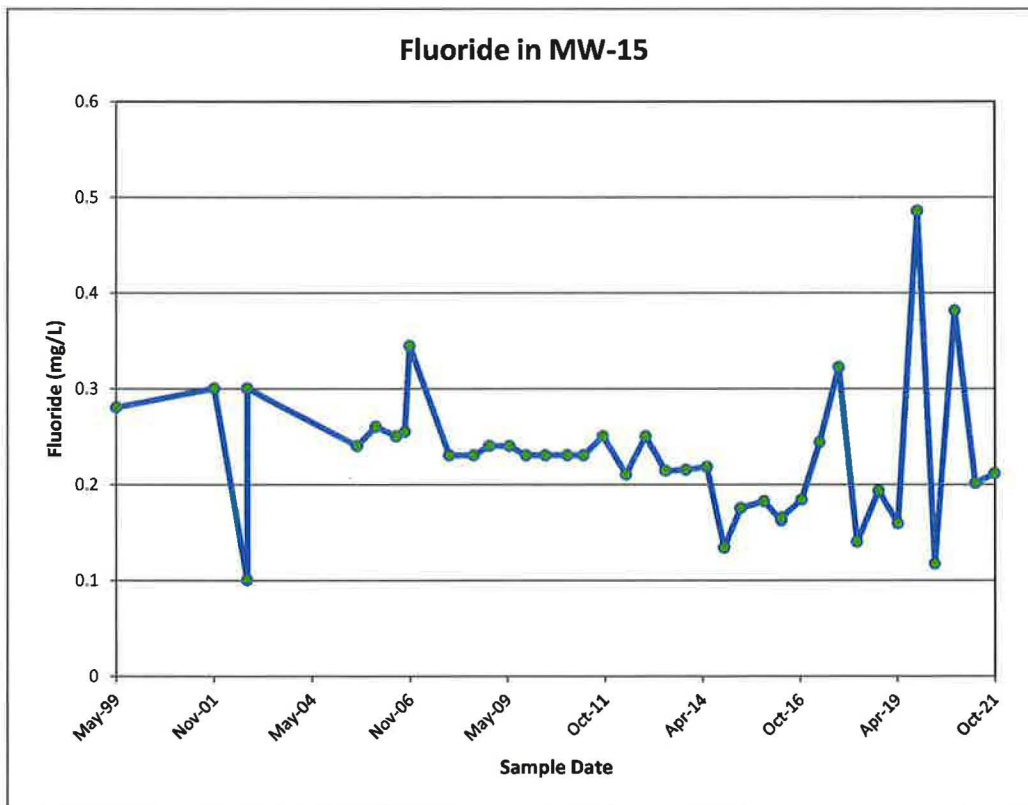
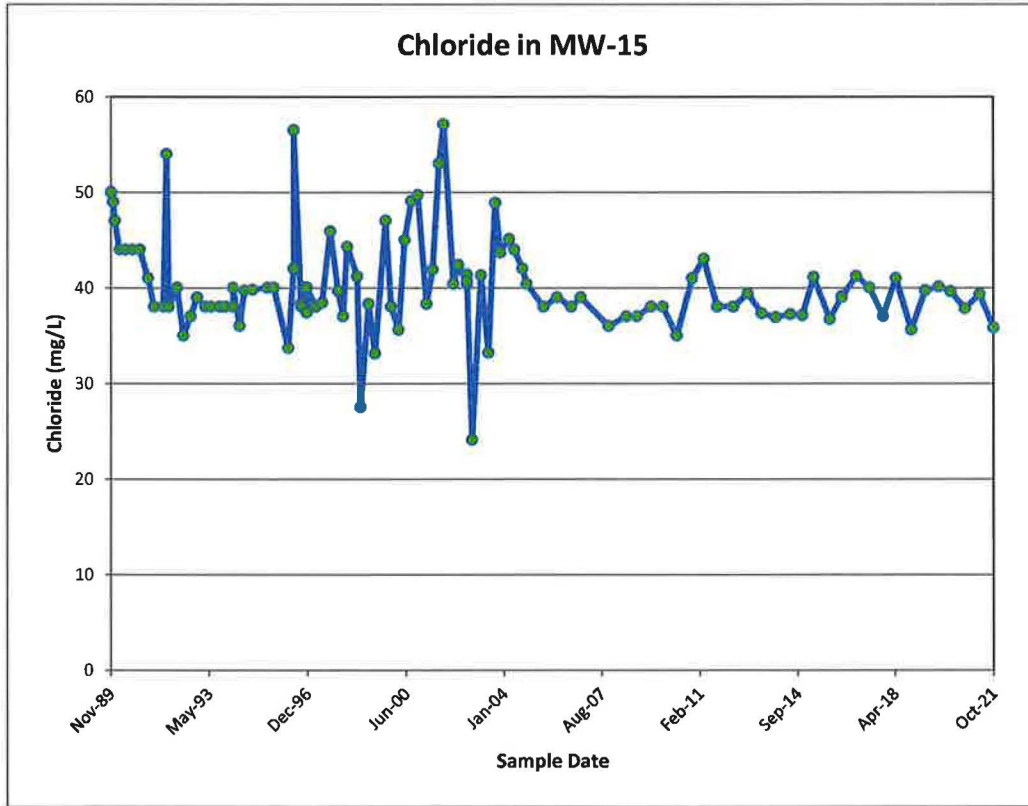
Time concentration plots for MW-12



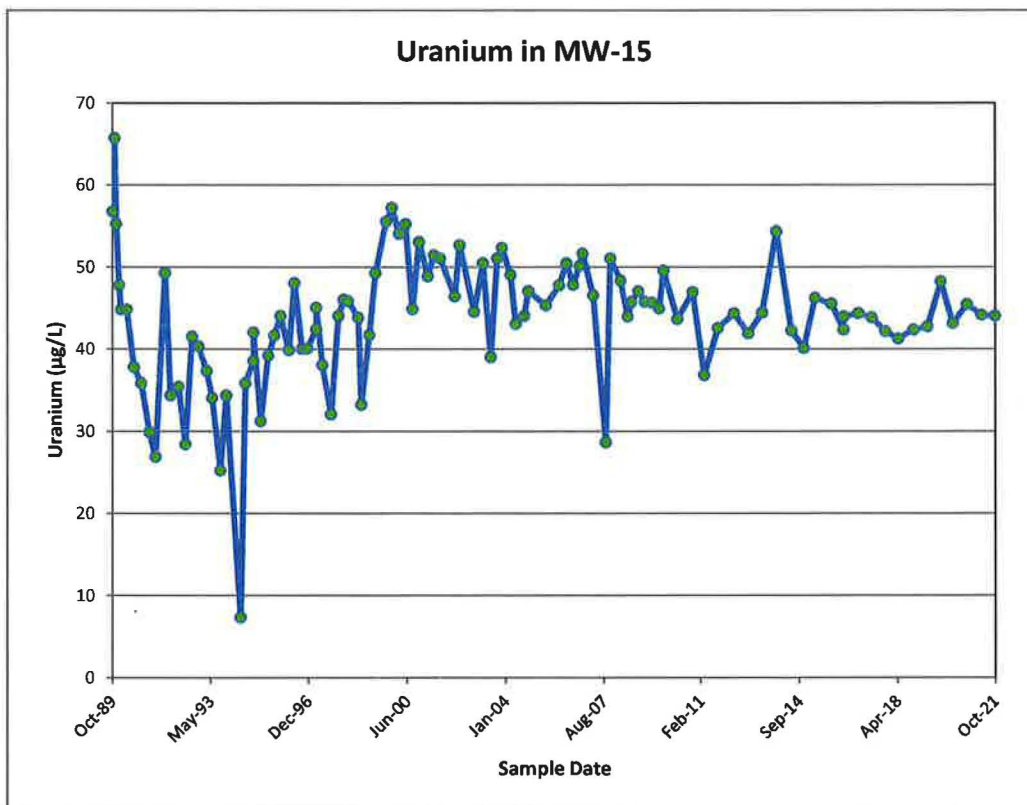
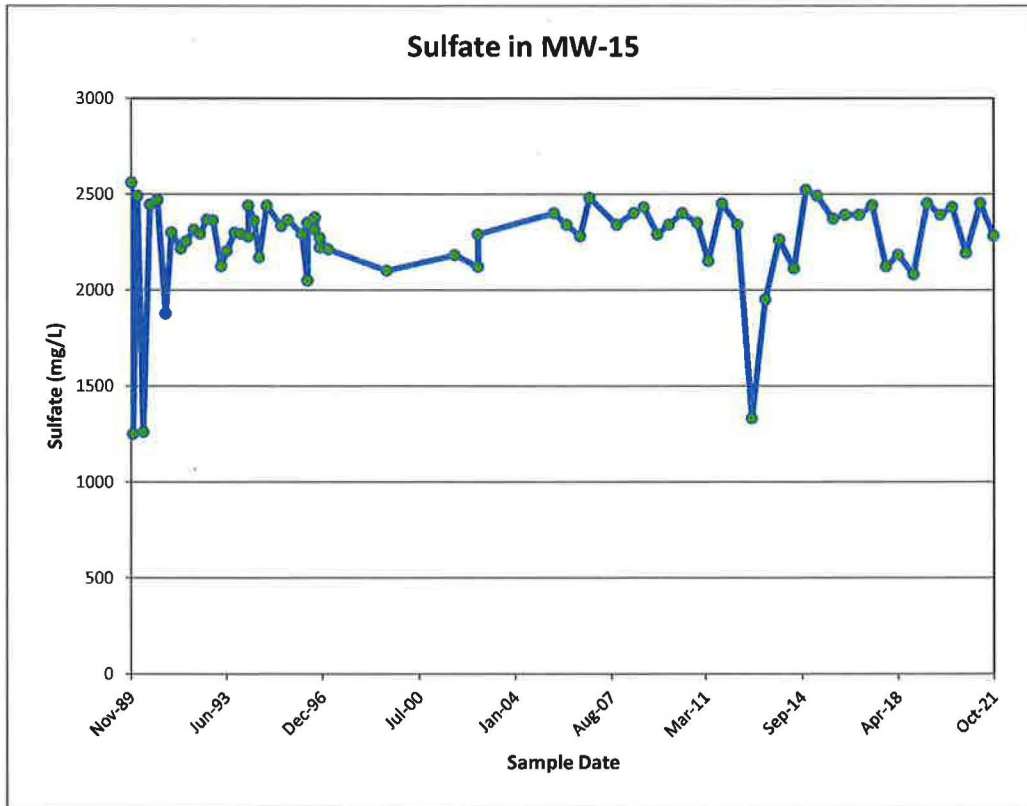
Time concentration plots for MW-14



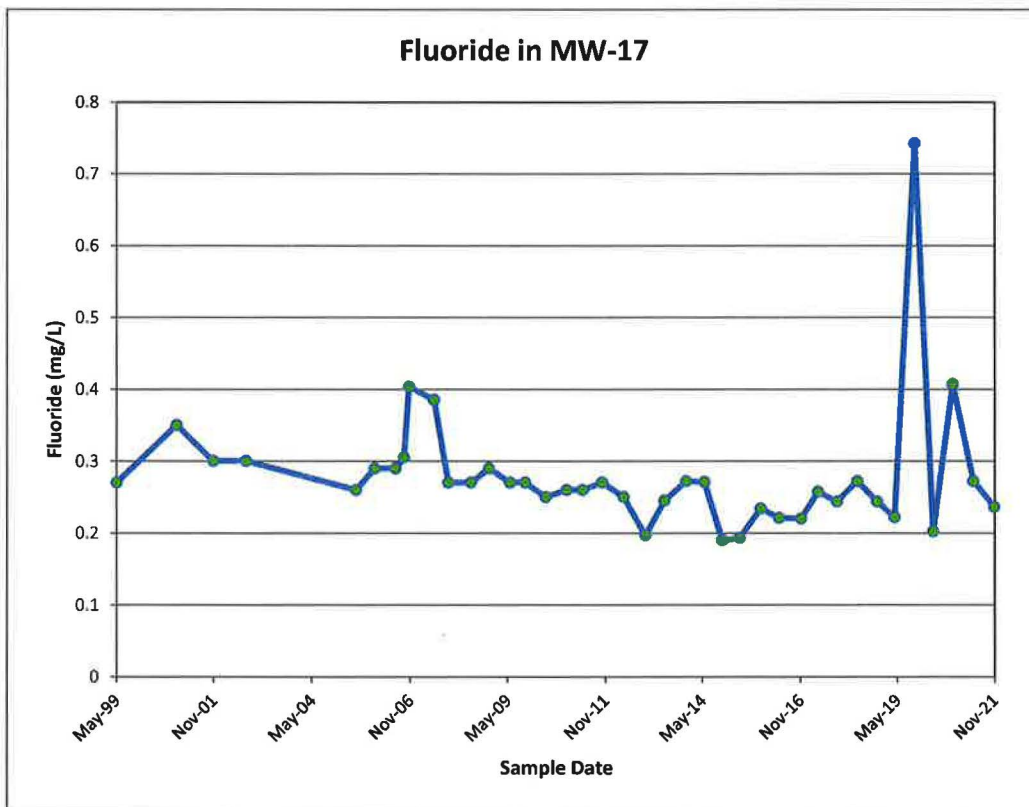
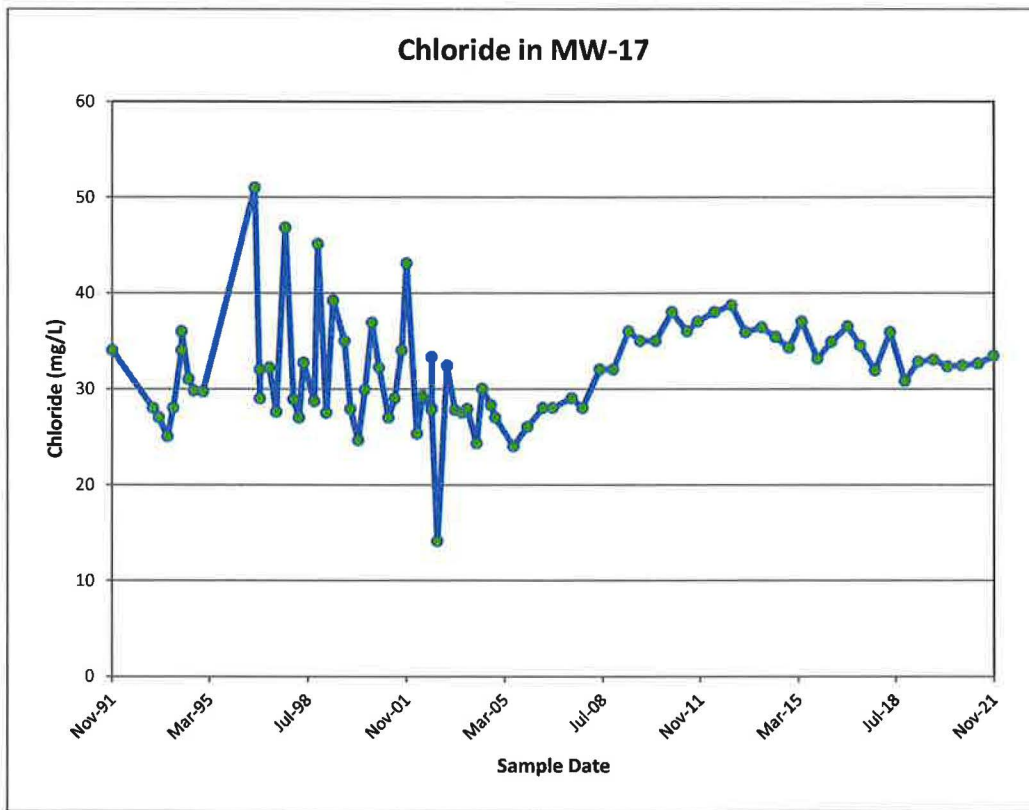
Time concentration plots for MW-15



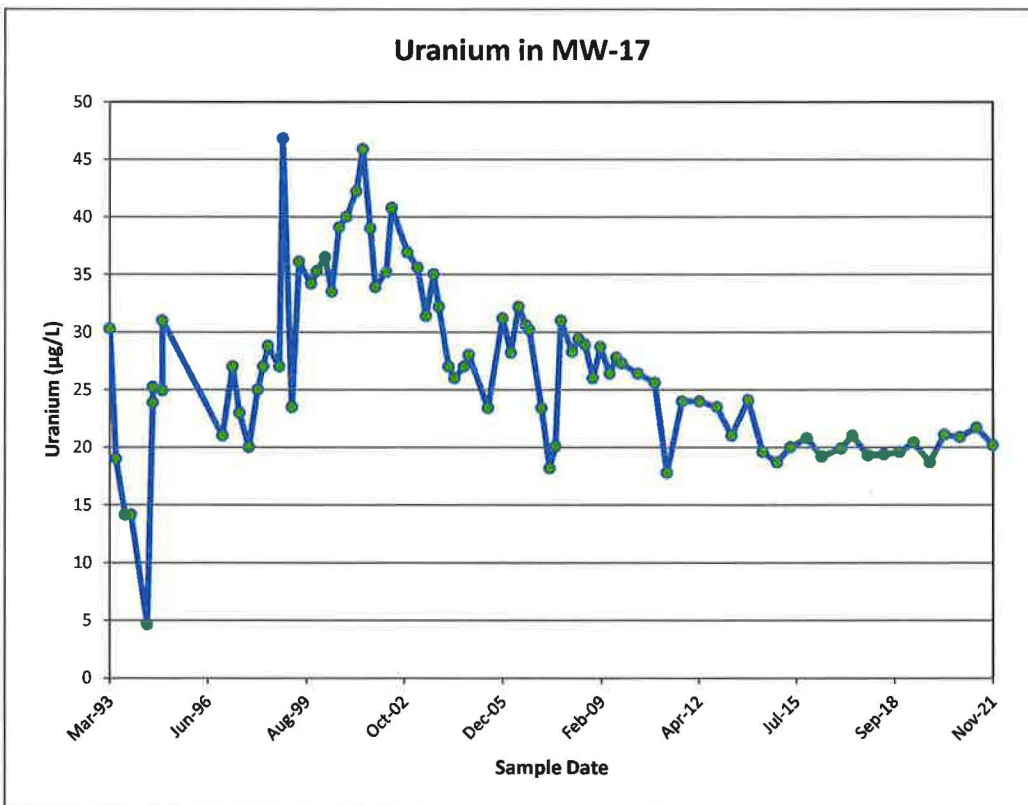
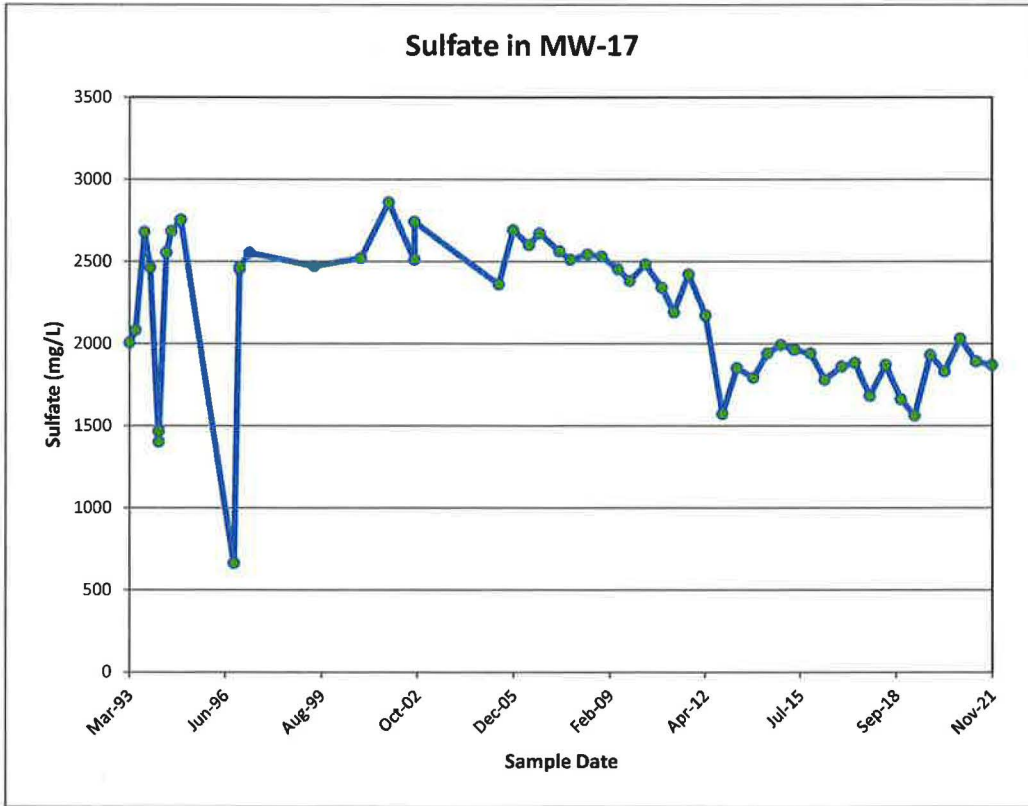
Time concentration plots for MW-15



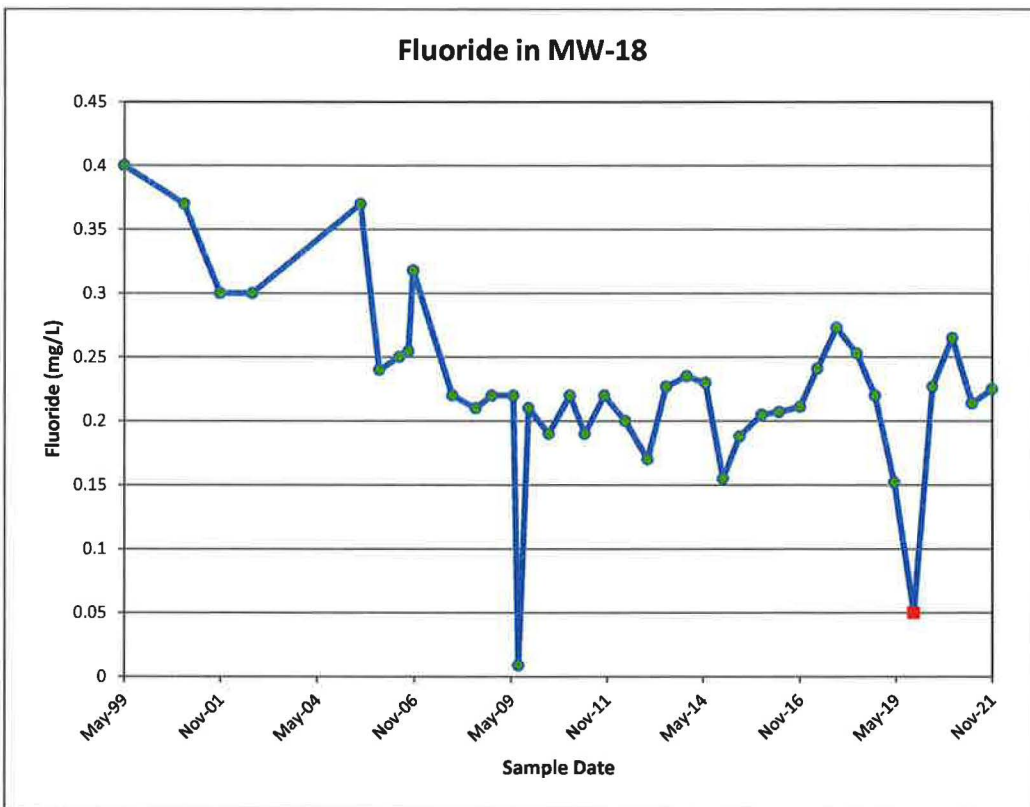
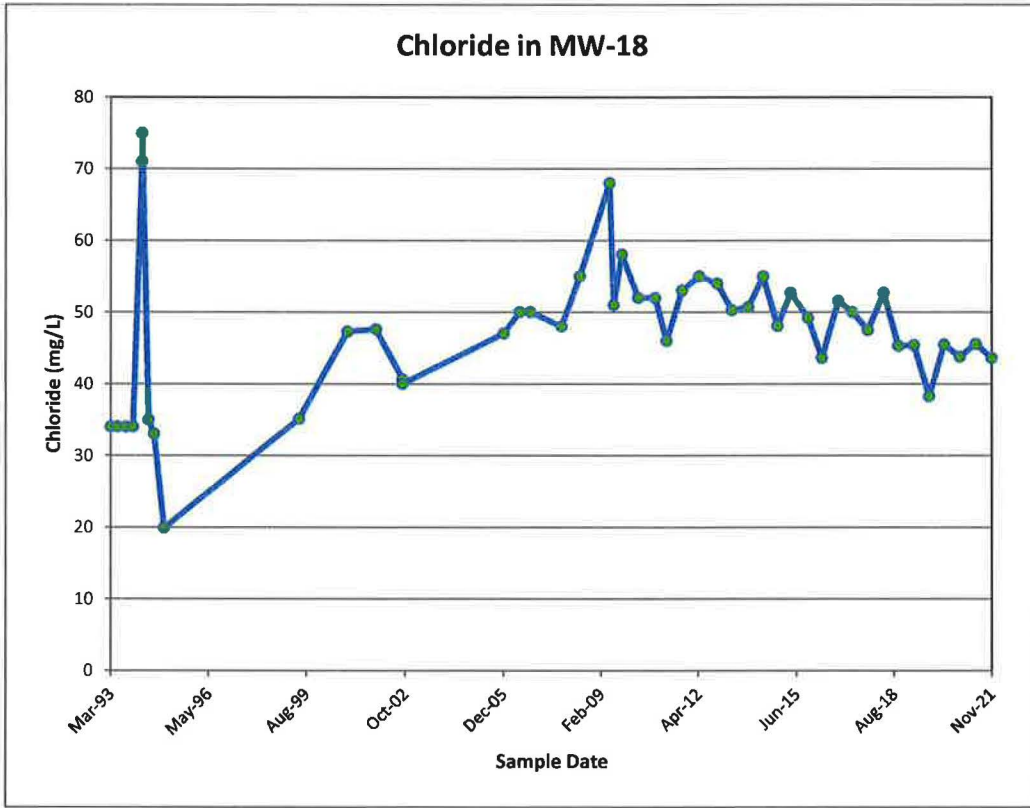
Time concentration plots for MW-17



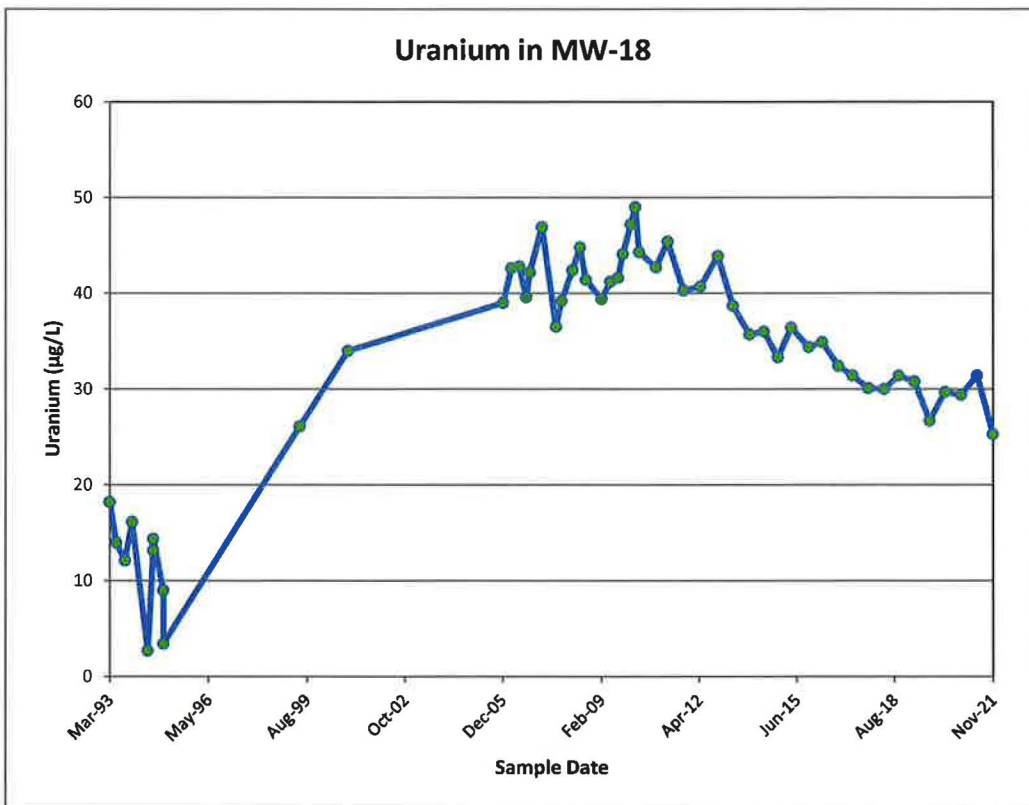
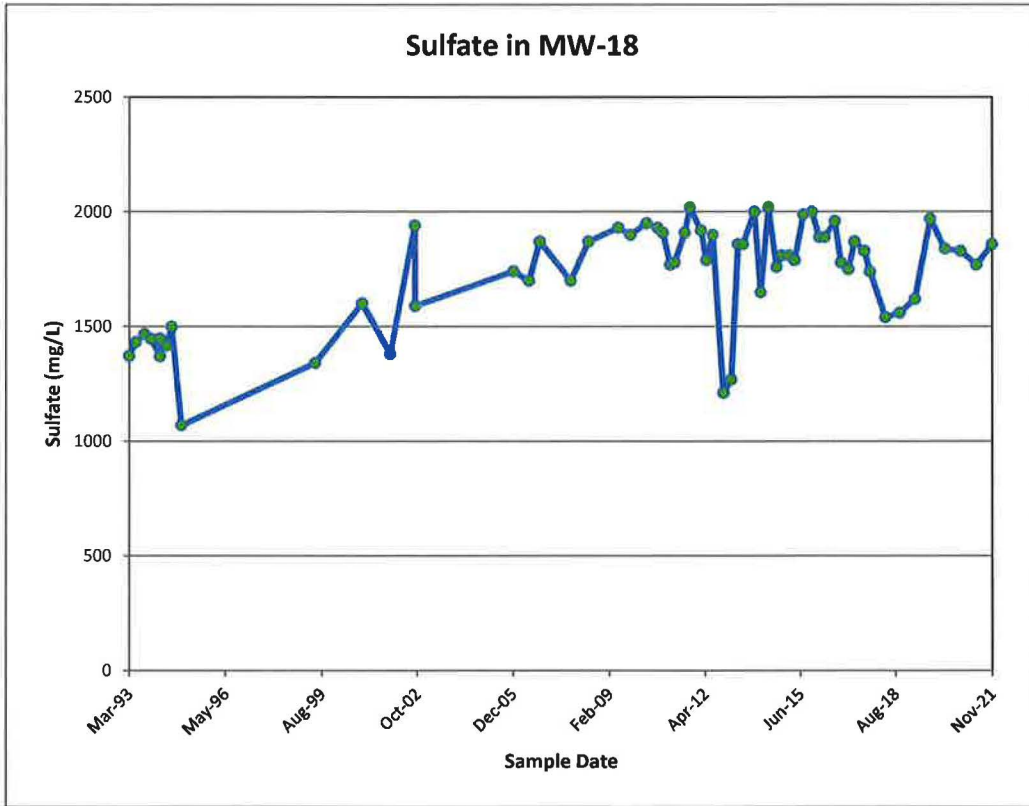
Time concentration plots for MW-17



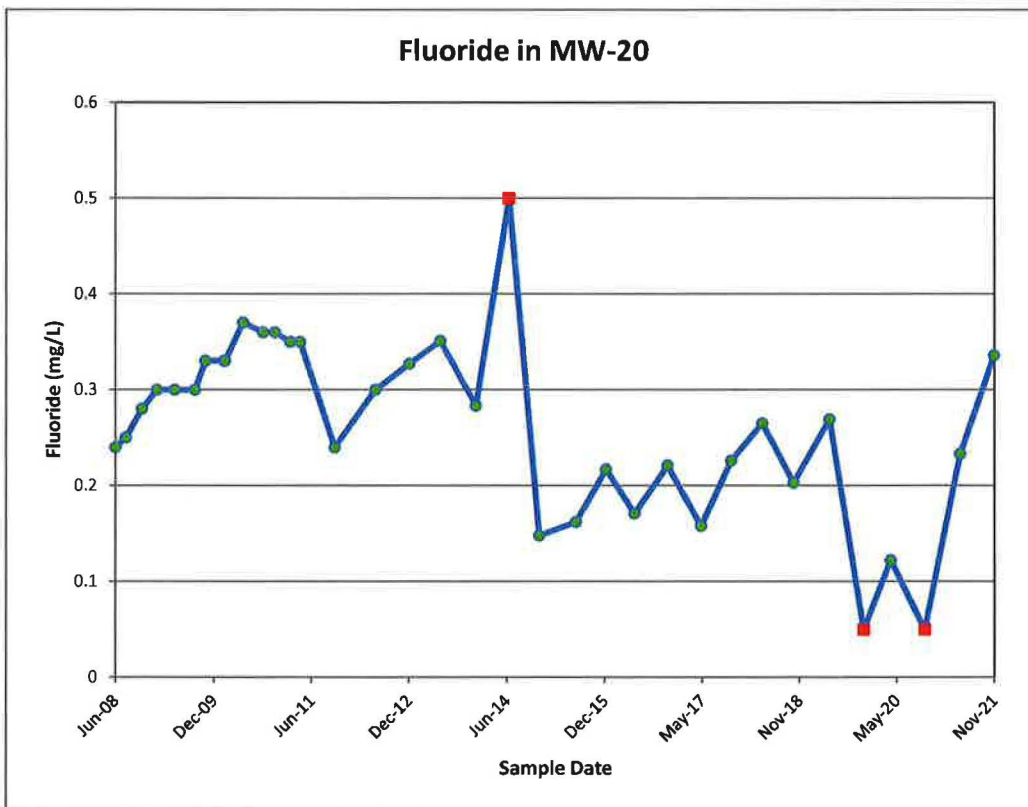
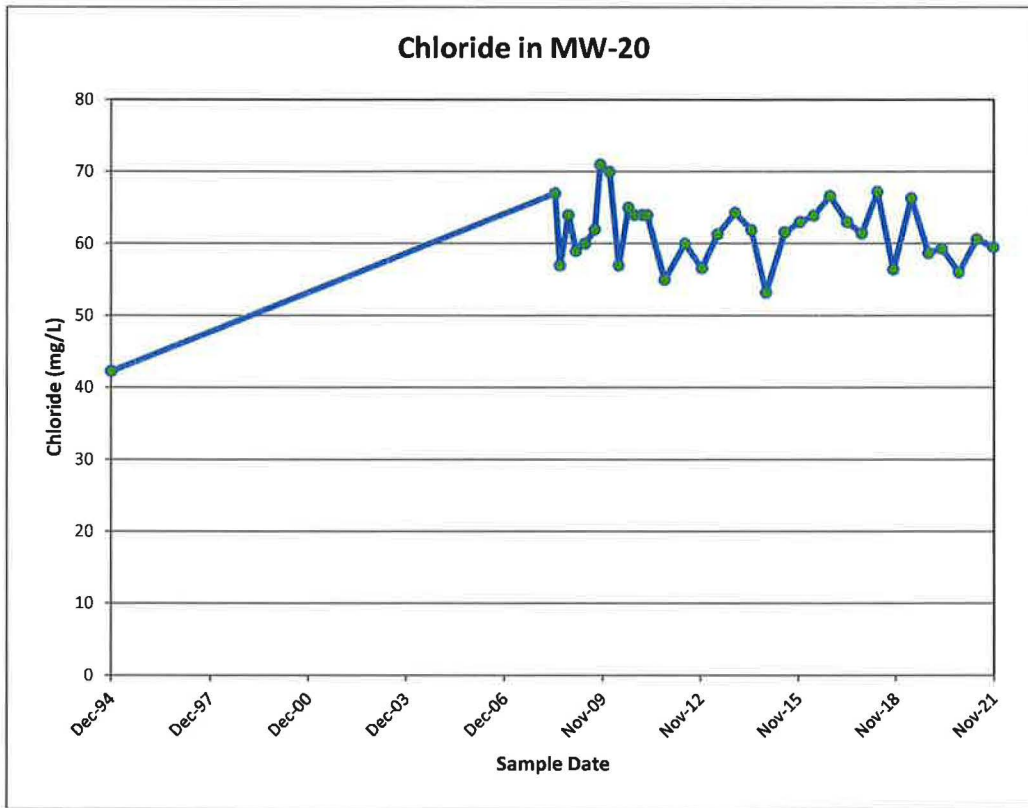
Time concentration plots for MW-18



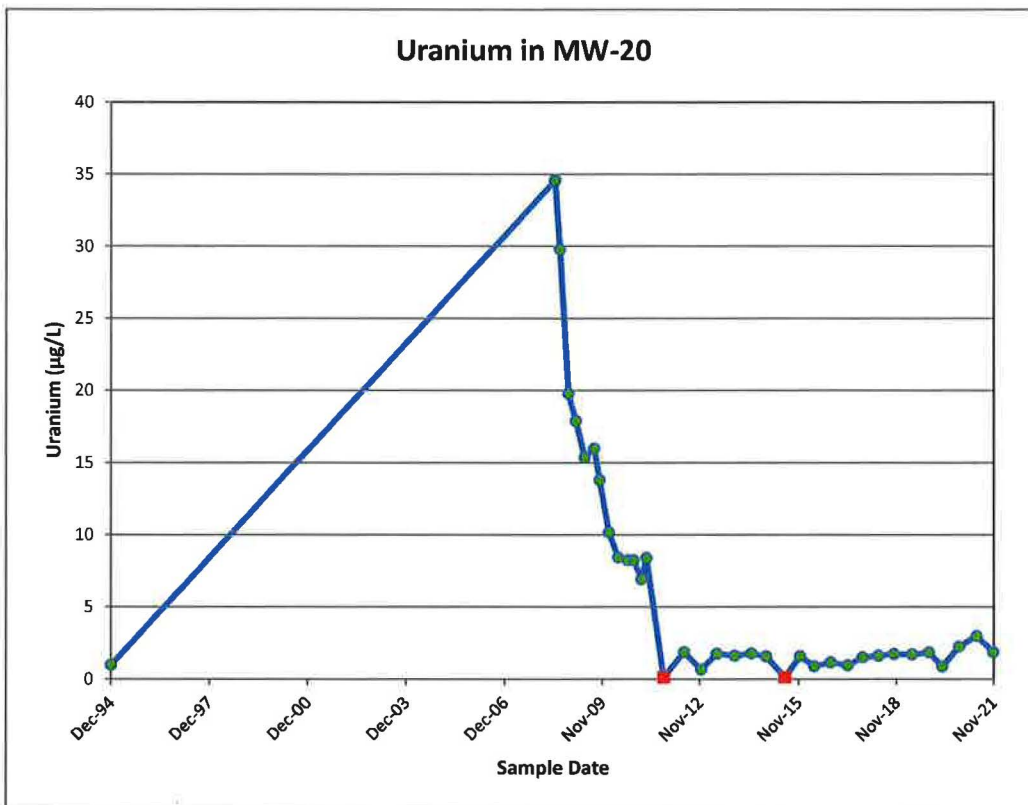
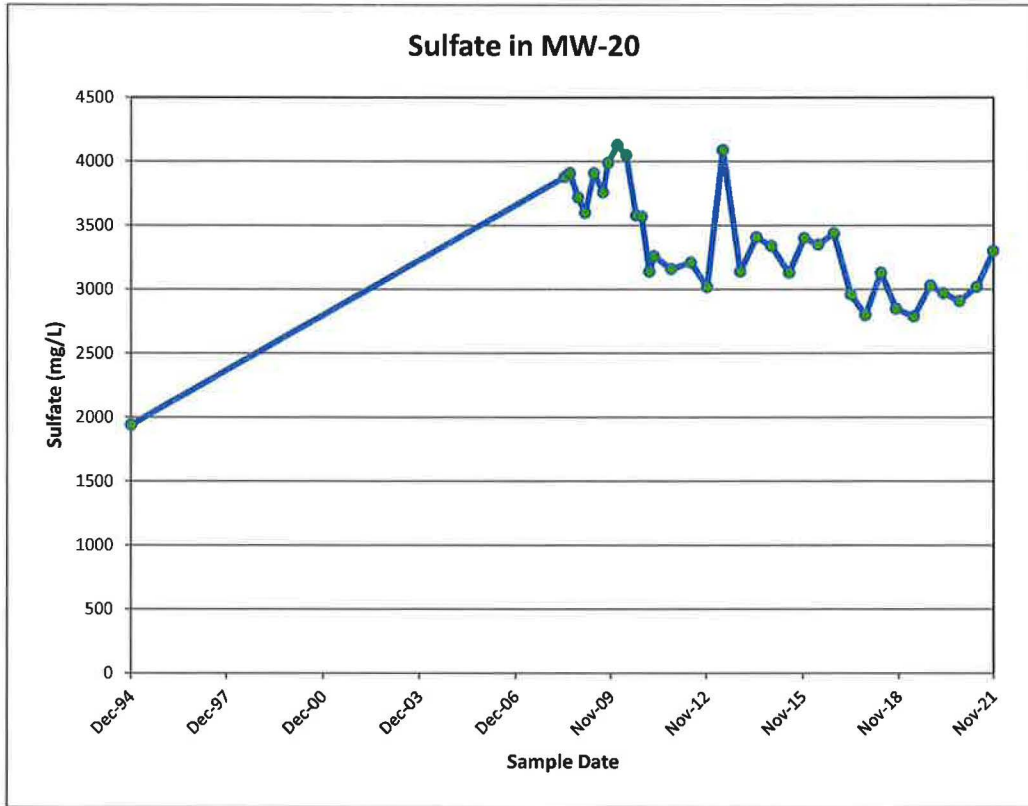
Time concentration plots for MW-18



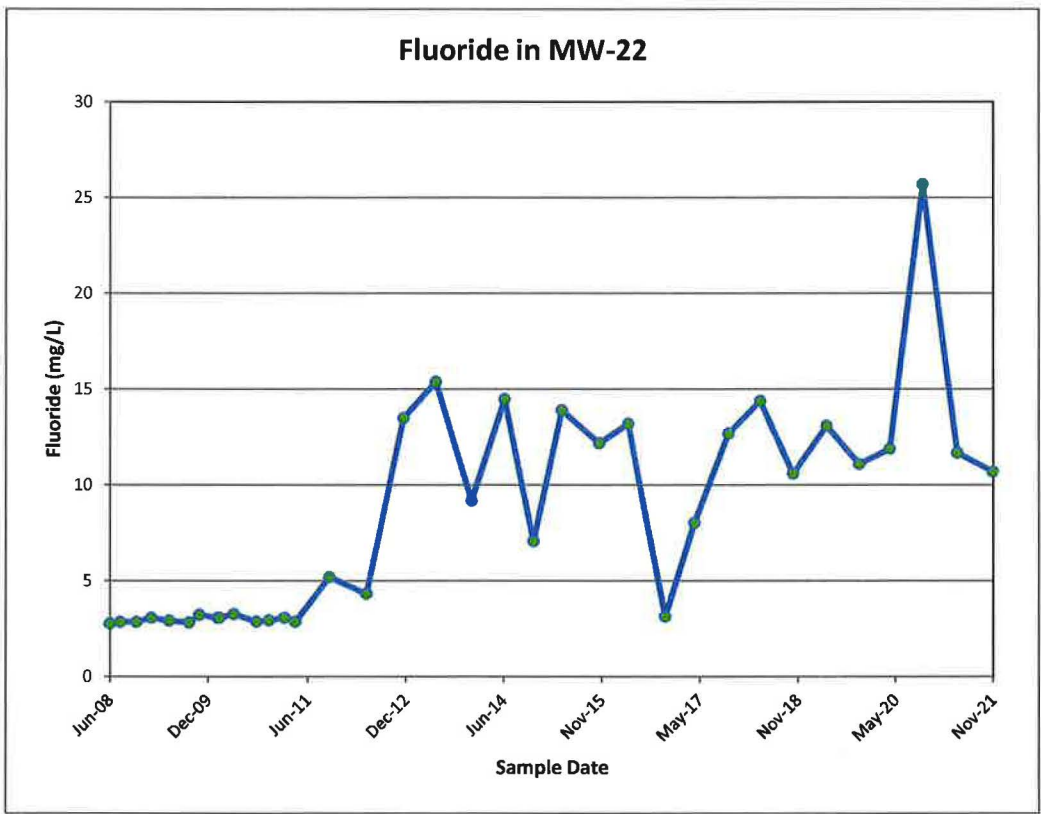
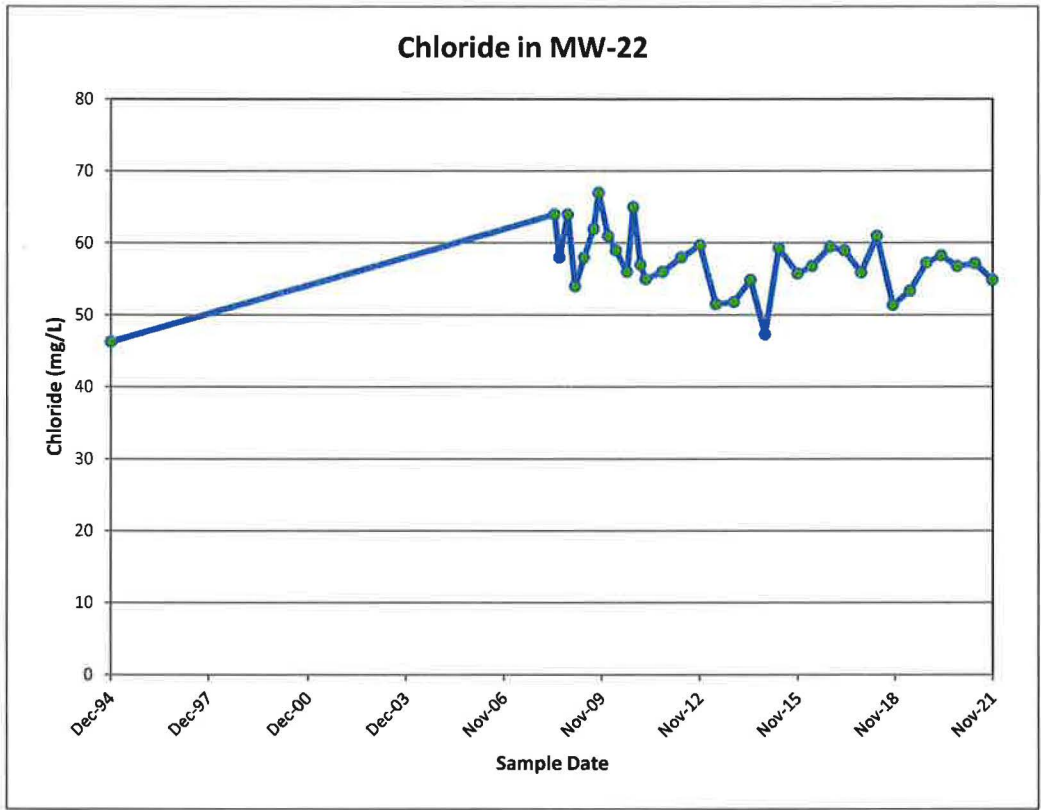
Time concentration plots for MW-20



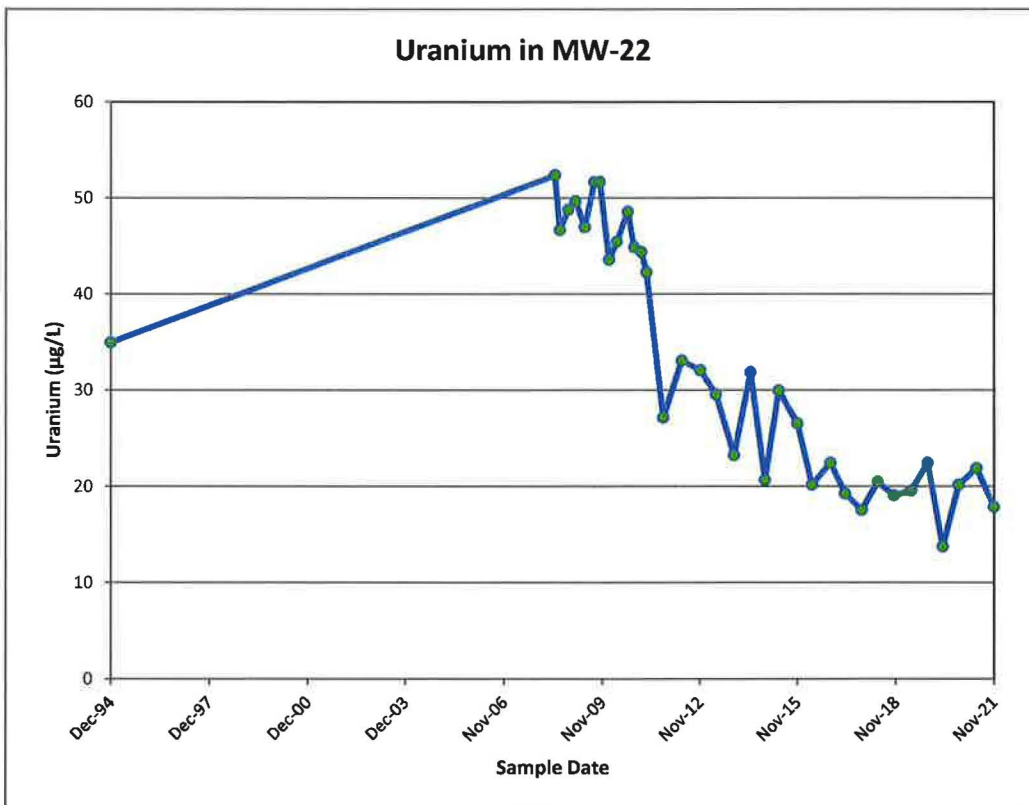
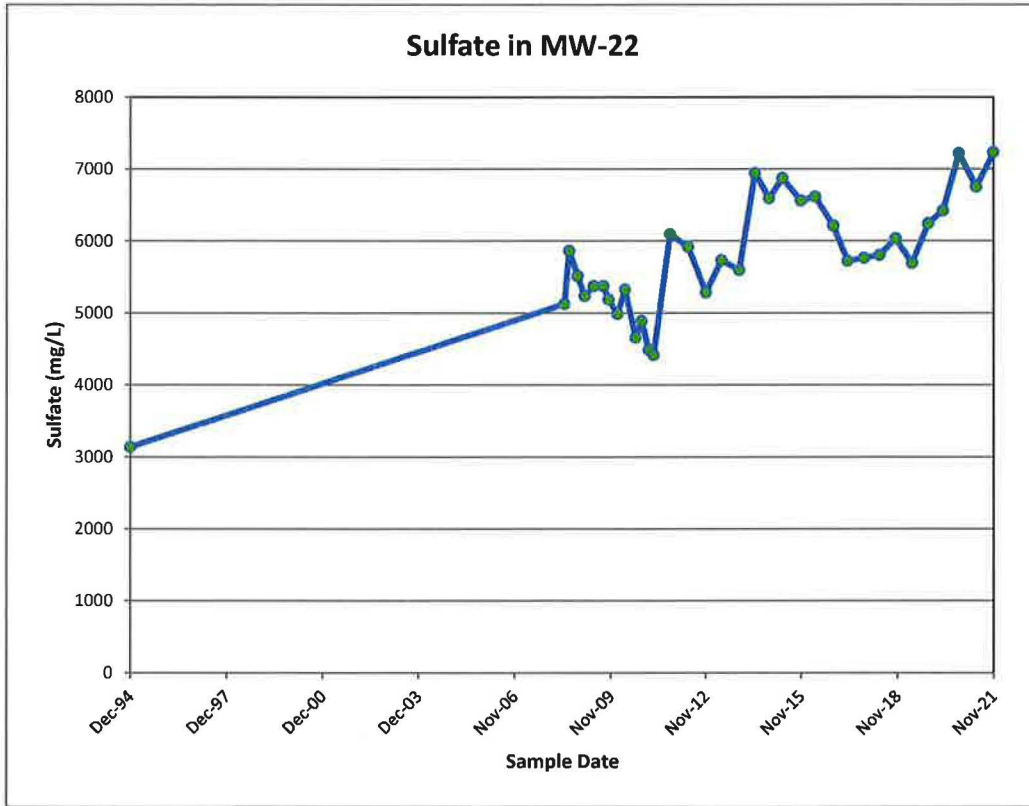
Time concentration plots for MW-20



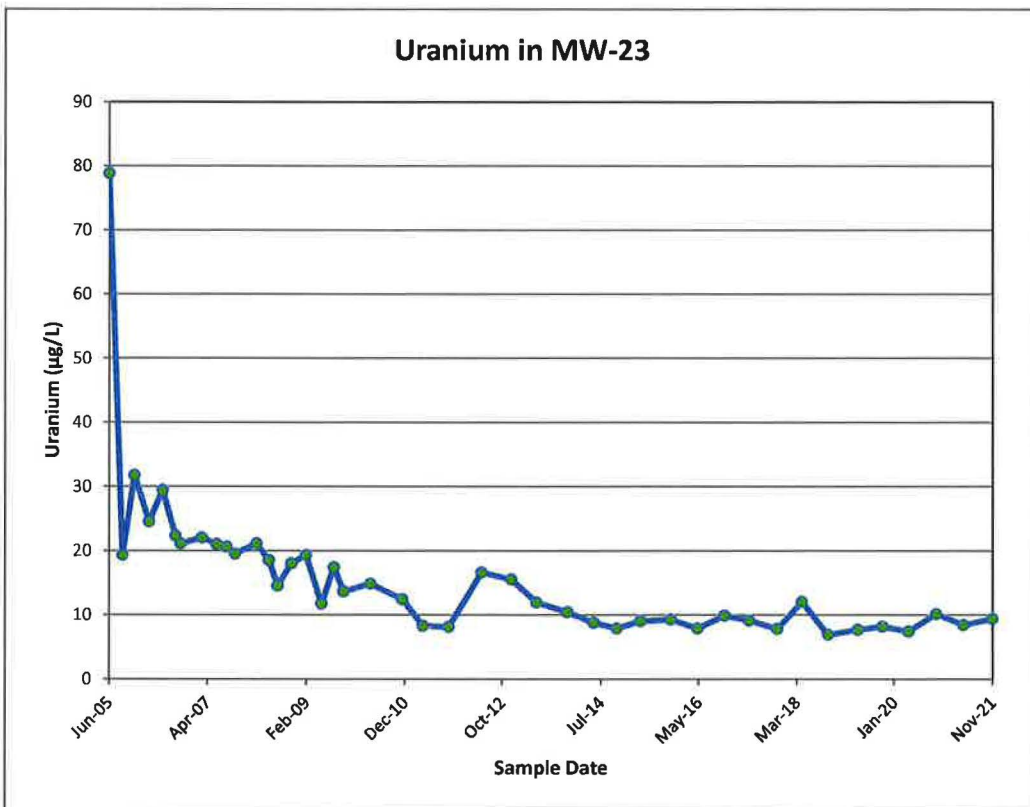
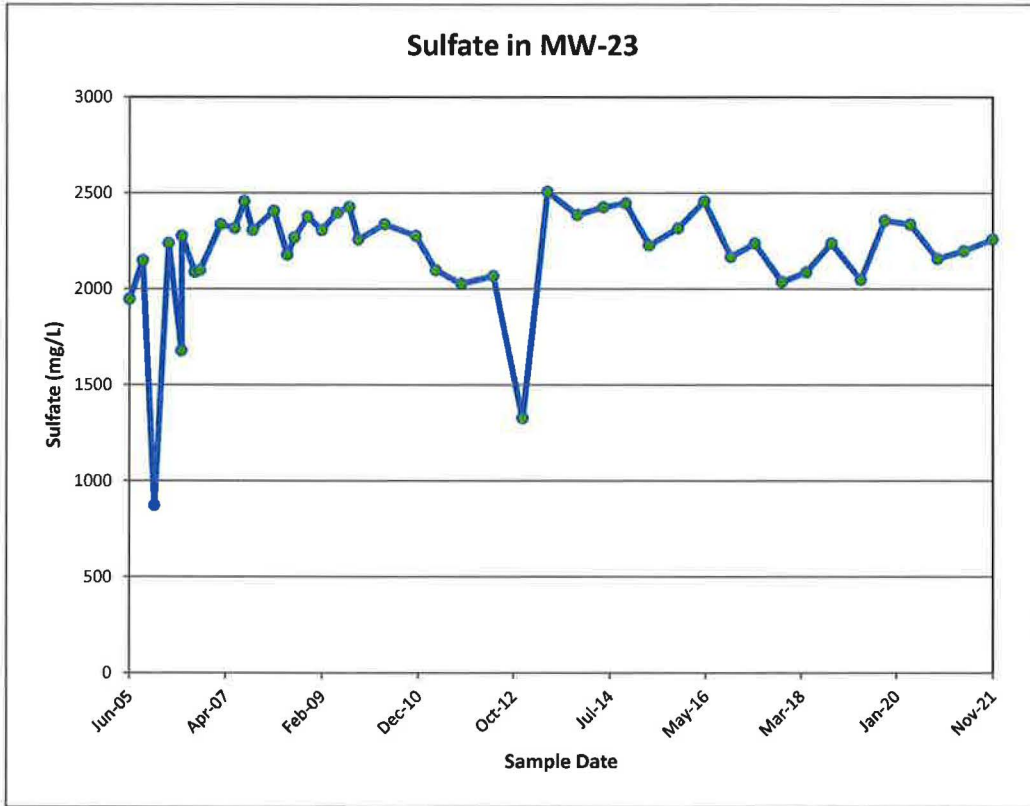
Time concentration plots for MW-22



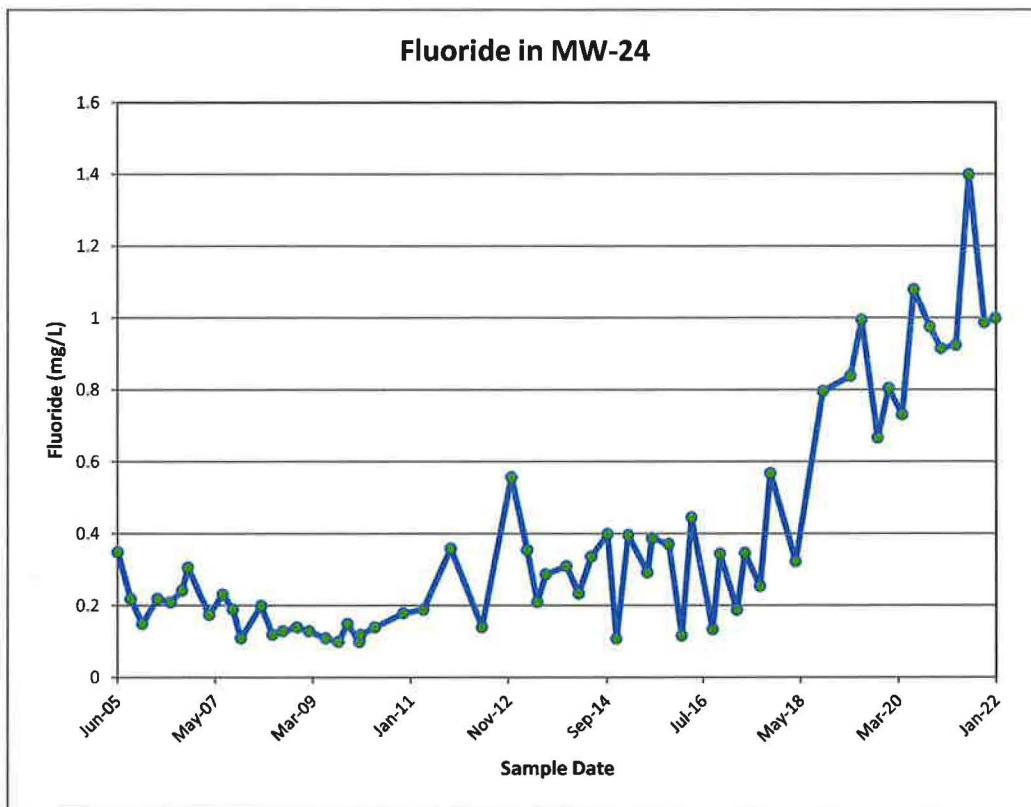
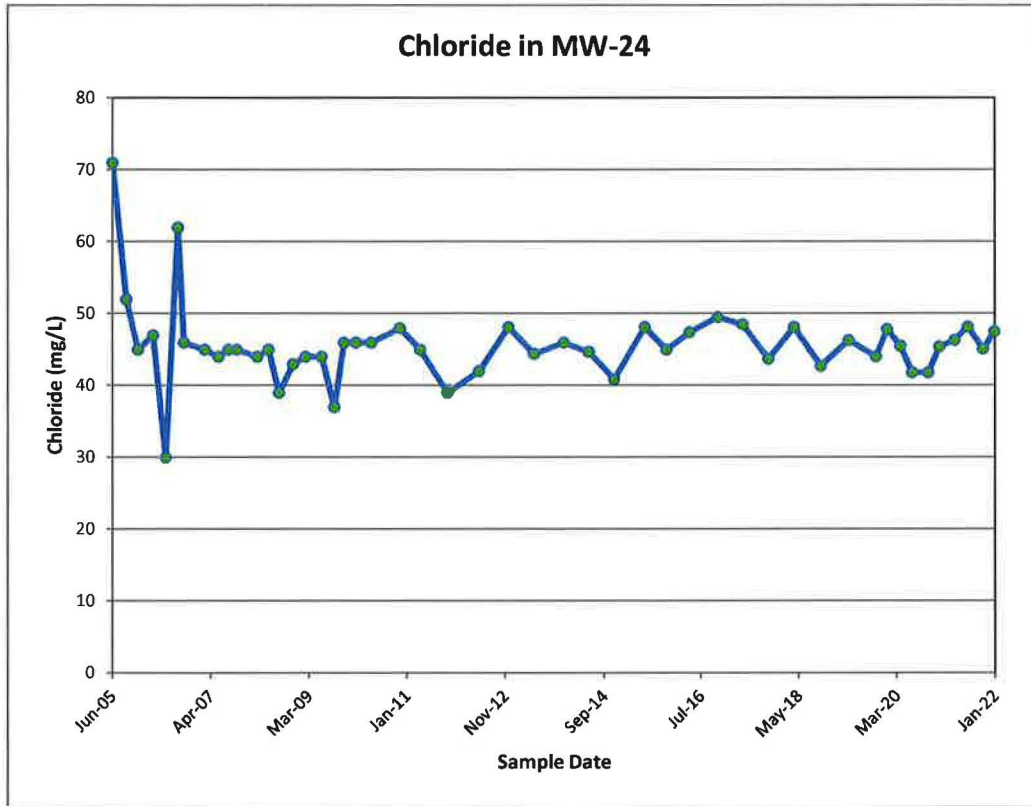
Time concentration plots for MW-22



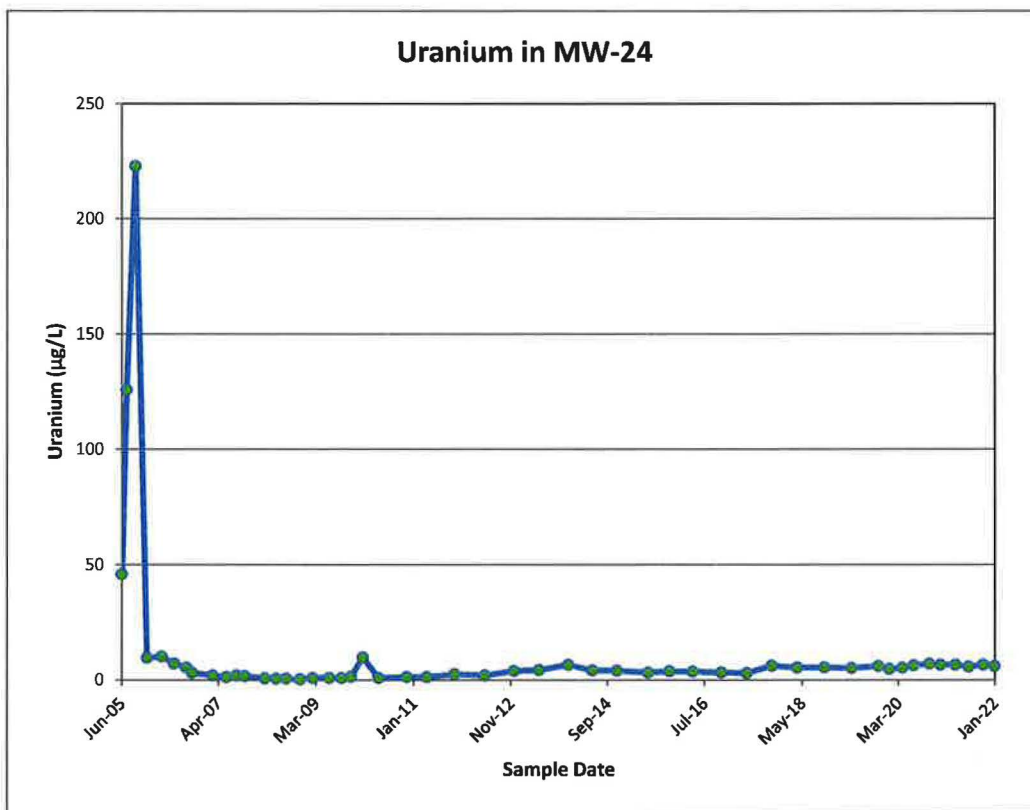
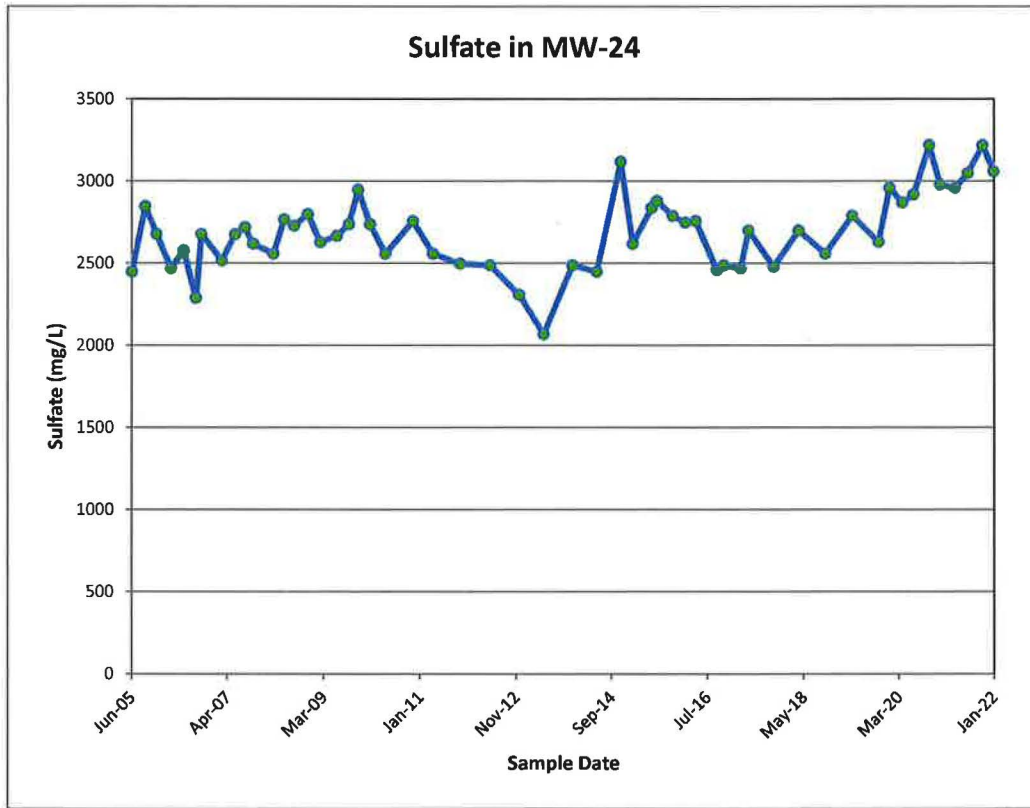
Time concentration plots for MW-23



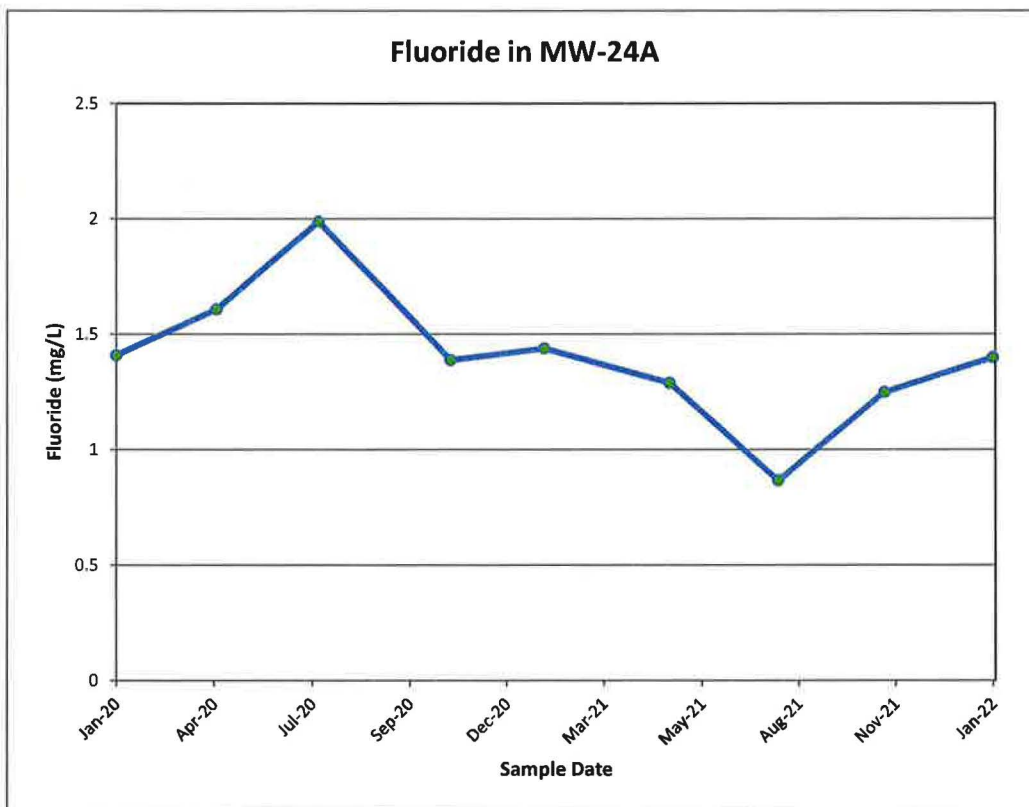
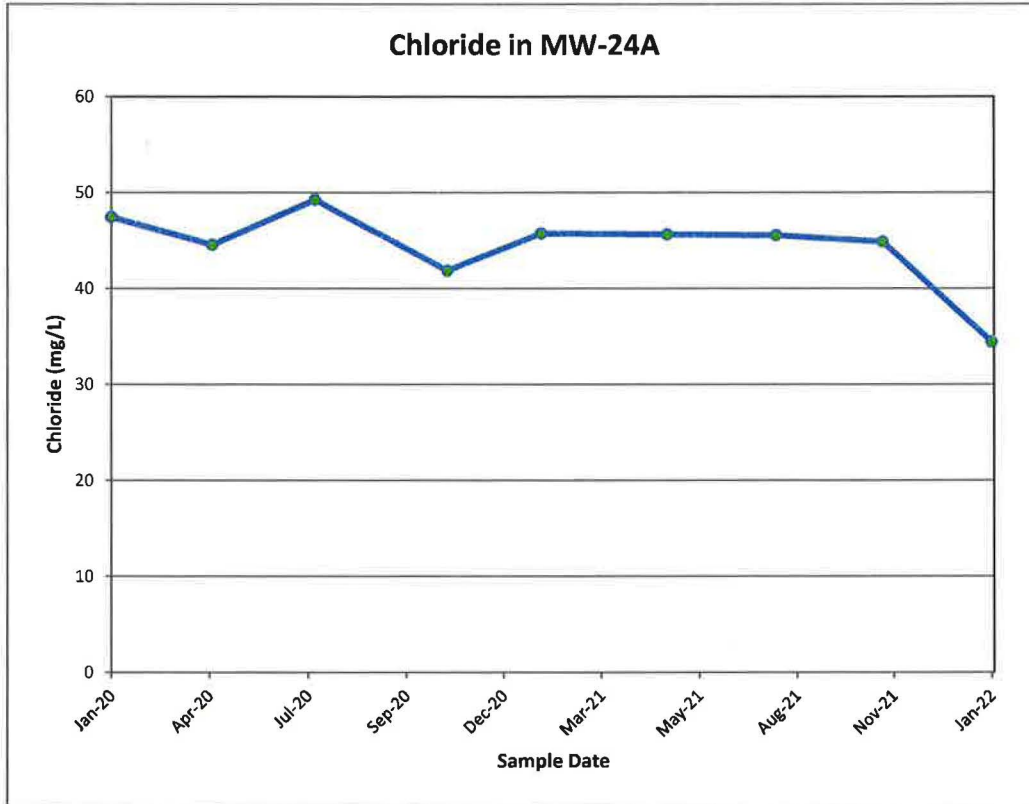
Time concentration plots for MW-24



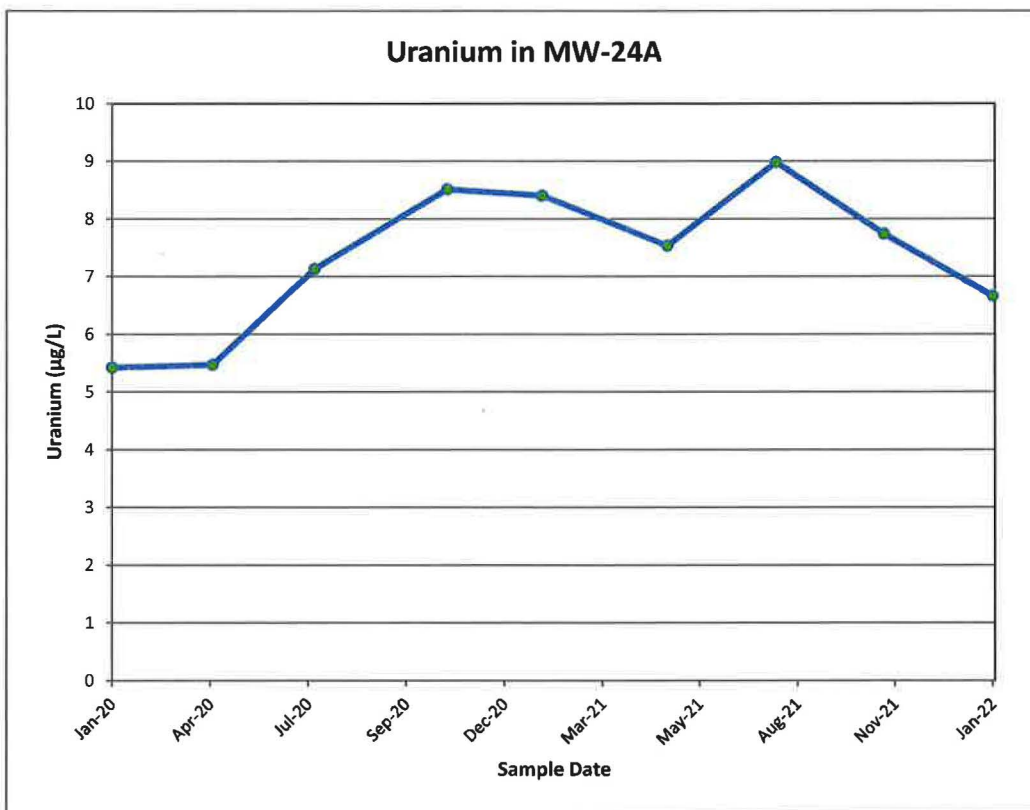
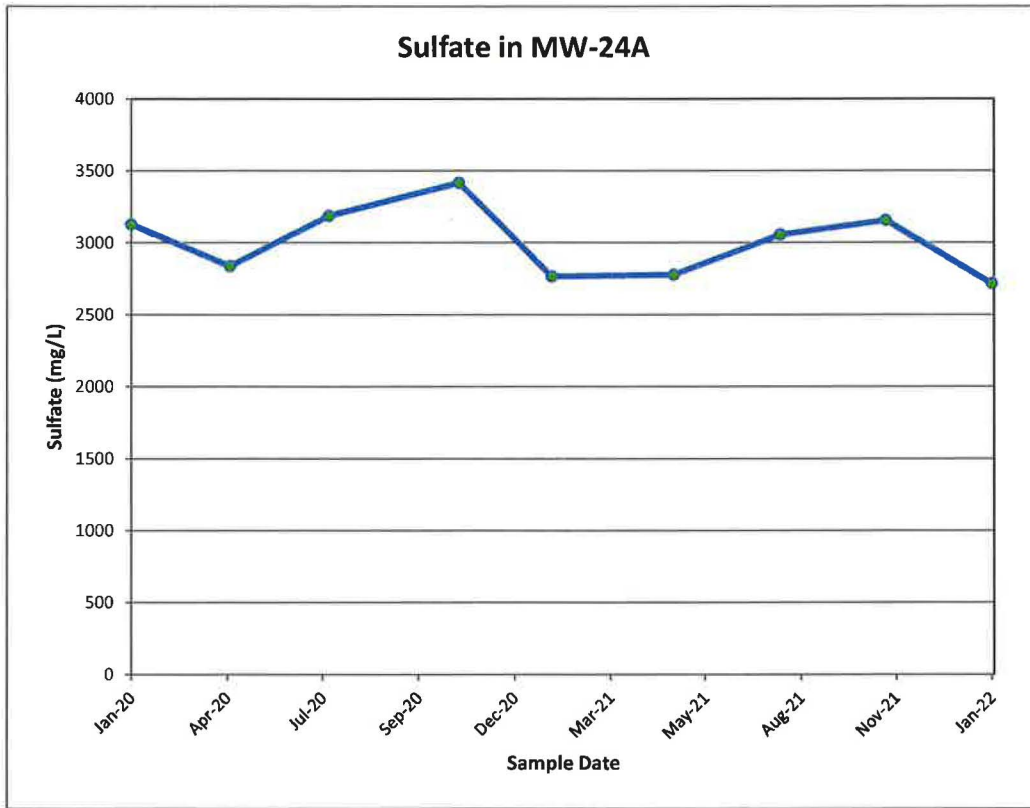
Time concentration plots for MW-24



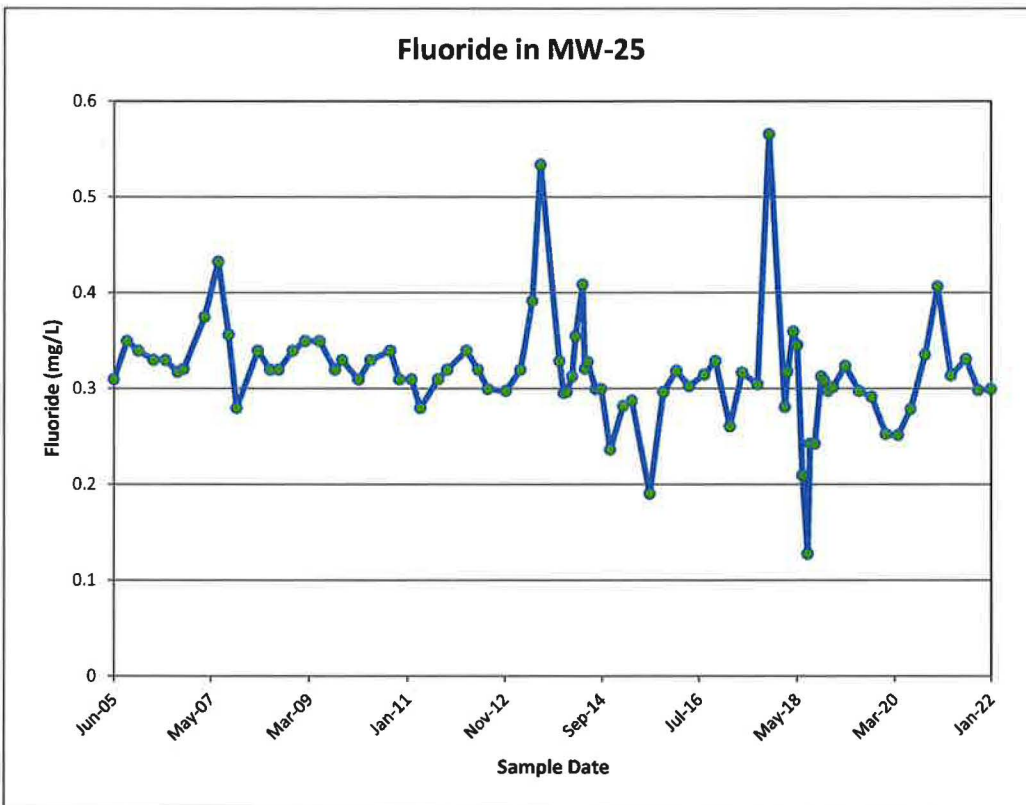
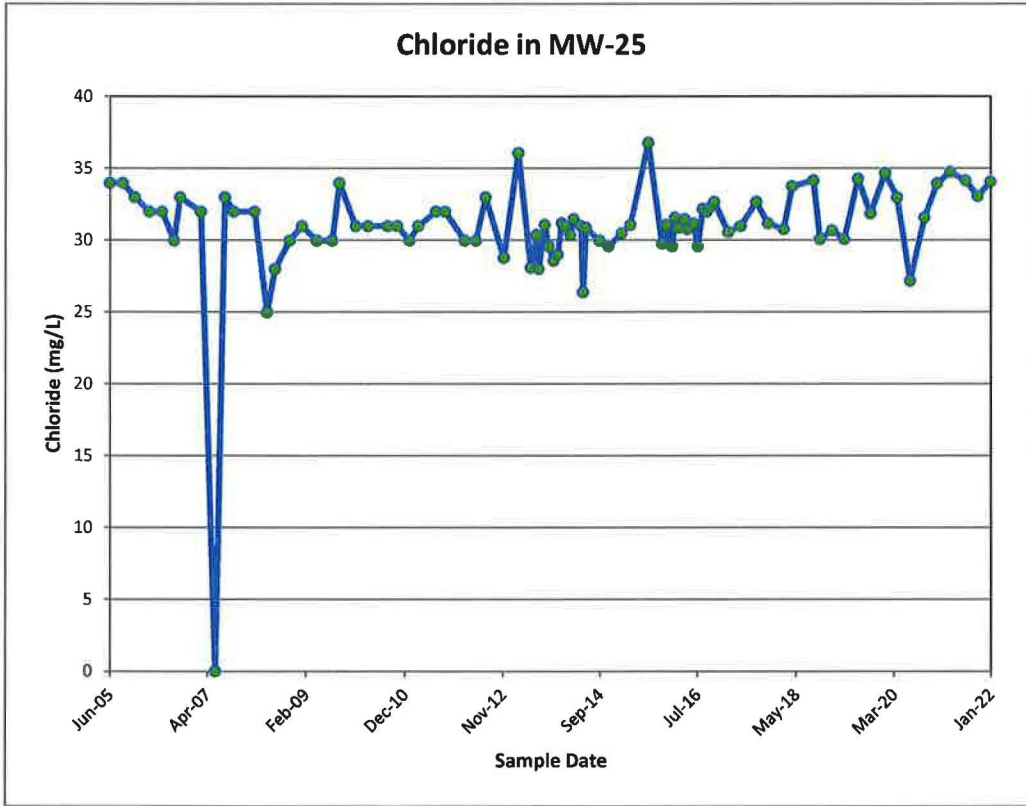
Time concentration plots for MW-24A



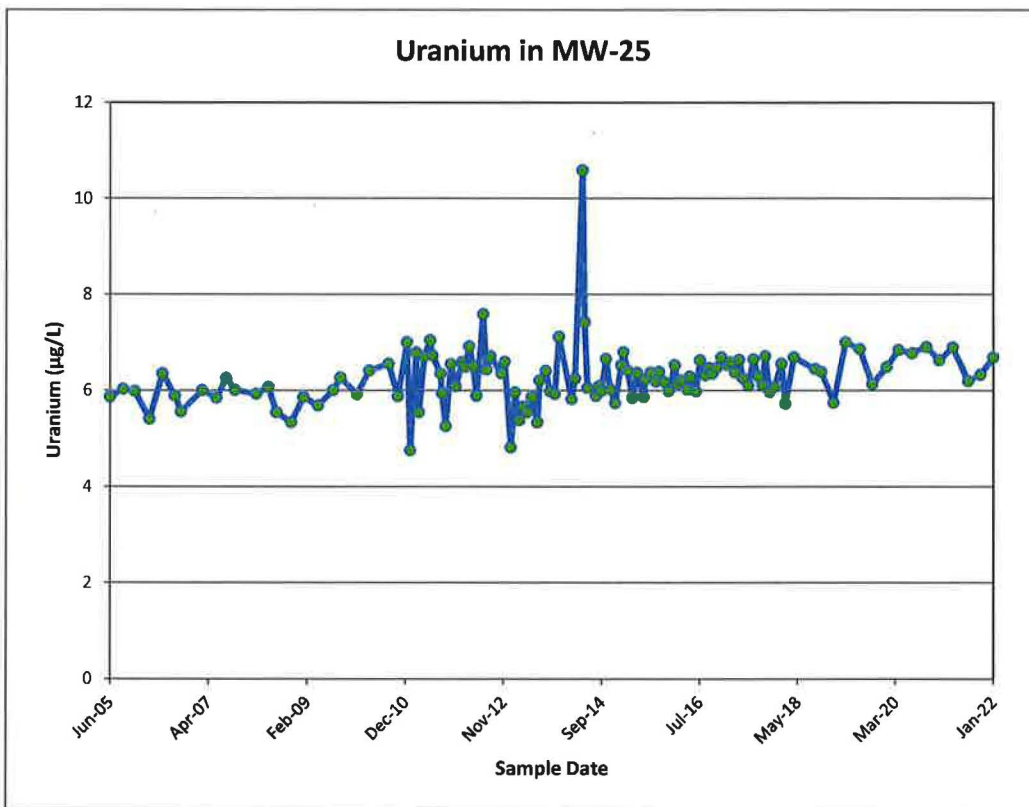
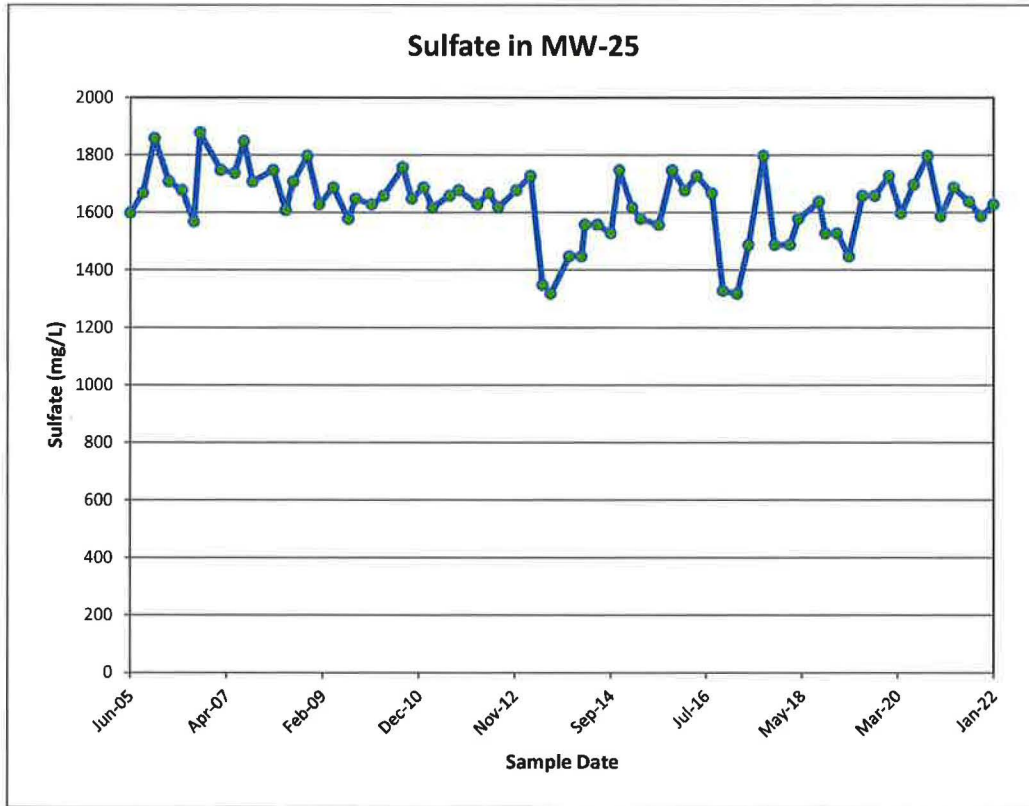
Time concentration plots for MW-24A



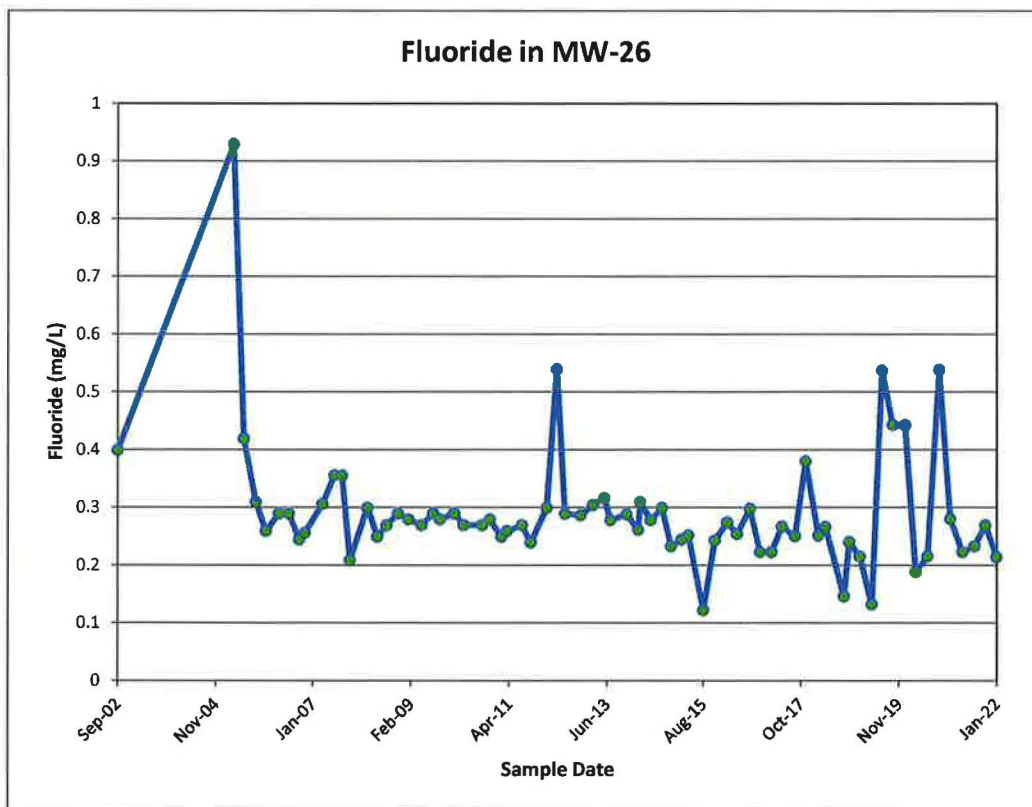
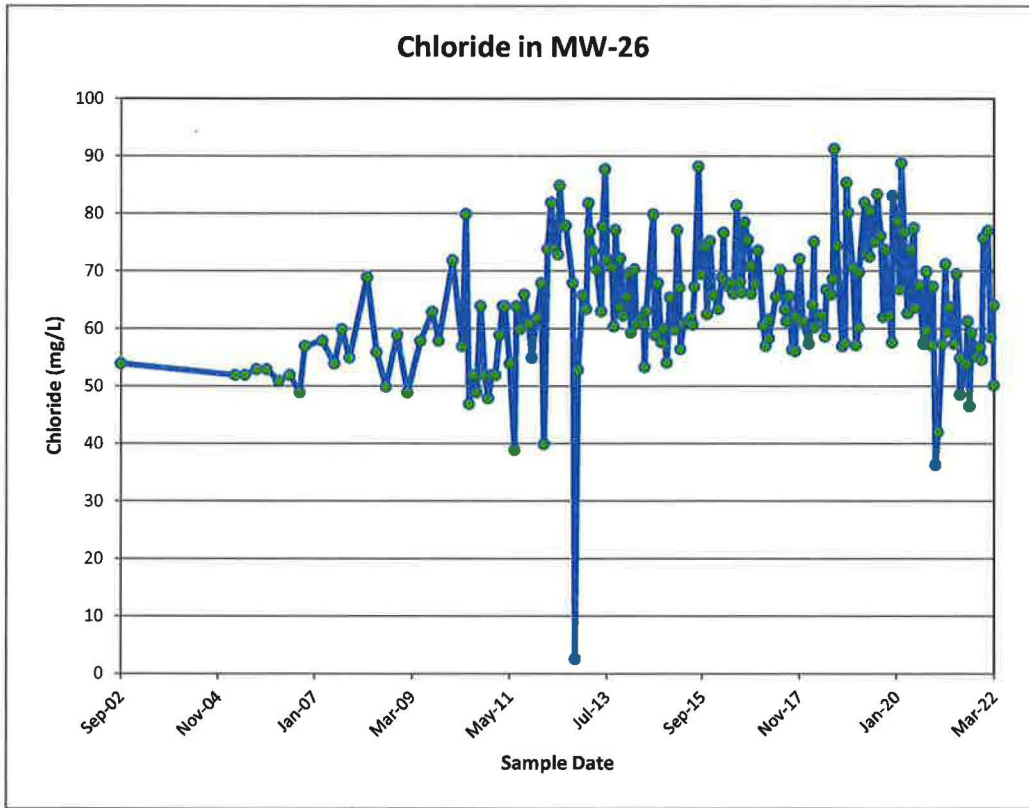
Time concentration plots for MW-25



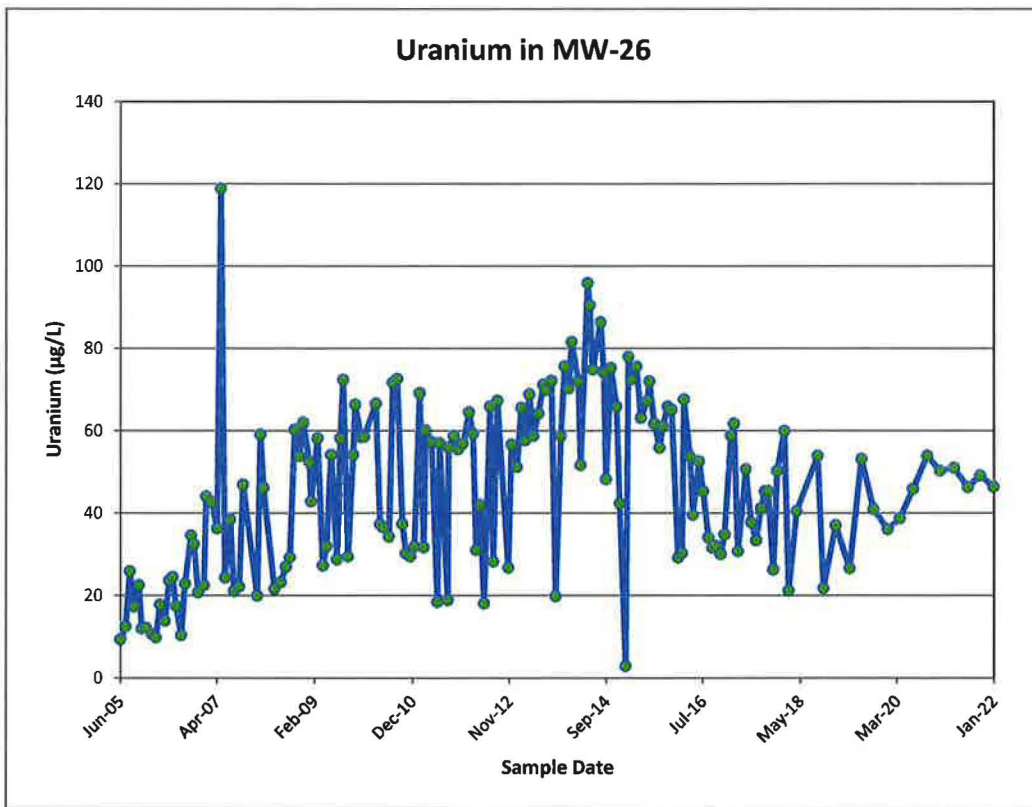
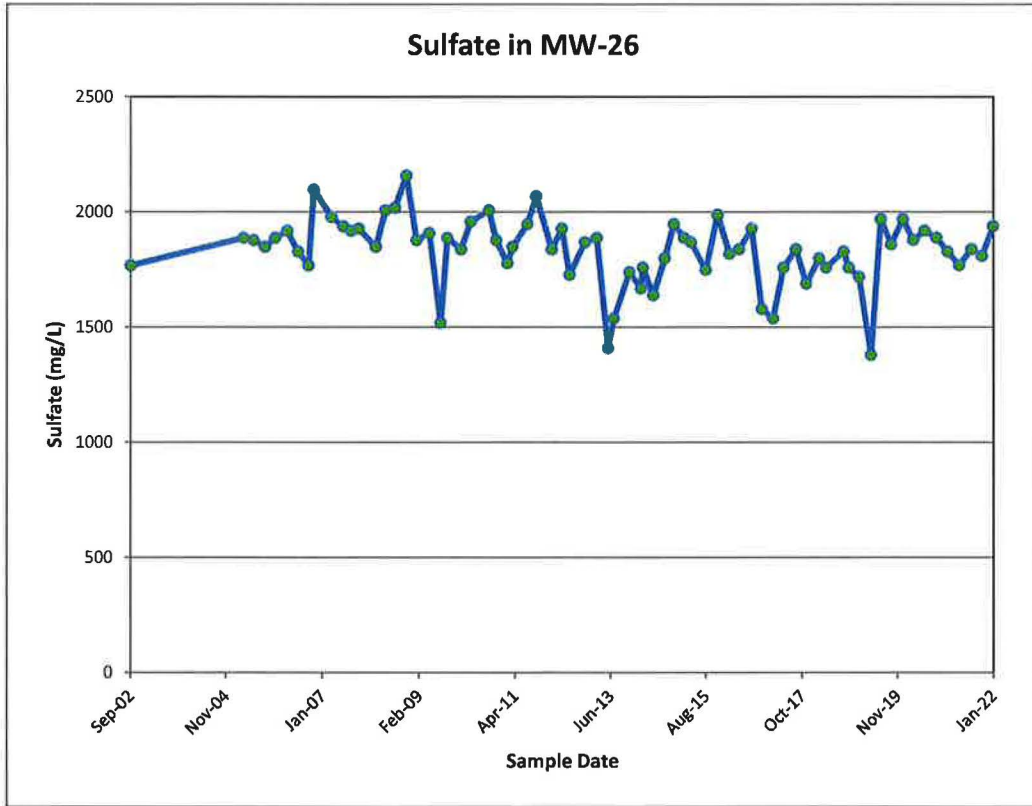
Time concentration plots for MW-25



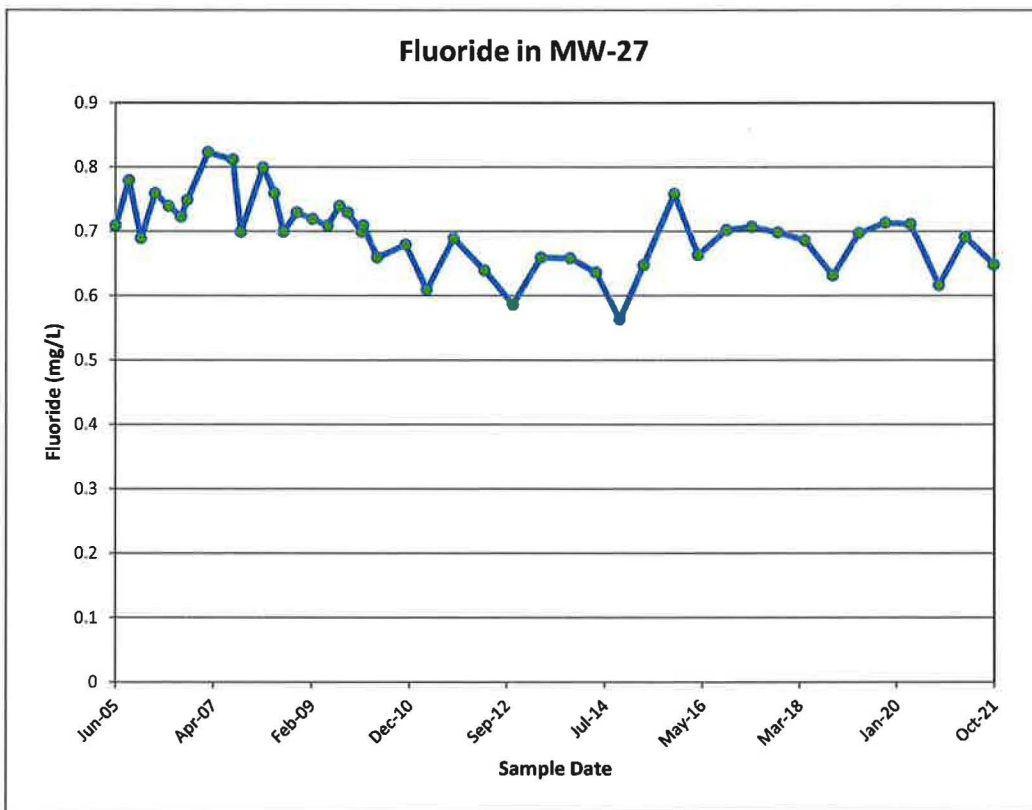
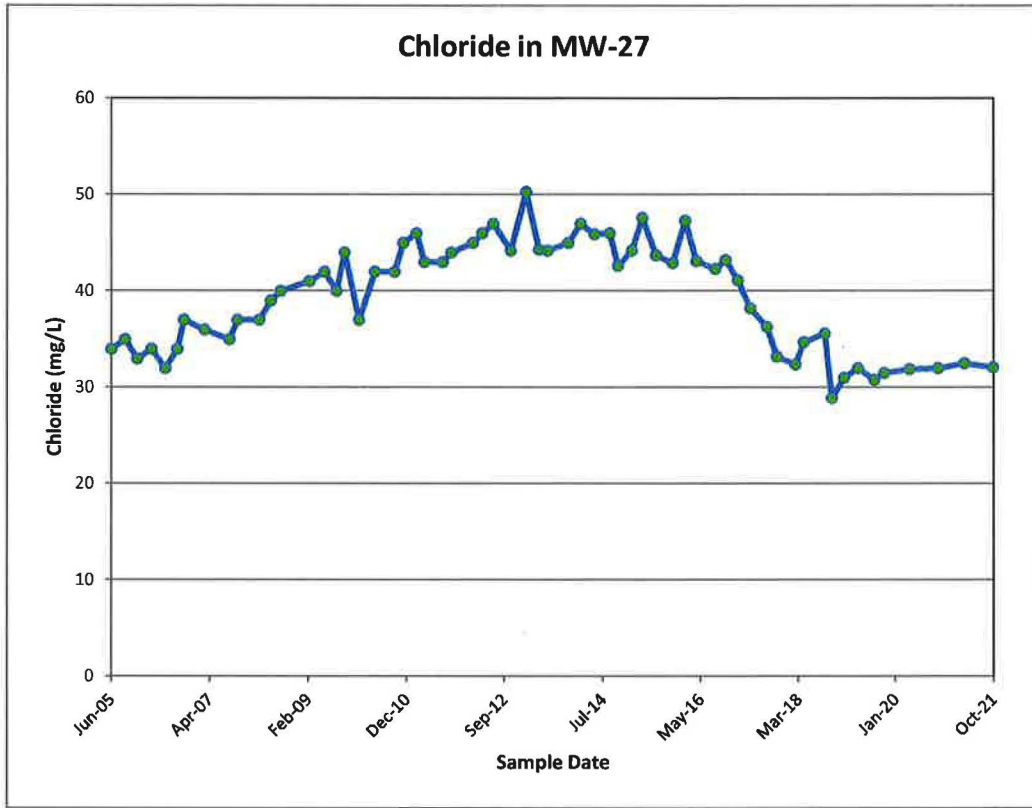
Time concentration plots for MW-26



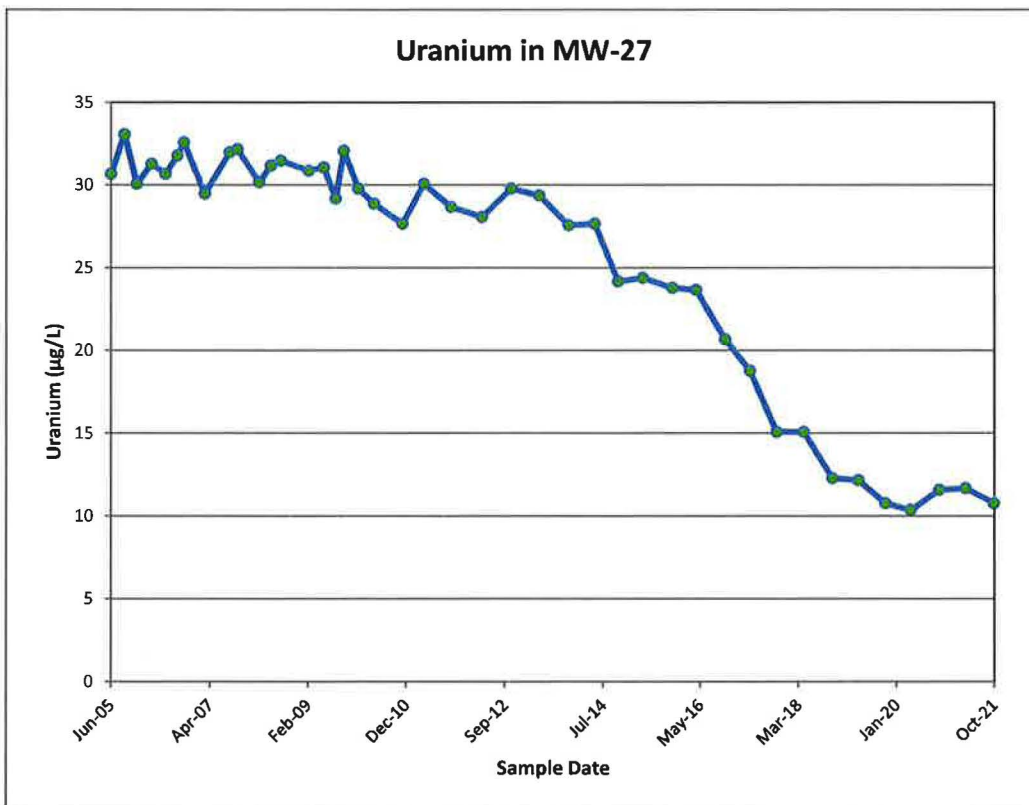
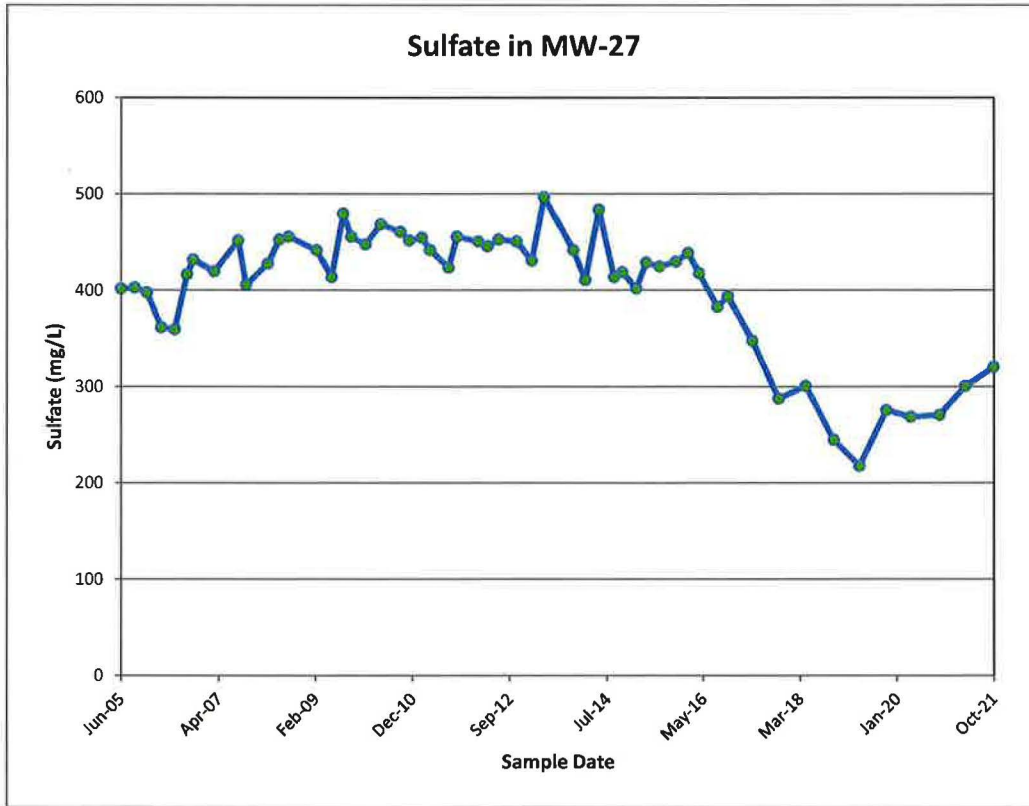
Time concentration plots for MW-26



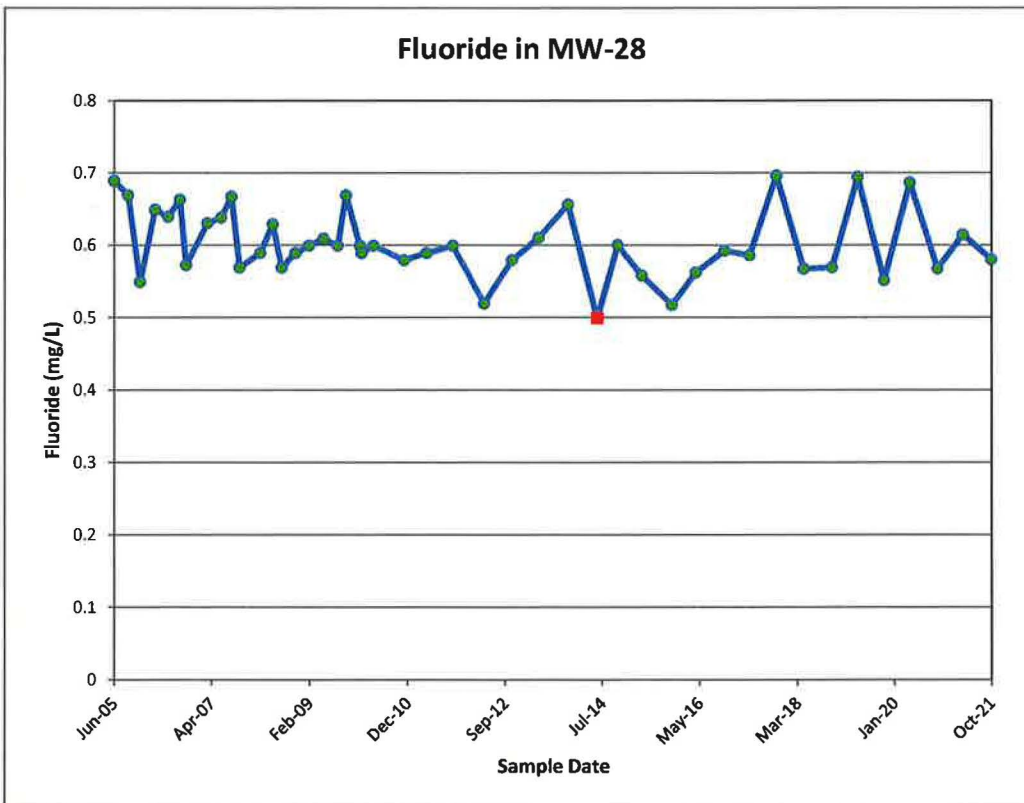
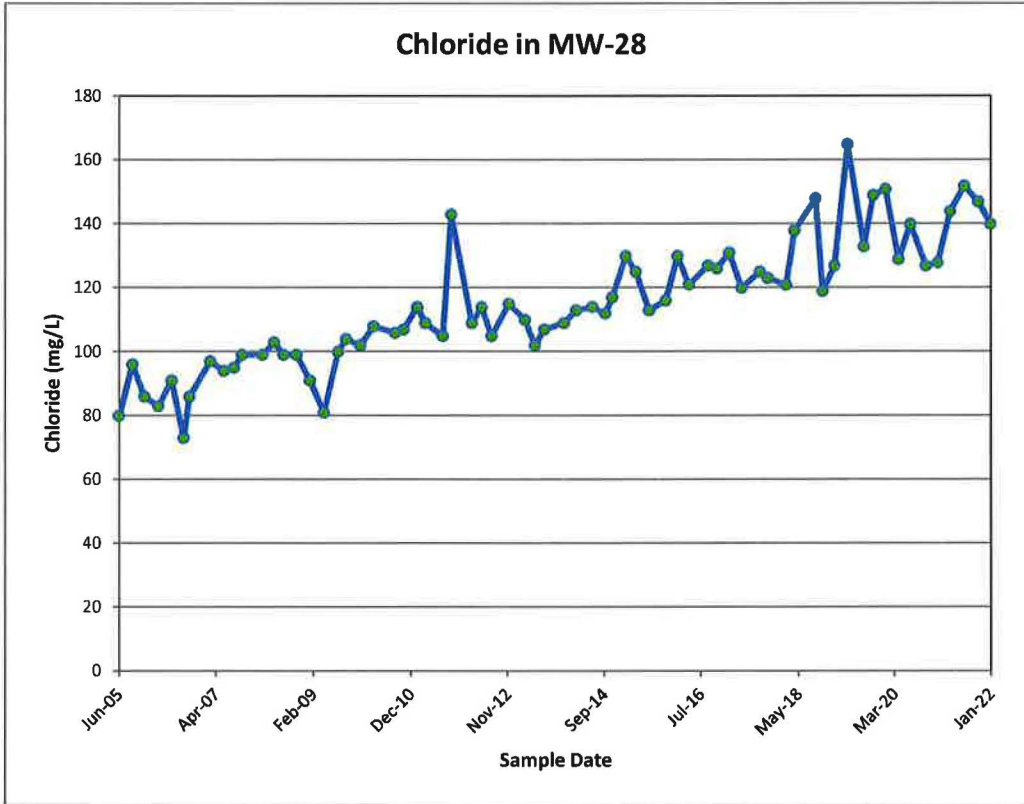
Time concentration plots for MW-27



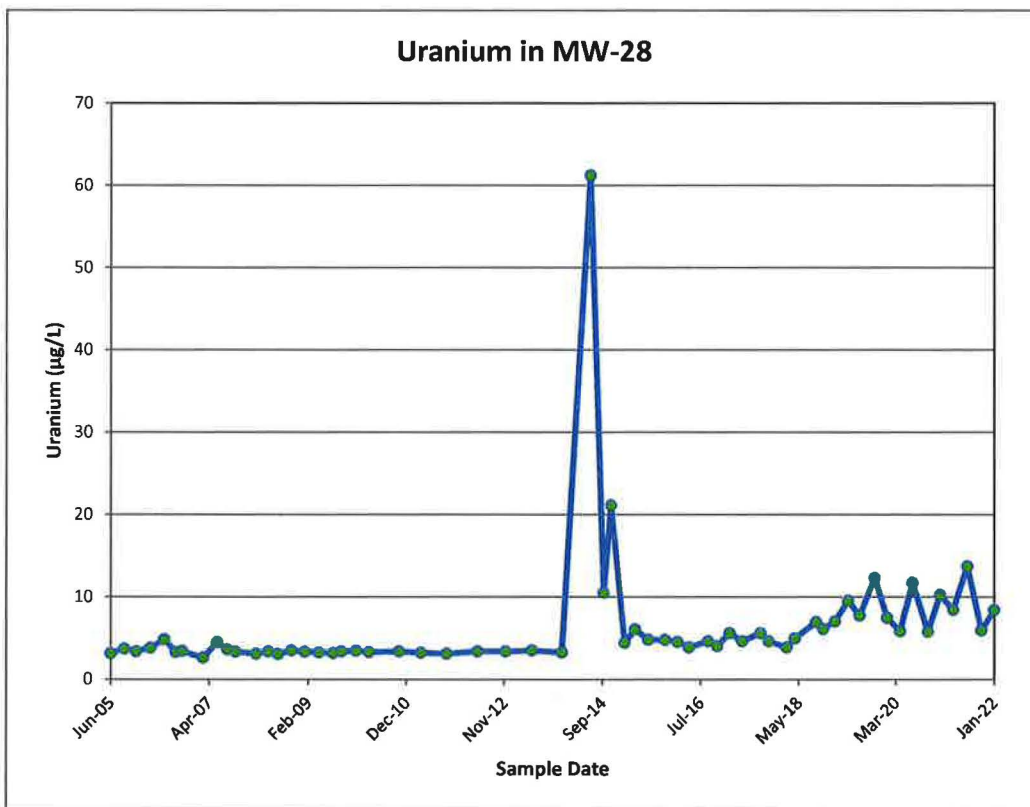
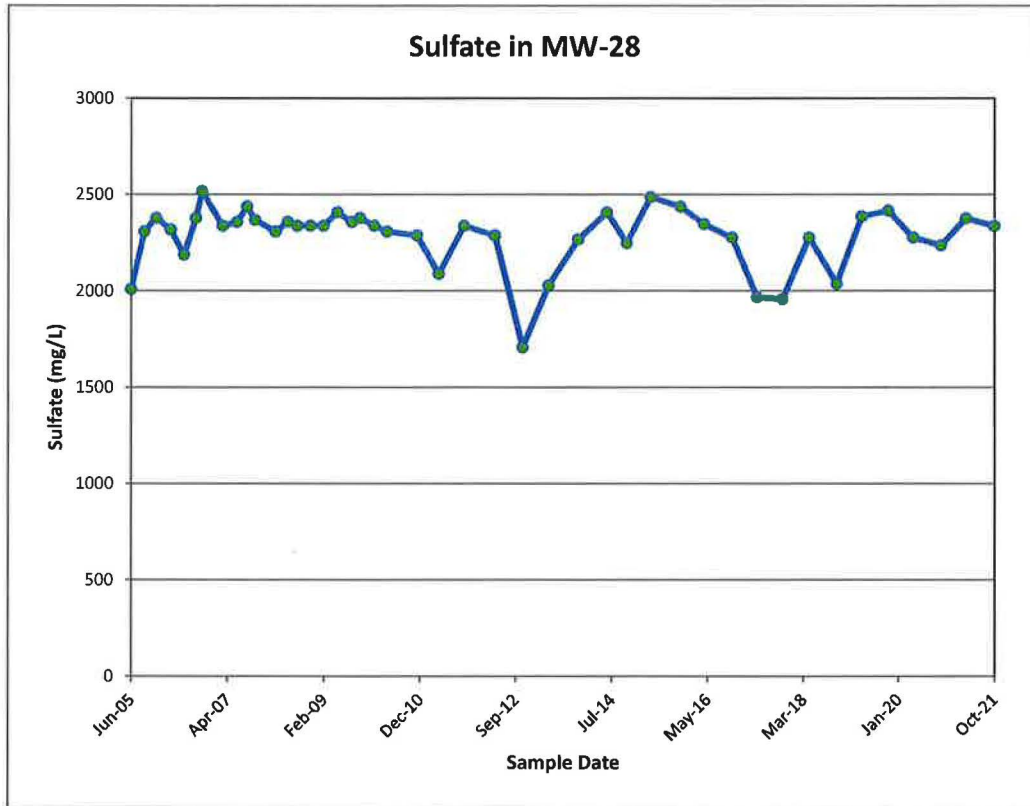
Time concentration plots for MW-27



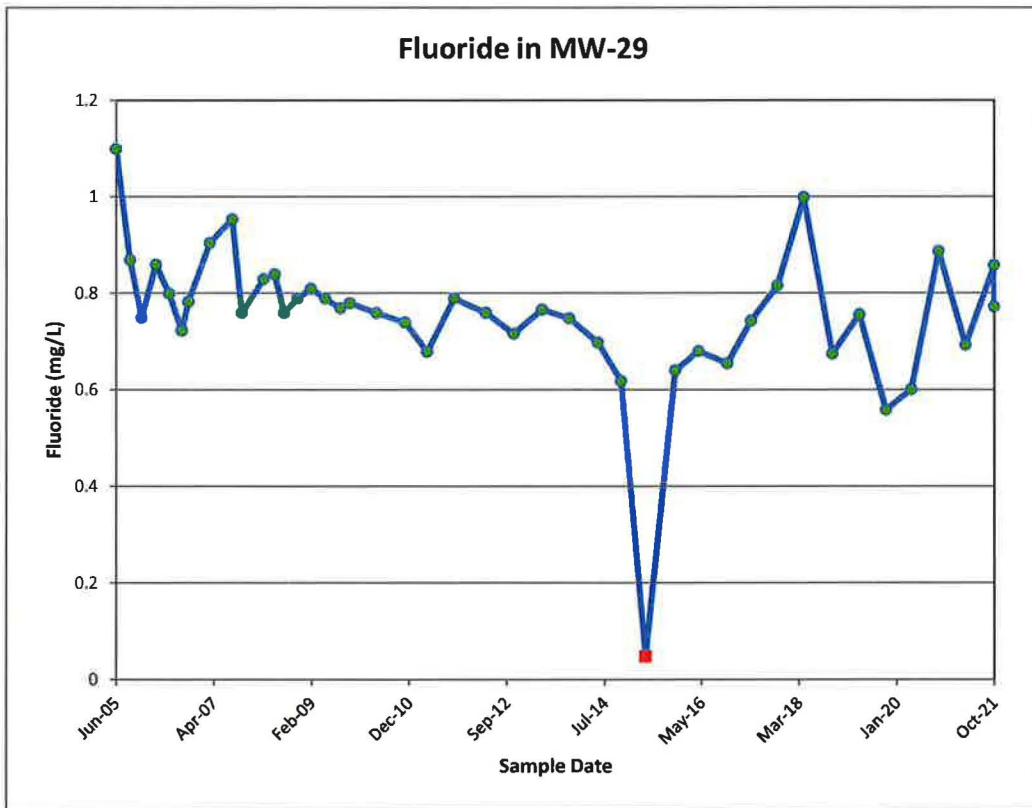
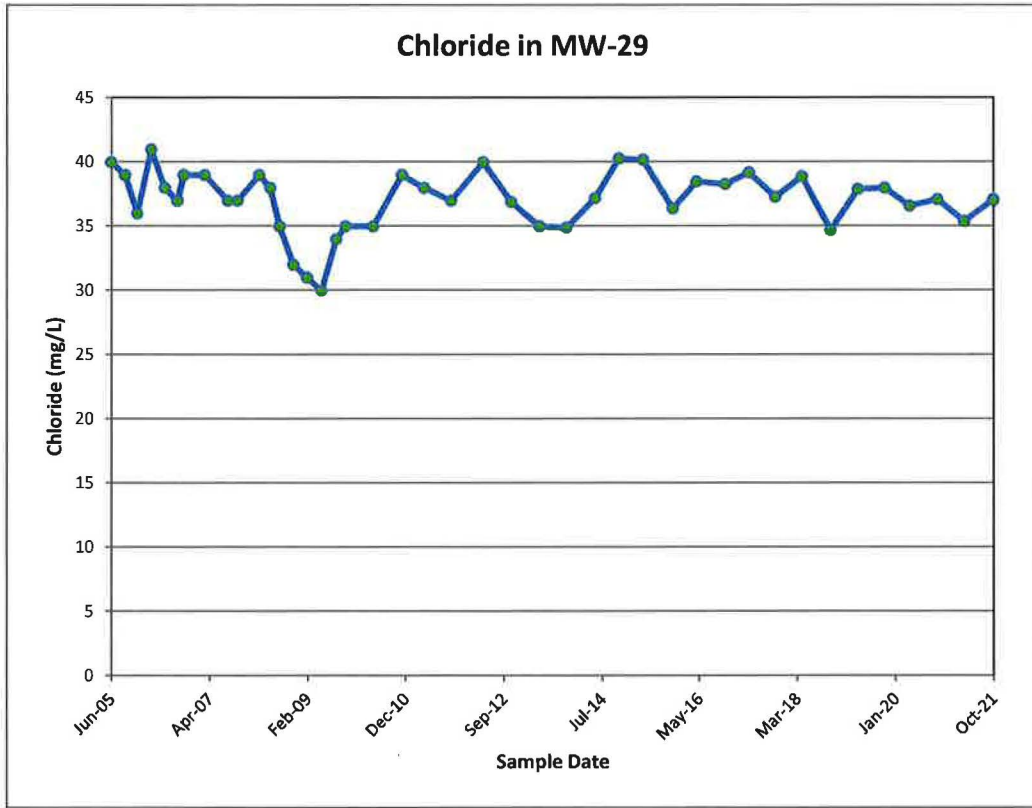
Time concentration plots for MW-28



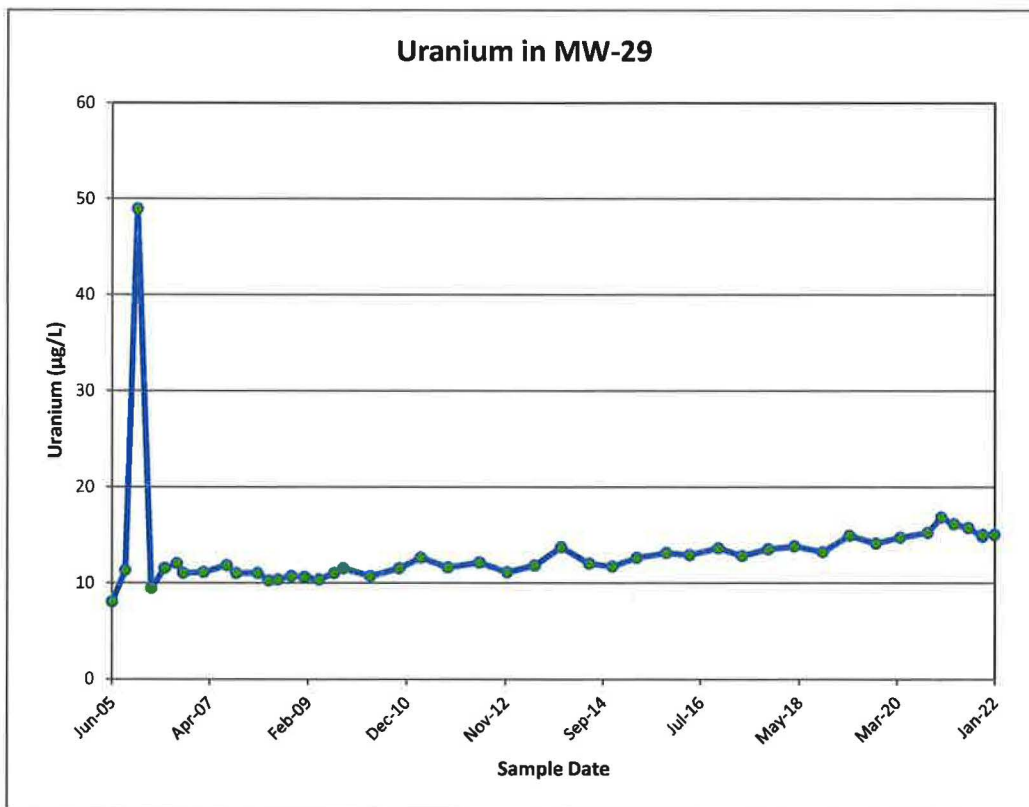
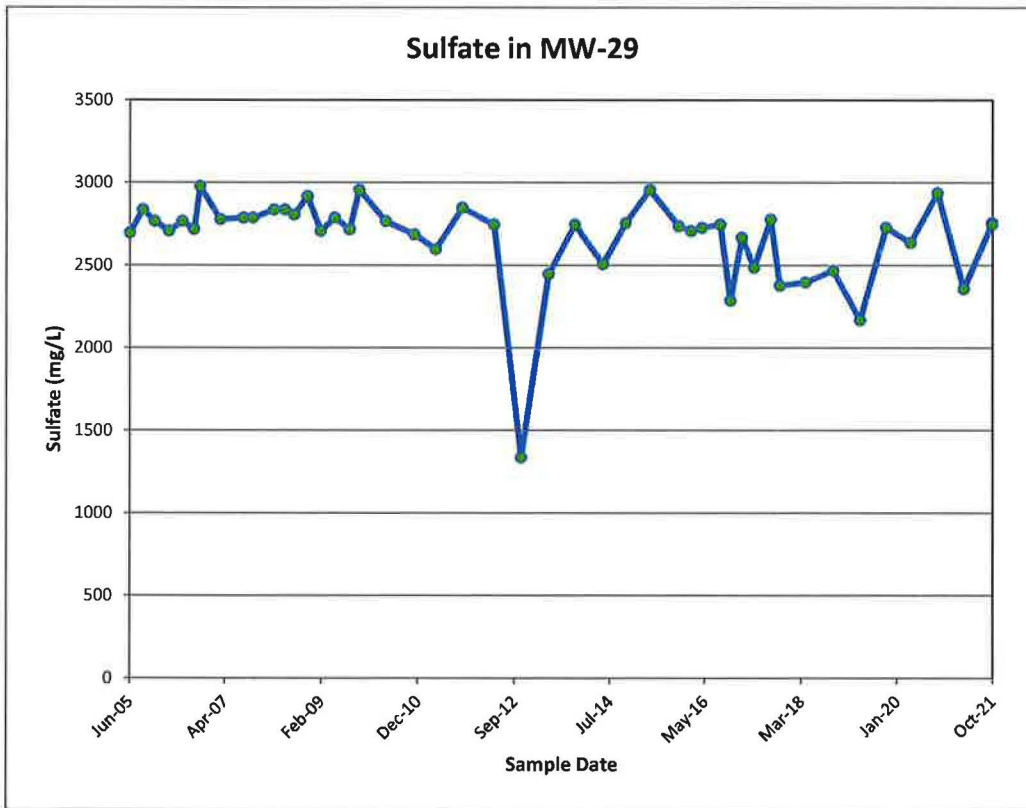
Time concentration plots for MW-28



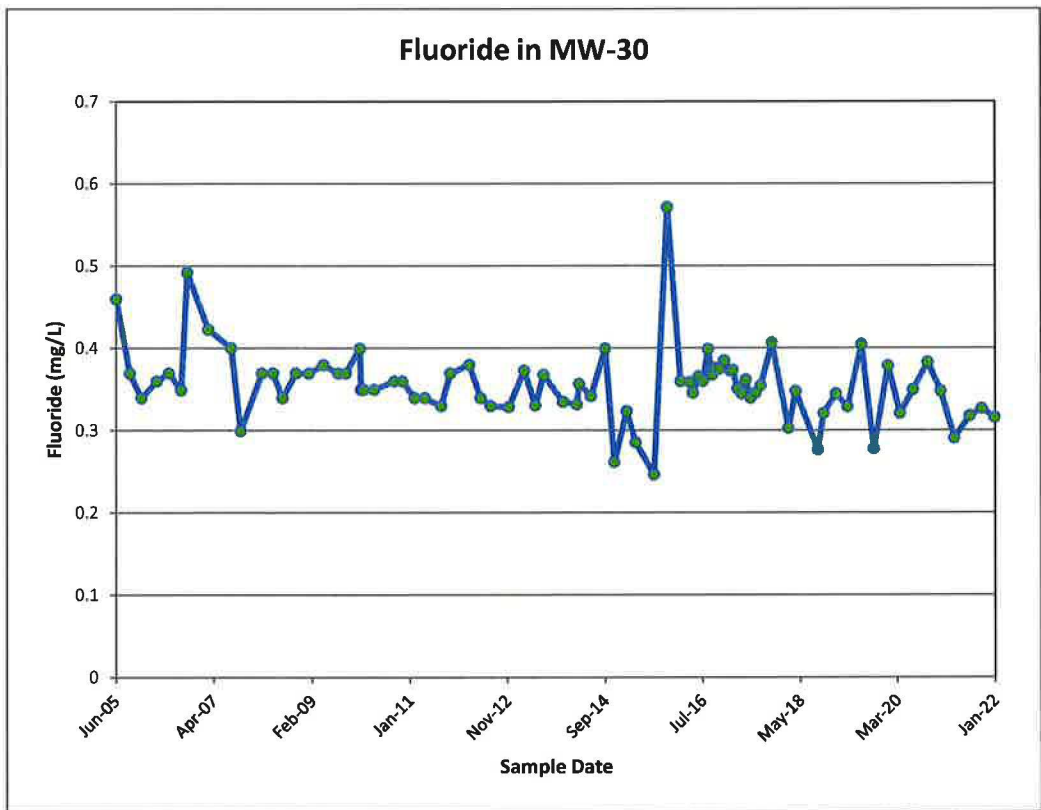
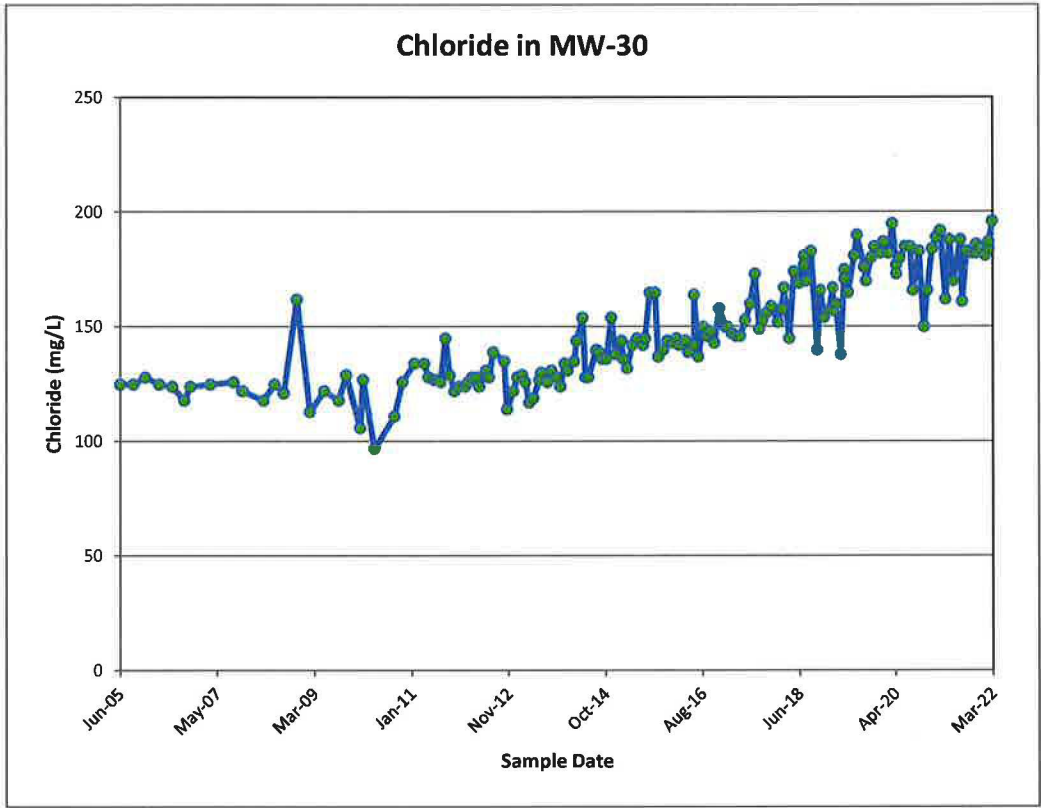
Time concentration plots for MW-29



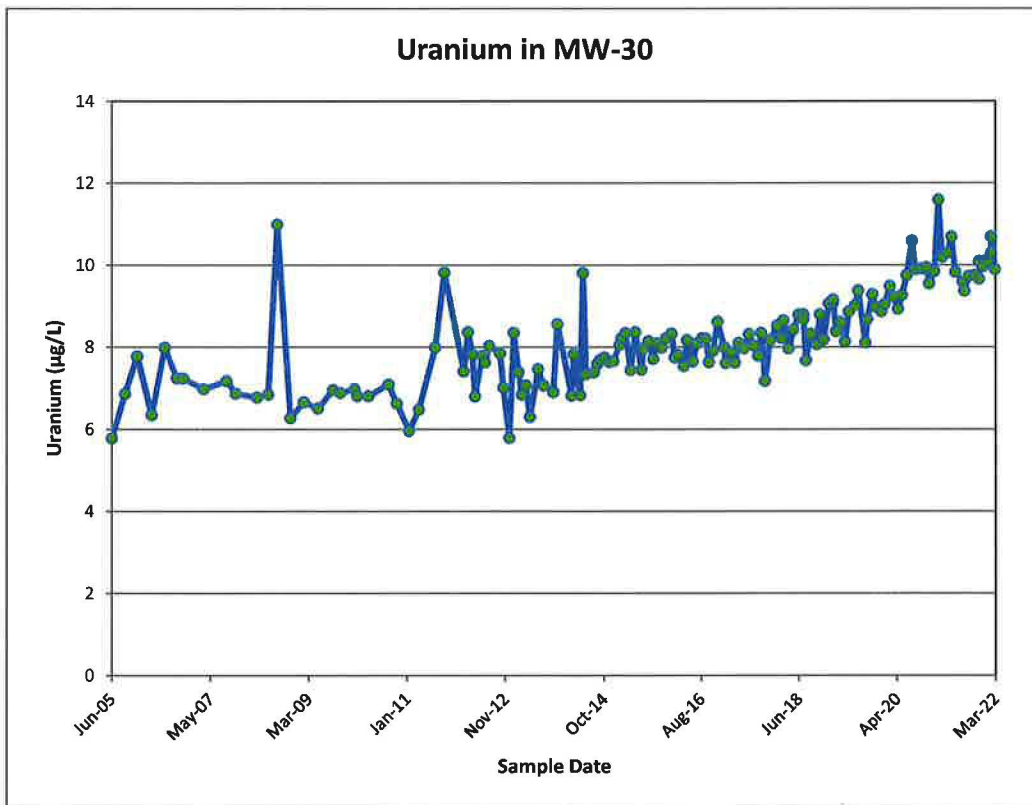
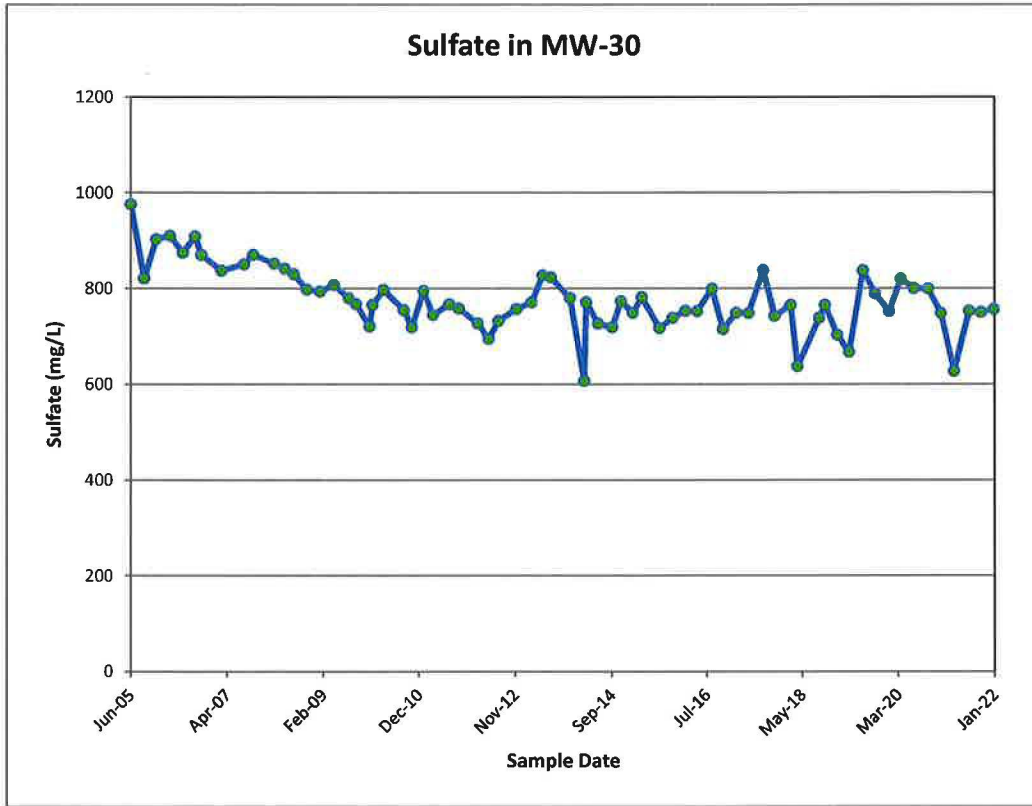
Time concentration plots for MW-29



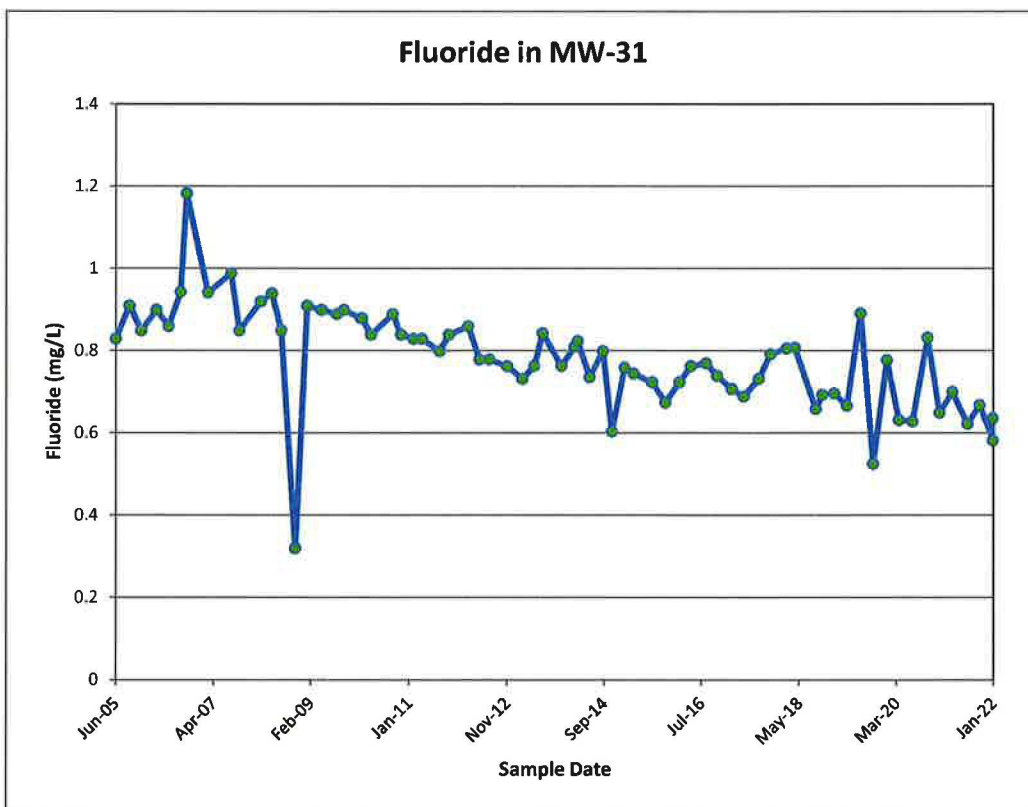
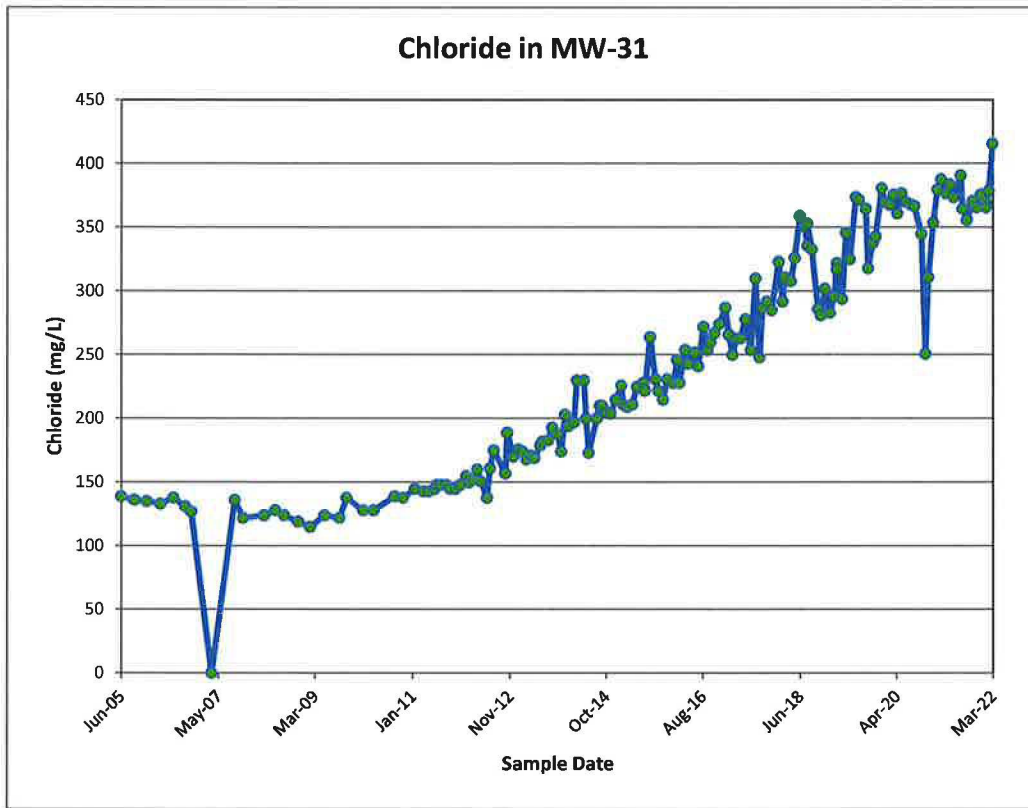
Time concentration plots for MW-30



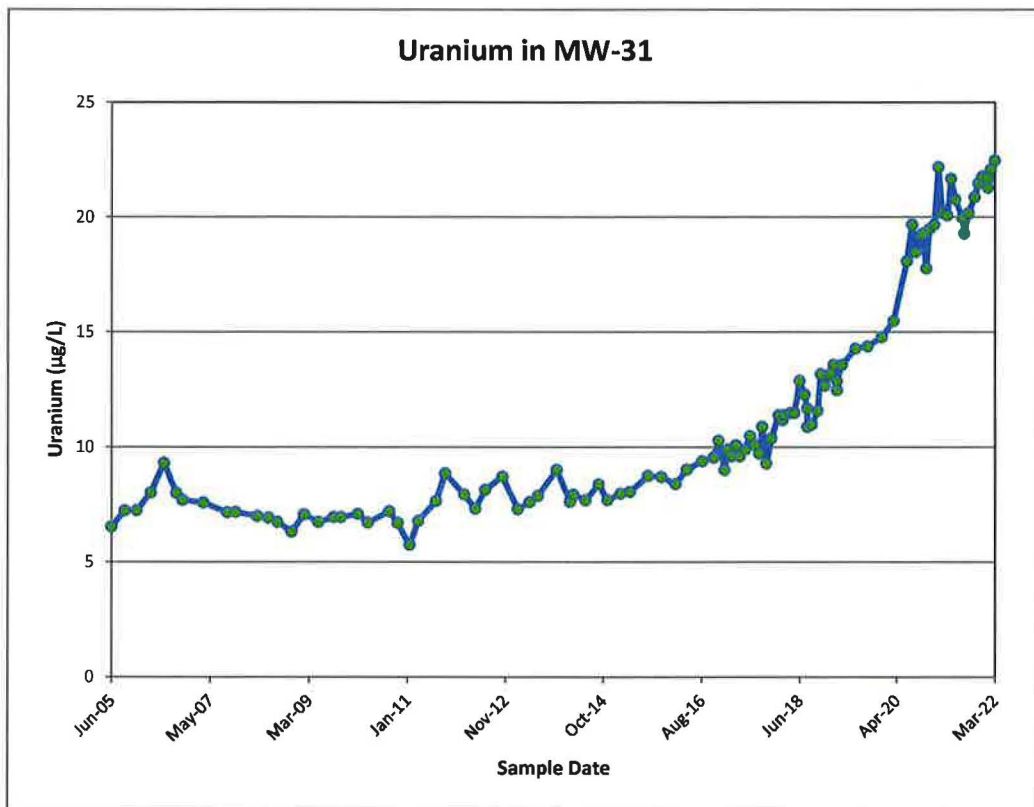
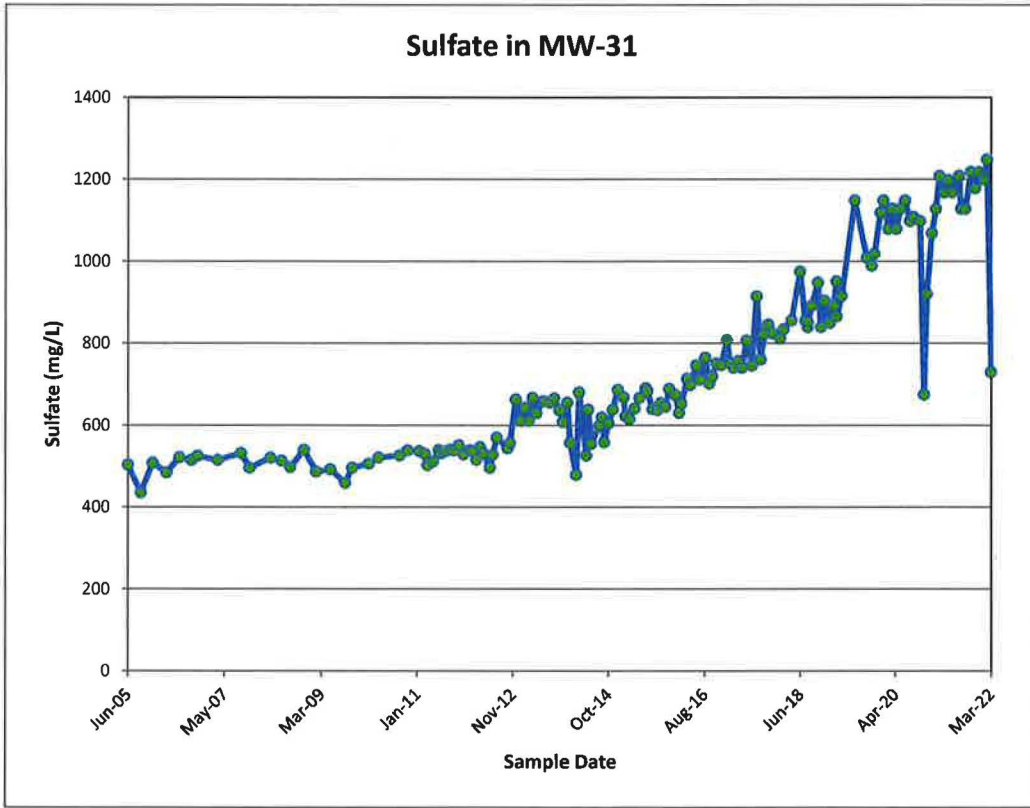
Time concentration plots for MW-30



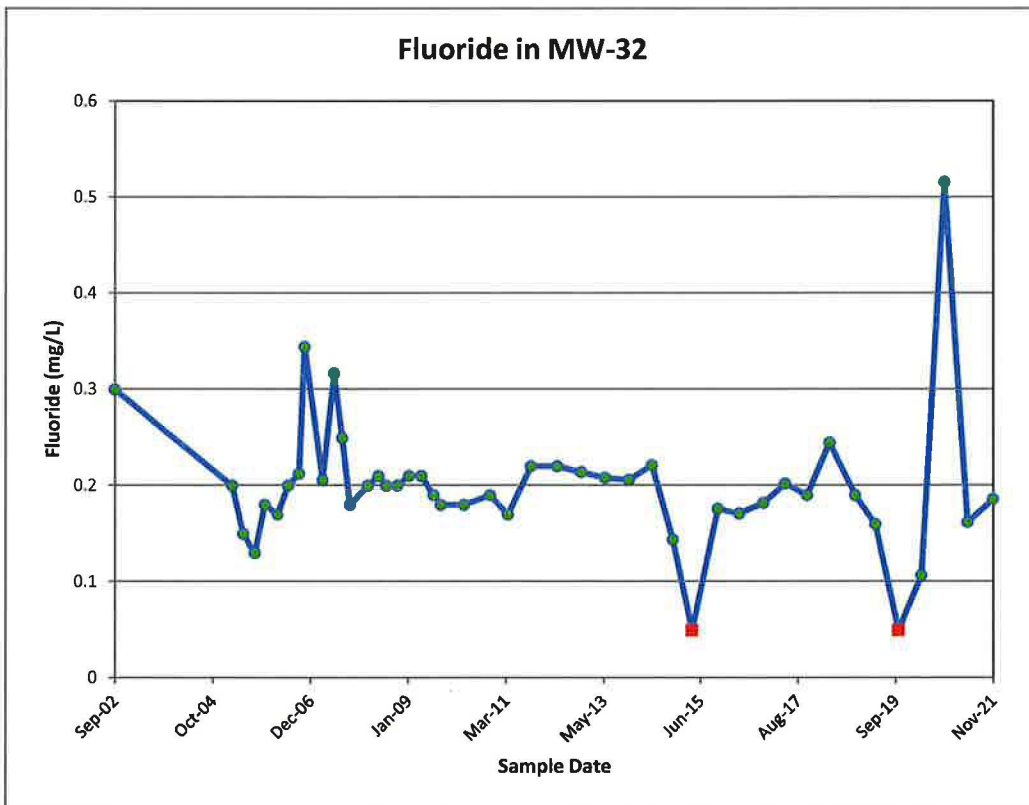
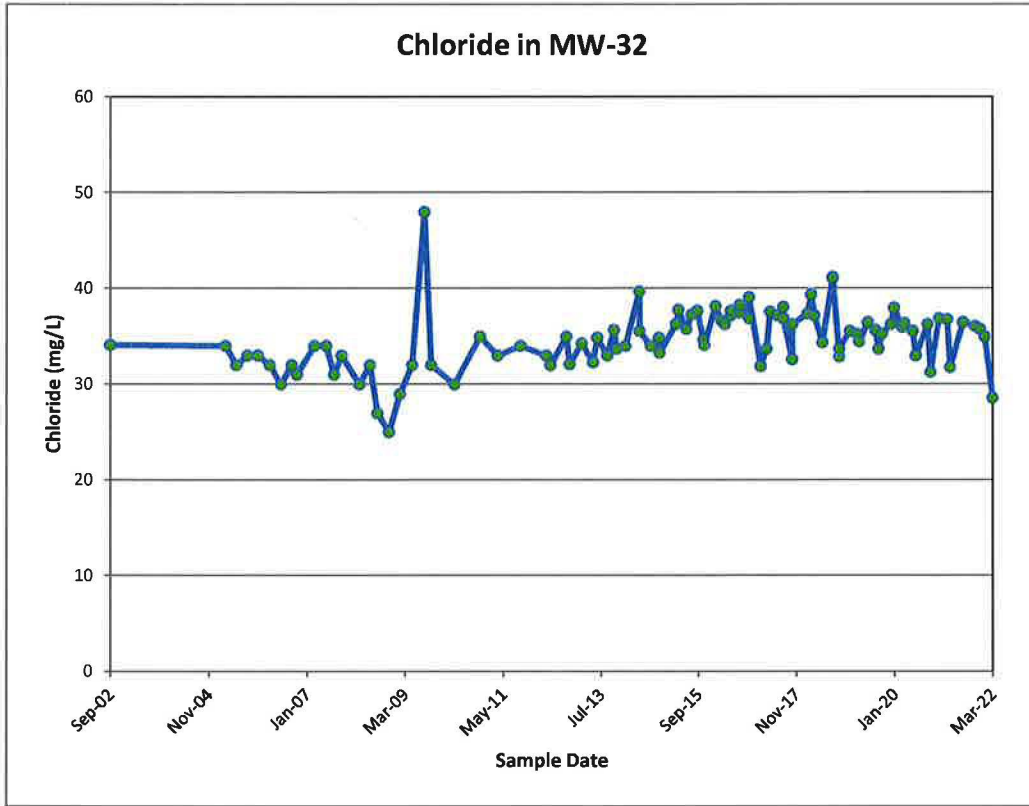
Time concentration plots for MW-31



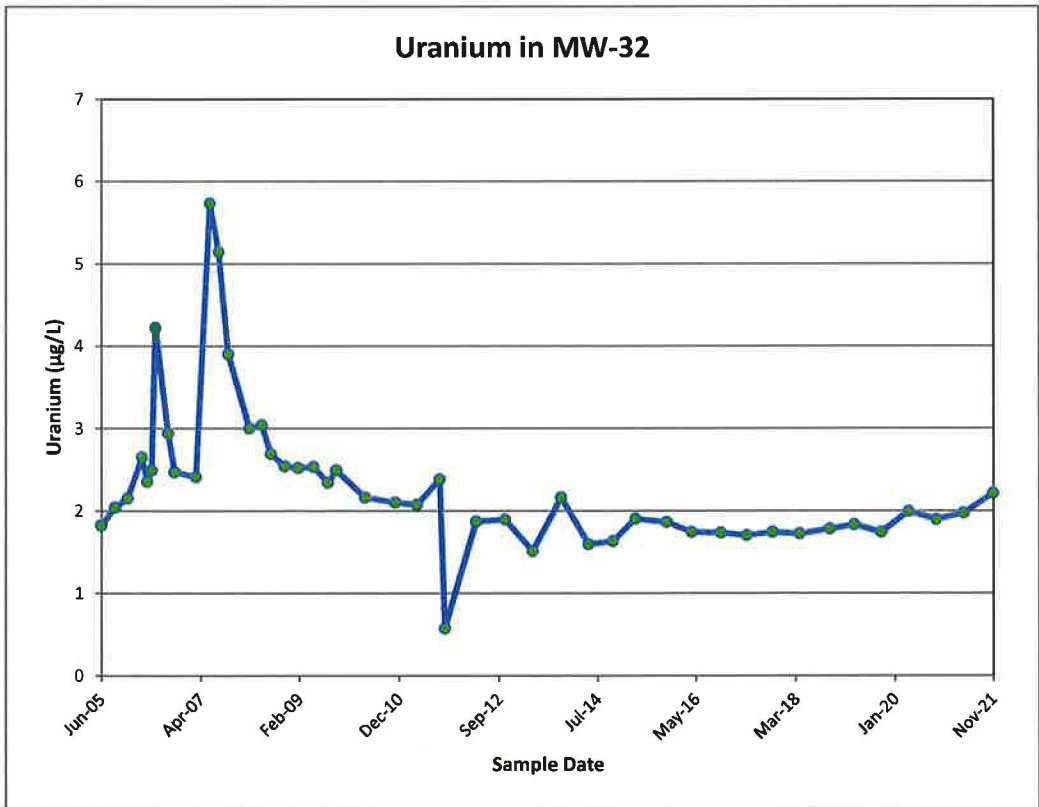
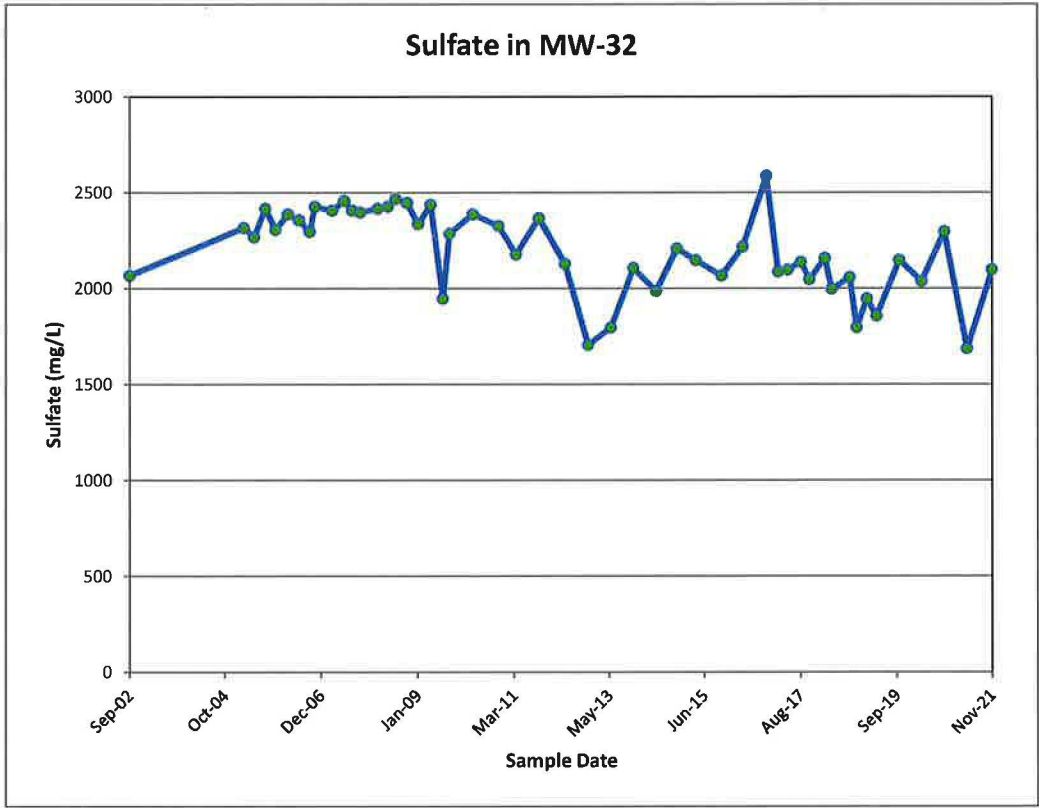
Time concentration plots for MW-31



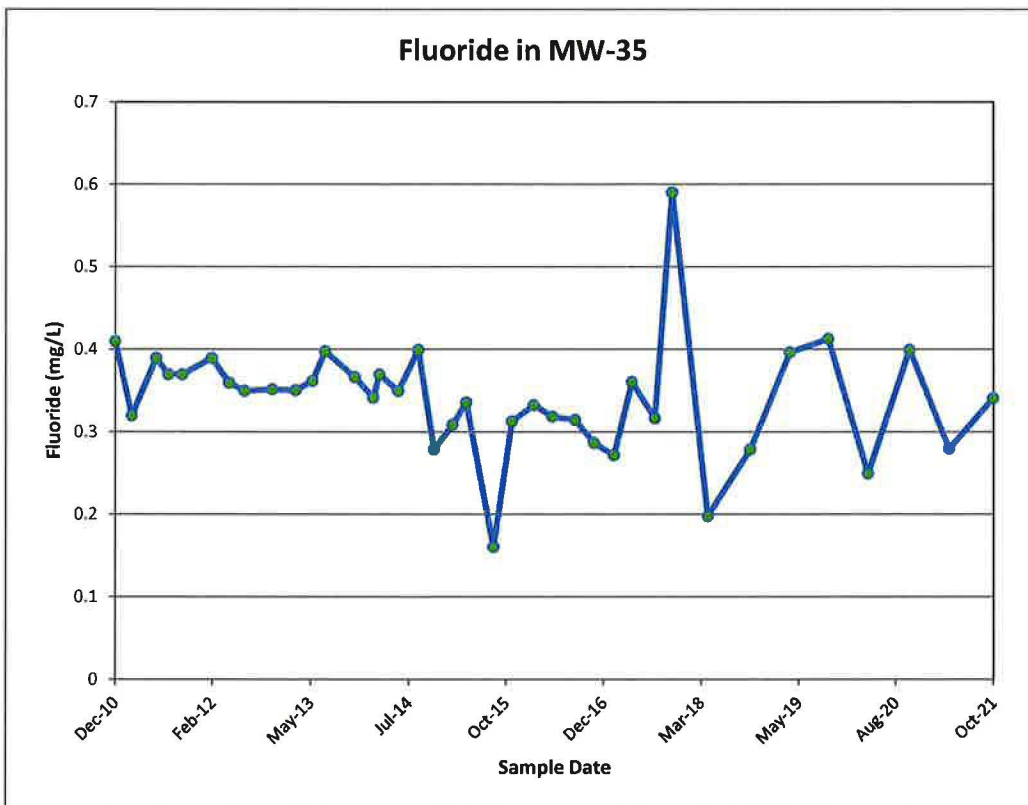
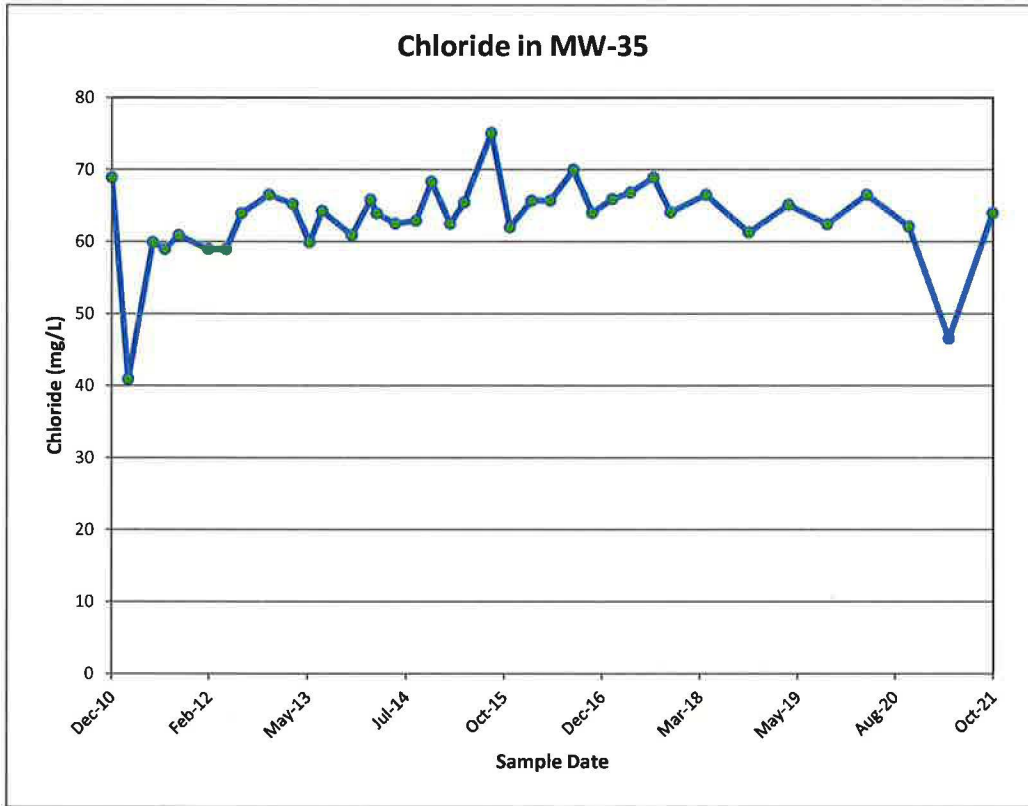
Time concentration plots for MW-32



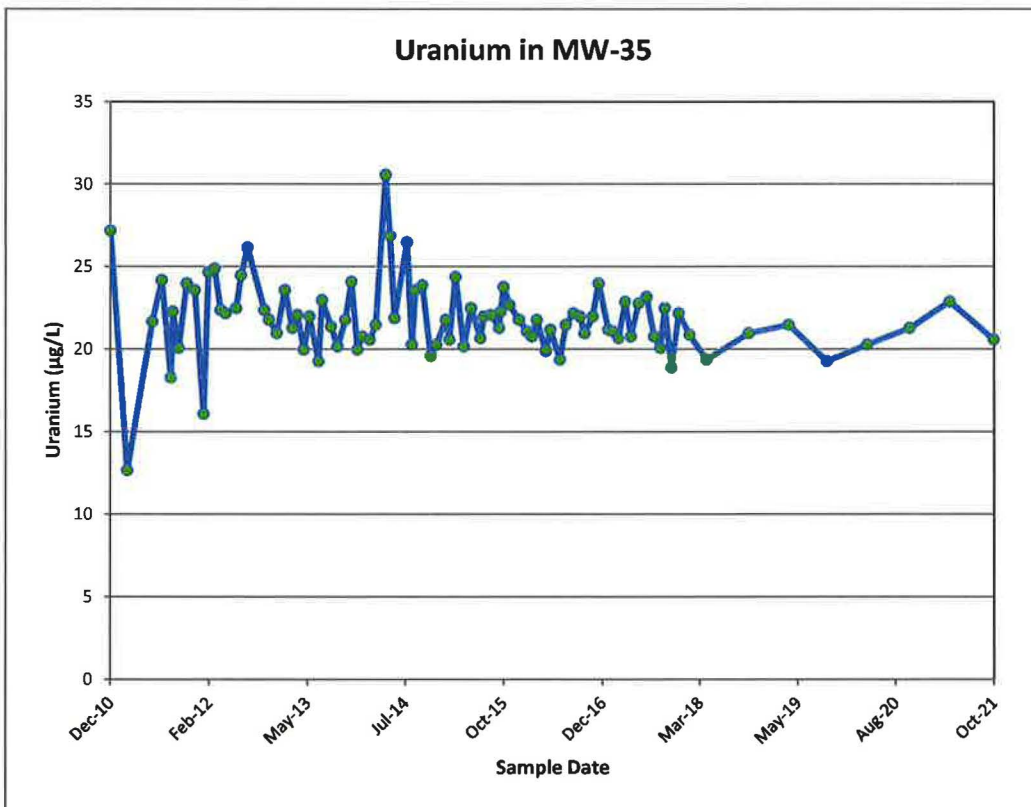
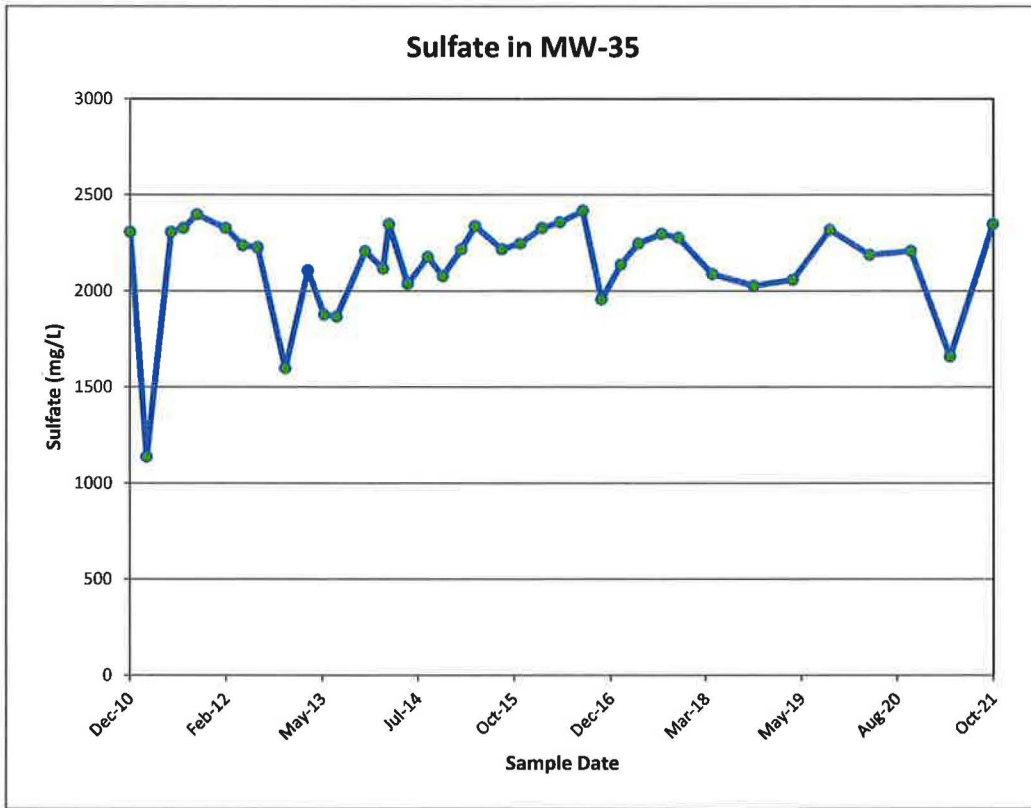
Time concentration plots for MW-32



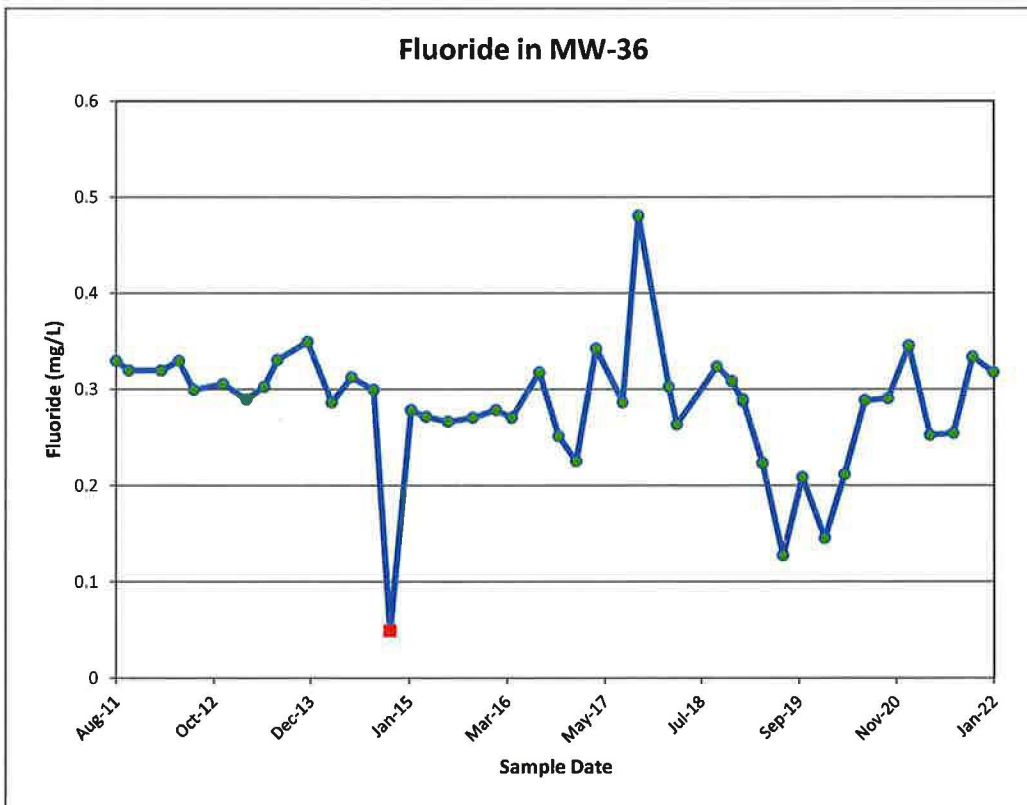
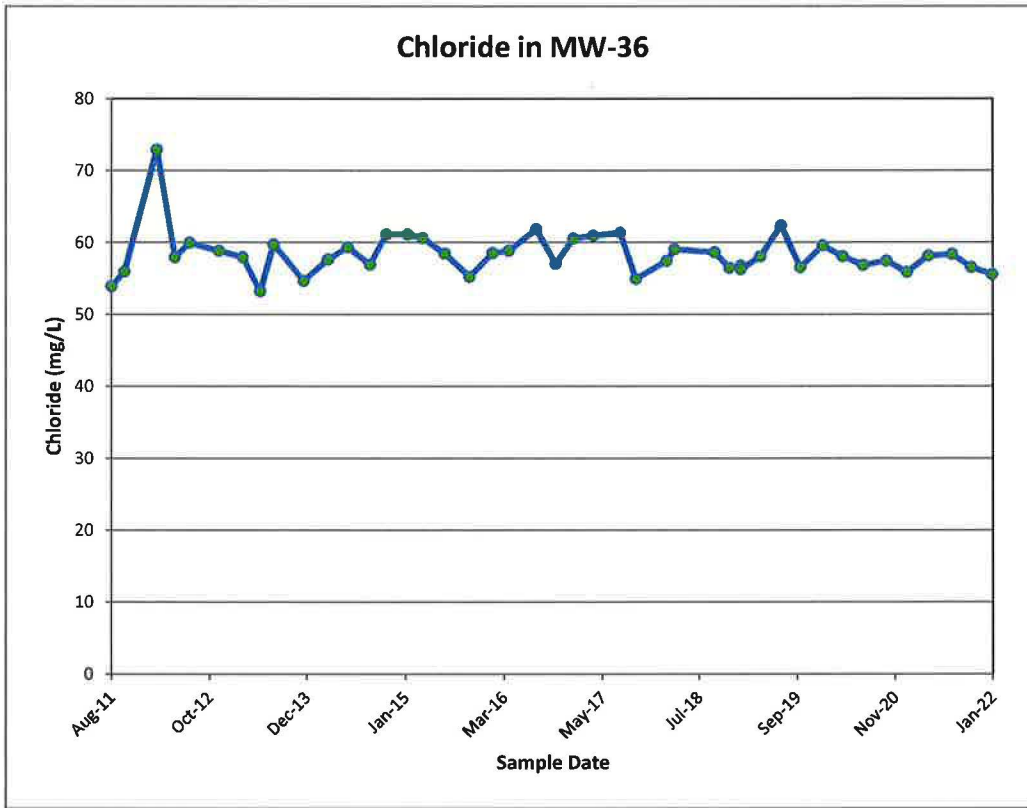
Time concentration plots for MW-35



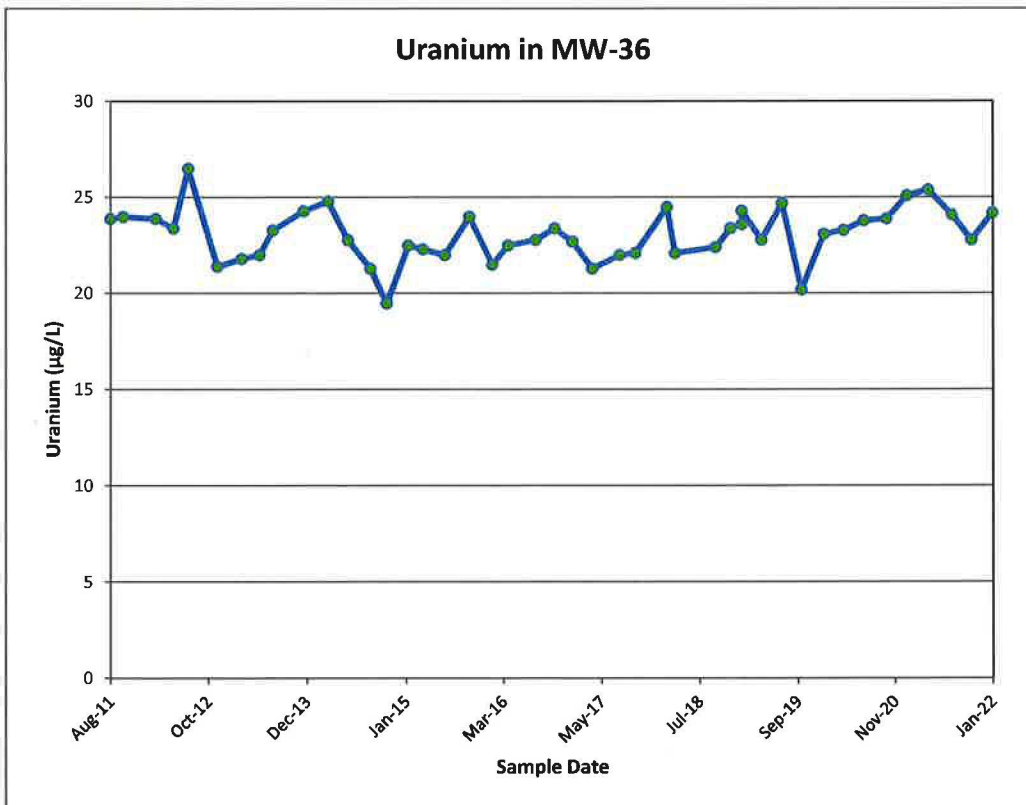
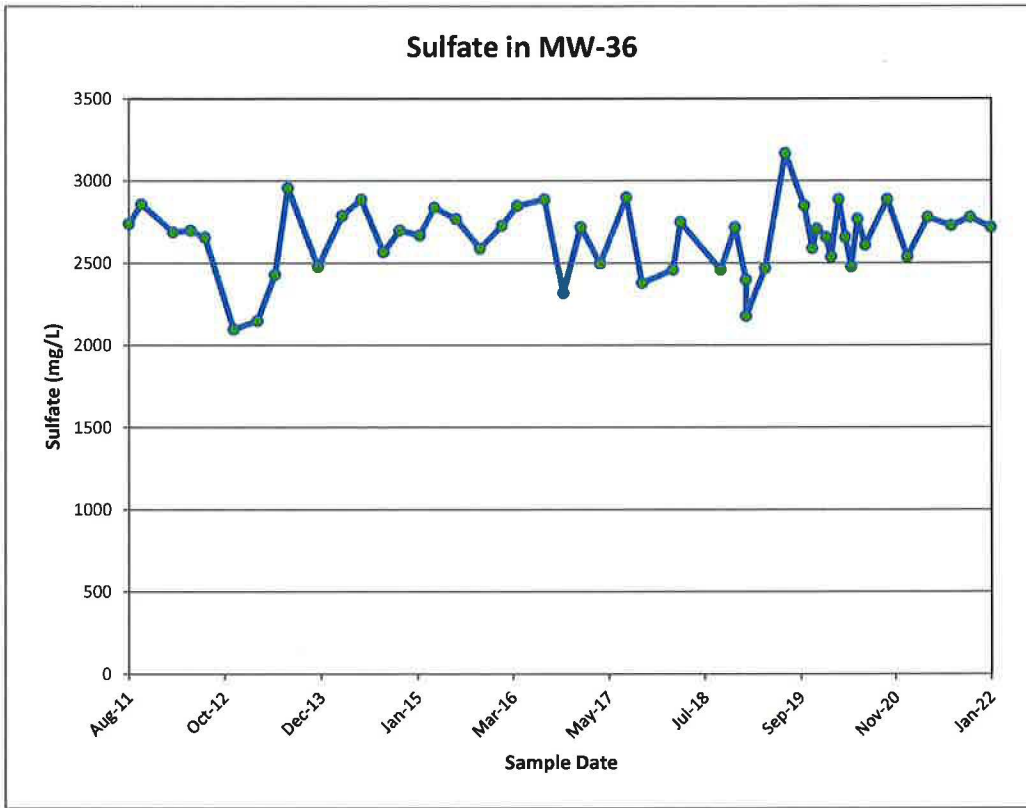
Time concentration plots for MW-35



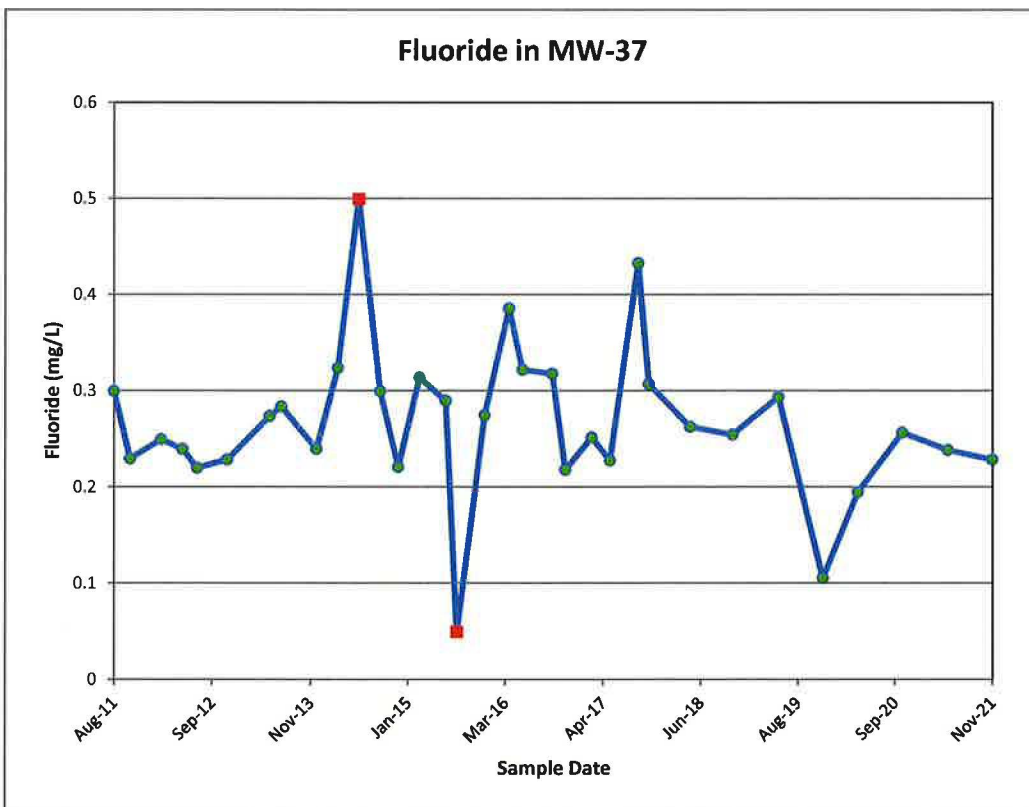
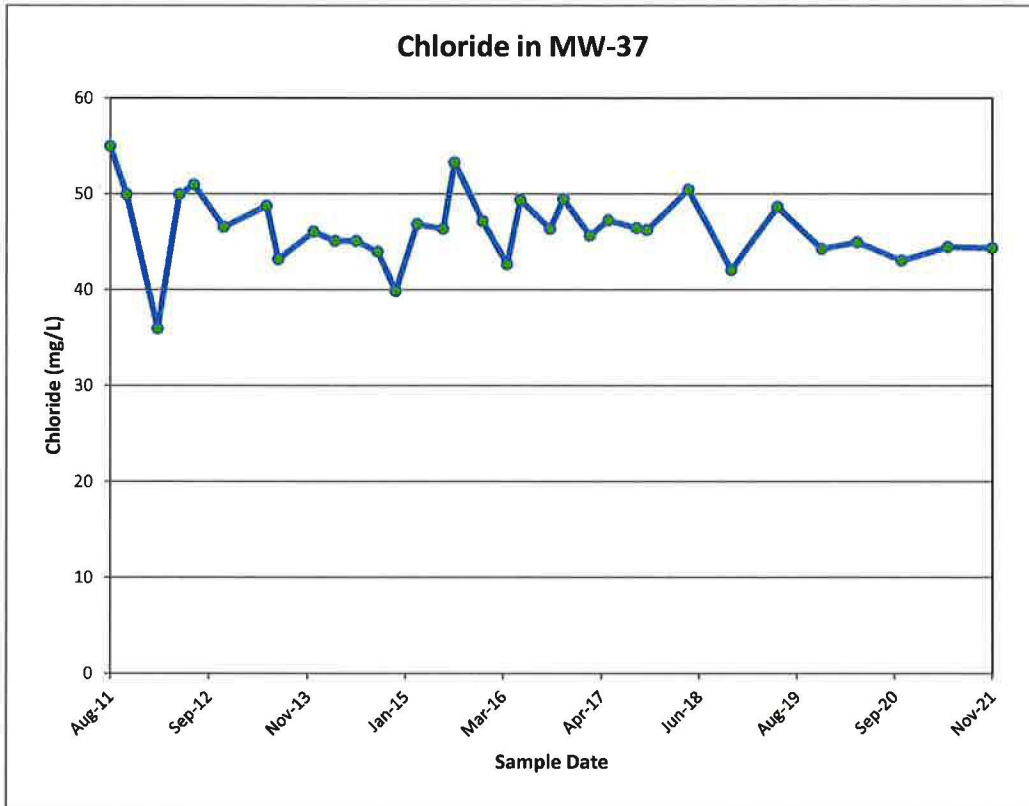
Time concentration plots for MW-36



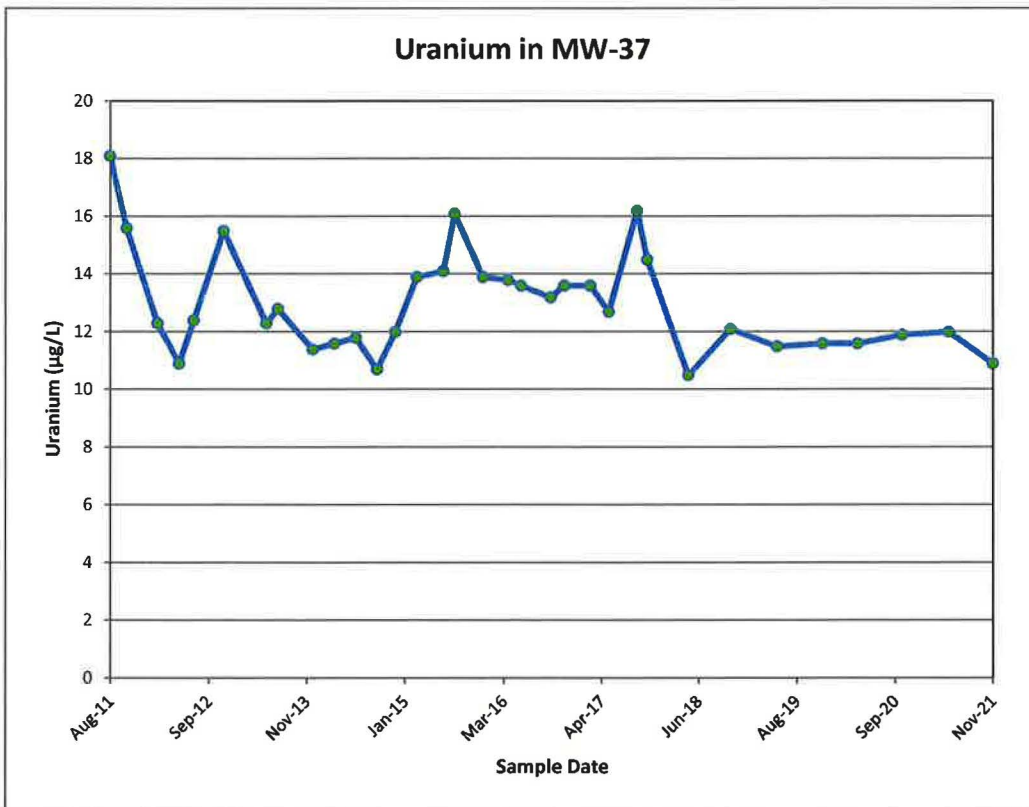
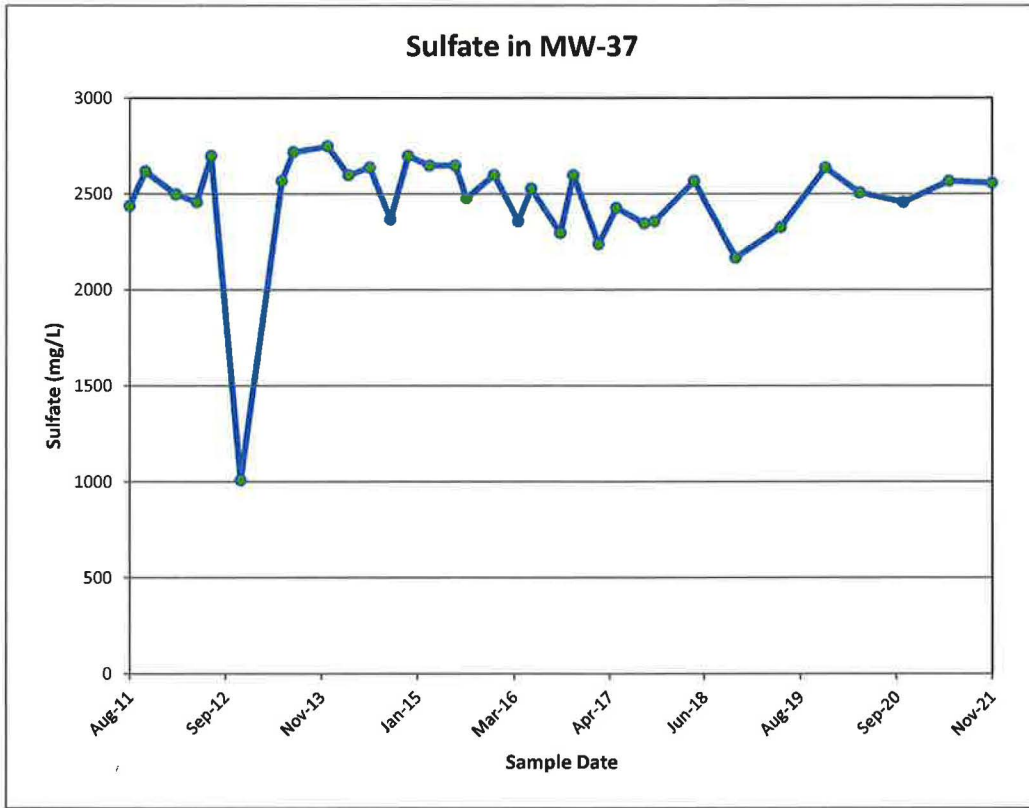
Time concentration plots for MW-36



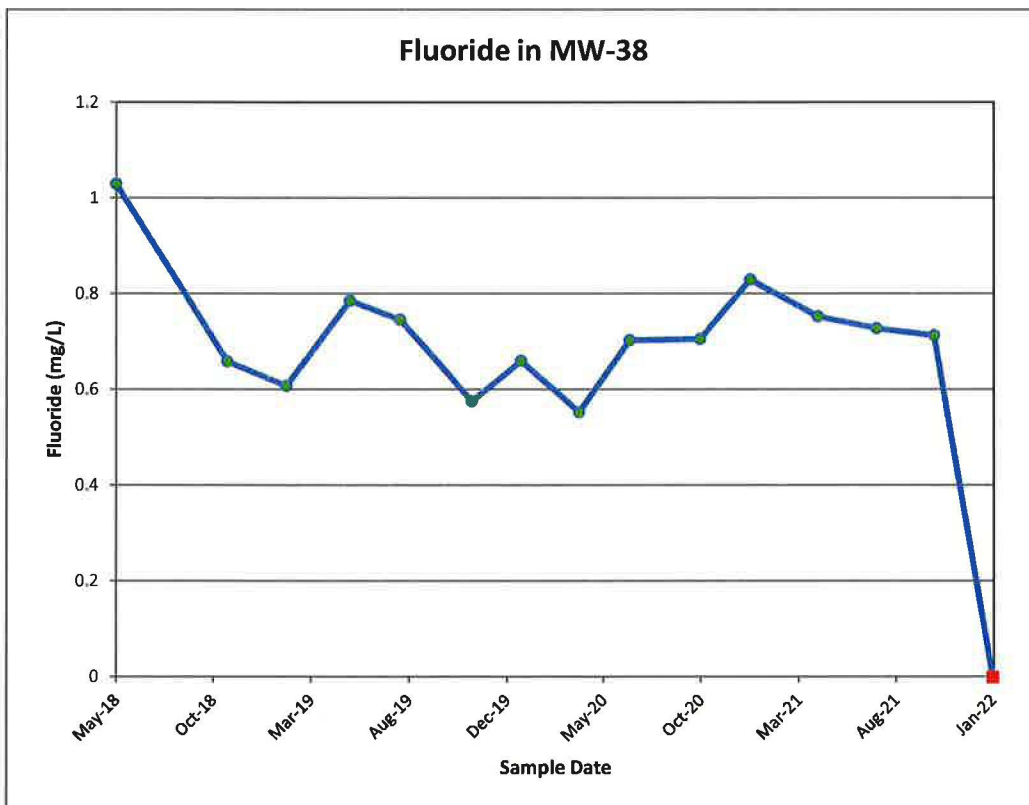
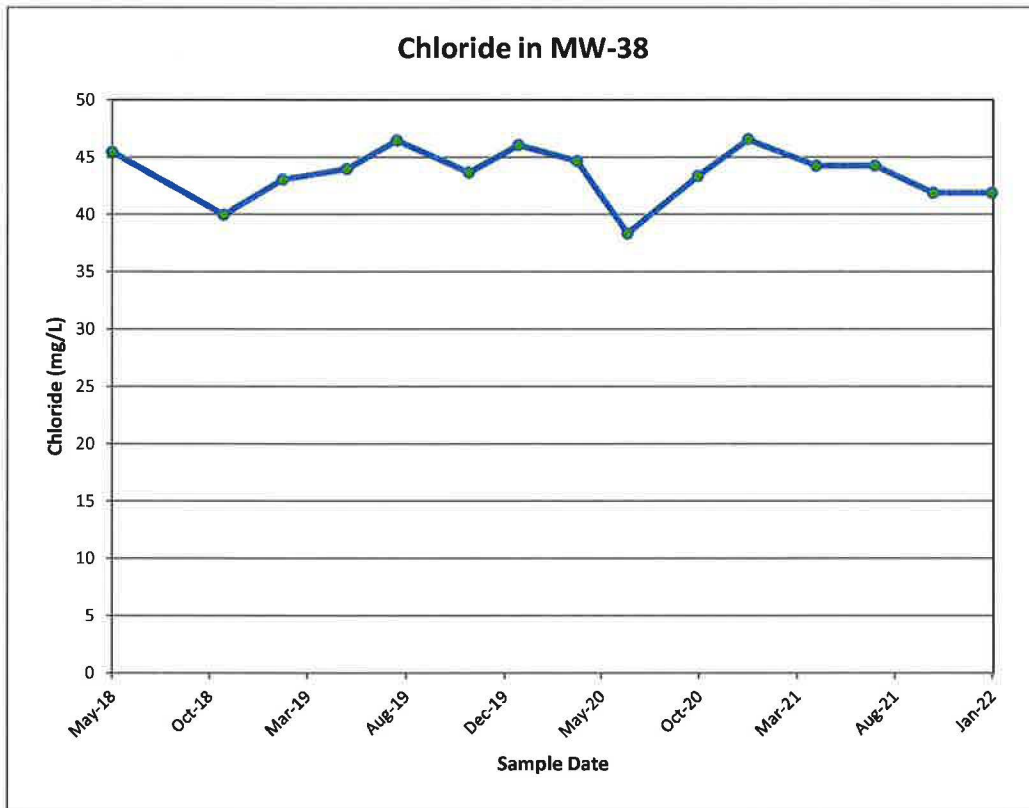
Time concentration plots for MW-37



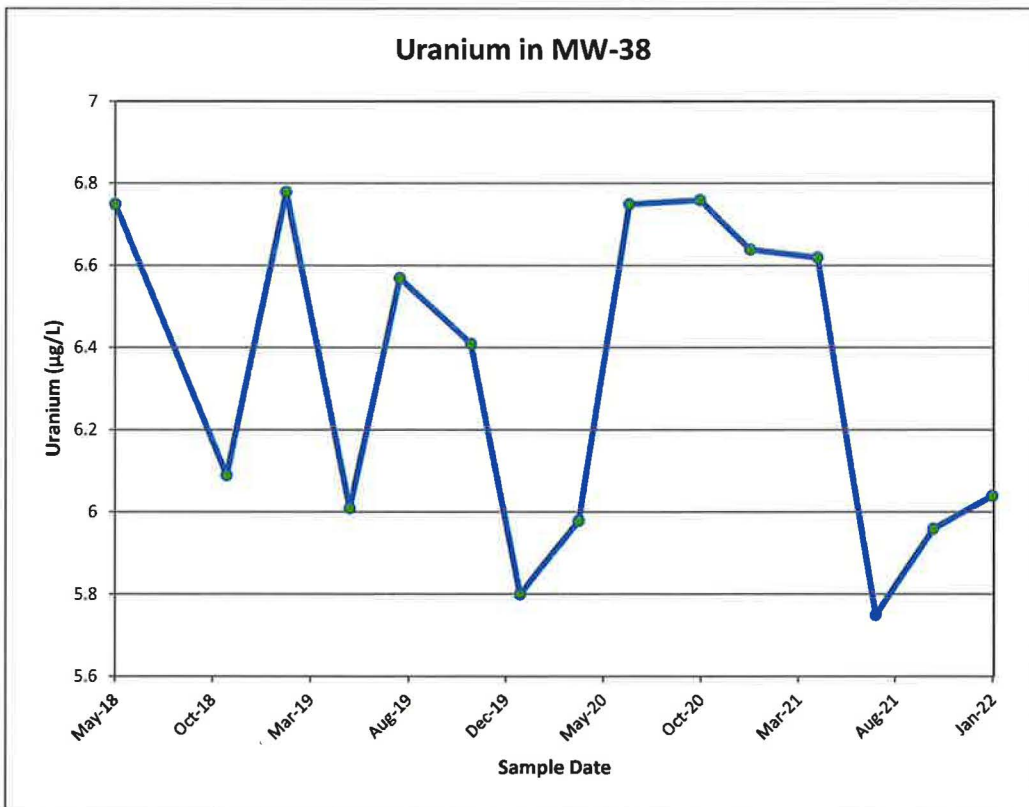
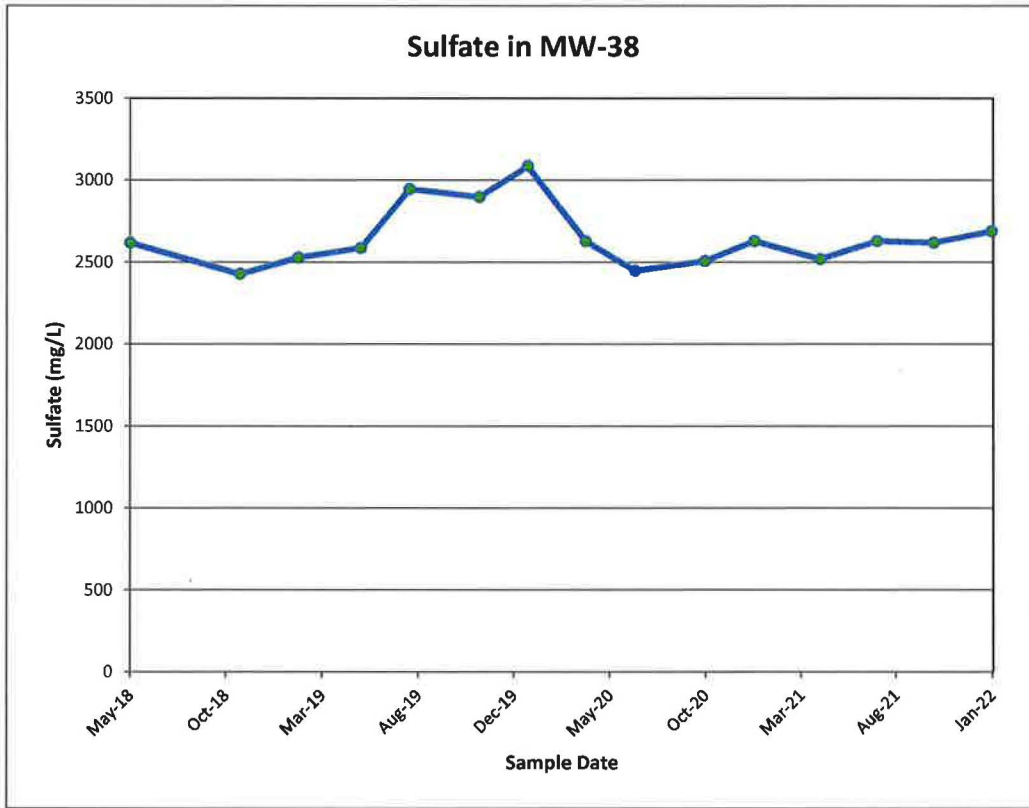
Time concentration plots for MW-37



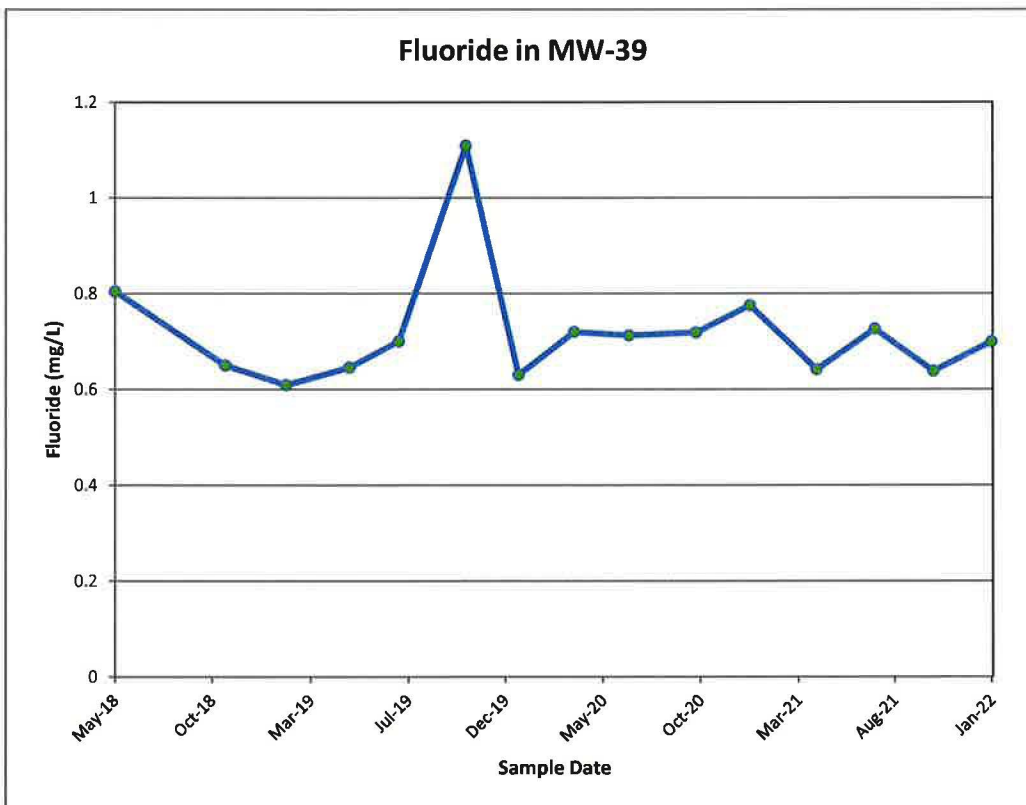
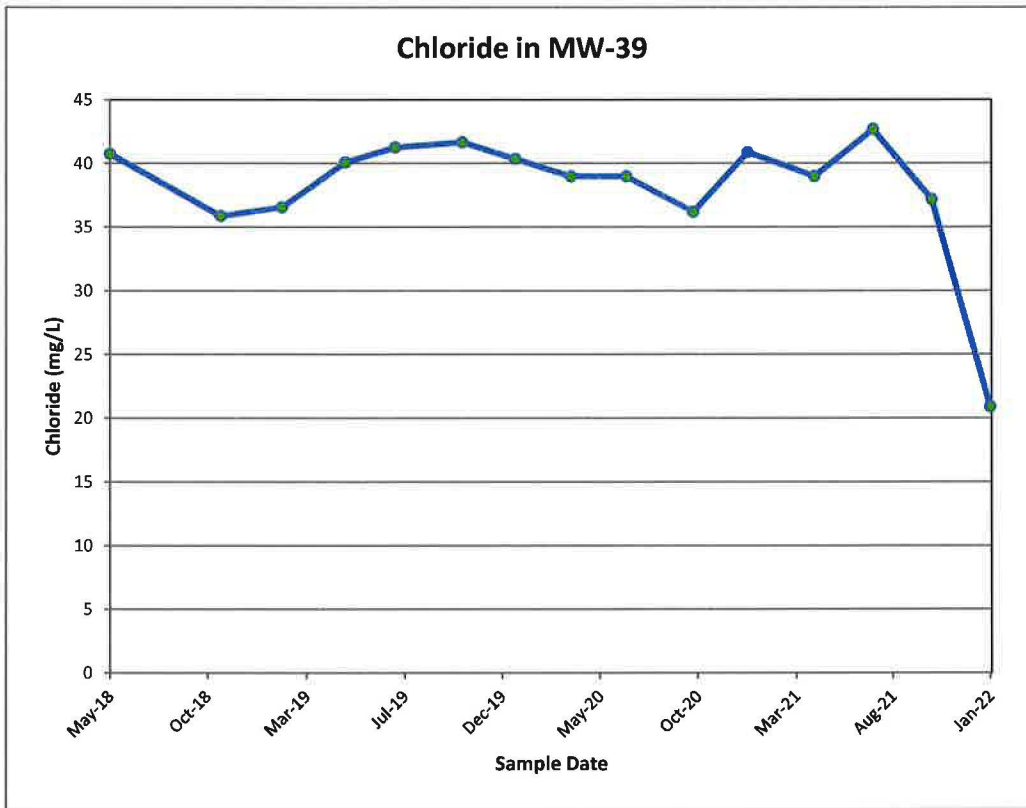
Time concentration plots for MW-38



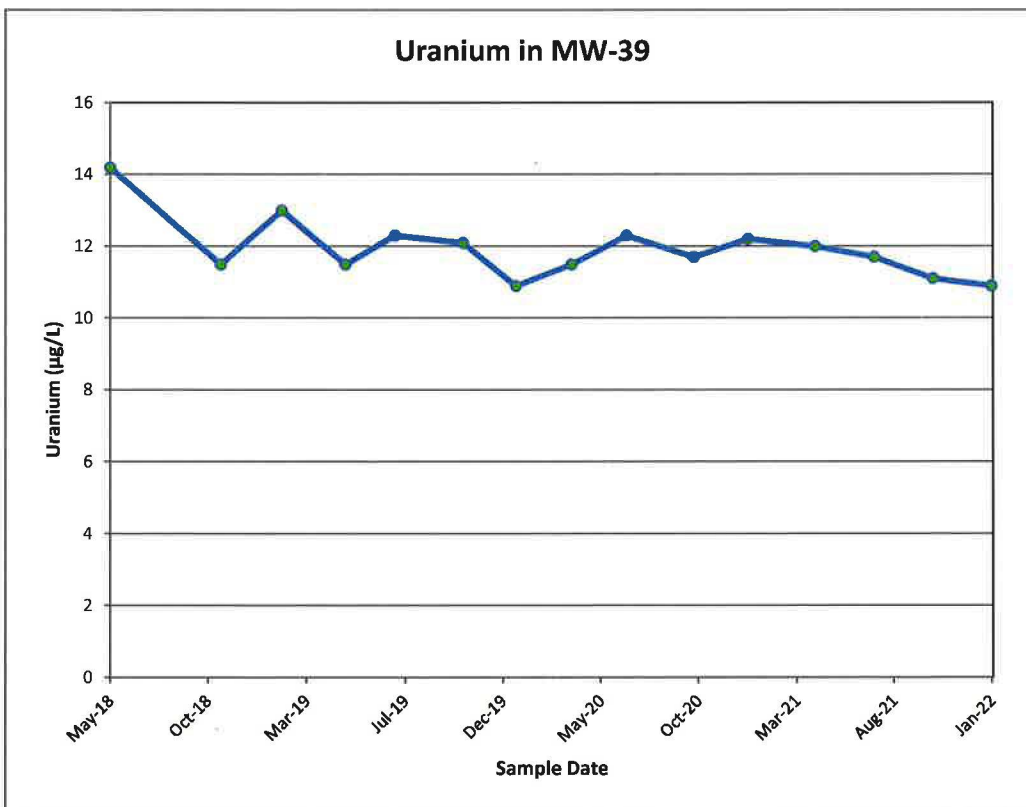
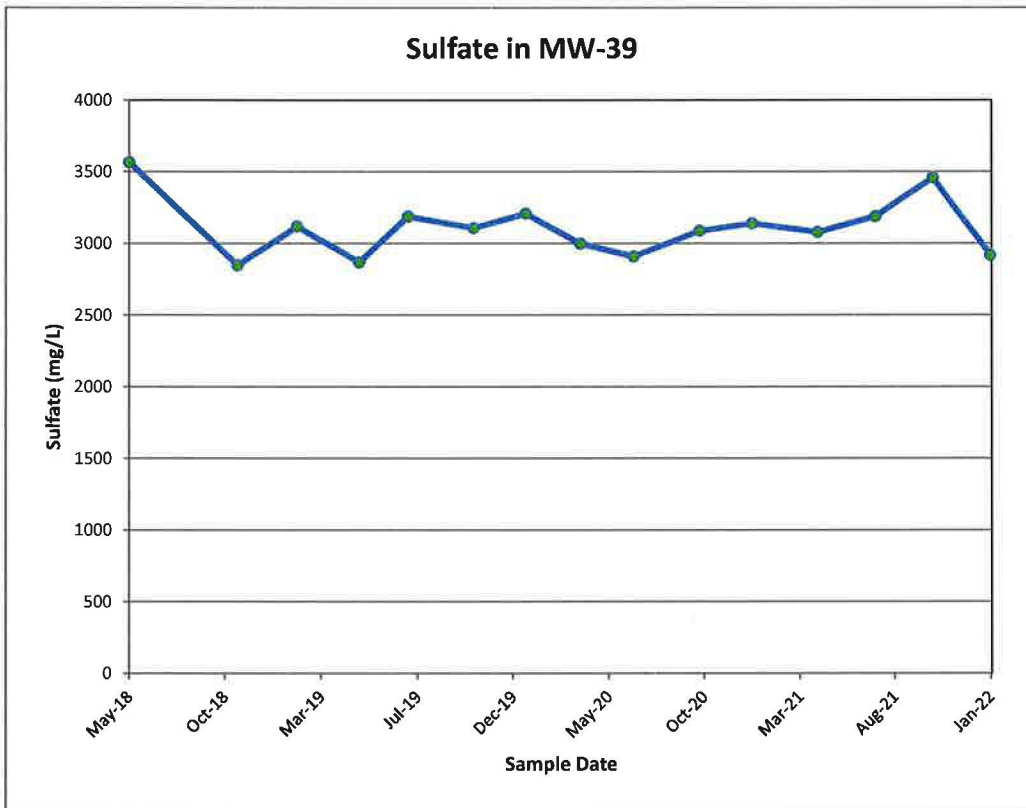
Time concentration plots for MW-38



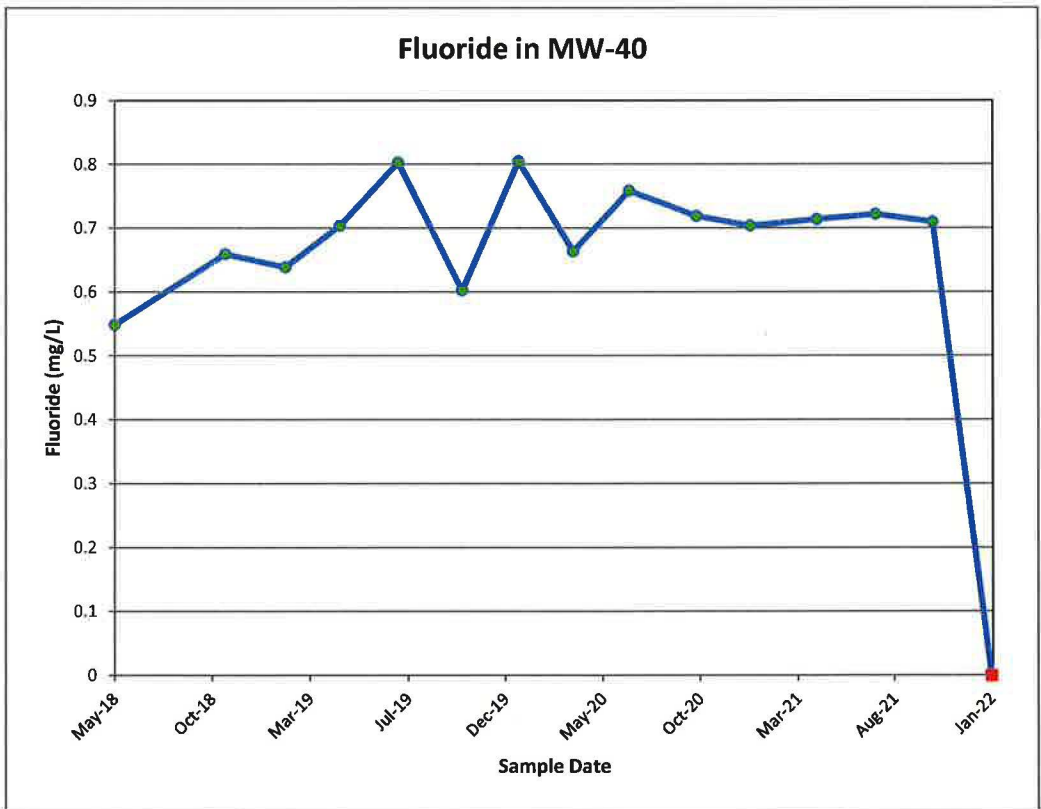
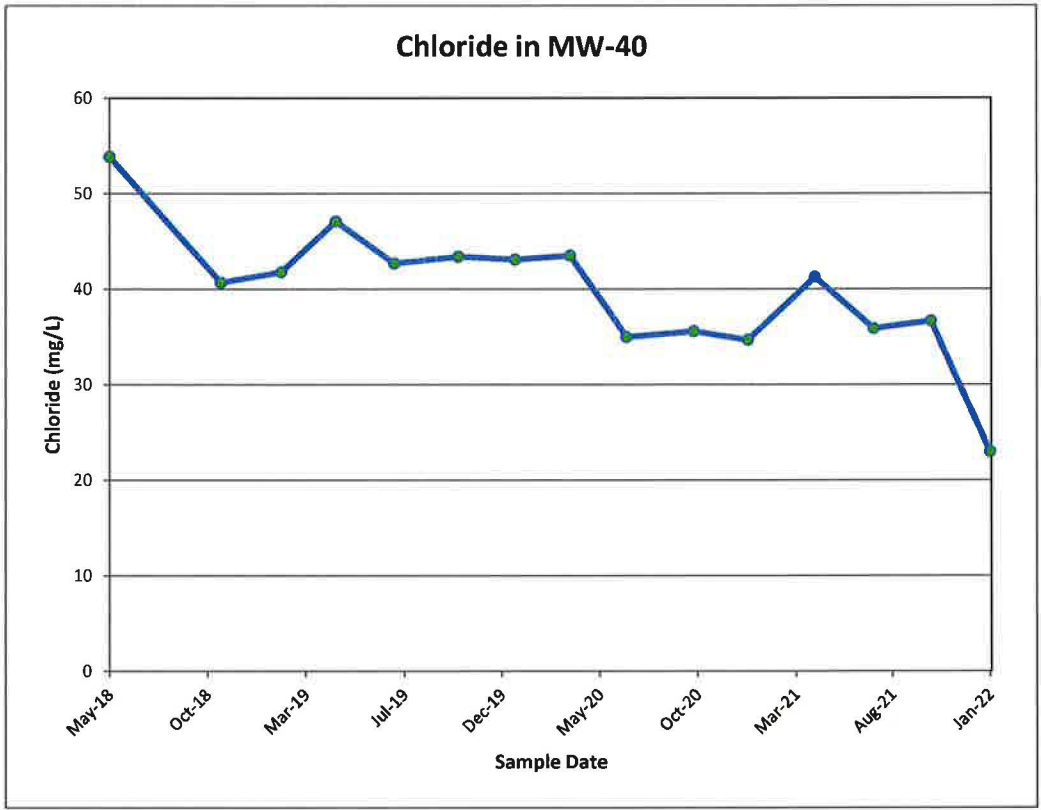
Time concentration plots for MW-39



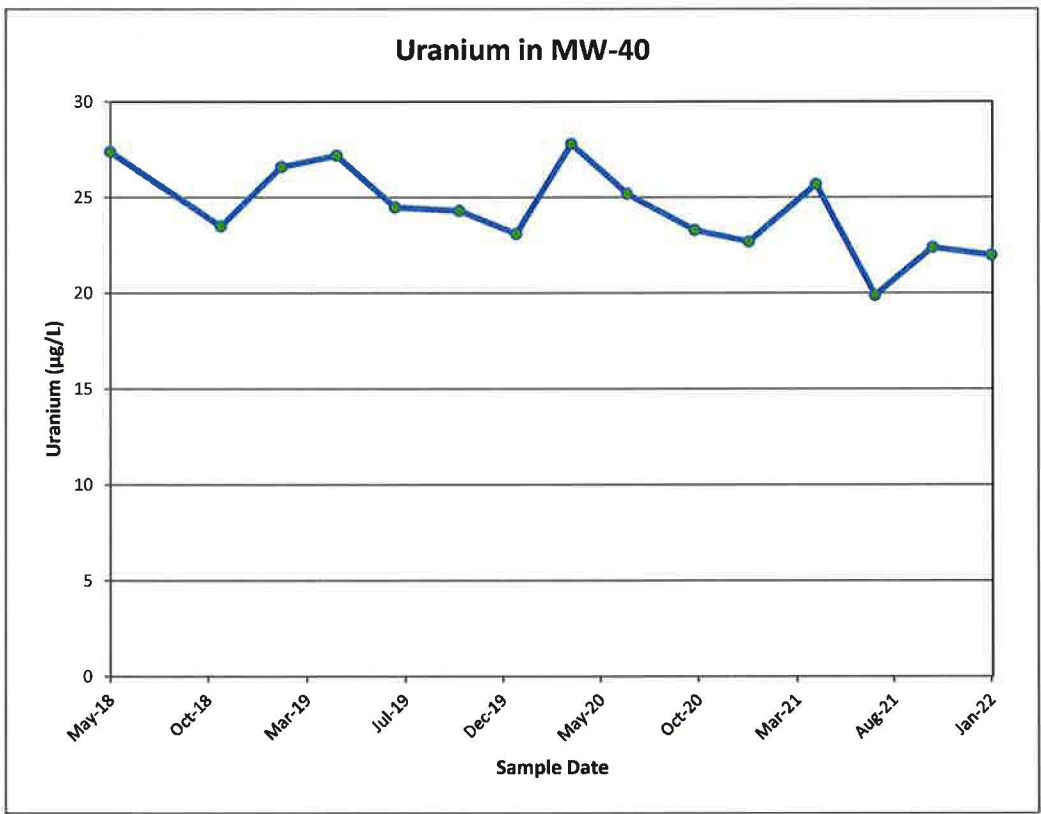
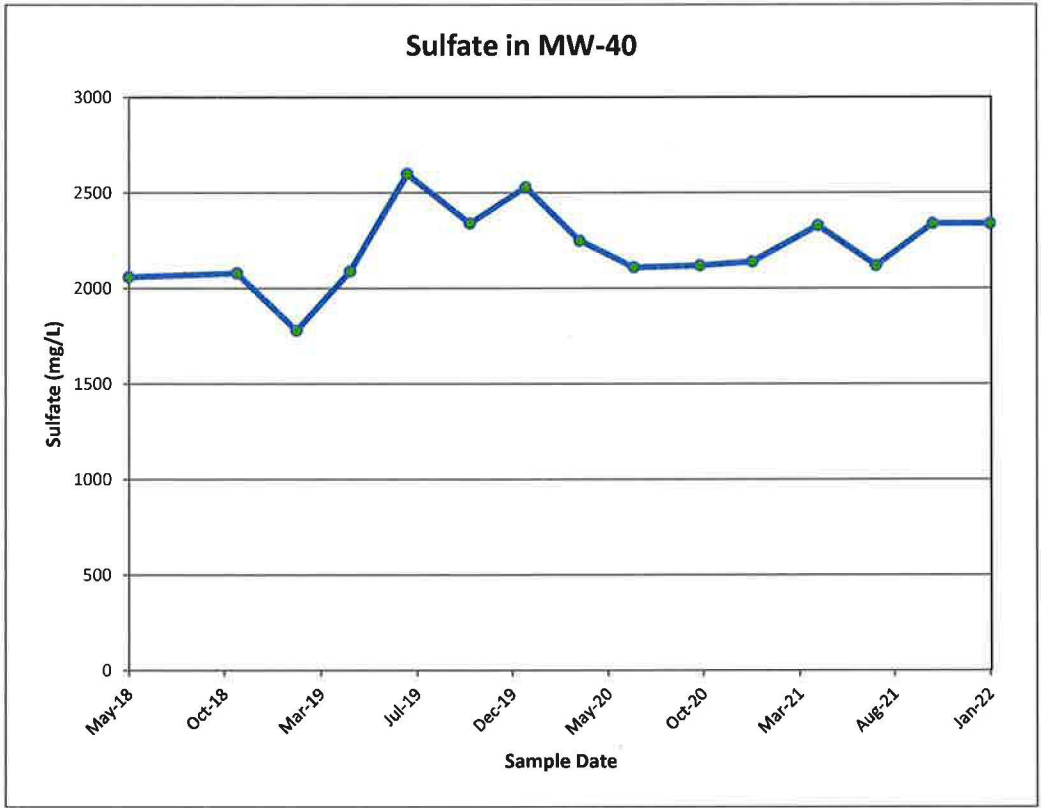
Time concentration plots for MW-39



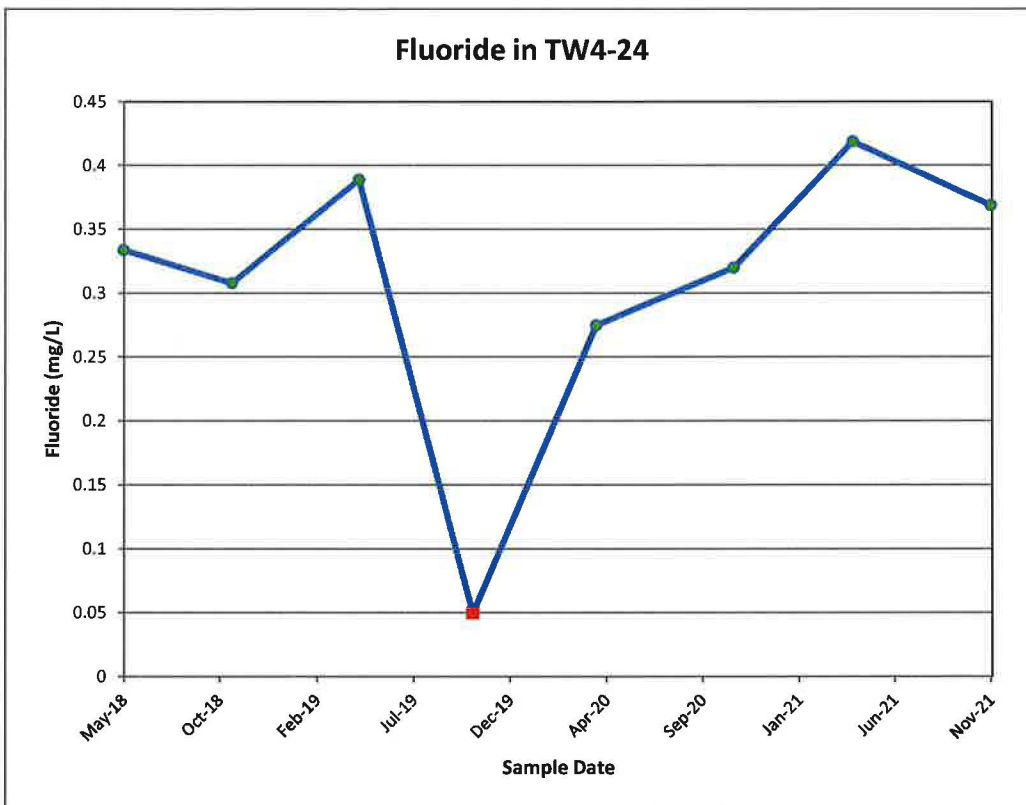
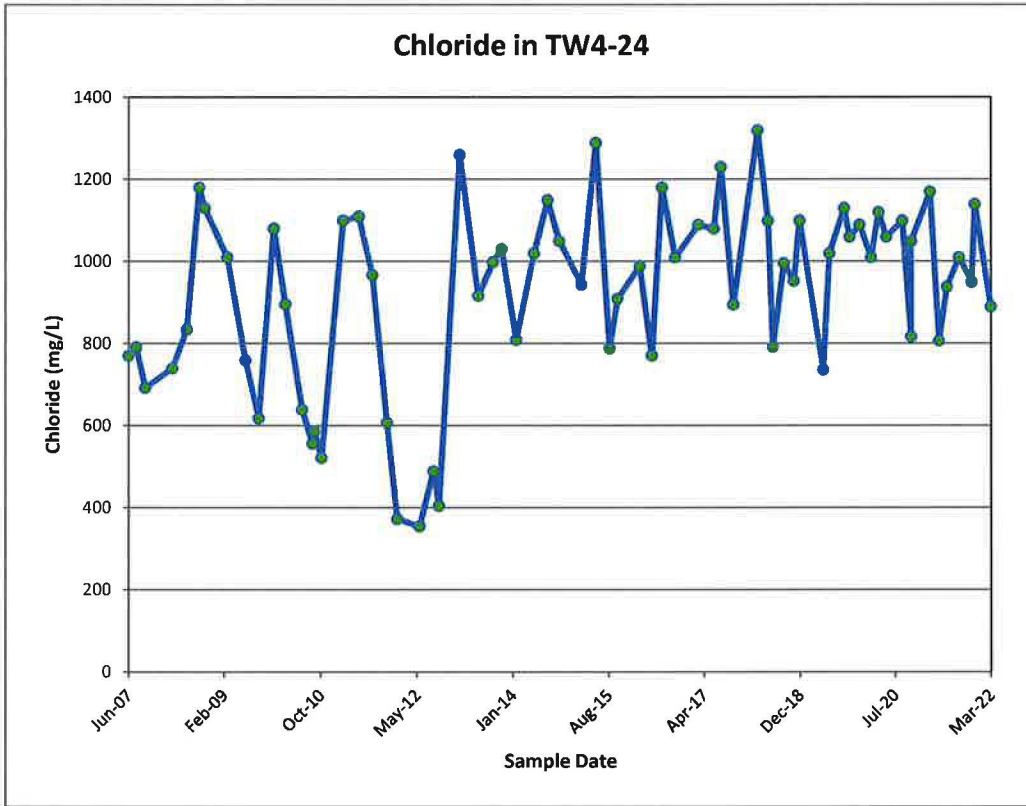
Time concentration plots for MW-40



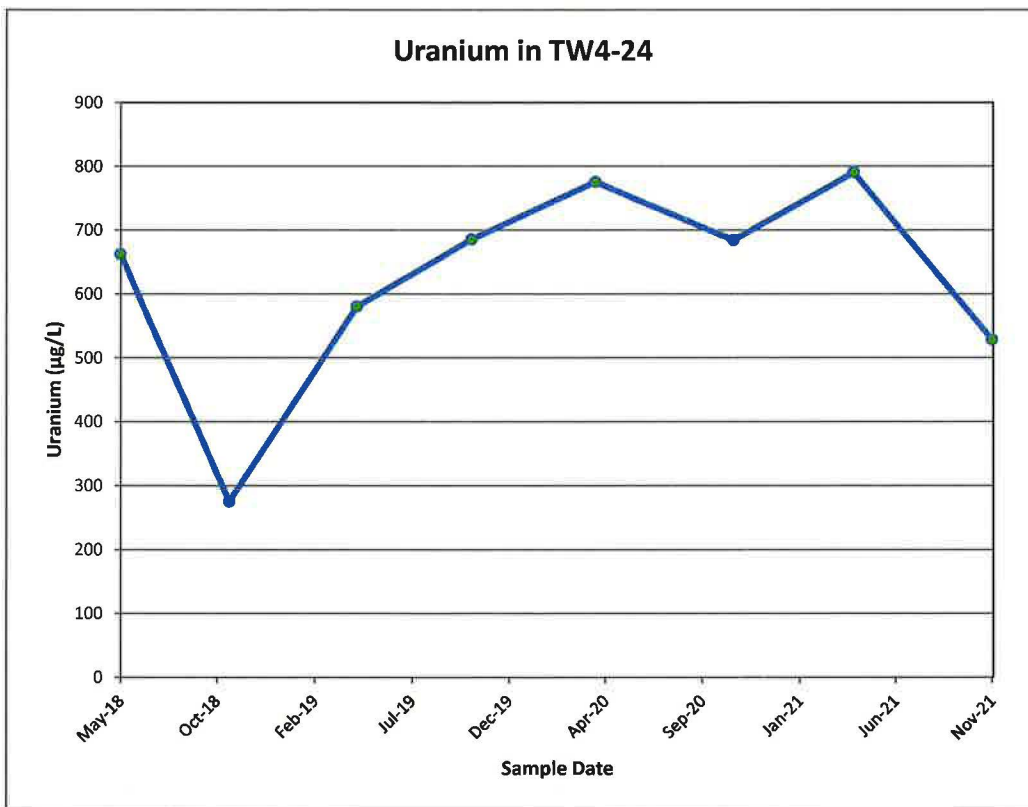
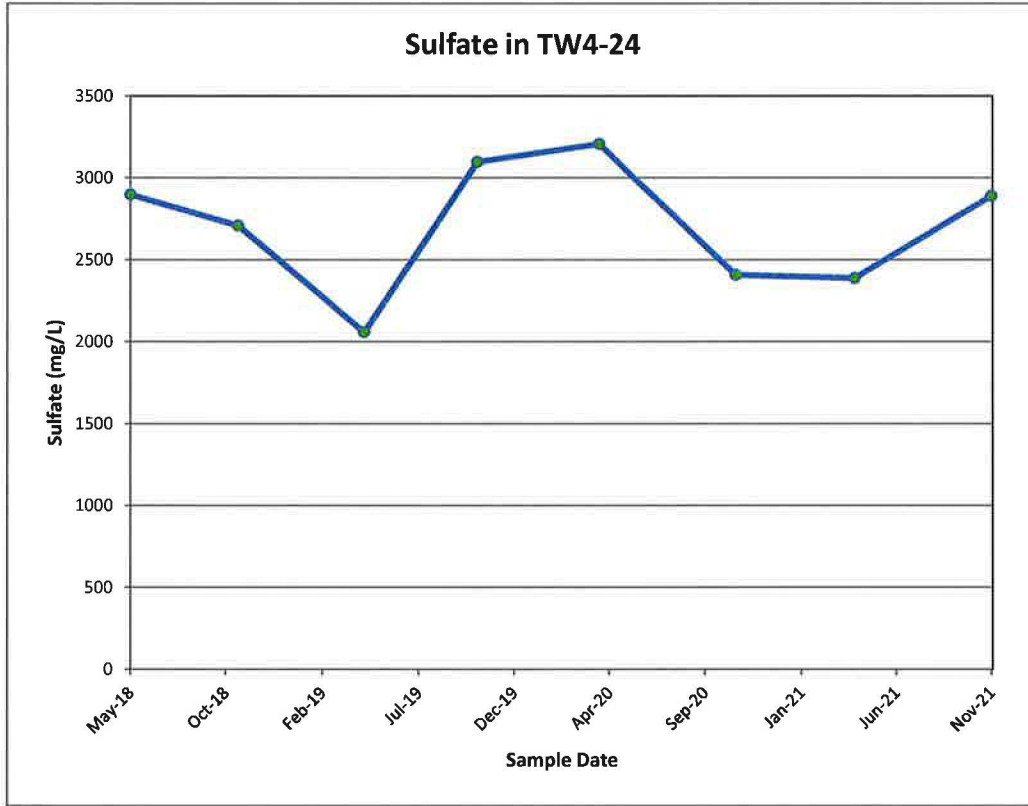
Time concentration plots for MW-40



Time concentration plots for TW4-24



Time concentration plots for TW4-24



Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Friday, May 6, 2022 7:18 AM
To: Phillip Goble
Cc: 'Thomas Rushing'; David Frydenlund; Scott Bakken; Garrin Palmer; Logan Shumway; Jordan Christine App
Subject: Transmittal of CSV Files White Mesa Mill 2022 Q1 Groundwater Monitoring
Attachments: Q1 2022 DTW all programs .csv; Q1 2022 Field Data.csv; Q1 2022 GW Analytical 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 first 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

225 Union Blvd., Suite 600
Lakewood, CO 80228

<http://www.energyfuels.com>

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