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

April 21, 2023

Sent VIA EXPEDITED 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 2023 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 2023 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,
Kathy Weinel

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

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

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White Mesa Uranium Mill

Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

1st Quarter
(January through March)
2023

Prepared by:

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

April 21, 2023

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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 2023 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 GWDP Part 1.H.2 and quarterly sampling commenced in fourth quarter 2018. The GWDP Part 1.H.3 requires the completion of a background report for each of these wells after the completion of 8 quarters of sampling. The background reports and resultant Groundwater Compliance Limits ("GWCLs") were calculated based on eight statistically valid data points.

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

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

2.1.4 Parameters Analyzed

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

2.1.5 Groundwater Head Monitoring

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

- The groundwater monitoring wells (including general monitoring wells, quarterly and semi-annual monitoring wells, and (MW-34).

- Existing monitoring well MW-4 and the temporary chloroform investigation wells.

- Piezometers – P-1, P-2, P-3A, P-4 and P-5.

- Nitrate monitoring wells.

- The DR piezometers which were installed during the Southwest Hydrogeologic Investigation.

- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

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

2.2 Field Data

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

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

2.3 Laboratory Results - Quarterly Sampling

2.3.1 Copy of Laboratory Results

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

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

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

2.3.2 Regulatory Framework and Groundwater Background

Under the GWDP, background groundwater quality has been determined on a well-by-well basis, as defined by the DWMRC-approved flowchart included in the *Revised*

Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah. GWCLs that reflect this background groundwater quality have been set for compliance monitoring wells except MW-38, MW-39, and MW-40. As discussed in Section 2.1.3 above, EFRI previously submitted the background report for MW-38, MW-39, and MW-40.

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

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

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

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

2.4 Laboratory Results – Accelerated Monitoring

2.4.1 Copy of Laboratory Results

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

2.4.2 Regulatory Framework and Groundwater Background

As a result of the issuance of a revised GWDP on March 8, 2021, which sets revised GWCLs for some constituents, requirements to perform accelerated monitoring under

Part I.G.1 of the previous GWDP for certain constituents ceased effective March 8, 2021, and the effect of the issuance of the revised GWDP was to create a "clean slate" for certain constituents in a limited list of wells going forward.

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

2.4.3 Compliance Status

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

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

2.5 Depth to Groundwater and Water Table Contour Map

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

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

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The Mill Director, Regulatory Compliance performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Groundwater Monitoring Quality Assurance Plan ("QAP"). As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte

completeness review, and quality control review of laboratory data methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures ("SOPs") is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

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

3.1 Field QC Samples

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

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

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

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

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

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

3.2 Adherence to Mill Sampling SOPs

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

3.3 Analyte Completeness Review

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

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

3.4 Data Validation

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

3.4.1 Field Data QA/QC Evaluation

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

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

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

During both the quarterly sampling event and the two monthly events, the purging technique used was two casing volumes with stable field parameters (pH, Conductivity, Redox, temperature, DO, and turbidity) except for the following wells that were purged to dryness: MW-37 and MW-38.

MW-37 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-37 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-37 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, MW-29, and MW-32. Per the QAP, Attachment 2-3, turbidity measurements prior to sampling were within a 10% RPD for the quarterly and semi-annual wells.

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

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

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

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

3.4.2 Holding Time Evaluation

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

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

3.4.3 Receipt Temperature Evaluation

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

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

3.4.4 Analytical Method Checklist

The analytical methods reported by both laboratories were checked against the required methods specified in the QAP. Analytical method check results are provided in Tab G. The review indicated that the quarterly, semi-annual and accelerated samples were analyzed in accordance with Table 1 of the QAP.

3.4.5 Reporting Limit Evaluation

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

3.4.6 Trip Blank Evaluation

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

3.4.7 QA/QC Evaluation for Routine Sample Duplicates

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

Field duplicate sample results were assessed as required by the QAP. Duplicate results were within the acceptance limits specified in the QAP. Field duplicate results are shown in Attachment G.

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

3.4.8 Radiologics Counting Error and Duplicate Evaluation

Section 9.14 of the QAP requires that when gross alpha results are reported with an activity equal to or greater than the GWCL the counting variance shall be equal to or less than 20% of the reported activity concentration. An error term may be greater than 20% of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL. The quarterly and semi-annual radiologic sample results met the counting error requirements specified in the QAP except as noted in Tab G. The results for MW-24 and MW-39 did not meet the requirement that the

counting error be equal to or less than 20% of the reported activity concentration, likely because the reported concentrations are very near the RL. As stated above the error term may be greater than 20% of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL; however MW-39 does not have a GWCL and this second level check cannot be performed. MW-24 passed the secondary check. The results are usable for the intended purpose and there is no adverse effect on the data.

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

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

3.4.9 Other Laboratory QA/QC

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

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

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

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

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

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

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

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

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for the quarterly samples were within acceptable laboratory limits except for mercury, carbon tetrachloride and naphthalene. The recoveries were below the laboratory established limits and the low recoveries are indicative of a potential low bias to the sample results. The data were flagged in accordance with the changes specified in EPA Method 8260D. The flagging requirements are new to the revised method and do not adversely affect the data. The data are usable for the intended purpose because there are no recent or historical detections of these analytes in the onsite wells and the nondetect data are likely accurate.

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 sodium in analytical batch 23B0151, which reported a detection of 0.8 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. 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

4/24/23
Date

Certification:

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

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

Tables

Table 1: Summary of Well Sampling for Q1 2023

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-11	Quarterly	Quarterly	1/25/2023	(2/9/2023) [3/3/2023]
MW-12	Semi-annually	Semi-annually	1/26/2023	(2/17/2023)
MW-14	Quarterly	Quarterly	1/26/2023	(2/9/2023) [3/3/2023]
MW-17	Semi-annually	Semi-annually	1/30/2023	(2/17/2023)
MW-24	Semi-annually	Semi-annually	1/31/2023	(2/17/2023) [3/3/2023]
MW-24A	Semi-annually	Semi-annually	1/31/2023	(2/17/2023) [3/3/2023]
MW-25	Quarterly	Quarterly	1/23/2023	(2/9/2023) [3/3/2023]
MW-26	Quarterly	Quarterly	1/26/2023	(2/9/2023) [3/3/2023]
MW-27	Semi-annually	Semi-annually	1/27/2023	(2/17/2023)
MW-28	Semi-annually	Semi-annually	1/27/2023	(2/17/2023)
MW-29	Semi-annually	Semi-annually	1/27/2023	(2/17/2023)
MW-30	Quarterly	Quarterly	1/25/2023	(2/9/2023) [3/3/2023]
MW-31	Quarterly	Quarterly	1/31/2023	(2/9/2023) [3/3/2023]
MW-32	Semi-annually	Semi-annually	1/30/2023	(2/17/2023)
MW-36	Quarterly	Quarterly	1/30/2023	(2/17/2023) [3/3/2023]
MW-37	Semi-annually	Semi-annually	2/9/2023	pH Only
MW-38	Quarterly	Background	2/1/2023	(2/17/2023) [3/3/2023]
MW-39	Quarterly	Background	2/1/2023	(2/17/2023) [3/3/2023]
MW-40	Quarterly	Background	1/30/2023	(2/17/2023) [3/3/2023]
MW-65	1 per Batch	Duplicate of MW-14	1/26/2023	(2/9/2023) [3/3/2023]
Accelerated February Monthly				
MW-11	Monthly	Accelerated	2/8/2023	(2/24/2023)
MW-25	Monthly	Accelerated	2/7/2023	(2/24/2023)
MW-26	Monthly	Accelerated	2/8/2023	(2/24/2023)
MW-30	Monthly	Accelerated	2/8/2023	(2/24/2023)
MW-31	Monthly	Accelerated	2/7/2023	(2/24/2023)
MW-65	Monthly	Duplicate of MW-30	2/8/2023	(2/24/2023)
Accelerated March Monthly				
MW-11	Monthly	Accelerated	3/14/2023	(3/27/2023)
MW-25	Monthly	Accelerated	3/15/2023	(3/27/2023)
MW-26	Monthly	Accelerated	3/14/2023	(3/27/2023)
MW-30	Monthly	Accelerated	3/15/2023	(3/27/2023)
MW-31	Monthly	Accelerated	3/14/2023	(3/27/2023)
MW-65	1 per Batch	Duplicate of MW-11	3/14/2023	(3/27/2023)

Notes:

When more than 1 date is shown for a certain laboratory, the date(s) in italics are the resubmission dates. Resubmissions were required to correct reporting errors or to address reanalyses.

Date in parenthesis depicts the date that data were reported from Chemtech-Ford (CTF).

Date in brackets depicts the date the data were reported from GEL Laboratories.

Table 2
Exceedances and Acceleration Requirements

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Routine Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
Quarterly Wells Accelerated to Monthly Sampling							
MW-11 (Class II)	Total Dissolved Solids (mg/L)	2528	2680	Quarterly	Monthly	Q3 2021	November 2021
	Manganese (ug/L)	237	376	Quarterly	Monthly	Q3 2021	November 2021
	Nitrate + Nitrite (as N) (mg/L)	2.5	2.55	Quarterly	Monthly	Q1 2022	June 2022
	Chloride (mg/L)	39.16	48.4	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Selenium (ug/L)	12.5	15.5	Quarterly	Monthly	Q4 2022	March 2023
	Sulfate (mg/L)	1309	1410	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
MW-25 (Class III)	Chloride (mg/L)	35	35.8	Quarterly	Monthly	Q4 2022	March 2023
	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
	Field pH (S.U.)	6.47	6.37	Quarterly	Monthly	Q4 2022	March 2023
	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-17 (Class III)	Chloride (mg/L)	46.8	54.0	Semi-Annually	Quarterly	Q4 2022	Q2 2023
MW-24 (Class III)	Cadmium (ug/L)	6.43	6.97	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Beryllium (ug/L)	2	2.42	Semi-Annually	Quarterly	Q4 2017	Q1 2018
	Thallium (ug/L)	2.01	2.44	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Nickel (ug/L)	50	57.7	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	Sulfate (mg/L)	2903	2960	Semi-Annually	Quarterly	Q1 2020	Q3 2020
	Manganese (ug/L)	7507	7700	Semi-Annually	Quarterly	Q4 2019	Q1 2020
	Fluoride (mg/L)	0.47	0.797	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	Gross Alpha (pCi/L)	7.5	9.03	Semi-Annually	Quarterly	Q4 2020	Q3 2021
	TDS (mg/L)	4450	4460	Semi-Annually	Quarterly	Q2 2021	Q3 2021
	Field pH (S.U.)	5.03	4.45	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.85	0.90	Semi-Annually	Quarterly	Q2 2022	Q3 2022
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	5	5.14	Semi-Annually	Quarterly	Q4 2019	Q3 2020
	Selenium (ug/L)	11.1	12.4	Semi-Annually	Quarterly	Q2 2019	Q3 2019
	Cadmium (ug/L)	5.2	5.41	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Uranium (ug/L)	4.9	61.3	Semi-Annually	Quarterly	Q2 2014	Q4 2014
MW-29 (Class III)	Uranium (ug/L)	15	15.3	Semi-Annually	Quarterly	Q4 2020	Q3 2021
MW-32 (Class III)	Chloride (mg/L)	35.99	36.3	Semi-Annually	Quarterly	Q2 2014 (Q1 2015)	Q2 2014
MW-37 (Class III)	Field pH (S.U.)	6.61	6.60	Semi-Annually	Quarterly	Q4 2022	Q2 2023

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						Required Quarterly Sampling Wells						Required Quarterly Sampling Wells						Required Quarterly Sampling Wells					
MW-11 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/12/21	1.21	2/9/21	NA	3/8/21	NA	04/20/21	0.948	5/10/21	NA	6/8/21	NA	7/27/21	0.924	8/10/21	NA	9/7/21	NA	10/20/21	1.5	11/16/21	NA	12/13/21	NA
	Chloride (mg/L)	39.16		***46.4***		***46.4***		***46.9***		***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		***376***		NA		NA		***286***		***261***		***300***
	Sulfate (mg/L)	1309		1140		1260		1270		1290		1280		1270		***1470***		***1370***		1240		***1360***		1300		***1350***
	TDS (mg/L)	2528		2010		2160		1950		2110		2190		1960		***2680***		NA		NA		2200		2230		2140
	Selenium (ug/L)	12.5		<5		NA		NA		<5		NA		NA		<5		NA		NA		6.75		NA		NA
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
	Chloride (mg/L)	35		34		NA		NA		34.8		NA		NA		34.2		NA		NA		33.1		NA		NA
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/14/21	0.619	2/10/21	***0.764***	3/9/21	0.617	04/21/21	***1.42***	5/11/21	***1.06***	6/8/21	0.368	7/28/21	0.352	8/10/21	***1.42***	9/9/21	***0.710***	10/21/21	***0.928***	11/16/21	***1.18***	12/15/21	***1.76***
	Chloroform (ug/L)	70		***2200***		***1930***		***2190***		***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		54.0		***61.4***		***59.3***		55.2		56.9		***75.9***
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/11/21	***17.7***	2/10/21	***14.3***	3/9/21	***17.0***	04/14/21	***17.7***	5/11/21	***18.6***	6/8/21	***17.0***	7/29/21	***20.6***	8/9/21	***16.5***	9/8/21	***15.4***	10/19/21	***14.3***	11/17/21	***18.0***	12/14/21	***18.6***
	Chloride (mg/L)	128		***184***		***189***		***192***		***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***		***56.1***		***60.4***		***54.6***		***53.6***		***58.8***
	Field pH (S.U.)	6.47 - 8.5		7.49		7.25		7.14		7.20		7.20		7.36		6.98		6.84		6.70		6.77		7.18		7.04
	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		9.67		***10.1***
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/12/21	***17.1***	2/9/21	***14.3***	3/8/21	***17.4***	04/13/21	***18.6***	5/10/21	***18.9***	6/7/21	***20.6***	7/27/21	***18.7***	8/9/21	***15.7***	9/7/21	***16.0***	10/19/21	***18.1***	11/15/21	***19.3***	12/13/21	***17.9***
	Sulfate (mg/L)	993		***1070***		***1130***		***1210***		***1170***		***1200***		***1170***		***1210***		***1130***		***1130***		***1220***		***1180***		***1220***
	TDS (mg/L)	2132		***2460***		***2960***		***2400***		***2300***		***2610***		***2400***		***3100***		***2600***		***2870***		***2600***		***2610***		***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***		***21.5***		***21.8***
	Chloride (mg/L)	143		***354***		***380***		***388***		***377***		***384***		***374***		***391***		***365***		***356***		***371***		***366***		***376***
			Required Semiannual Sampling Wells						Required Semiannual Sampling Wells						Required Semiannual Sampling Wells						Required Semiannual Sampling Wells					
MW-12 (Class III)	Uranium (ug/L)	23.5	1/14/21	***25.0***	NS	NA	NS	NA	4/20/21	22.9	NS	NA	NS	NA	7/21/21	22.2	NS	NA	NS	NA	11/9/21	23.1	NS	NA	NS	NA
	Selenium (ug/L)	39		35.1						28.8						32.4						26.4				
MW-17 (Class III)	Chloride (mg/L)	46.8	NS	NA	NS	NA	NS	NA	4/26/21	32.6	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/8/21	33.4	NS	NA	NS	NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/14/21	***2.75***	NS	NA	NS	NA	4/29/21	***2.78***	NS	NA	NS	NA	7/29/21	***2.71***	NS	NA	NS	NA	11/10/21	***2.66***	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		***8.79***		NA		NA		***8.08***		NA		NA		***9.26***		NA		NA		***9.30***		NA		NA
	Fluoride (mg/L)	0.47		***0.916***		NA		NA		***0.925***		NA		NA		***1.4***		NA		NA		***0.988***		NA		NA
	Nickel (mg/L)	50		***70.4***		NA		NA		***72.4***		NA		NA		***76.7***		NA		NA		***76.7***		NA		NA
	Manganese (ug/L)	7507		7460		NA		NA		***7540***		NA		NA		***7890***		NA		NA		7430		NA		NA
	Thallium (ug/L)	2.01		***2.74***		NA		NA		***3.02***		NA		NA		***2.91***		NA		NA		***3.14***		NA		NA
	Gross Alpha (pCi/L)	7.5		2.94		NA		NA		3.18		NA		NA		1.92		NA		NA		1.56		NA		NA
	Sulfate (mg/L)	2903		***2980***		NA		NA		***2960***		NA		NA		***3050***		NA		NA		***3220***		NA		NA
	TDS (mg/L)	4450		4260		NA		NA		***4460***		NA		NA		***4940***		NA		NA		***4730***		NA		NA
	Field pH (S.U.)	5.03 - 8.5		5.08		NA		NA		***5.00***		NA		NA		5.85		NA		NA		5.23		NA		NA
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
	Fluoride (mg/L)	0.85		NA						0.69						NA						0.65				
MW-28 (Class III)	Chloride (mg/L)	105	1/15/21	***128***	NS	NA	NS	NA	4/15/21	***144***	NS	NA	NS	NA	7/23/21	***152***	NS	NA	NS	NA	10/26/21	***147***	NS	NA	NS	NA
	Selenium (ug/L)	11.1		***14.0***		NA		NA		***13.4***		NA		NA		***18.5***		NA		NA		***11.2***		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		3.44		NA		NA		4.09		NA		NA		***6.09***		NA		NA		1.89		NA		NA
	Uranium (ug/L)	4.9		***10.3***		NA		NA		***8.52***		NA		NA		***13.80***		NA		NA		***6.03***		NA		NA
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
MW-37 (Class III)	Field pH (S.U.)	6.61 - 8.5	NS	***NA***	NS	NA	NS	NA	5/12/21	7.00	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/17/21	7.06	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						Q2 2022 Results						Q3 2022 Results						Q4 2022 Results					
			Q1 2022 Sample Date	Q1 2022 Result	February 2022 Monthly Sample Date	February 2022 Monthly Result	March 2022 Monthly Sample Date	March 2022 Monthly Result	Q2 2022 Sample Date	Q2 2022 Result	May 2022 Monthly Sample Date	May 2022 Monthly Result	June 2022 Monthly Sample Date	June 2022 Monthly Result	Q3 2022 Sample Date	Q3 2022 Result	August 2022 Monthly Sample Date	August 2022 Monthly Result	September 2022 Monthly Sample Date	September 2022 Monthly Result	Q4 2022 Sample Date	Q4 2022 Result	November 2022 Monthly Sample Date	November 2022 Monthly Result	December 2022 Monthly Sample Date	December 2022 Monthly Result
			Required Quarterly Sampling Wells						Required Quarterly Sampling Wells						Required Quarterly Sampling Wells						Required Quarterly Sampling Wells					
MW-11 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/18/22	***2.55***	2/8/22	NA	3/8/22	NA	4/18/22	2.2	5/4/22	1.6	6/6/22	1.9	7/12/22	2.12	8/8/22	2.45	9/21/22	***2.65***	10/10/22	***2.90***	11/8/22	***2.74***	12/14/22	1.30
	Chloride (mg/L)	39.16		***51.1***		***57.2***		***67.7***		***54.9***		***59.5***		***46.4***		***54.0***		***67.4***		***68.1***		***72.1***		***71.9***		***52.3***
	Manganese (ug/L)	237		156		233		224		180		***254***		228		***297***		201		212		214		220		***273***
	Sulfate (mg/L)	1309		1020		1240		1170		1240		1270		866		***1390***		1260		1300		1140		1140		***1330***
	TDS (mg/L)	2528		2050		1900		2080		2060		2290		2360		2520		***3230***		2280		***2570***		2270		2370
	Selenium (ug/L)	12.5		9.29		NA		NA		10.8		NA		NA		9.3		NA		NA		***15.5***		NA		NA
MW-25 (Class III)	TDS (mg/L)	2976	1/17/22	2720	2/9/22	2690	3/7/22	2610	4/12/22	***3600***	5/3/22	2660	6/7/22	2730	7/13/22	2830	8/9/22	2780	9/20/22	2750	10/10/22	2660	11/9/22	2690	12/14/22	2780
	Chloride (mg/L)	35		34.1		NA		NA		33.4		NA		NA		22.4		NA		NA		***35.8***		NA		NA
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/20/22	0.601	2/9/22	0.367	3/8/22	0.600	4/20/22	***0.8***	5/4/22	***1.1***	6/7/22	0.60	7/14/22	***1.63***	8/9/22	***1.56***	9/20/22	0.491	10/13/22	***0.632***	11/10/22	0.408	12/15/22	***2.66***
	Chloroform (ug/L)	70		***818***		***1580***		***1460***		***447***		***616***		***1250***		<1.0		***1120***		***810***		***749***		***512***		***460***
	Chloride (mg/L)	58.31		***77.1***		***58.6***		***64.1***		56.8		***63.2***		47.4		***61.0***		***65.0***		***62.1***		***65.5***		***59.2***		***60.6***
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/17/22	***14.5***	2/9/22	***13.6***	3/7/22	***16.6***	4/20/22	***17***	5/4/22	***15***	6/7/22	***11.0***	7/13/22	***17.6***	8/9/22	***13.5***	9/20/22	***16.5***	10/13/22	***17.9***	11/9/22	***15.9***	12/13/22	***16.1***
	Chloride (mg/L)	128		***181***		***184***		***196***		***173***		***195***		126		108		***185***		***182***		***196***		***156***		***195***
	Selenium (ug/L)	53.6		***56.7***		***57.7***		***62.0***		***64.9***		***69.4***		***65.7***		***61.1***		***64.3***		***70.0***		***65.1***		***75.6***		***70.8***
	Field pH (S.U.)	6.47 - 8.5		7.62		7.20		7.12		6.92		7.24		7.32		7.33		7.33		6.81		6.84		***6.37***		6.59
	Uranium (ug/L)	9.82		***10.1***		***10.3***		***9.9***		9.6		***10.1***		9.6		***10.0***		***10.1***		8.3		9.8		***10.1***		***13.0***
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/19/22	***18.0***	2/8/22	***13.5***	3/7/22	***17.0***	4/11/22	***18.0***	5/3/22	***13.0***	6/6/22	***13.0***	7/12/22	***16.9***	8/8/22	***16.8***	9/20/22	***17.1***	10/11/22	***17.0***	11/8/22	***16.0***	12/13/22	***12.6***
	Sulfate (mg/L)	993		***1210***		***1250***		731		***1180***		***1220***		***1110***		***1260***		***1230***		***1200***		972		***1380***		***1280***
	TDS (mg/L)	2132		***2620***		***2680***		***2530***		***4300***		***2660***		***2690***		***2700***		***2700***		***2830***		***2720***		***2670***		***2700***
	Uranium (ug/L)	15		***21.7***		***22.1***		***22.5***		***22.0***		***22.9***		***21.5***		***22.6***		***22.7***		***18.8***		***23.3***		***24.5***		***26.2***
	Chloride (mg/L)	143		***370***		***379***		***416***		***372***		***381***		***351***		***421***		***396***		***390***		***397***		***243***		***335***
			Required Semiannual Sampling Wells						Required Semiannual Sampling Wells						Required Semiannual Sampling Wells						Required Semiannual Sampling Wells					
MW-12 (Class III)	Uranium (ug/L)	23.5	1/20/22	22.1	NS	NA	NS	NA	4/19/22	20.5	NS	NA	NS	NA	7/14/22	21.6	NS	NA	NS	NA	10/13/22	21.2	NS	NA	NS	NA
	Selenium (ug/L)	39		25.6						31.3						29.2						32.1				
MW-17 (Class III)	Chloride (mg/L)	46.8	NS	NA	NS	NA	NS	NA	4/18/22	31.5	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/17/22	***54.0***	NS	NA	NS	NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/27/22	***2.71***	NS	NA	NS	NA	4/27/22	***2.5***	NS	NA	NS	NA	7/20/22 7/28/22	***2.7***	NS	NA	NS	NA	11/2/22	***3.3***	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		***8.46***		NA		NA		***9.20***		NA		NA		***8.6***		NA		NA		***10.9***		NA		NA
	Fluoride (mg/L)	0.47		***1***		NA		NA		***0.8***		NA		NA		***0.760***		NA		NA		***1.53***		NA		NA
	Nickel (mg/L)	50		***80.9***		NA		NA		***74.3***		NA		NA		***69.9***		NA		NA		***86.9***		NA		NA
	Manganese (ug/L)	7507		***7630***		NA		NA		7070		NA		NA		***7540***		NA		NA		***8130***		NA		NA
	Thallium (ug/L)	2.01		***2.66***		NA		NA		***3.1***		NA		NA		***3.0***		NA		NA		***3.5***		NA		NA
	Gross Alpha (pCi/L)	7.5		2.26		NA		NA		2.28		NA		NA		2.55		NA		NA		2.70		NA		NA
	Sulfate (mg/L)	2903		***3060***		NA		NA		***3120***		NA		NA		2800		NA		NA		2680		NA		NA
	TDS (mg/L)	4450		4140		NA		NA		3350		NA		NA		4200		NA		NA		4440		NA		NA
	Field pH (S.U.)	5.03 - 8.5		5.31		NA		NA		***4.81***		NA		NA		***4.89*** ***4.80***		NA		NA		***4.39***		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/18/22	***6.25***	NS	NA	NS	NA	4/12/22	***6.30***	NS	NA	NS	NA	7/15/22	5.18	NS	NA	NS	NA	10/19/22	5.26	NS	NA	NS	NA
	Fluoride (mg/L)	0.85		NA						***0.90***						0.530						0.722				
MW-28 (Class III)	Chloride (mg/L)	105	1/20/22	***140***	NS	NA	NS	NA	4/19/22	***130***	NS	NA	NS	NA	7/15/22	***159***	NS	NA	NS	NA	10/12/22	***161***	NS	NA	NS	NA
	Selenium (ug/L)	11.1		***13.3***		NA		NA		***19.8***		NA		NA		***20.8***		NA		NA		***23.7***		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		4.03		NA		NA		***5.1***		NA		NA		***5.16***		NA		NA		***5.69***		NA		NA
	Uranium (ug/L)	4.9		***8.50***		NA		NA		***10.10***		NA		NA		***12.4***		NA		NA		***12.5***		NA		NA
MW-29 (Class III)	Uranium (ug/L)	15	1/18/22	***15.1***	NS	NA	NS	NA	4/14/22	***15.7***	NS	NA	NS	NA	7/14/22	***15.1***	NS	NA	NS	NA	10/12/22	***15.2***	NS	NA	NS	NA
MW-32 (Class III)	Chloride (mg/L)	35.39	1/19/22	35.0	NS	NA	NS	NA	4/11/22	28.6	NS	NA	NS	NA	7/15/22	28.2	NS	NA	NS	NA	10/11/22	***37.1***	NS	NA	NS	NA
MW-37 (Class III)	Field pH (S.U.)	6.61 - 8.5	NS	NA	NS	NA	NS	NA	5/17/22	7.04	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/1/22	***6.60***	NS	NA	NS	NA

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

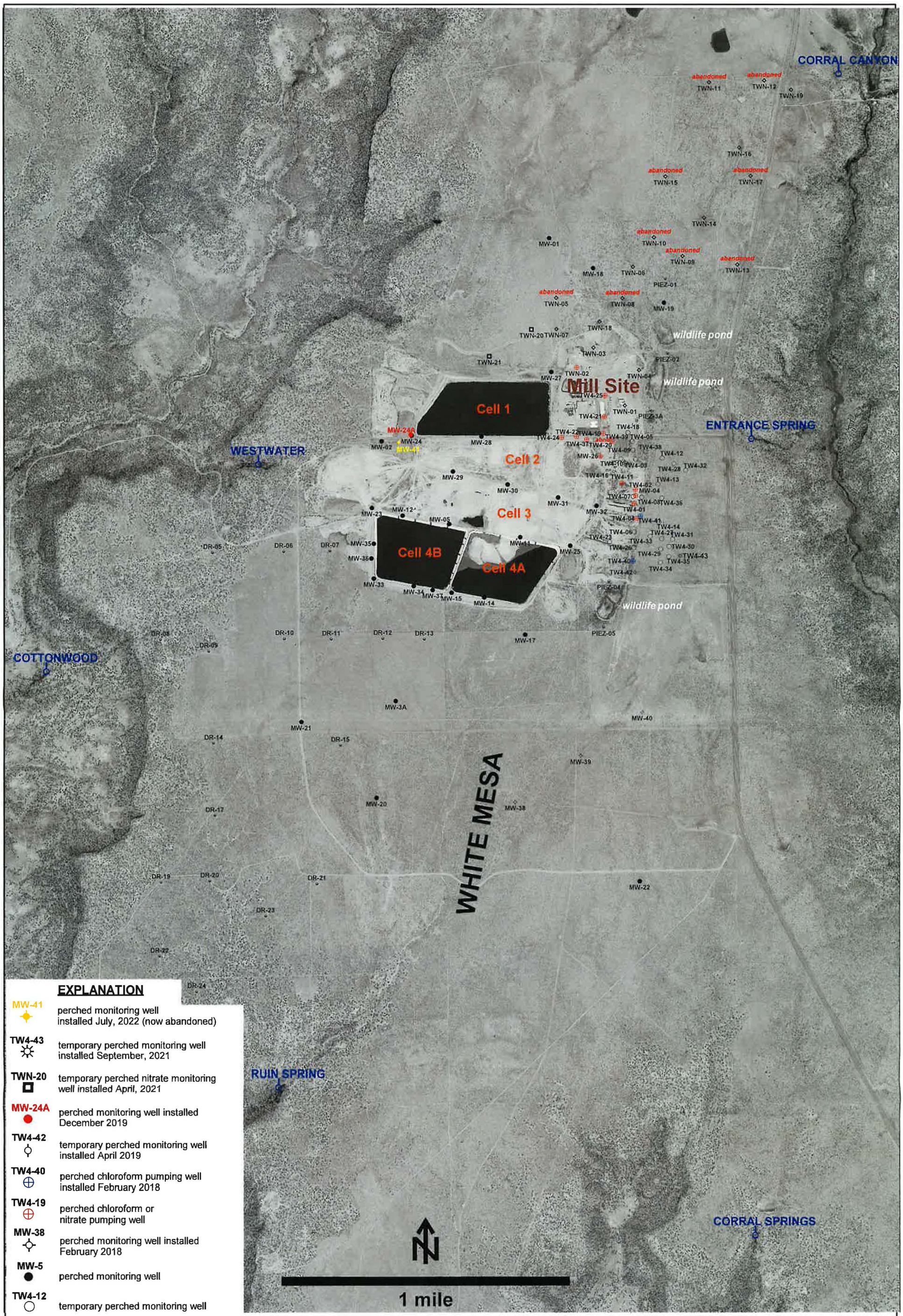
Table 3 – GWCL Exceedances under the March 8, 2021 GWDP

			Q1 2023 Results					
Monitoring Well (Water Class)	**Constituent Exceeding GWCL**	**GWCL in March 8, 2021 GWDP**	**Q1 2023 Sample Date**	**Q1 2023 Result**	**February 2023 Monthly Sample Date**	**February 2023 Monthly Result**	**March 2023 Monthly Sample Date**	**March 2023 Monthly Result**
			Required Quarterly Sampling Wells					
MW-11 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/25/23	***3.49***	2/8/23	***2.89***	3/14/23	***2.53***
	Chloride (mg/L)	39.16		***70.7***		***71.4***		***66.3***
	Manganese (ug/L)	237		193		161		211
	Sulfate (mg/L)	1309		1240		1100		***1430***
	TDS (mg/L)	2528		2390		2120		2300
	Selenium (ug/L)	12.5		***17.5***		***17.7***		***14.9***
MW-25 (Class III)	TDS (mg/L)	2976	1/23/23	2750	2/7/23	2610	3/15/23	2600
	Chloride (mg/L)	35		32.4		32.2		32.6
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/26/23	***1.82***	2/8/23	***1.94***	3/14/23	***0.875***
	Chloroform (ug/L)	70		***709***		***664***		***1060***
	Chloride (mg/L)	58.31		51.5		52.2		47.7
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/25/23	***18.1***	2/8/23	***15.9***	3/15/23	***17.3***
	Chloride (mg/L)	128		***166***		***173***		***199***
	Selenium (ug/L)	53.6		***68.8***		***70.6***		***72.1***
	Field pH (S.U.)	6.47 - 8.5		7.01		6.77		7.15
	Uranium (ug/L)	9.82		***10.8***		9.6		9.6
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/24/23	***18.7***	2/7/23	***16.5***	3/14/23	***17.9***
	Sulfate (mg/L)	993		***1230***		***1190***		951
	TDS (mg/L)	2132		***2740***		***2730***		***2520***
	Uranium (ug/L)	15		***25.4***		***23.3***		***23.7***
	Chloride (mg/L)	143		***333***		***388***		***302***
			Required Semiannual Sampling Wells					
MW-12 (Class III)	Uranium (ug/L)	23.5	1/26/23	21.3	NS	NA	NS	NA
	Selenium (ug/L)	39		27.0				
MW-17 (Class III)	Chloride (mg/L)	46.8	1/30/23	26.5	NS	NA	NS	NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/31/23	***2.4***	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		***9.2***		NA		NA
	Fluoride (mg/L)	0.47		***0.699***		NA		NA
	Nickel (mg/L)	50		***72.5***		NA		NA
	Manganese (ug/L)	7507		7000		NA		NA
	Thallium (ug/L)	2.01		***2.9***		NA		NA
	Gross Alpha (pCi/L)	7.5		2.27		NA		NA
	Sulfate (mg/L)	2903		2720		NA		NA
	TDS (mg/L)	4450		4220		NA		NA
	Field pH (S.U.)	5.03 - 8.5		***4.76***		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/27/23	5.25	NS	NA	NS	NA
	Fluoride (mg/L)	0.85		0.685				
MW-28 (Class III)	Chloride (mg/L)	105	1/27/23	***140***	NS	NA	NS	NA
	Selenium (ug/L)	11.1		<5.0		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		4.57		NA		NA
	Uranium (ug/L)	4.9		***15.5***		NA		NA
MW-29 (Class III)	Uranium (ug/L)	15	1/27/23	9.7	NS	NA	NS	NA
MW-32 (Class III)	Chloride (mg/L)	35.39	1/30/23	27.9	NS	NA	NS	NA
MW-37 (Class III)	Field pH (S.U.)	6.61 - 8.5	2/9/23	***6.55***	NS	NA	NS	NA

INDEX OF TABS

Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- MW-41 — perched monitoring well installed July, 2022 (now abandoned)
- TW4-43 — temporary perched monitoring well installed September, 2021
- TWN-20 — temporary perched nitrate monitoring well installed April, 2021
- MW-24A — perched monitoring well installed December 2019
- TW4-42 — temporary perched monitoring well installed April 2019
- TW4-40 — perched chloroform pumping well installed February 2018
- TW4-19 — perched chloroform or nitrate pumping well
- MW-38 — perched monitoring well installed February 2018
- MW-5 — perched monitoring well
- TW4-12 — temporary perched monitoring well
- TWN-7 — temporary perched nitrate monitoring well
- PIEZ-1 — perched piezometer
- RUIN SPRING — seep or spring

HYDRO GEO CHEM, INC.

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov22/Uwelloc1222.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_01252023
Purge Date & Time	1/25/2023 7:37
Sample Date & Time	1/25/2023 11:00

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.25
Calculated Casing Volumes Purge Duration (min)	269.62
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-5
Previous Well Sampled	MW-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.20

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/25/2023 10:57	57.93	3047	6.75	14.20	339	0	7.7	
1/25/2023 10:58	58.15	3060	6.77	14.19	334	0	7.3	
1/25/2023 10:59	58.37	3057	6.80	14.21	330	0	7.2	
1/25/2023 11:00	58.59	3047	6.83	14.19	327	0	7.0	

Volume of water purged (gals)	58.59

Final Depth to Water (feet)	86.87

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?
Total Dissolved Soilds	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 0625. Purge began at 0630. Purged well for a total of 270 minutes. Purge ended and samples collected at 1100. Water was clear. Left site at 1110.

Signature of Field Technician

Jarrett Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-12
Field Sample ID	MW-12_01262023
Purge Date & Time	1/26/2023 10:55
Sample Date & Time	1/26/2023 13:05

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	13.55
Calculated Casing Volumes Purge Duration (min)	124.94
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-26

Well Depth (ft)	130.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.64

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/26/2023 13:02	27.55	4146	6.53	13.97	337	0	26.0	
1/26/2023 13:03	27.77	4130	6.55	14.05	335	0	25.7	
1/26/2023 13:04	27.99	4142	6.56	14.00	335	0	25.7	
1/26/2023 13:05	28.21	4137	6.57	14.00	334	0	25.5	

Volume of water purged (gals)	28.21

Final Depth to Water (feet)	122.61

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 1050. Purge began at 1055. Purged well for a total of 130 minutes. Purge ended and samples collected at 1305. Water was clear. Left site at 1308.

Signature of Field Technician

Dennee Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_01262023
Purge Date & Time	1/26/2023 7:30
Sample Date & Time	1/26/2023 10:30

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.66
Calculated Casing Volumes Purge Duration (min)	162.79
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-6
Previous Well Sampled	MW-30

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	101.65

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/26/2023 10:27	38.40	3931	6.56	13.80	280	0	2.5	
1/26/2023 10:28	38.62	3937	6.63	13.71	279	0	2.0	
1/26/2023 10:29	38.84	3940	6.65	13.68	278	0	1.9	
1/26/2023 10:30	39.06	3944	6.66	13.65	277	0	1.9	

Volume of water purged (gals)	39.06

Final Depth to Water (feet)	102.81

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

Name of Certified Analytical Laboratory
AWSL

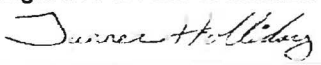
Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Soilds	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 0724. Purge began at 0730. Purged well for a total of 180 minutes. Purge ended and samples collected at 1030. Water was clear. Left site at 1045.

Signature of Field Technician



Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-17
Field Sample ID	MW-17_01302023
Purge Date & Time	1/30/2023 11:35
Sample Date & Time	1/30/2023 15:40

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.05
Calculated Casing Volumes Purge Duration (min)	240.13
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-40
Well Depth (ft)	112.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	72.10

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/30/2023 15:37	52.51	3730	6.87	13.72	227	0	9.0	
1/30/2023 15:38	52.73	3716	6.90	13.85	226	0	9.0	
1/30/2023 15:39	52.94	3722	6.95	14.00	226	0	9.0	
1/30/2023 15:40	53.16	3728	6.95	13.94	225	0	8.9	

Volume of water purged (gals)	53.16
Final Depth to Water (feet)	90.15

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

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

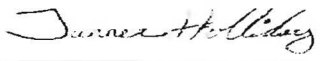
Analytical Samples Information

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

Comments:

Arrived on site at 1132. Purge began at 1135. Purged well for a total of 245 minutes. Purge ended and samples collected at 1540. Water was clear. Left site at 1543.

Signature of Field Technician



Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_01312023
Purge Date & Time	1/31/2023 9:35
Sample Date & Time	1/31/2023 10:55

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.19
Calculated Casing Volumes Purge Duration (min)	74.95
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-24A
Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	108.98

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/31/2023 10:52	14.78	4442	4.78	13.52	344	1.7	63.4	
1/31/2023 10:53	14.97	4477	4.77	13.78	345	1.6	64.0	
1/31/2023 10:54	15.16	4478	4.76	13.80	346	1.6	63.8	
1/31/2023 10:55	15.36	4474	4.76	13.82	348	1.6	63.5	

Volume of water purged (gals)	15.36
Final Depth to Water (feet)	112.45

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.192
Time to evacuate 2 Casing Volumes (min)	80.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
GEL

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 Soilds	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 0930. Purge began at 0935. Purged well for a total of 80 minutes. Purge ended and samples collected at 1055. Water was clear. Left site at 1105.

Signature of Field Technician

Darren Holliday

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-24A
Field Sample ID	MW-24A_01312023
Purge Date & Time	1/31/2023 7:50
Sample Date & Time	1/31/2023 9:20
Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	7.77
Calculated Casing Volumes Purge Duration (min)	80.94
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-4
Previous Well Sampled	MW-36
Well Depth (ft)	122.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.10

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/31/2023 9:17	16.70	4320	4.80	14.30	343	3.2	87.7	
1/31/2023 9:18	16.89	4312	4.78	14.10	346	3.1	86.0	
1/31/2023 9:19	17.08	4389	4.75	14.01	349	3.0	85.1	
1/31/2023 9:20	17.28	4326	4.73	14.00	351	2.9	85.0	

Volume of water purged (gals)	17.28
Final Depth to Water (feet)	116.68

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.192
Time to evacuate 2 Casing Volumes (min)	90.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
GEL

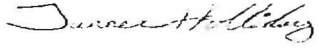
Analytical Samples Information

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 Soilds	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 90 minutes. Purge ended and samples collected at 0920. Water was clear. Left site at 0930.

Signature of Field Technician



Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_01232023
Purge Date & Time	1/23/2023 8:15
Sample Date & Time	1/23/2023 12:15

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.64
Calculated Casing Volumes Purge Duration (min)	199.51
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Snowing
External Ambient Temperature (C)	-5
Previous Well Sampled	N/A
Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.85

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/23/2023 12:12	51.42	3226	6.43	14.08	429	8.0	5.5	
1/23/2023 12:13	51.64	3177	6.45	14.20	419	6.5	5.4	
1/23/2023 12:14	51.86	3176	6.45	14.18	414	7.0	5.0	
1/23/2023 12:15	52.08	3190	6.47	14.17	408	6.8	5.1	

Volume of water purged (gals)	52.08
Final Depth to Water (feet)	83.97

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

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Soilds	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 0810. Purge began at 0815. Purged well for a total of 240 minutes. Purge ended and samples collected at 1215. Water was clear. Left site at 1226.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_01262023
Purge Date & Time	1/26/2023 8:59
Sample Date & Time	1/26/2023 9:00

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	30.54
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)	-5
Previous Well Sampled	MW-14
Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.56

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/26/2023 9:00		3455	6.71	14.67	382	2.0	42.0	

Volume of water purged ()	
Final Depth to Water (feet)	102.72

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.5
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

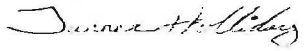
Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Soilds	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 0855. Samples collected at 0900. Water was clear. Left site at 0905.

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-27
Field Sample ID	MW-27_01272023
Purge Date & Time	1/27/2023 7:30
Sample Date & Time	1/27/2023 11:10

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.66
Calculated Casing Volumes Purge Duration (min)	218.10
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-29
Well Depth (ft)	95.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	58.76

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/27/2023 11:07	47.08	1246	7.04	14.10	300	0	95.0	
1/27/2023 11:08	47.30	1235	7.08	14.20	298	0	95.2	
1/27/2023 11:09	47.52	1233	7.13	14.30	297	0	95.6	
1/27/2023 11:10	47.74	1225	7.17	14.36	296	0	95.5	

Volume of water purged (gals)	47.74

Final Depth to Water (feet)	61.03

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?
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Fluoride	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 0725. Purge began at 0730. Purged well for a total of 220 minutes. Purge ended and samples collected at 1110. Water was clear. Left site at 1114.

Signature of Field Technician

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-28
Field Sample ID	MW-28_01272023
Purge Date & Time	1/27/2023 10:20
Sample Date & Time	1/27/2023 14:00

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.14
Calculated Casing Volumes Purge Duration (min)	213.29
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)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.56

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/27/2023 13:57	47.08	4180	6.35	13.80	359	0	26.0	
1/27/2023 13:58	47.30	4183	6.39	13.76	359	0	24.0	
1/27/2023 13:59	47.52	4170	6.40	13.85	359	0	24.0	
1/27/2023 14:00	47.74	4181	6.43	13.83	359	0	24.1	

Volume of water purged (gals)	47.74

Final Depth to Water (feet)	77.46

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

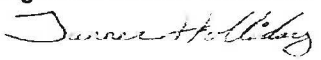
Analytical Samples Information

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 1015. Purge began at 1020. Purged well for a total of 220 minutes. Purge ended and samples collected at 1400. Water was clear. Left site at 1406.

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-29
Field Sample ID	MW-29_01272023
Purge Date & Time	1/27/2023 7:05
Sample Date & Time	1/27/2023 10:05

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	18.42
Calculated Casing Volumes Purge Duration (min)	169.84
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-12
Well Depth (ft)	135.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	106.78

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/27/2023 10:02	38.40	4613	6.51	14.25	326	9.0	7.0	
1/27/2023 10:03	38.62	4612	6.54	14.00	308	10.0	6.8	
1/27/2023 10:04	38.84	4611	6.54	14.02	300	10.1	6.8	
1/27/2023 10:05	39.06	4613	6.54	14.00	291	10.0	6.7	

Volume of water purged (gals)	39.06
Final Depth to Water (feet)	109.48

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 0700. Purge began at 0705. Purged well for a total of 180 minutes. Purge ended and samples collected at 1005. Water was clear. Left site at 1008.

Signature of Field Technician

Darren Hibbey

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_01252023
Purge Date & Time	1/25/2023 11:15
Sample Date & Time	1/25/2023 14:45

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.58
Calculated Casing Volumes Purge Duration (min)	208.17
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-11

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.41

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/25/2023 14:42	44.91	1632	6.95	14.15	311	0	52.5	
1/25/2023 14:43	45.13	1620	6.99	14.10	308	0	52.4	
1/25/2023 14:44	45.35	1600	7.00	14.08	306	0	52.5	
1/25/2023 14:45	45.57	1589	7.01	14.11	305	0	52.2	

Volume of water purged (gals)	45.57

Final Depth to Water (feet)	77.02

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 Soilds	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 1112. Purge began at 1115. Purged well for a total of 210 minutes. Purge ended and samples collected at 1445. Water was clear. Left site at 1455.

Signature of Field Technician

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_01242023
Purge Date & Time	1/24/2023 6:55
Sample Date & Time	1/24/2023 13:05

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

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	Clear
External Ambient Temperature (C)	-6
Previous Well Sampled	MW-25

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
1/24/2023 13:02	79.63	3560	6.43	14.99	328	0	113.5	
1/24/2023 13:03	79.85	3526	6.47	14.80	321	0	112.0	
1/24/2023 13:04	80.07	3506	6.50	14.79	316	0	113.0	
1/24/2023 13:05	80.29	3505	6.54	14.67	313	0	113.2	

Volume of water purged (gals)	80.29

Final Depth to Water (feet)	71.20

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 Soilds	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 0650. Purge began at 0655. Purged well for a total of 370 minutes. Purge ended and samples collected at 1305. Water was clear. Left site at 1315.

Signature of Field Technician

Darren Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_01302023
Purge Date & Time	1/30/2023 6:50
Sample Date & Time	1/30/2023 11:50

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	30.86
Calculated Casing Volumes Purge Duration (min)	284.43
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-28
Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.74

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/30/2023 11:47	64.44	3708	6.40	14.10	226	5.2	20.0	
1/30/2023 11:48	64.66	3700	6.45	14.06	222	6.0	21.0	
1/30/2023 11:49	64.88	3711	6.50	14.05	220	6.5	22.0	
1/30/2023 11:50	65.10	3709	6.54	14.05	217	6.8	22.0	

Volume of water purged (gals)	65.10
Final Depth to Water (feet)	86.79

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 0646. Purge began at 0650. Purged well for a total of 300 minutes. Purge ended and samples collected at 1150. Water was a little murky. Left site at 1152.

Signature of Field Technician

Duncan Holliday

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_01302023
Purge Date & Time	1/30/2023 12:05
Sample Date & Time	1/30/2023 13:25

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.29
Calculated Casing Volumes Purge Duration (min)	67.22
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	1
Previous Well Sampled	MW-17

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.43

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/30/2023 13:22	15.62	4923	6.87	13.80	211	0	75.0	
1/30/2023 13:23	15.84	4926	6.92	13.75	213	0	74.8	
1/30/2023 13:24	16.05	4940	6.95	13.80	214	0	74.3	
1/30/2023 13:25	16.27	4926	6.97	13.75	216	0	74.2	

Volume of water purged (gals)	16.27

Final Depth to Water (feet)	111.49

Name of Certified Analytical Laboratory
GEL

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	75.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

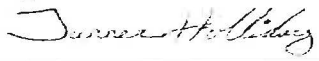
Analytical Samples Information

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 Soilds	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 1202. Purge began at 1205. Purged well for a total of 75 minutes. Purge ended and samples collected at 1325. Water was clear. Left site at 1335.

Signature of Field Technician



Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-37
Field Sample ID	MW-37_02092023
Purge Date & Time	2/7/2023 8:35
Sample Date & Time	2/9/2023 8:19

Sampling Program	
Sampling Event	Q1 2023 MW-37
Sampler	TH/DL

Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	10.41
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)	-1
Previous Well Sampled	N/A

Well Depth (ft)	121.80
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	105.85

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/7/2023 8:51	15.00	4426	6.32	13.57	424	24.0	80.6	
2/9/2023 10:00		4440	6.60	13.99				Before
2/9/2023 10:01		4444	6.55	14.03				After

Volume of water purged (gals)	15.00
Final Depth to Water (feet)	121.45

Name of Certified Analytical Laboratory

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.44
Volume, if well evacuated to dryness (gals)	15.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Field pH	Y	WATER			U	None	N

Comments:

Arrived on site at 0831. Bailing began at 0835. Bailed a total of 15 gallons from well. Bailed well dry. Water started clear and ended murky. Left site at 0852. Arrived on site at 0957. Depth to water was 119.67. Field ph was collected at 1000. Left site at 1002

Signature of Field Technician

Dawnee Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-38
Field Sample ID	MW-38_02012023
Purge Date & Time	1/31/2023 12:48
Sample Date & Time	2/1/2023 9:00

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	2.75
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)	1
Previous Well Sampled	MW-24

Well Depth (ft)	74.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.18

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/31/2023 12:55	5.00	4340	6.55	14.72	299	161.8	87.7	
2/1/2023 8:59		4344	7.07	13.88				Before
2/1/2023 9:05		4350	7.05	13.95				After

Volume of water purged (gals)	5.00

Final Depth to Water (feet)	74.30

Name of Certified Analytical Laboratory
GEL

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.81
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Total Dissolved Soilds	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 1243. Bailing began at 1248. Bailed a total of 5 gallons from well. Bailed well dry. Water started clear and ended murky. Left site at 1258. Arrived on site at 0855. Depth to water was 70.21. Samples bailed and collected at 0900. Left site at 0907.

Signature of Field Technician

Jarrae Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-39
Field Sample ID	MW-39_02012023
Purge Date & Time	2/1/2023 7:00
Sample Date & Time	2/1/2023 11:00

Sampling Program	
Sampling Event	2022 Q3 GW

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.61
Calculated Casing Volumes Purge Duration (min)	226.89
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	-8
Previous Well Sampled	MW-38

Well Depth (ft)	102.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	64.80

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/1/2023 10:57	51.42	4871	4.20	14.00	455	0	2.8	
2/1/2023 10:58	51.64	4885	4.18	13.95	447	0	2.5	
2/1/2023 10:59	51.86	4880	4.18	13.94	441	0	2.4	
2/1/2023 11:00	52.08	4874	4.17	13.93	437	0	2.4	

Volume of water purged (gals)	52.08

Final Depth to Water (feet)	69.50

Name of Certified Analytical Laboratory
GEL

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 Soilds	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 0655. Purge began at 0700. Purged well for a total of 240 minutes. Purge ended and samples collected at 1100. Water was clear. Left site at 1110.

Signature of Field Technician

Sheet 18 of 19

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-40
Field Sample ID	MW-40_01302023
Purge Date & Time	1/30/2023 7:15
Sample Date & Time	1/30/2023 11:20
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.41
Calculated Casing Volumes Purge Duration (min)	243.44
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2022 Q3 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-32
Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	79.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/30/2023 11:17	52.51	3959	6.55	14.22	446	0	105.0	
1/30/2023 11:18	52.73	3924	6.57	14.28	440	0	106.0	
1/30/2023 11:19	52.94	3921	6.63	14.18	431	0	106.0	
1/30/2023 11:20	53.16	3924	6.65	14.16	429	0	106.3	

Volume of water purged (gals)	53.16
Final Depth to Water (feet)	80.52

Pumping Rate Calculations

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

Name of Certified Analytical Laboratory
GEL

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 Soilds		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 0710. Purge began at 0715. Purged well for a total of 245 minutes. Purge ended and samples collected at 1120. Water was clear. Left site at 1130.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_01262023
Purge Date & Time	
Sample Date & Time	1/26/2023 10:30

Sampling Program	
Sampling Event	2022 Q3 GW
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)	

Pumping Rate Calculations

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

Name of Certified Analytical Laboratory
AWSL

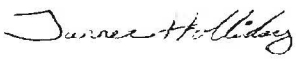
Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Total Dissolved Soilds	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-14

Signature of Field Technician



Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

February 2023

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_02082023
Purge Date & Time	2/8/2023 7:10
Sample Date & Time	2/8/2023 11:40

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.22
Calculated Casing Volumes Purge Duration (min)	269.32
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-5
Previous Well Sampled	MW-25

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.25

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/8/2023 11:37	57.93	3004	7.28	14.05	315	0	7.0	
2/8/2023 11:38	58.15	3007	7.31	14.04	314	0	7.0	
2/8/2023 11:39	58.37	3010	7.34	14.07	313	0	6.8	
2/8/2023 11:40	58.59	3020	7.36	14.05	312	0	6.7	

Volume of water purged (gals)	58.59

Final Depth to Water (feet)	86.47

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
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Soilds	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy metals - Mn and Se only	Y	WATER	0		Y		Y

Comments:

Arrived on site at 0705. Purge began at 0710. Purged well for a total of 270 minutes. Purge ended and samples collected at 1140. Water was clear. Left site at 1150.

Signature of Field Technician

Darren Holliday

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_02072023
Purge Date & Time	2/7/2023 7:15
Sample Date & Time	2/7/2023 10:45

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.40
Calculated Casing Volumes Purge Duration (min)	197.23
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-31

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	82.22

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/7/2023 10:42	44.91	3229	6.55	14.04	402	4.0	5.1	
2/7/2023 10:43	45.13	3232	6.58	14.00	401	4.2	5.1	
2/7/2023 10:44	45.35	3229	6.61	14.01	400	4.1	4.9	
2/7/2023 10:45	45.57	3235	6.63	14.03	398	4.3	4.8	

Volume of water purged (gals)	45.57

Final Depth to Water (feet)	84.30

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 Soilds	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Arrived on site at 0713. Purge began at 0715. Purged well for a total of 210 minutes. Purge ended and samples collected at 1045. Water was clear. Left site at 1050.

Signature of Field Technician

Darren Hollibaugh

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_02082023
Purge Date & Time	2/8/2023 9:59
Sample Date & Time	2/8/2023 10:00

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.71
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)	-2
Previous Well Sampled	MW-30

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	77.36

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/8/2023 10:00		3402	6.50	16.50	388	0	30.5	

Volume of water purged ()	
Final Depth to Water (feet)	101.23

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

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

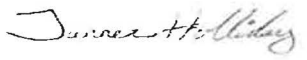
Analytical Samples Information

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

Comments:

Arrived on site at 0955. Samples collected at 1000. Water was clear. Left site at 1005.

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_02082023
Purge Date & Time	2/8/2023 7:30
Sample Date & Time	2/8/2023 11:00

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.63
Calculated Casing Volumes Purge Duration (min)	208.59
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-5
Previous Well Sampled	MW-11

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.34

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/8/2023 10:57	44.91	2305	6.67	14.12	324	0	54.0	
2/8/2023 10:58	45.13	2295	6.70	14.14	320	0	53.7	
2/8/2023 10:59	45.35	2292	6.74	14.15	317	0	53.0	
2/8/2023 11:00	45.57	2289	6.77	14.15	315	0	53.4	

Volume of water purged (gals)	45.57

Final Depth to Water (feet)	76.59

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

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

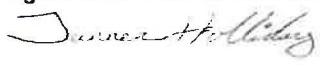
Analytical Samples Information

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

Comments:

Arrived on site at 0725. Purge began at 0730. Purged well for a total of 210 minutes. Purge ended and samples collected at 1100. Water was clear. Left site at 1111.

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_02072023
Purge Date & Time	2/7/2023 7:10
Sample Date & Time	2/7/2023 13:20

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.42
Calculated Casing Volumes Purge Duration (min)	363.39
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	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.62

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/7/2023 13:17	79.63	3481	6.60	14.40	390	0	111.0	
2/7/2023 13:18	79.85	3490	6.63	14.34	387	0	111.5	
2/7/2023 13:19	80.07	3482	6.67	14.40	385	0	111.7	
2/7/2023 13:20	80.29	3493	6.70	14.45	381	0	111.6	

Volume of water purged (gals)	80.29

Final Depth to Water (feet)	71.11

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

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

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Soilds	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 1329.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_02082023
Purge Date & Time	
Sample Date & Time	2/8/2023 11:00

Sampling Program	
Sampling Event	February 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
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:
Duplicate of MW-30

Signature of Field Technician

Dawnee Holliday

Tab C2

Field Data Worksheets Accelerated Monitoring

March 2023

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_03142023
Purge Date & Time	3/14/2023 8:45
Sample Date & Time	3/14/2023 13:15
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.28
Calculated Casing Volumes Purge Duration (min)	269.92
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	March Monthly
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	1
Previous Well Sampled	N/A
Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.15

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/14/2023 13:12	57.93	3096	6.80	14.75	396	120	6.0	
3/14/2023 13:13	58.15	3113	6.90	14.60	390	123	5.8	
3/14/2023 13:14	58.37	3105	6.97	14.59	387	127	5.6	
3/14/2023 13:15	58.59	3102	7.01	14.55	385	130	5.6	

Volume of water purged (gals)	58.59
Final Depth to Water (feet)	85.47

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
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Total Dissolved Soilds	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Heavy metals - Mn and Se only	Y	WATER	0		Y		Y

Comments:

Arrived on site at 0840. Purge began at 0845. Purged well for a total of 270 minutes. Purge ended and samples collected at 1315. Water was mostly clear but had tiny little bubbles surfacing. Left site at 1324.

Signature of Field Technician

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_03152023
Purge Date & Time	3/15/2023 8:00
Sample Date & Time	3/15/2023 11:30

Sampling Program	
Sampling Event	March Monthly
Sampler	TH/DL
Weather Conditions	Cloudy and raining
External Ambient Temperature (C)	6
Previous Well Sampled	MW-30

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	21.54
Calculated Casing Volumes Purge Duration (min)	198.60
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)	82.00

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/15/2023 11:27	44.91	3041	6.95	14.16	337	0	4.8	
3/15/2023 11:28	45.13	2916	6.95	14.16	337	0	4.6	
3/15/2023 11:29	45.35	2910	6.94	14.18	337	0	4.4	
3/15/2023 11:30	45.57	2830	6.93	14.13	337	0	4.2	

Volume of water purged (gals)	45.57

Final Depth to Water (feet)	82.98

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 Soilds	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Arrived on site at 0755. Purge began at 0800. Purged well for a total of 210 minutes. Purge ended and samples collected at 1130. Water was clear. Left site at 1134.

Signature of Field Technician

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_03142023
Purge Date & Time	3/14/2023 14:14
Sample Date & Time	3/14/2023 14:15

Sampling Program	
Sampling Event	March Monthly
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	26.91
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	11
Previous Well Sampled	MW-31
Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.11

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/14/2023 14:15		3574	6.59	16.40	381	0	34.5	

Volume of water purged ()	
Final Depth to Water (feet)	103.24

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

Name of Certified Analytical Laboratory
AWSL

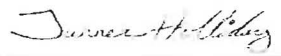
Analytical Samples Information

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

Comments:

Arrived on site at 1410. Samples collected at 1415. Water was clear. Left site at 1420.

Signature of Field Technician



Sheet 4 of 6
White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_03152023
Purge Date & Time	3/15/2023 7:30
Sample Date & Time	3/15/2023 11:05

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.82
Calculated Casing Volumes Purge Duration (min)	210.34
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy and raining
External Ambient Temperature (C)	5
Previous Well Sampled	MW-26

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.05

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/15/2023 11:02	46.00	2281	7.13	14.22	335	0	55.0	
3/15/2023 11:03	46.22	2300	7.14	14.10	335	0	53.0	
3/15/2023 11:04	46.43	2292	7.14	14.13	334	0	52.4	
3/15/2023 11:05	46.65	2289	7.15	14.11	334	0	52.2	

Volume of water purged (gals)	46.65

Final Depth to Water (feet)	77.11

Pumping Rate Calculations

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

Name of Certified Analytical Laboratory
AWSL

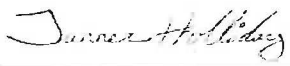
Analytical Samples Information

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

Comments:

Arrived on site at 0725. Purge began at 0730. Purged well for a total of 215 minutes. Purge ended and samples collected at 1105. Water was clear. Left site at 1113.

Signature of Field Technician



Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_03142023
Purge Date & Time	3/14/2023 9:05
Sample Date & Time	3/14/2023 15:15
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.42
Calculated Casing Volumes Purge Duration (min)	363.39
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	March Monthly
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	1
Previous Well Sampled	MW-11
Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.62

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/14/2023 15:12	79.63	3518	7.00	14.58	341	0	112.3	
3/14/2023 15:13	79.85	3509	7.00	14.59	341	0	112.5	
3/14/2023 15:14	80.07	3511	7.01	14.57	340	0	112.5	
3/14/2023 15:15	80.29	3509	7.02	14.57	340	0	112.1	

Volume of water purged (gals)	80.29
Final Depth to Water (feet)	74.94

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

Name of Certified Analytical Laboratory
AWSL

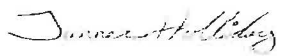
Analytical Samples Information

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 Soilds	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 0900. Purge began at 0905. Purged well for a total of 370 minutes. Purge ended and samples collected at 1515. Water was clear. Left site at 1524.

Signature of Field Technician



Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_03142023
Purge Date & Time	
Sample Date & Time	3/14/2023 13:15

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 ()	

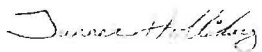
Analytical Samples Information

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
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 Soilds	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Duplicate of MW-11

Signature of Field Technician



Tab D

Quarterly Depth to Water

Name: Tanner Holliday, Deen Lyman, Garrin Palmer

3/24/2023

Date	Time	Well	Depth to Water (ft.)
3/24/2023	900	MW-01	65.07
3/24/2023	920	MW-02	109.66
3/24/2023	1301	MW-03A	84.07
3/24/2023	957	MW-05	108.30
3/24/2023	952	MW-11	85.29
3/24/2023	1001	MW-12	109.66
3/24/2023	1037	MW-14	102.01
3/24/2023	1033	MW-15	105.45
3/24/2023	1145	MW-17	72.10
3/24/2023	1330	MW-18	74.26
3/24/2023	1335	MW-19	66.69
3/24/2023	1223	MW-20	88.03
3/24/2023	1217	MW-22	66.40
3/24/2023	1006	MW-23	113.98
3/24/2023	916	MW-24A	110.67
3/24/2023	913	MW-24	109.73
3/24/2023	948	MW-25	82.02
3/24/2023	830	MW-26	84.33
3/24/2023	908	MW-27	58.75
3/24/2023	925	MW-28	74.74
3/24/2023	929	MW-29	107.26
3/24/2023	934	MW-30	75.50
3/24/2023	939	MW-31	69.74
3/24/2023	944	MW-32	82.86
3/24/2023	1018	MW-33	DRY
3/24/2023	1028	MW-34	107.37
3/24/2023	1010	MW-35	112.52
3/24/2023	1014	MW-36	110.57
3/24/2023	1022	MW-37	106.80
3/24/2023	1210	MW-38	70.22
3/24/2023	1203	MW-39	64.66
3/24/2023	1152	MW-40	79.99

MW-26 = TW4-15

MW-32 = TW4-17

Comments:

Date	Time	Well	Depth to Water (ft.)
3/24/2023	955	MW-04	82.68
3/24/2023	950	TW4-01	102.50
3/24/2023	936	TW4-02	101.11
3/24/2023	715	TW4-03	65.34
3/24/2023	1140	TW4-04	81.06
3/24/2023	844	TW4-05	73.30
3/24/2023	811	TW4-06	80.50
3/24/2023	839	TW4-07	82.89
3/24/2023	840	TW4-08	85.36
3/24/2023	842	TW4-09	71.39
3/24/2023	843	TW4-10	70.72
3/24/2023	931	TW4-11	98.75
3/24/2023	720	TW4-12	56.31
3/24/2023	724	TW4-13	57.32
3/24/2023	734	TW4-14	77.15
3/24/2023	759	TW4-16	74.86
3/24/2023	1200	TW4-18	74.47
3/24/2023	1202	TW4-19	74.07
3/24/2023	815	TW4-21	76.97
3/24/2023	910	TW4-22	69.70
3/24/2023	711	TW4-23	77.03
3/24/2023	849	TW4-24	67.80
3/24/2023	832	TW4-25	70.09
3/24/2023	1003	TW4-26	75.23
3/24/2023	836	TW4-27	79.45
3/24/2023	739	TW4-28	49.84
3/24/2023	750	TW4-29	79.47
3/24/2023	751	TW4-30	75.46
3/24/2023	752	TW4-31	75.94
3/24/2023	744	TW4-32	56.71
3/24/2023	800	TW4-33	79.39
3/24/2023	802	TW4-34	77.97
3/24/2023	1001	TW4-35	76.07
3/24/2023	729	TW4-36	58.56
3/24/2023	915	TW4-37	72.43
3/24/2023	806	TW4-38	61.02
3/24/2023	924	TW4-39	74.60
3/24/2023	1010	TW4-40	72.28
3/24/2023	1003	TW4-41	90.10
3/24/2023	748	TW4-42	70.99
3/24/2023	748	TW4-43	73.22

Date	Time	Well	Depth to Water (ft.)
3/24/2023	750	PIEZ-01	67.66
3/24/2023	756	PIEZ-02	46.91
3/24/2023	1345	PIEZ-03A	54.54
3/24/2023	715	PIEZ-04	67.29
3/24/2023	719	PIEZ-05	65.96
3/24/2023	1450	TWN-01	70.17
3/24/2023	840	TWN-02	65.15
3/24/2023	1354	TWN-03	44.21
3/24/2023	1349	TWN-04	63.19
3/24/2023	1409	TWN-06	81.06
3/24/2023	1405	TWN-07	80.40
3/24/2023	1420	TWN-14	59.36
3/24/2023	1425	TWN-16	48.01
3/24/2023	1358	TWN-18	63.13
3/24/2023	1430	TWN-19	54.51
3/24/2023	1249	TWN-20	78.16
3/24/2023	1245	TWN-21	79.27
3/24/2023	802	DR-05	82.03
3/24/2023	806	DR-06	93.91
3/24/2023	935	DR-07	91.70
3/24/2023	818	DR-08	51.33
3/24/2023	815	DR-09	85.39
3/24/2023	810	DR-10	78.26
3/24/2023	1315	DR-11	97.91
3/24/2023	1310	DR-12	DRY
3/24/2023	1306	DR-13	69.79
3/24/2023	825	DR-14	76.30
3/24/2023	1317	DR-15	92.52
3/24/2023	830	DR-17	64.26
3/24/2023	834	DR-19	63.15
3/24/2023	848	DR-20	55.30
3/24/2023	854	DR-21	103.50
3/24/2023	839	DR-22	DRY
3/24/2023	851	DR-23	73.00
3/24/2023	842	DR-24	44.58

Tab E

Laboratory Analytical Reports – Quarterly Sampling

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Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-11_01252023**
Matrix: **Water**
Lab ID: **23A1877-03**
Date Sampled: **1/25/23 11:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	32.7	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	-3.0	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	30.8	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.13	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	2110	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	248	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	0.332	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	70.7	mg/L	1.00	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.356	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	3.49	mg/L	0.100	EPA 353.2	1/31/23	1/31/23	
Sulfate	1240	mg/L	20.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	2390	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	133	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	44.5	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	0.193	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	7.3	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	0.0175	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	467	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-11_01252023 (cont.)**
Matrix: **Water**
Lab ID: **23A1877-03**
Date Sampled: **1/25/23 11:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0026	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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

Certificate of Analysis

Report Date: March 3, 2023

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_01252023	Project:	DNMI00100
Sample ID:	609284001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	25-JAN-23 11:00		
Receive Date:	03-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.306	0.913	1.00	pCi/L			JXK3	03/01/23	1708	2383311	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

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-12_01262023**
Matrix: **Water**
Lab ID: **23B0151-01**
Date Sampled: **1/26/23 13:05**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved							
Selenium, Dissolved	0.0270	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Uranium, Dissolved	0.0213	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-14_01262023**

Matrix: **Water**
Lab ID: **23A1877-06**
Date Sampled: **1/26/23 10:30**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	49.6	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	3.5	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	53.1	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.13	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	3250	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	373	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	15.2	mg/L	1.00	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.166	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	< 0.100	mg/L	0.100	EPA 353.2	1/31/23	1/31/23	
Sulfate	2000	mg/L	50.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	3680	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	0.0013	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	502	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	159	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	1.81	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	12.2	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	338	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **1/27/23 11:00 @ -1.2** °C
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-14_01262023 (cont.)**
Matrix: **Water**
Lab ID: **23A1877-06**
Date Sampled: **1/26/23 10:30**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0592	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	0.0122	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01262023	Project:	DNMI00100
Sample ID:	609284002	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	26-JAN-23 10:30		
Receive Date:	03-FEB-23		
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	+/-0.311	0.851	1.00	pCi/L			JXK3	03/01/23	1709	2383311	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"			108	(25%-125%)

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-17_01302023**

Matrix: **Water**
Lab ID: **23B0151-02**
Date Sampled: **1/30/23 15:40**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	26.5	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-24_01312023**

Matrix: **Water**
Lab ID: **23B0151-09**
Date Sampled: **1/31/23 10:55**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	57.8	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	-5.4	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	51.9	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.13	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	3750	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	41.6	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.699	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	0.440	mg/L	0.100	EPA 353.2	2/7/23	2/7/23	
Sulfate	2720	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	4220	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	0.0024	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	0.0092	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	412	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	0.103	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	0.0130	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	0.0021	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	172	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	7.00	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	0.0725	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	11.4	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.0153	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	390	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	0.0029	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-24_01312023 (cont.)**

Matrix: **Water**
Lab ID: **23B0151-09**
Date Sampled: **1/31/23 10:55**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0058	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	0.0976	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

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

Certificate of Analysis

Report Date: March 3, 2023

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_01312023	Project:	DNMI00100
Sample ID:	609284003	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	31-JAN-23 10:55		
Receive Date:	03-FEB-23		
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		2.27	+/-0.473	0.907	1.00	pCi/L			JXK3	03/01/23	1709	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8 °C**
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-24A_01312023**

Matrix: **Water**
Lab ID: **23B0151-10**
Date Sampled: **1/31/23 9:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	57.4	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	-9.1	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	47.8	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.10	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	3660	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	42.3	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.911	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	0.357	mg/L	0.100	EPA 353.2	2/7/23	2/7/23	
Sulfate	2700	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	4040	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	0.0035	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	0.0087	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	374	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	0.110	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	0.0152	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	153	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	6.66	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	0.0549	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	10.0	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.0161	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	376	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	0.0026	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-24A_01312023 (cont.)**

Matrix: **Water**
Lab ID: **23B0151-10**
Date Sampled: **1/31/23 9:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0073	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	0.0397	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: March 3, 2023

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_01312023	Project:	DNMI00100
Sample ID:	609284004	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	31-JAN-23 09:20		
Receive Date:	03-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		3.54	+/-0.548	0.930	1.00	pCi/L			JXK3	03/02/23	1103	2383311	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"			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

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Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-25_01232023**
Matrix: **Water**
Lab ID: **23A1877-01**
Date Sampled: **1/23/23 12:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	42.2	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	-3.8	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	39.2	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.04	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	2650	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	335	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	0.429	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	32.4	mg/L	1.00	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.284	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	< 0.100	mg/L	0.100	EPA 353.2	1/31/23	1/31/23	
Sulfate	1660	mg/L	20.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	2750	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	342	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	120	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	1.37	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	0.0154	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	9.3	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	276	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	0.0008	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-25_01232023 (cont.)**

Matrix: **Water**
Lab ID: **23A1877-01**

Date Sampled: **1/23/23 12:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0065	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01232023	Project:	DNMI00100
Sample ID:	609284005	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	23-JAN-23 12:15		
Receive Date:	03-FEB-23		
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	+/-0.275	0.871	1.00	pCi/L			JXK3	03/02/23	1103	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-26_01262023**

Matrix: **Water**
Lab ID: **23A1877-05**
Date Sampled: **1/26/23 9:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	45.2	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	-0.9	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	44.3	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.03	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	2860	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	321	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	0.291	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	51.5	mg/L	1.00	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.279	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	1.82	mg/L	0.100	EPA 353.2	1/31/23	1/31/23	
Sulfate	1790	mg/L	20.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	2950	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	439	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	0.35	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	154	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	0.646	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	10.8	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	216	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

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Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-26_01262023 (cont.)**
Matrix: **Water**
Lab ID: **23A1877-05**
Date Sampled: **1/26/23 9:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0124	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	709	ug/L	10.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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

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Report Date: March 3, 2023

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_01262023	Project:	DNMI00100
Sample ID:	609284006	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	26-JAN-23 09:00		
Receive Date:	03-FEB-23		
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	+/-0.247	0.865	1.00	pCi/L			JXK3	03/02/23	1103	2383311	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"			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

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8 °C**
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-27_01272023**
Matrix: **Water**
Lab ID: **23B0151-03**
Date Sampled: **1/27/23 11:10**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Fluoride	0.685	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	5.25	mg/L	0.200	EPA 353.2	2/7/23	2/7/23	

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PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-28_01272023**

Matrix: **Water**
Lab ID: **23B0151-04**
Date Sampled: **1/27/23 14:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	140	mg/L	2.00	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	4.57	mg/L	0.200	EPA 353.2	2/7/23	2/7/23	
Metals, Dissolved							
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/17/23	2/17/23	
Uranium, Dissolved	0.0155	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	

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PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-29_01272023**

Matrix: **Water**
Lab ID: **23B0151-05**
Date Sampled: **1/27/23 10:05**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved							
Uranium, Dissolved	0.0097	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	

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PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-30_01252023**
Matrix: **Water**
Lab ID: **23A1877-04**
Date Sampled: **1/25/23 14:45**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	23.4	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	0.3	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	23.6	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.21	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	1460	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	147	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	166	mg/L	10.0	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.323	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	18.1	mg/L	1.00	EPA 353.2	1/31/23	1/31/23	
Sulfate	746	mg/L	10.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	1760	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	264	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	73.3	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	6.4	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	0.0688	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	96.3	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

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Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-30_01252023 (cont.)**
Matrix: **Water**
Lab ID: **23A1877-04**
Date Sampled: **1/25/23 14:45**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0108	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01252023	Project:	DNMI00100
Sample ID:	609284007	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	25-JAN-23 14:45		
Receive Date:	03-FEB-23		
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	+/-0.180	0.592	1.00	pCi/L			JXK3	03/01/23	1709	2383311	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

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-31_01242023**

Matrix: **Water**
Lab ID: **23A1877-02**
Date Sampled: **1/24/23 13:05**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	39.2	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	1.8	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	40.6	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.13	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	2410	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	191	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	333	mg/L	20.0	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.638	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	18.7	mg/L	1.00	EPA 353.2	1/31/23	1/31/23	
Sulfate	1230	mg/L	20.0	EPA 300.0	1/31/23	1/31/23	
Total Dissolved Solids (TDS)	2740	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	388	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	186	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	8.1	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	0.103	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	131	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-31_01242023 (cont.)**

Matrix: **Water**
Lab ID: **23A1877-02**
Date Sampled: **1/24/23 13:05**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0254	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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

Certificate of Analysis

Report Date: March 3, 2023

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_01242023	Project:	DNMI00100
Sample ID:	609284008	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	24-JAN-23 13:05		
Receive Date:	03-FEB-23		
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	+/-0.287	0.730	1.00	pCi/L			JXK3	03/01/23	1709	2383311	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"			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

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-32_01302023**

Matrix: **Water**
Lab ID: **23B0151-06**
Date Sampled: **1/30/23 11:50**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	27.9	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	

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PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-36_01302023**

Matrix: **Water**
Lab ID: **23B0151-07**
Date Sampled: **1/30/23 13:25**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	61.2	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	-0.2	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	61.0	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.07	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	4050	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	288	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	0.0740	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	54.7	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.252	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	0.188	mg/L	0.100	EPA 353.2	2/7/23	2/7/23	
Sulfate	2590	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	4340	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	425	mg/L	2.0	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	< 0.20	mg/L	0.20	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	135	mg/L	2.0	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	12.2	mg/L	5.0	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.263	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	653	mg/L	5.0	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	0.0006	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

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Tanner Holliday
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PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-36_01302023 (cont.)**
Matrix: **Water**
Lab ID: **23B0151-07**
Date Sampled: **1/30/23 13:25**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.20	mg/L	0.20	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0227	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01302023	Project:	DNMI00100
Sample ID:	609284009	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	30-JAN-23 13:25		
Receive Date:	03-FEB-23		
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	+/-0.207	0.837	1.00	pCi/L			JXK3	03/02/23	1103	2383311	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

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/2/23 10:40 @ -0.8 °C**
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-38_02012023**

Matrix: **Water**
Lab ID: **23B0151-11**
Date Sampled: **2/1/23 9:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	53.0	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	6.2	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	60.0	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.10	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	3650	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	92.5	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	40.5	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.578	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	15.8	mg/L	0.500	EPA 353.2	2/7/23	2/7/23	
Sulfate	2390	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	4030	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	478	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	195	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	28.3	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.160	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	446	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

Certificate of Analysis

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Tanner Holliday
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Blanding, UT 84511

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-38_02012023 (cont.)**
Matrix: **Water**
Lab ID: **23B0151-11**
Date Sampled: **2/1/23 9:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0059	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_02012023	Project:	DNMI00100
Sample ID:	609284010	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	01-FEB-23 09:00		
Receive Date:	03-FEB-23		
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	+/-0.225	0.796	1.00	pCi/L			JXK3	03/01/23	1709	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

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PO#:
Receipt: **2/2/23 10:40 @ -0.8 °C**
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-39_02012023**

Matrix: **Water**
Lab ID: **23B0151-12**
Date Sampled: **2/1/23 11:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	64.5	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	-2.3	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	61.6	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.02	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	4270	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	0.197	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	35.3	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.556	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	0.118	mg/L	0.100	EPA 353.2	2/7/23	2/7/23	
Sulfate	3050	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	4360	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	0.0045	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	0.0024	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	435	mg/L	2.0	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	0.055	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	0.0208	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	13.0	mg/L	0.20	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	192	mg/L	2.0	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	2.56	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	0.0314	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	14.0	mg/L	5.0	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.0067	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	531	mg/L	5.0	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	0.0038	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-39_02012023 (cont.)**
Matrix: **Water**
Date Sampled: **2/1/23 11:00**
Lab ID: **23B0151-12**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.20	mg/L	0.20	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0103	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	0.154	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

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

Certificate of Analysis

Report Date: March 3, 2023

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_02012023	Project:	DNMI00100
Sample ID:	609284011	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	01-FEB-23 11:00		
Receive Date:	03-FEB-23		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		1.67	+/-0.410	0.966	1.00	pCi/L			JXK3	03/01/23	1710	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-40_01302023**

Matrix: **Water**
Lab ID: **23B0151-08**
Date Sampled: **1/30/23 11:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	49.1	meq/L		SM 1030 E	2/13/23	2/13/23	
Cation/Anion Balance	4.4	%		SM 1030 E	2/13/23	2/13/23	
Cations, Total	53.6	meq/L		SM 1030 E	2/13/23	2/13/23	
TDS Ratio	1.14	None		SM 2340 B	2/13/23	2/13/23	
TDS, Calculated	3270	mg/L	5	SM 2540 C	2/13/23	2/13/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	200	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	2/3/23	2/3/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/13/23	2/13/23	
Chloride	32.1	mg/L	1.00	EPA 300.0	2/6/23	2/7/23	
Fluoride	0.612	mg/L	0.100	EPA 300.0	2/6/23	2/7/23	
Nitrate + Nitrite, Total, as N	2.14	mg/L	0.100	EPA 353.2	2/7/23	2/7/23	
Sulfate	2120	mg/L	50.0	EPA 300.0	2/6/23	2/7/23	
Total Dissolved Solids (TDS)	3740	mg/L	20	SM 2540 C	2/2/23	2/2/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Cadmium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	
Calcium, Dissolved	449	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	2/9/23	2/9/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	2/3/23	2/6/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	2/9/23	2/9/23	
Magnesium, Dissolved	195	mg/L	0.2	EPA 200.7	2/3/23	2/6/23	
Manganese, Dissolved	0.0998	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	2/9/23	2/13/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	2/9/23	2/9/23	
Potassium, Dissolved	8.6	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Selenium, Dissolved	0.209	mg/L	0.0050	EPA 200.8	2/9/23	2/9/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	2/9/23	2/9/23	
Sodium, Dissolved	345	mg/L	0.5	EPA 200.7	2/3/23	2/6/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	2/9/23	2/9/23	

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8 °C**
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-40_01302023 (cont.)**

Matrix: **Water**
Lab ID: **23B0151-08**
Date Sampled: **1/30/23 11:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	2/3/23	2/6/23	
Uranium, Dissolved	0.0215	mg/L	0.0003	EPA 200.8	2/9/23	2/9/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	2/9/23	2/9/23	
Zinc, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	2/9/23	2/9/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01302023	Project:	DNMI00100
Sample ID:	609284012	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	30-JAN-23 11:20		
Receive Date:	03-FEB-23		
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	+/-0.228	0.585	1.00	pCi/L			JXK3	03/02/23	1103	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-65_01262023**

Matrix: **Water**
Lab ID: **23A1877-07**
Date Sampled: **1/26/23 10:30**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	48.1	meq/L		SM 1030 E	2/7/23	2/7/23	
Cation/Anion Balance	6.0	%		SM 1030 E	2/7/23	2/7/23	
Cations, Total	54.2	meq/L		SM 1030 E	2/7/23	2/7/23	
TDS Ratio	1.12	None		SM 2340 B	2/7/23	2/7/23	
TDS, Calculated	3200	mg/L	5	SM 2540 C	2/7/23	2/7/23	
Inorganic							
Alkalinity - Bicarbonate (as CaCO3)	373	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Alkalinity - Carbonate (as CaCO3)	< 1.0	mg/L	1.0	SM 2320 B	1/27/23	1/27/23	
Ammonia as N	< 0.0500	mg/L	0.0500	EPA 350.1	2/2/23	2/2/23	
Chloride	15.1	mg/L	1.00	EPA 300.0	1/31/23	1/31/23	
Fluoride	0.150	mg/L	0.100	EPA 300.0	1/31/23	1/31/23	
Nitrate + Nitrite, Total, as N	< 0.100	mg/L	0.100	EPA 353.2	1/31/23	1/31/23	
Sulfate	1930	mg/L	50.0	EPA 300.0	1/31/23	2/1/23	
Total Dissolved Solids (TDS)	3580	mg/L	20	SM 2540 C	1/27/23	1/27/23	
Metals, Dissolved							
Arsenic, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Cadmium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	
Calcium, Dissolved	512	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Chromium, Dissolved	< 0.0250	mg/L	0.0250	EPA 200.8	1/31/23	1/31/23	
Cobalt, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Copper, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Iron, Dissolved	< 0.03	mg/L	0.03	EPA 200.7	1/30/23	1/30/23	
Lead, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	1/31/23	1/31/23	
Magnesium, Dissolved	162	mg/L	0.2	EPA 200.7	1/30/23	1/30/23	
Manganese, Dissolved	1.86	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Mercury, Dissolved	< 0.00050	mg/L	0.00050	EPA 245.1	1/31/23	2/1/23	
Molybdenum, Dissolved	< 0.0100	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Nickel, Dissolved	< 0.0200	mg/L	0.0200	EPA 200.8	1/31/23	1/31/23	
Potassium, Dissolved	12.4	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Selenium, Dissolved	< 0.0050	mg/L	0.0050	EPA 200.8	1/31/23	1/31/23	
Silver, Dissolved	< 0.010	mg/L	0.010	EPA 200.8	1/31/23	1/31/23	
Sodium, Dissolved	345	mg/L	0.5	EPA 200.7	1/30/23	1/30/23	
Thallium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	1/31/23	1/31/23	

Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **MW-65_01262023 (cont.)**

Matrix: **Water**
Lab ID: **23A1877-07**
Date Sampled: **1/26/23 10:30**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Metals, Dissolved (cont.)							
Tin, Dissolved	< 0.10	mg/L	0.10	EPA 200.7	1/30/23	1/30/23	
Uranium, Dissolved	0.0634	mg/L	0.0003	EPA 200.8	1/31/23	1/31/23	
Vanadium, Dissolved	< 0.0150	mg/L	0.0150	EPA 200.8	1/31/23	1/31/23	
Zinc, Dissolved	0.0133	mg/L	0.0100	EPA 200.8	1/31/23	1/31/23	
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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Certificate of Analysis

Report Date: March 3, 2023

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_01262023	Project:	DNMI00100
Sample ID:	609284013	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	26-JAN-23 10:30		
Receive Date:	03-FEB-23		
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	+/-0.186	0.812	1.00	pCi/L			JXK3	03/01/23	1710	2383311	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

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

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

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

Column headers are defined as follows:

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

CHEMTECH-FORD LABORATORIES

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

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2** °C
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **Trip Blank**

Matrix: **Water**
Lab ID: **23A1877-08**
Date Sampled: **1/23/23 12:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	1/30/23	1/30/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	1/30/23	1/30/23	

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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

Sample ID: **Trip Blank**

Matrix: **Water**
Lab ID: **23B0151-13**
Date Sampled: **1/30/23 11:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Volatile Organic Compounds							
Acetone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methyl Ethyl Ketone	< 20.0	ug/L	20.0	EPA 8260D /5030A	2/3/23	2/3/23	
Methylene Chloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	J-LOW-L
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/3/23	2/3/23	

CHEMTECH-FORD
LABORATORIES

2/9/2023

Work Order: 23A1877
Project: 1st Quarter Ground Water 2023

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.

NELAP ACCREDITED TNI LABORATORY

Approved By:

Melissa Connolly, Project Manager

Chemtech-Ford Laboratories
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Sandy, UT 84070
O:(801) 262-7299 F: (866) 792-0093
www.ChemtechFord.com

Energy Fuels Resources, Inc.

Project: 1st Quarter Ground Water 2023
Project Manager: Tanner Holliday

Laboratory ID	Sample Name
23A1877-01	MW-25_01232023
23A1877-02	MW-31_01242023
23A1877-03	MW-11_01252023
23A1877-04	MW-30_01252023
23A1877-05	MW-26_01262023
23A1877-06	MW-14_01262023
23A1877-07	MW-65_01262023
23A1877-08	Trip Blank

Work Order Report Narrative

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

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

Laboratory Control Samples
All laboratory control samples were within method acceptance criteria.

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

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

Corrective Actions
There are no corrective actions associated with this work order.

Certificate of Analysis

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

PO#:
Receipt: **1/27/23 11:00 @ -1.2 °C**
Date Reported: 2/9/2023
Project Name: **1st Quarter Ground Water 2023**

Report Footnotes

Abbreviations

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

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

CHAIN OF CUSTODY

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

AWAL Lab Sample Set #
Page 1 of 1

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		

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 2023**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

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:
1 Shipped or hand delivered UPS
2 Ambient or Chilled
3 Temperature -1.0 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

	23A1877 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, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1	MW-25_01232023	01	1/23/2023	1215	7	W	x	x	x	x	x	x	x	x	x	x	
2	MW-31_01242023	02	1/24/2023	1305	7	W	x	x	x	x	x	x	x	x	x	x	
3	MW-11_01252023	03	1/25/2023	1100	7	W	x	x	x	x	x	x	x	x	x	x	
4	MW-30_01252023	04	1/25/2023	1445	7	W	x	x	x	x	x	x	x	x	x	x	
5	MW-26_01262023	05	1/26/2023	900	7	W	x	x	x	x	x	x	x	x	x	x	
6	MW-14_01262023	06	1/26/2023	1030	7	W	x	x	x	x	x	x	x	x	x	x	
7	MW-65_01262023	07	1/26/2023	1030	7	W	x	x	x	x	x	x	x	x	x	x	
8	TRIP BLANK	08	1/23/2023	1215	3	W										x	
9																	
10																	
11																	
12																	

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1100	Print Name: Aimee Rost	Time: 1100
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

Work Order # 23A1877

CHEMTECH FORD LABORATORIES

Sample Receipt

CHEMTECH-FORD LABORATORIES

Delivery Method:

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

Receiving Temperature -1.2 °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
01-07	Ag (2)	1230						
	M	1248						
	N	1232						
	W(3)	1235						
08	W(3)	1235						

Sample Condition
(check if *yes*)

- ☑ Custody Seals
- ☑ Containers Intact
- ☐ COC can be matched to bottles
- ☐ Received on Ice
- ☑ Correct Containers(s)
- ☑ Sufficent 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/TOX (H3PO4)
- U- 531 (MCAA, Na2S2O3)
- V- 524/THMs (Ascorbic Acid)
- W- 8260 VOC (1:1 HCl)
- X- Vial Unpreserved
- Y- 624/504 (Na2S2O3)
- Z- Miscellaneous Glass

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.7									
QC Sample ID: BXA1101-BLK1	Batch: BXA1101								
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: mg/L			
Calcium, Dissolved					ND			0.2	1.00
Iron, Dissolved					ND			0.03	1.00
Magnesium, Dissolved					ND			0.2	1.00
Potassium, Dissolved					ND			0.5	1.00
Sodium, Dissolved					ND			0.5	1.00
Tin, Dissolved					ND			0.10	1.00
LCS - EPA 200.7									
QC Sample ID: BXA1101-BS1	Batch: BXA1101								
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: mg/L			
Calcium, Dissolved	95.0		85 - 115		9.7		10.2	0.2	1.00
Iron, Dissolved	90.6		85 - 115		0.181		0.200	0.02	1.00
Magnesium, Dissolved	98.3		85 - 115		10.0		10.2	0.2	1.00
Potassium, Dissolved	102		85 - 115		10.2		10.0	0.5	1.00
Sodium, Dissolved	97.5		85 - 115		9.8		10.0	0.5	1.00
Tin, Dissolved	102		85 - 155		0.20		0.200	0.02	1.00
Matrix Spike - EPA 200.7									
QC Sample ID: BXA1101-MS1	Batch: BXA1101				QC Source Sample: 23A1877-01				
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: mg/L			
Calcium, Dissolved	124		70 - 130		355	342	10.2	0.2	1.00
Iron, Dissolved	91.8		70 - 130		0.184	ND	0.200	0.02	1.00
Magnesium, Dissolved	117		70 - 130		132	120	10.2	0.2	1.00
Potassium, Dissolved	108		70 - 130		20.1	9.3	10.0	0.5	1.00
Sodium, Dissolved	112		70 - 130		288	276	10.0	0.5	1.00
Tin, Dissolved	100		70 - 130		0.23	0.03	0.200	0.02	1.00
Matrix Spike Dup - EPA 200.7									
QC Sample ID: BXA1101-MSD1	Batch: BXA1101				QC Source Sample: 23A1877-01				
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: mg/L			
Calcium, Dissolved	139	0.436	70 - 130	20	356	342	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	92.8	1.19	70 - 130	20	0.186	ND	0.200	0.02	1.00
Magnesium, Dissolved	123	0.438	70 - 130	20	133	120	10.2	0.2	1.00
Potassium, Dissolved	109	0.485	70 - 130	20	20.2	9.3	10.0	0.5	1.00
Sodium, Dissolved	124	0.423	70 - 130	20	289	276	10.0	0.5	1.00
Tin, Dissolved	93.4	6.00	70 - 130	20	0.22	0.03	0.200	0.02	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.8									
QC Sample ID: BXA1128-BLK1	Batch: BXA1128								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023				Units: mg/L				
Arsenic, Dissolved					ND			0.0050	1.00
Beryllium, Dissolved					ND			0.0005	1.00
Cadmium, Dissolved					ND			0.0005	1.00
Chromium, Dissolved					ND			0.0250	1.00
Cobalt, Dissolved					ND			0.010	1.00
Copper, Dissolved					ND			0.0100	1.00
Lead, Dissolved					ND			0.0010	1.00
Manganese, Dissolved					ND			0.0100	1.00
Molybdenum, Dissolved					ND			0.0100	1.00
Nickel, Dissolved					ND			0.0200	1.00
Selenium, Dissolved					ND			0.0050	1.00
Silver, Dissolved					ND			0.010	1.00
Thallium, Dissolved					ND			0.0005	1.00
Uranium, Dissolved					ND			0.0003	1.00
Vanadium, Dissolved					ND			0.0150	1.00
Zinc, Dissolved					ND			0.0100	1.00
LCS - EPA 200.8									
QC Sample ID: BXA1128-BS1	Batch: BXA1128								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023				Units: mg/L				
Arsenic, Dissolved	104		85 - 115		0.042		0.0400	0.0005	1.00
Beryllium, Dissolved	109		85 - 115		0.044		0.0400	0.0005	1.00
Cadmium, Dissolved	102		85 - 115		0.041		0.0400	0.0002	1.00
Chromium, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Cobalt, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Copper, Dissolved	97.2		85 - 115		0.039		0.0400	0.0010	1.00
Lead, Dissolved	103		85 - 115		0.041		0.0400	0.0005	1.00
Manganese, Dissolved	104		85 - 115		0.042		0.0400	0.0005	1.00
Molybdenum, Dissolved	99.0		85 - 115		0.040		0.0400	0.0005	1.00
Nickel, Dissolved	102		85 - 115		0.0406		0.0400	0.0005	1.00
Selenium, Dissolved	104		85 - 115		0.042		0.0400	0.0005	1.00
Silver, Dissolved	95.5		85 - 115		0.038		0.0400	0.0005	1.00
Thallium, Dissolved	109		85 - 115		0.044		0.0400	0.0002	1.00
Uranium, Dissolved	104		85 - 115		0.042		0.0400	0.0003	1.00
Vanadium, Dissolved	106		85 - 115		0.042		0.0400	0.0005	1.00
Zinc, Dissolved	102		85 - 115		0.041		0.0400	0.0100	1.00
Matrix Spike - EPA 200.8									
QC Sample ID: BXA1128-MS1	Batch: BXA1128				QC Source Sample: 23A1877-01				
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023				Units: mg/L				
Arsenic, Dissolved	110		70 - 130		0.044	0.0003	0.0400	0.0005	1.00
Beryllium, Dissolved	109		70 - 130		0.044	ND	0.0400	0.0005	1.00
Cadmium, Dissolved	98.6		70 - 130		0.041	0.001	0.0400	0.0002	1.00
Chromium, Dissolved	99.0		70 - 130		0.042	0.002	0.0400	0.0005	1.00
Cobalt, Dissolved	98.5		70 - 130		0.048	0.009	0.0400	0.0005	1.00
Copper, Dissolved	88.2		70 - 130		0.037	0.001	0.0400	0.0010	1.00
Lead, Dissolved	93.8		70 - 130		0.038	ND	0.0400	0.0005	1.00
Manganese, Dissolved	-37.6		70 - 130		1.35	1.37	0.0400	0.0005	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Molybdenum, Dissolved	104		70 - 130		0.057	0.015	0.0400	0.0005	1.00

Matrix Spike - EPA 200.8 (cont.)

QC Sample ID: BXA1128-MS1 Batch: BXA1128 QC Source Sample: 23A1877-01

Date Prepared: 01/31/2023 Date Analyzed: 01/31/2023 Units: mg/L

Analyte	% Rec	RPD Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Nickel, Dissolved	92.3	75 - 125		0.0455	0.0086	0.0400	0.0005	1.00
Selenium, Dissolved	123	70 - 130		0.050	0.001	0.0400	0.0005	1.00
Silver, Dissolved	80.1	70 - 130		0.032	ND	0.0400	0.0005	1.00
Thallium, Dissolved	102	70 - 130		0.042	0.0008	0.0400	0.0002	1.00
Uranium, Dissolved	101	70 - 130		0.047	0.006	0.0400	0.0003	1.00
Vanadium, Dissolved	105	70 - 130		0.043	0.0008	0.0400	0.0005	1.00
Zinc, Dissolved	91.2	70 - 130		0.041	0.005	0.0400	0.0100	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 245.1									
QC Sample ID: BXA1151-BLK1	Batch: BXA1151								
Date Prepared: 01/31/2023	Date Analyzed: 02/01/2023					Units: mg/L			
Mercury, Dissolved					ND			0.00050	1.00
LCS - EPA 245.1									
QC Sample ID: BXA1151-BS1	Batch: BXA1151								
Date Prepared: 01/31/2023	Date Analyzed: 02/01/2023					Units: mg/L			
Mercury, Dissolved	82.1		85 - 115		0.00410		0.00500	0.00015	1.00
QM-11 - The Laboratory Control Sample recovery was outside acceptance limits. The analytical batch was accepted based on the recovery of the Method Spike.									
Matrix Spike - EPA 245.1									
QC Sample ID: BXA1151-MS1	Batch: BXA1151				QC Source Sample: 23A1877-01				
Date Prepared: 01/31/2023	Date Analyzed: 02/01/2023					Units: mg/L			
Mercury, Dissolved	93.6		75 - 125		0.00478	0.00010	0.00500	0.00015	1.00
Matrix Spike Dup - EPA 245.1									
QC Sample ID: BXA1151-MSD1	Batch: BXA1151				QC Source Sample: 23A1877-01				
Date Prepared: 01/31/2023	Date Analyzed: 02/01/2023					Units: mg/L			
Mercury, Dissolved	80.6	14.6	75 - 125	20	0.00413	0.00010	0.00500	0.00015	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BXA1141-BLK1	Batch: BXA1141								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Chloride					ND			1.00	1.00
Fluoride					ND			0.100	1.00
Sulfate					ND			1.00	1.00
LCS - EPA 300.0									
QC Sample ID: BXA1141-BS1	Batch: BXA1141								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Chloride	95.8		90 - 110		47.9		50.0	1.00	1.00
Fluoride	92.8		90 - 110		4.64		5.00	0.100	1.00
Sulfate	94.0		90 - 110		47.0		50.0	1.00	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BXA1141-MS1	Batch: BXA1141				QC Source Sample: 23A1877-01				
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Chloride	74.5		80 - 120		181	32.4	200	22.0	1.00
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Fluoride	95.6		80 - 120		19.1	ND	20.0	2.20	1.00
Sulfate	74.3		80 - 120		1810	1660	200	22.0	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BXA1141-MSD1	Batch: BXA1141				QC Source Sample: 23A1877-01				
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Chloride	74.9	0.506	80 - 120	20	182	32.4	200	22.0	1.00
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Fluoride	95.6	0.0460	80 - 120	20	19.1	ND	20.0	2.20	1.00
Sulfate	73.2	0.125	80 - 120	20	1810	1660	200	22.0	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.									

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 350.1									
QC Sample ID: BXB0059-BLK1	Batch: BXB0059								
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Ammonia as N					ND			0.0500	1.00
LCS - EPA 350.1									
QC Sample ID: BXB0059-BS1	Batch: BXB0059								
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Ammonia as N	98.9		90 - 110		0.989		1.00	0.0500	1.00
Matrix Spike - EPA 350.1									
QC Sample ID: BXB0059-MS1	Batch: BXB0059			QC Source Sample: 23A1877-01					
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Ammonia as N	109		80 - 120		1.52	0.429	1.00	0.250	5.00
Matrix Spike Dup - EPA 350.1									
QC Sample ID: BXB0059-MSD1	Batch: BXB0059			QC Source Sample: 23A1877-01					
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Ammonia as N	114	3.46	80 - 120	20	1.57	0.429	1.00	0.250	5.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BXA1133-BLK1	Batch: BXA1133								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BXA1133-BS1	Batch: BXA1133								
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	108		80 - 120		2.17		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BXA1133-MS1	Batch: BXA1133			QC Source Sample: XXXXXXX-XX					
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	104		80 - 120		2.56	1.52	1.00	0.100	1.00
QC Sample ID: BXA1133-MS2	Batch: BXA1133			QC Source Sample: 23A1877-01					
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	106		80 - 120		1.09	0.0380	1.00	0.100	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BXA1133-MSD1	Batch: BXA1133			QC Source Sample: XXXXXXX-XX					
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	113	3.68	80 - 120	20	2.66	1.52	1.00	0.100	1.00
QC Sample ID: BXA1133-MSD2	Batch: BXA1133			QC Source Sample: 23A1877-01					
Date Prepared: 01/31/2023	Date Analyzed: 01/31/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	107	1.00	80 - 120	20	1.10	0.0380	1.00	0.100	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BXA1130-BLK1	Batch: BXA1130								
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: ug/L			
Acetone					ND			20.0	1.00
Benzene					ND			1.0	1.00
Carbon Tetrachloride					ND			1.0	1.00
Chloroform					ND			1.0	1.00
Chloromethane					ND			1.0	1.00
Methyl Ethyl Ketone					ND			20.0	1.00
Methylene Chloride					ND			1.0	1.00
Naphthalene					ND			1.0	1.00
Tetrahydrofuran					ND			1.0	1.00
Toluene					ND			1.0	1.00
Xylenes, total					ND			1.0	1.00
LCS - EPA 8260D /5030A									
QC Sample ID: BXA1130-BS1	Batch: BXA1130								
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: ug/L			
Acetone	103		70 - 130		103		100	10.0	1.00
Benzene	97.9		70 - 130		9.79		10.0	1.0	1.00
Carbon Tetrachloride	98.7		70 - 130		9.87		10.0	1.0	1.00
Chloroform	89.7		70 - 130		8.97		10.0	1.0	1.00
Chloromethane	74.0		70 - 130		7.40		10.0	1.0	1.00
Methyl Ethyl Ketone			70 - 130		ND		10.0	10.0	1.00
Methylene Chloride	98.8		70 - 130		9.88		10.0	1.0	1.00
Naphthalene	115		70 - 130		11.5		10.0	1.0	1.00
Tetrahydrofuran	83.0		70 - 130		16.6		20.0	1.0	1.00
Toluene	99.9		70 - 130		9.99		10.0	1.0	1.00
Xylenes, total	99.2		70 - 130		29.8		30.0	1.0	1.00
Matrix Spike - EPA 8260D /5030A									
QC Sample ID: BXA1130-MS1	Batch: BXA1130					QC Source Sample: 23A1877-01			
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: ug/L			
Acetone	83.2		70 - 130		416	ND	500	50.0	1.00
Benzene	86.1		70 - 130		43.0	ND	50.0	5.0	1.00
Carbon Tetrachloride	88.6		70 - 130		44.3	ND	50.0	5.0	1.00
Chloroform	79.8		70 - 130		39.9	ND	50.0	5.0	1.00
Chloromethane	68.4		70 - 130		34.2	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									
Methyl Ethyl Ketone			70 - 130		ND	ND	50.0	50.0	1.00
Methylene Chloride	86.6		70 - 130		43.3	ND	50.0	5.0	1.00
Naphthalene	85.7		70 - 130		42.8	ND	50.0	5.0	1.00
Tetrahydrofuran	75.2		70 - 130		75.2	ND	100	5.0	1.00
Toluene	87.9		70 - 130		44.0	ND	50.0	5.0	1.00
Xylenes, total	89.4		70 - 130		134	ND	150	5.0	1.00
Matrix Spike Dup - EPA 8260D /5030A									
QC Sample ID: BXA1130-MSD1	Batch: BXA1130					QC Source Sample: 23A1877-01			
Date Prepared: 01/30/2023	Date Analyzed: 01/30/2023					Units: ug/L			
Acetone	88.0	5.62	70 - 130	20	440	ND	500	50.0	1.00
Benzene	86.3	0.232	70 - 130	20	43.2	ND	50.0	5.0	1.00
Carbon Tetrachloride	87.0	1.82	70 - 130	20	43.5	ND	50.0	5.0	1.00
Chloroform	82.3	3.08	70 - 130	20	41.2	ND	50.0	5.0	1.00
Chloromethane	71.9	4.99	70 - 130	20	36.0	ND	50.0	5.0	1.00
Methyl Ethyl Ketone			70 - 130	20	ND	ND	50.0	50.0	1.00

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

QC Sample ID: BXA1130-MSD1 Batch: BXA1130 QC Source Sample: 23A1877-01

Date Prepared: 01/30/2023 Date Analyzed: 01/30/2023 Units: ug/L

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Methylene Chloride	91.0	4.95	70 - 130	20	45.5	ND	50.0	5.0	1.00
Naphthalene	96.5	11.9	70 - 130	20	48.2	ND	50.0	5.0	1.00
Tetrahydrofuran	85.8	13.2	70 - 130	20	85.8	ND	100	5.0	1.00
Toluene	86.9	1.14	70 - 130	20	43.4	ND	50.0	5.0	1.00
Xylenes, total	87.5	2.11	70 - 130	20	131	ND	150	5.0	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2320 B									
QC Sample ID: BXA1038-BLK1	Batch: BXA1038								
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Duplicate - SM 2320 B									
QC Sample ID: BXA1038-DUP1	Batch: BXA1038		QC Source Sample: 23A1877-01						
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Alkalinity - Bicarbonate (as CaCO3)		14.2		20	291	335		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)		14.2		20	291	335		1.0	1.00
LCS - SM 2320 B									
QC Sample ID: BXA1038-BS1	Batch: BXA1038								
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Alkalinity - Total (as CaCO3)	99.0		90 - 110		234		236	1.0	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2540 C									
QC Sample ID: BXA1056-BLK1	Batch: BXA1056								
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Total Dissolved Solids (TDS)					ND			10	1.00
Duplicate - SM 2540 C									
QC Sample ID: BXA1056-DUP1	Batch: BXA1056		QC Source Sample: 23A1877-01						
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Total Dissolved Solids (TDS)		1		10	2720	2750		20	1.00
QC Sample ID: BXA1056-DUP2	Batch: BXA1056		QC Source Sample: XXXXXXX-XX						
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Total Dissolved Solids (TDS)		0		10	228	228		20	1.00
LCS - SM 2540 C									
QC Sample ID: BXA1056-BS1	Batch: BXA1056								
Date Prepared: 01/27/2023	Date Analyzed: 01/27/2023					Units: mg/L			
Total Dissolved Solids (TDS)		109	90 - 110		436		400	20	1.00

Surrogates Report for Work Order (WO) - 23A1877

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BXA1130-BLK1	1,2-Dichloroethane-d4	106	64.2	126	10.6	10.0	BXA1130	1.00
BXA1130-BLK1	4-Bromofluorobenzene	99.3	71.4	125	9.93	10.0	BXA1130	1.00
BXA1130-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BXA1130	1.00
LCS - EPA 8260D /5030A								
BXA1130-BS1	1,2-Dichloroethane-d4	95.7	64.2	126	9.57	10.0	BXA1130	1.00
BXA1130-BS1	4-Bromofluorobenzene	97.7	71.4	125	9.77	10.0	BXA1130	1.00
BXA1130-BS1	Toluene-d8	100	63.2	129	10.0	10.0	BXA1130	1.00
Matrix Spike - EPA 8260D /5030A								
BXA1130-MS1	1,2-Dichloroethane-d4	94.6	64.2	126	47.3	50.0	BXA1130	1.00
BXA1130-MS1	4-Bromofluorobenzene	97.1	71.4	125	48.6	50.0	BXA1130	1.00
BXA1130-MS1	Toluene-d8	100	63.2	129	50.2	50.0	BXA1130	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BXA1130-MSD1	1,2-Dichloroethane-d4	95.5	64.2	126	47.8	50.0	BXA1130	1.00
BXA1130-MSD1	4-Bromofluorobenzene	97.5	71.4	125	48.8	50.0	BXA1130	1.00
BXA1130-MSD1	Toluene-d8	100	63.2	129	50.0	50.0	BXA1130	1.00

Surrogate Recoveries (Field Samples)

LabNumber	Analyte	Result	SpkLvl	%Rec	LCL	UCL	Qualifier
8260 Low Level Volatiles							
23A1877-01	4-Bromofluorobenzene	10.5	10.0	105	71.4	125	
23A1877-01	Toluene-d8	9.94	10.0	99.4	63.2	129	
23A1877-01	1,2-Dichloroethane-d4	9.48	10.0	94.8	64.2	126	
8260 Low Level Volatiles							
23A1877-02	1,2-Dichloroethane-d4	9.67	10.0	96.7	64.2	126	
23A1877-02	4-Bromofluorobenzene	10.2	10.0	102	71.4	125	
23A1877-02	Toluene-d8	9.74	10.0	97.4	63.2	129	
8260 Low Level Volatiles							
23A1877-03	1,2-Dichloroethane-d4	9.60	10.0	96.0	64.2	126	
23A1877-03	4-Bromofluorobenzene	10.0	10.0	100	71.4	125	
23A1877-03	Toluene-d8	9.75	10.0	97.5	63.2	129	
8260 Low Level Volatiles							
23A1877-04	Toluene-d8	9.86	10.0	98.6	63.2	129	
23A1877-04	1,2-Dichloroethane-d4	9.82	10.0	98.2	64.2	126	
23A1877-04	4-Bromofluorobenzene	10.2	10.0	102	71.4	125	
8260 Low Level Volatiles							
23A1877-05	4-Bromofluorobenzene	10.6	10.0	106	71.4	125	
23A1877-05	Toluene-d8	10.0	10.0	100	63.2	129	
23A1877-05	1,2-Dichloroethane-d4	9.95	10.0	99.5	64.2	126	
8260 Low Level Volatiles							
23A1877-06	1,2-Dichloroethane-d4	9.62	10.0	96.2	64.2	126	
23A1877-06	4-Bromofluorobenzene	10.0	10.0	100	71.4	125	
23A1877-06	Toluene-d8	9.80	10.0	98.0	63.2	129	
8260 Low Level Volatiles							
23A1877-07	1,2-Dichloroethane-d4	9.38	10.0	93.8	64.2	126	
23A1877-07	4-Bromofluorobenzene	10.0	10.0	100	71.4	125	
23A1877-07	Toluene-d8	9.62	10.0	96.2	63.2	129	
8260 Low Level Volatiles							
23A1877-08	Toluene-d8	9.88	10.0	98.8	63.2	129	
23A1877-08	1,2-Dichloroethane-d4	10.0	10.0	100	64.2	126	

23A1877-08	4-Bromofluorobenzene	10.3	10.0	103	71.4	125

CHEMTECH-FORD
LABORATORIES

2/17/2023

Work Order: 23B0151
Project: 1st Quarter Ground Water 2023

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.

NELAP ACCREDITED TNI LABORATORY

Approved By:

Melissa Connolly, Project Manager

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

Energy Fuels Resources, Inc.

Project: 1st Quarter Ground Water 2023
Project Manager: Tanner Holliday

Laboratory ID	Sample Name
23B0151-01	MW-12_01262023
23B0151-02	MW-17_01302023
23B0151-03	MW-27_01272023
23B0151-04	MW-28_01272023
23B0151-05	MW-29_01272023
23B0151-06	MW-32_01302023
23B0151-07	MW-36_01302023
23B0151-08	MW-40_01302023
23B0151-09	MW-24_01312023
23B0151-10	MW-24A_01312023
23B0151-11	MW-38_02012023
23B0151-12	MW-39_02012023
23B0151-13	Trip Blank

Work Order Report Narrative

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

Method Blanks
All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order, with the following exception: Sodium was observed above the reporting limit in BXB0130-BLK1. The data is acceptable as the concentration in the method blank is less than 10% of the sample results, which makes the concentration in the method blank negligible according to method criteria.

Laboratory Control Samples
All laboratory control samples were within method acceptance criteria, except as noted by qualifying flags. Batch BXB0164 had low LCS recoveries for Carbon Tetrachloride and Naphthalene. It is important to note that certain flags on an individual analyte do not constitute failure of the method as a whole. EPA methodologies recognize that it may not be possible for every compound to meet all recovery or percent difference criteria. The batch passed required method criteria for these analytes.

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.

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9632 South 500 West
Sandy, UT 84070
O:(801) 262-7299 F: (866) 792-0093
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Certificate of Analysis

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

PO#:
Receipt: **2/2/23 10:40 @ -0.8** °C
Date Reported: 2/17/2023
Project Name: **1st Quarter Ground Water 2023**

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.

Flag Descriptions

J-LOW-L = Estimated low due to low recovery of LCS

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

23B0151
AWAL Lab Sample Set #
Page 1 of 2

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

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 2023**
Project #:	
PO #:	
Sampler Name:	**Tanner Holliday**

	23B0151 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_01262023	1/26/2023	1305	1	W				X		X								
2	MW-17_01302023	1/30/2023	1540	1	W		X												
3	MW-27_01272023	1/27/2023	1110	2	W	X								X					
4	MW-28_01272023	1/27/2023	1400	3	W	X	X		X		X								
5	MW-29_01272023	1/27/2023	1005	1	W				X										
6	MW-32_01302023	1/30/2023	1150	1	W		X												

X Include EDD:
LOCUS UPLOAD EXCEL
X Field Filtered For:
Dissolved Metals

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

Laboratory Use Only

Samples Were: ~~Fed-X~~ UPS
Shipped or hand delivered
Ambient or Chilled
Temperature -0.8 °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	Date:	Received by: Signature	Date:
Tanner Holliday	2/1/2023		
Print Name: Tanner Holliday	Time: 1130	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 2/2/23
	Time:	Print Name: Erin Hayden	Time: 1045
Relinquished by: Signature	Date:	Received by: Signature	Date:
	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
	Time:	Print Name:	Time:

Special Instructions:

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

UPS GROUND
TRACKING #: 1Z 187 Y4Y 03 9079 3078

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

23B0151
AWAL Lab Sample Set #

Page 2 of 2

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.

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		

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 2023**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

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:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 0.8 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	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, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
7	MW-36_01302023	1/30/2023	1325	7	W	x	x	x	x	x	x	x	x	x	x	
8	MW-40_01302023	1/30/2023	1120	7	W	x	x	x	x	x	x	x	x	x	x	
9	MW-24_01312023	1/31/2023	1055	7	W	x	x	x	x	x	x	x	x	x	x	
10	MW-24A_01312023	1/31/2023	920	7	W	x	x	x	x	x	x	x	x	x	x	
11	MW-38_02012023	2/1/2023	900	7	W	x	x	x	x	x	x	x	x	x	x	
12	MW-39_02012023	2/1/2023	1100	7	W	x	x	x	x	x	x	x	x	x	x	
13	TRIP BLANK	1/30/2023	1120	3	W										x	
14																
15																
16																
17																
18																

Relinquished by: Signature	Date	Received by: Signature	Date
Print Name: Tanner Holliday	Time: 1130	Print Name	Time:
Relinquished by: Signature	Date	Received by: Signature	Date: 2/2/23
Print Name	Time:	Print Name	Time: 1010
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time	Print Name	Time
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time

Special Instructions:

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

Work Order # 23B0151

CHEMTECH FORD LABORATORIES
Sample Receipt

CHEMTECH-FORD LABORATORIES

Delivery Method:

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

Receiving Temperature −0.8 °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	m	1248						
02	Ap	1230						
03	Ap	1230						
	N	1232						
04	Ap	1230						
	N	1232						
	m	1248						
05	m	1248						
06	Ap	1230						
07-12	Ap(2)	1230						
	N	1232						
	m	1248						
	w(3)	1235						
13	w(3)	1235						

Sample Condition
(check if *yes*)

- ☒ Custody Seals
- ☒ Containers Intact
- ☒ COC can be matched to bottles
- ☒ Received on Ice
- ☒ Correct Containers(s)
- ☒ Sufficent 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/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.7									
QC Sample ID: BXB0130-BLK1	Batch: BXB0130								
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved					ND			0.2	1.00
Iron, Dissolved					ND			0.03	1.00
Magnesium, Dissolved					ND			0.2	1.00
Potassium, Dissolved					ND			0.5	1.00
Sodium, Dissolved					0.8			0.5	1.00
QB-01 - The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.									
Tin, Dissolved					ND			0.10	1.00
LCS - EPA 200.7									
QC Sample ID: BXB0130-BS1	Batch: BXB0130								
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved	99.1		85 - 115		10.1		10.2	0.2	1.00
Iron, Dissolved	87.8		85 - 115		0.176		0.200	0.02	1.00
Magnesium, Dissolved	100		85 - 115		10.2		10.2	0.2	1.00
Potassium, Dissolved	100		85 - 115		10.0		10.0	0.5	1.00
Sodium, Dissolved	101		85 - 115		10.1		10.0	0.5	1.00
Tin, Dissolved	88.4		85 - 155		0.18		0.200	0.02	1.00
Matrix Spike - EPA 200.7									
QC Sample ID: BXB0130-MS1	Batch: BXB0130				QC Source Sample: 23B0151-07				
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved	101		70 - 130		435	425	10.2	0.2	1.00
Iron, Dissolved	93.2		70 - 130		0.186	ND	0.200	0.02	1.00
Magnesium, Dissolved	139		70 - 130		149	135	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Potassium, Dissolved	80.3		70 - 130		20.2	12.2	10.0	0.5	1.00
Sodium, Dissolved	82.9		70 - 130		661	653	10.0	0.5	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	96.6		70 - 130		0.19	ND	0.200	0.02	1.00
QC Sample ID: BXB0130-MS2	Batch: BXB0130				QC Source Sample: XXXXXXX-XX				
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved	94.3		70 - 130		90.8	81.2	10.2	0.2	1.00
Iron, Dissolved	81.4		70 - 130		0.203	0.041	0.200	0.02	1.00
Magnesium, Dissolved	99.0		70 - 130		25.1	15.0	10.2	0.2	1.00
Potassium, Dissolved	102		70 - 130		11.6	1.4	10.0	0.5	1.00
Sodium, Dissolved	99.3		70 - 130		28.6	18.7	10.0	0.5	1.00
Tin, Dissolved	95.6		70 - 130		0.19	ND	0.200	0.02	1.00
Matrix Spike Dup - EPA 200.7									
QC Sample ID: BXB0130-MSD1	Batch: BXB0130				QC Source Sample: 23B0151-07				
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved	37.0	1.51	70 - 130	20	429	425	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	90.4	3.05	70 - 130	20	0.181	ND	0.200	0.02	1.00
Magnesium, Dissolved	115	1.65	70 - 130	20	146	135	10.2	0.2	1.00
Potassium, Dissolved	77.8	1.26	70 - 130	20	19.9	12.2	10.0	0.5	1.00

Matrix Spike Dup - EPA 200.7 (cont.)

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BXB0130-MSD1	Batch: BXB0130		QC Source Sample: 23B0151-07						
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Sodium, Dissolved	-26.9	1.67	70 - 130	20	650	653	10.0	0.5	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Tin, Dissolved	105	8.24	70 - 130	20	0.21	ND	0.200	0.02	1.00
QC Sample ID: BXB0130-MSD2	Batch: BXB0130		QC Source Sample: XXXXXXX-XX						
Date Prepared: 02/03/2023	Date Analyzed: 02/06/2023					Units: mg/L			
Calcium, Dissolved	89.8	0.513	70 - 130	20	90.3	81.2	10.2	0.2	1.00
Iron, Dissolved	80.0	1.39	70 - 130	20	0.201	0.041	0.200	0.02	1.00
Magnesium, Dissolved	98.7	0.127	70 - 130	20	25.1	15.0	10.2	0.2	1.00
Potassium, Dissolved	102	0.0594	70 - 130	20	11.6	1.4	10.0	0.5	1.00
Sodium, Dissolved	98.6	0.237	70 - 130	20	28.5	18.7	10.0	0.5	1.00
Tin, Dissolved	102	6.92	70 - 130	20	0.20	ND	0.200	0.02	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.8									
QC Sample ID: BXB0461-BLK1	Batch: BXB0461								
Date Prepared: 02/09/2023	Date Analyzed: 02/09/2023					Units: mg/L			
Arsenic, Dissolved					ND			0.0050	1.00
Beryllium, Dissolved					ND			0.0005	1.00
Cadmium, Dissolved					ND			0.0005	1.00
Chromium, Dissolved					ND			0.0250	1.00
Cobalt, Dissolved					ND			0.010	1.00
Copper, Dissolved					ND			0.0100	1.00
Lead, Dissolved					ND			0.0010	1.00
Manganese, Dissolved					ND			0.0100	1.00
Molybdenum, Dissolved					ND			0.0100	1.00
Nickel, Dissolved					ND			0.0200	1.00
Selenium, Dissolved					ND			0.0050	1.00
Silver, Dissolved					ND			0.010	1.00
Thallium, Dissolved					ND			0.0005	1.00
Uranium, Dissolved					ND			0.0003	1.00
Vanadium, Dissolved					ND			0.0150	1.00
Zinc, Dissolved					ND			0.0100	1.00
QC Sample ID: BXB0804-BLK1	Batch: BXB0804								
Date Prepared: 02/17/2023	Date Analyzed: 02/17/2023					Units: mg/L			
Selenium, Dissolved					ND			0.0050	1.00
LCS - EPA 200.8									
QC Sample ID: BXB0461-BS1	Batch: BXB0461								
Date Prepared: 02/09/2023	Date Analyzed: 02/09/2023					Units: mg/L			
Arsenic, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Beryllium, Dissolved	103		85 - 115		0.041		0.0400	0.0005	1.00
Cadmium, Dissolved	106		85 - 115		0.042		0.0400	0.0002	1.00
Chromium, Dissolved	107		85 - 115		0.043		0.0400	0.0005	1.00
Cobalt, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Copper, Dissolved	103		85 - 115		0.041		0.0400	0.0010	1.00
Lead, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Manganese, Dissolved	107		85 - 115		0.043		0.0400	0.0005	1.00
Molybdenum, Dissolved	108		85 - 115		0.043		0.0400	0.0005	1.00
Nickel, Dissolved	104		85 - 115		0.0418		0.0400	0.0005	1.00
Selenium, Dissolved	105		85 - 115		0.042		0.0400	0.0005	1.00
Silver, Dissolved	101		85 - 115		0.041		0.0400	0.0005	1.00
Thallium, Dissolved	113		85 - 115		0.045		0.0400	0.0002	1.00
Uranium, Dissolved	104		85 - 115		0.042		0.0400	0.0003	1.00
Vanadium, Dissolved	109		85 - 115		0.044		0.0400	0.0005	1.00
Zinc, Dissolved	103		85 - 115		0.041		0.0400	0.0100	1.00
QC Sample ID: BXB0804-BS1	Batch: BXB0804								
Date Prepared: 02/17/2023	Date Analyzed: 02/17/2023					Units: mg/L			
Selenium, Dissolved	103		85 - 115		0.041		0.0400	0.0005	1.00
Matrix Spike - EPA 200.8									
QC Sample ID: BXB0461-MS1	Batch: BXB0461			QC Source Sample: 23B0151-07					
Date Prepared: 02/09/2023	Date Analyzed: 02/09/2023					Units: mg/L			
Arsenic, Dissolved	103		70 - 130		0.041	ND	0.0400	0.0005	1.00
Beryllium, Dissolved	89.0		70 - 130		0.036	ND	0.0400	0.0005	1.00
Cadmium, Dissolved	95.8		70 - 130		0.038	0.0001	0.0400	0.0002	1.00
Chromium, Dissolved	93.1		70 - 130		0.039	0.002	0.0400	0.0005	1.00

Matrix Spike - EPA 200.8 (cont.)

Analyte	% Rec	RPD Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BXB0461-MS1	Batch: BXB0461		QC Source Sample: 23B0151-07					
Date Prepared: 02/09/2023	Date Analyzed: 02/09/2023				Units: mg/L			
Cobalt, Dissolved	90.9	70 - 130		0.037	0.0008	0.0400	0.0005	1.00
Copper, Dissolved	83.7	70 - 130		0.036	0.002	0.0400	0.0010	1.00
Lead, Dissolved	93.0	70 - 130		0.037	0.00005	0.0400	0.0005	1.00
Manganese, Dissolved	93.5	70 - 130		0.038	0.0002	0.0400	0.0005	1.00
Molybdenum, Dissolved	109	70 - 130		0.044	0.0007	0.0400	0.0005	1.00
Nickel, Dissolved	86.3	75 - 125		0.0409	0.0064	0.0400	0.0005	1.00
Selenium, Dissolved	109	70 - 130		0.306	0.263	0.0400	0.0005	1.00
Silver, Dissolved	85.4	70 - 130		0.034	ND	0.0400	0.0005	1.00
Thallium, Dissolved	101	70 - 130		0.041	0.0006	0.0400	0.0002	1.00
Uranium, Dissolved	102	70 - 130		0.064	0.023	0.0400	0.0003	1.00
Vanadium, Dissolved	101	70 - 130		0.041	0.0006	0.0400	0.0005	1.00
Zinc, Dissolved	83.2	70 - 130		0.035	0.002	0.0400	0.0100	1.00
QC Sample ID: BXB0804-MS1	Batch: BXB0804		QC Source Sample: 23B0151-04					
Date Prepared: 02/17/2023	Date Analyzed: 02/17/2023				Units: mg/L			
Selenium, Dissolved	117	70 - 130		0.049	0.002	0.0400	0.0005	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 245.1									
QC Sample ID: BXB0443-BLK1	Batch: BXB0443								
Date Prepared: 02/09/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Mercury, Dissolved					ND			0.00050	1.00
LCS - EPA 245.1									
QC Sample ID: BXB0443-BS1	Batch: BXB0443								
Date Prepared: 02/09/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Mercury, Dissolved	101		85 - 115		0.00504		0.00500	0.00015	1.00
Matrix Spike - EPA 245.1									
QC Sample ID: BXB0443-MS1	Batch: BXB0443				QC Source Sample: 23B0151-07				
Date Prepared: 02/09/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Mercury, Dissolved	100		75 - 125		0.00502	ND	0.00500	0.00015	1.00
Matrix Spike Dup - EPA 245.1									
QC Sample ID: BXB0443-MSD1	Batch: BXB0443				QC Source Sample: 23B0151-07				
Date Prepared: 02/09/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Mercury, Dissolved	98.9	1.46	75 - 125	20	0.00495	ND	0.00500	0.00015	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BXB0170-BLK1	Batch: BXB0170								
Date Prepared: 02/06/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Chloride					ND			1.00	1.00
Fluoride					ND			0.100	1.00
Sulfate					ND			1.00	1.00
LCS - EPA 300.0									
QC Sample ID: BXB0170-BS1	Batch: BXB0170								
Date Prepared: 02/06/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Chloride	94.4		90 - 110		47.2		50.0	1.00	1.00
Fluoride	94.9		90 - 110		4.74		5.00	0.100	1.00
Sulfate	92.7		90 - 110		46.4		50.0	1.00	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BXB0170-MS1	Batch: BXB0170				QC Source Sample: 23B0151-07				
Date Prepared: 02/06/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Chloride	74.0		80 - 120		425	54.7	500	55.0	1.00
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Fluoride	95.9		80 - 120		48.0	ND	50.0	5.50	1.00
Sulfate	99.9		80 - 120		3090	2590	500	55.0	1.00
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BXB0170-MSD1	Batch: BXB0170				QC Source Sample: 23B0151-07				
Date Prepared: 02/06/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Chloride	73.7	0.392	80 - 120	20	423	54.7	500	55.0	1.00
QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.									
Fluoride	95.7	0.218	80 - 120	20	47.9	ND	50.0	5.50	1.00
Sulfate	100	0.0686	80 - 120	20	3100	2590	500	55.0	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 350.1									
QC Sample ID: BXB0577-BLK1	Batch: BXB0577								
Date Prepared: 02/13/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Ammonia as N					ND			0.0500	1.00
LCS - EPA 350.1									
QC Sample ID: BXB0577-BS1	Batch: BXB0577								
Date Prepared: 02/13/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Ammonia as N	93.5		90 - 110		0.935		1.00	0.0500	1.00
Matrix Spike - EPA 350.1									
QC Sample ID: BXB0577-MS1	Batch: BXB0577			QC Source Sample: 23B0151-07					
Date Prepared: 02/13/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Ammonia as N	100		80 - 120		1.08	0.0740	1.00	0.0500	1.00
Matrix Spike Dup - EPA 350.1									
QC Sample ID: BXB0577-MSD1	Batch: BXB0577			QC Source Sample: 23B0151-07					
Date Prepared: 02/13/2023	Date Analyzed: 02/13/2023					Units: mg/L			
Ammonia as N	102	1.41	80 - 120	20	1.09	0.0740	1.00	0.0500	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BXB0258-BLK1	Batch: BXB0258								
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BXB0258-BS1	Batch: BXB0258								
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	96.6		80 - 120		1.93		2.00	0.100	1.00
QC Sample ID: BXB0258-BS2	Batch: BXB0258								
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	97.2		80 - 120		1.94		2.00	0.100	1.00
QC Sample ID: BXB0258-BS3	Batch: BXB0258								
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	96.2		80 - 120		1.92		2.00	0.100	1.00
QC Sample ID: BXB0258-BS4	Batch: BXB0258								
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	98.0		80 - 120		1.96		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BXB0258-MS1	Batch: BXB0258		QC Source Sample: 23B0151-07						
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	89.2		80 - 120		1.08	0.188	1.00	0.100	1.00
QC Sample ID: BXB0258-MS2	Batch: BXB0258		QC Source Sample: XXXXXXX-XX						
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	89.6		80 - 120		0.951	0.0550	1.00	0.100	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BXB0258-MSD1	Batch: BXB0258		QC Source Sample: 23B0151-07						
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	95.0	5.23	80 - 120	20	1.14	0.188	1.00	0.100	1.00
QC Sample ID: BXB0258-MSD2	Batch: BXB0258		QC Source Sample: XXXXXXX-XX						
Date Prepared: 02/07/2023	Date Analyzed: 02/07/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	88.1	1.59	80 - 120	20	0.936	0.0550	1.00	0.100	1.00

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BXB0164-BLK1	Batch: BXB0164								
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: ug/L			
Acetone					ND			20.0	1.00
Benzene					ND			1.0	1.00
Carbon Tetrachloride					ND			1.0	1.00
J-LOW-L - Estimated low due to low recovery of LCS									
Chloroform					ND			1.0	1.00
Chloromethane					ND			1.0	1.00
Methyl Ethyl Ketone					ND			20.0	1.00
Methylene Chloride					ND			1.0	1.00
Naphthalene					ND			1.0	1.00
J-LOW-L - Estimated low due to low recovery of LCS									
Tetrahydrofuran					ND			1.0	1.00
Toluene					ND			1.0	1.00
Xylenes, total					ND			1.0	1.00
LCS - EPA 8260D /5030A									
QC Sample ID: BXB0164-BS1	Batch: BXB0164								
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: ug/L			
Acetone	99.2		70 - 130		99.2		100	10.0	1.00
Benzene	87.6		70 - 130		8.76		10.0	1.0	1.00
Carbon Tetrachloride	45.6		70 - 130		4.56		10.0	1.0	1.00
J-LOW-L - Estimated low due to low recovery of LCS									
Chloroform	75.9		70 - 130		7.59		10.0	1.0	1.00
Chloromethane	85.5		70 - 130		8.55		10.0	1.0	1.00
Methyl Ethyl Ketone			70 - 130		ND		10.0	10.0	1.00
Methylene Chloride	98.5		70 - 130		9.85		10.0	1.0	1.00
Naphthalene	63.1		70 - 130		6.31		10.0	1.0	1.00
J-LOW-L - Estimated low due to low recovery of LCS									
Tetrahydrofuran	78.6		70 - 130		15.7		20.0	1.0	1.00
Toluene	85.4		70 - 130		8.54		10.0	1.0	1.00
Xylenes, total	87.9		70 - 130		26.4		30.0	1.0	1.00
Matrix Spike - EPA 8260D /5030A									
QC Sample ID: BXB0164-MS1	Batch: BXB0164					QC Source Sample: 23B0151-07			
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: ug/L			
Acetone	106		70 - 130		528	ND	500	50.0	1.00
Benzene	94.9		70 - 130		47.4	ND	50.0	5.0	1.00
Carbon Tetrachloride	53.8		70 - 130		26.9	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									
Chloroform	83.3		70 - 130		41.6	ND	50.0	5.0	1.00
Chloromethane	97.6		70 - 130		48.8	ND	50.0	5.0	1.00
Methyl Ethyl Ketone			70 - 130		ND	ND	50.0	50.0	1.00
Methylene Chloride	102		70 - 130		50.8	ND	50.0	5.0	1.00
Naphthalene	69.8		70 - 130		34.9	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									
Tetrahydrofuran	80.7		70 - 130		80.7	ND	100	5.0	1.00
Toluene	91.1		70 - 130		45.6	ND	50.0	5.0	1.00
Xylenes, total	95.6		70 - 130		143	ND	150	5.0	1.00
Matrix Spike Dup - EPA 8260D /5030A									
QC Sample ID: BXB0164-MSD1	Batch: BXB0164					QC Source Sample: 23B0151-07			
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: ug/L			
Acetone	105	0.760	70 - 130	20	524	ND	500	50.0	1.00

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

QC Sample ID: BXB0164-MSD1 Batch: BXB0164 QC Source Sample: 23B0151-07

Date Prepared: 02/03/2023 Date Analyzed: 02/03/2023 Units: ug/L

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Benzene	95.2	0.316	70 - 130	20	47.6	ND	50.0	5.0	1.00
Carbon Tetrachloride	52.3	2.83	70 - 130	20	26.2	ND	50.0	5.0	1.00
MS-Low - Estimated low due to Matrix Spike recovery.									
Chloroform	81.8	1.82	70 - 130	20	40.9	ND	50.0	5.0	1.00
Chloromethane	97.4	0.205	70 - 130	20	48.7	ND	50.0	5.0	1.00
Methyl Ethyl Ketone			70 - 130	20	ND	ND	50.0	50.0	1.00
Methylene Chloride	103	1.37	70 - 130	20	51.6	ND	50.0	5.0	1.00
Naphthalene	72.0	3.10	70 - 130	20	36.0	ND	50.0	5.0	1.00
Tetrahydrofuran	78.8	2.45	70 - 130	20	78.8	ND	100	5.0	1.00
Toluene	92.3	1.31	70 - 130	20	46.2	ND	50.0	5.0	1.00
Xylenes, total	95.0	0.665	70 - 130	20	142	ND	150	5.0	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2320 B									
QC Sample ID: BXB0145-BLK1	Batch: BXB0145								
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: mg/L			
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Duplicate - SM 2320 B									
QC Sample ID: BXB0145-DUP1	Batch: BXB0145		QC Source Sample: 23B0151-07						
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: mg/L			
Alkalinity - Bicarbonate (as CaCO3)		1.08		20	285	288		1.0	1.00
Alkalinity - Carbonate (as CaCO3)				20	ND	ND		1.0	1.00
Alkalinity - Total (as CaCO3)		1.08		20	285	288		1.0	1.00
LCS - SM 2320 B									
QC Sample ID: BXB0145-BS1	Batch: BXB0145								
Date Prepared: 02/03/2023	Date Analyzed: 02/03/2023					Units: mg/L			
Alkalinity - Total (as CaCO3)	102		90 - 110		241		236	1.0	1.00

QC Report for Work Order (WO) - 23B0151

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2540 C									
QC Sample ID: BXB0082-BLK1	Batch: BXB0082								
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Total Dissolved Solids (TDS)					ND			10	1.00
Duplicate - SM 2540 C									
QC Sample ID: BXB0082-DUP1	Batch: BXB0082			QC Source Sample: 23B0151-07					
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Total Dissolved Solids (TDS)		4		10	4500	4340		20	1.00
QC Sample ID: BXB0082-DUP2	Batch: BXB0082			QC Source Sample: XXXXXXX-XX					
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Total Dissolved Solids (TDS)		2		10	984	1000		20	1.00
LCS - SM 2540 C									
QC Sample ID: BXB0082-BS1	Batch: BXB0082								
Date Prepared: 02/02/2023	Date Analyzed: 02/02/2023					Units: mg/L			
Total Dissolved Solids (TDS)	104		90 - 110		416		400	20	1.00

Surrogates Report for Work Order (WO) - 23B0151

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BXB0164-BLK1	1,2-Dichloroethane-d4	87.5	64.2	126	8.75	10.0	BXB0164	1.00
BXB0164-BLK1	4-Bromofluorobenzene	116	71.4	125	11.6	10.0	BXB0164	1.00
BXB0164-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BXB0164	1.00
LCS - EPA 8260D /5030A								
BXB0164-BS1	1,2-Dichloroethane-d4	89.8	64.2	126	8.98	10.0	BXB0164	1.00
BXB0164-BS1	4-Bromofluorobenzene	101	71.4	125	10.1	10.0	BXB0164	1.00
BXB0164-BS1	Toluene-d8	96.6	63.2	129	9.66	10.0	BXB0164	1.00
Matrix Spike - EPA 8260D /5030A								
BXB0164-MS1	1,2-Dichloroethane-d4	89.0	64.2	126	44.5	50.0	BXB0164	1.00
BXB0164-MS1	4-Bromofluorobenzene	101	71.4	125	50.4	50.0	BXB0164	1.00
BXB0164-MS1	Toluene-d8	96.6	63.2	129	48.3	50.0	BXB0164	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BXB0164-MSD1	1,2-Dichloroethane-d4	88.9	64.2	126	44.4	50.0	BXB0164	1.00
BXB0164-MSD1	4-Bromofluorobenzene	99.8	71.4	125	49.9	50.0	BXB0164	1.00
BXB0164-MSD1	Toluene-d8	100	63.2	129	50.0	50.0	BXB0164	1.00

Surrogate Recoveries (Field Samples)

LabNumber	Analyte	Result	SpkLvl	%Rec	LCL	UCL	Qualifier
8260 Low Level Volatiles							
23B0151-07	4-Bromofluorobenzene	12.3	10.0	123	71.4	125	
23B0151-07	Toluene-d8	9.58	10.0	95.8	63.2	129	
23B0151-07	1,2-Dichloroethane-d4	8.91	10.0	89.1	64.2	126	
8260 Low Level Volatiles							
23B0151-08	1,2-Dichloroethane-d4	8.94	10.0	89.4	64.2	126	
23B0151-08	4-Bromofluorobenzene	11.9	10.0	119	71.4	125	
23B0151-08	Toluene-d8	10.0	10.0	100	63.2	129	
8260 Low Level Volatiles							
23B0151-09	1,2-Dichloroethane-d4	8.89	10.0	88.9	64.2	126	
23B0151-09	4-Bromofluorobenzene	12.3	10.0	123	71.4	125	
23B0151-09	Toluene-d8	9.65	10.0	96.5	63.2	129	
8260 Low Level Volatiles							
23B0151-10	Toluene-d8	9.72	10.0	97.2	63.2	129	
23B0151-10	4-Bromofluorobenzene	11.8	10.0	118	71.4	125	
23B0151-10	1,2-Dichloroethane-d4	8.90	10.0	89.0	64.2	126	
8260 Low Level Volatiles							
23B0151-11	1,2-Dichloroethane-d4	8.89	10.0	88.9	64.2	126	
23B0151-11	4-Bromofluorobenzene	12.3	10.0	123	71.4	125	
23B0151-11	Toluene-d8	10.0	10.0	100	63.2	129	
8260 Low Level Volatiles							
23B0151-12	1,2-Dichloroethane-d4	8.70	10.0	87.0	64.2	126	
23B0151-12	4-Bromofluorobenzene	11.8	10.0	118	71.4	125	
23B0151-12	Toluene-d8	9.68	10.0	96.8	63.2	129	
8260 Low Level Volatiles							
23B0151-13	Toluene-d8	9.72	10.0	97.2	63.2	129	
23B0151-13	1,2-Dichloroethane-d4	8.97	10.0	89.7	64.2	126	
23B0151-13	4-Bromofluorobenzene	12.0	10.0	120	71.4	125	

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston SC 29417
2040 Savage Road Charleston SC 29407
P 843 556 8171
F 843 766 1178

gel.com

March 03, 2023

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

Re: White Mesa Mill GW
Work Order: 609284

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 609284

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 609284

March 03, 2023

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 03, 2023 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:

Laboratory ID	Client ID
609284001	MW-11_01252023
609284002	MW-14_01262023
609284003	MW-24_01312023
609284004	MW-24A_01312023
609284005	MW-25_01232023
609284006	MW-26_01262023
609284007	MW-30_01252023
609284008	MW-31_01242023
609284009	MW-36_01302023
609284010	MW-38_02012023
609284011	MW-39_02012023
609284012	MW-40_01302023
609284013	MW-65_01262023

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.

Julie Robinson

Julie Robinson
Project Manager

Q092841

Sheet 1 of 1

ENERGY FUELS RESOURCES

CHAIN OF CUSTODY

Samples Shipped to: GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
(843) 556 8171

Contact: Tanner Holliday
Ph: 435 678 2221
tholliday@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Q1 Ground Water 2023	Tanner Holliday	Tanner Holliday

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11_01252023	1/25/2023	1100	Gross Alpha
MW-14_01262023	1/26/2023	1030	Gross Alpha
MW-24_01312023	1/31/2023	1055	Gross Alpha
MW-24A_01312023	1/31/2023	920	Gross Alpha
MW-25_01232023	1/23/2023	1215	Gross Alpha
MW-26_01262023	1/26/2023	900	Gross Alpha
MW-30_01252023	1/25/2023	1445	Gross Alpha
MW-31_01242023	1/24/2023	1305	Gross Alpha
MW-36_01302023	1/30/2023	1325	Gross Alpha
MW-38_02012023	2/1/2023	900	Gross Alpha
MW-39_02012023	2/1/2023	1100	Gross Alpha
MW-40_01302023	1/30/2023	1120	Gross Alpha
MW-65_01262023	1/26/2023	1030	Gross Alpha

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Tanner Holliday	2/1/2023 1130		2/3/23 1008
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	**SDG/AR/COC/Work Order:** 609284
Received By: QG	**Date Received:** 02/03/23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground (UPS) Field Services Courier Other 1Z 187 Y44 02 9254 4460

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: *all temperatures are recorded in Celsius **TEMP:** 14 °C
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):

PM (or PMA) review: Initials JM Date 2/9/23 Page 1 of 1

GEL Laboratories LLC
a member of The GEL Group INC
PO Box 30712 Charleston SC 29417
2040 Savage Road Charleston SC 29407
P 843 556 8171
F 843 766 1178

Sample Receipt Acknowledgement

SDG/Report#	609284
Project ID	White Mesa Mill GW
PO Number	DW16138
Project Manager	Julie Robinson
Receive Date	03-FEB-23 10:00
Prelim. Due	
Report Due	03-MAR-2023
EDD Required	Y
EDD Name	EIM_DNMI
Chain of Custody	
Turn Days	20(Working)

Client	Energy Fuels Resources (USA), Inc.
Report To	Ms. Kathy Weinel Energy Fuels Resources (USA), Inc. 225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Invoice To	EFRI Accounts Payable Attention Jan Dalla 225 Union Boulevard Suite 600 Lakewood, Colorado 80228

GEL ID	Sample ID	Matrix	Collection Date	Analysis Requested, Rpt. Basis, *(due date, if applicable)*	Cntnrs
609284001	MW-11_01252023	Ground Water	25-JAN-23 11:00	GFPC, Total Alpha Radium, Liquid, Wet	1
609284002	MW-14_01262023	Ground Water	26-JAN-23 10:30	GFPC, Total Alpha Radium, Liquid, Wet	1
609284003	MW-24_01312023	Ground Water	31-JAN-23 10:55	GFPC, Total Alpha Radium, Liquid, Wet	1
609284004	MW-24A_01312023	Ground Water	31-JAN-23 09:20	GFPC, Total Alpha Radium, Liquid, Wet	1
609284005	MW-25_01232023	Ground Water	23-JAN-23 12:15	GFPC, Total Alpha Radium, Liquid, Wet	1
609284006	MW-26_01262023	Ground Water	26-JAN-23 09:00	GFPC, Total Alpha Radium, Liquid, Wet	1
609284007	MW-30_01252023	Ground Water	25-JAN-23 14:45	GFPC, Total Alpha Radium, Liquid, Wet	1
609284008	MW-31_01242023	Ground Water	24-JAN-23 13:05	GFPC, Total Alpha Radium, Liquid, Wet	1
609284009	MW-36_01302023	Ground Water	30-JAN-23 13:25	GFPC, Total Alpha Radium, Liquid, Wet	1
609284010	MW-38_02012023	Ground Water	01-FEB-23 09:00	GFPC, Total Alpha Radium, Liquid, Wet	1
609284011	MW-39_02012023	Ground Water	01-FEB-23 11:00	GFPC, Total Alpha Radium, Liquid, Wet	1
609284012	MW-40_01302023	Ground Water	30-JAN-23 11:20	GFPC, Total Alpha Radium, Liquid, Wet	1
609284013	MW-65_01262023	Ground Water	26-JAN-23 10:30	GFPC, Total Alpha Radium, Liquid, Wet	1

Analyte List

Analysis: GFPC, Total Alpha Radium, Liquid **Reference:** Gross Alpha
Method(s): EPA 903.0/SW846 9315

Analyte	CAS No.	Reporting Limit
Gross Radium Alpha	GA-RnU	1 pCi/L

List of current GEL Certifications as of 03 March 2023

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	SC000122023-4
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	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 609284

Product: **GFPC, Total Alpha Radium, Liquid**
Analytical Method: EPA 903.0
Analytical Procedure: GL-RAD-A-044 REV# 10
Analytical Batch: 2383311

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

GEL Sample ID#	Client Sample Identification
609284001	MW-11_01252023
609284002	MW-14_01262023
609284003	MW-24_01312023
609284004	MW-24A_01312023
609284005	MW-25_01232023
609284006	MW-26_01262023
609284007	MW-30_01252023
609284008	MW-31_01242023
609284009	MW-36_01302023
609284010	MW-38_02012023
609284011	MW-39_02012023
609284012	MW-40_01302023
609284013	MW-65_01262023
1205320056	Method Blank (MB)
1205320057	609284001(MW-11_01252023) Sample Duplicate (DUP)
1205320058	609284001(MW-11_01252023) Matrix Spike (MS)
1205320059	609284001(MW-11_01252023) Matrix Spike Duplicate (MSD)
1205320060	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Samples 609284004 (MW-24A_01312023), 609284005 (MW-25_01232023), 609284006 (MW-26_01262023), 609284009 (MW-36_01302023) and 609284012 (MW-40_01302023) were recounted due to high MDCs. The recounts are reported.

Miscellaneous Information

Additional Comments
The matrix spike and matrix spike duplicate, 1205320058 (MW-11_01252023MS) and 1205320059 (MW-11_01252023MSD), 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: 609284 GEL Work Order: 609284

The Qualifiers in this report are defined as follows:

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

Review/Validation

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

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

Signature:  **Name: Theresa Austin**

Date: 03 MAR 2023 **Title: Group Leader**

QC Summary

Report Date: March 3, 2023

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

Workorder: **609284**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2383311										
QC1205320057 609284001 DUP										
Gross Radium Alpha	U	0.596	U	-0.108	pCi/L	N/A		N/A	JXK3	03/01/23 17:08
	Uncertainty	+/-0.306		+/-0.216						
QC1205320060 LCS										
Gross Radium Alpha	534			424	pCi/L		79.4	(75%-125%)		03/01/23 17:08
	Uncertainty			+/-5.93						
QC1205320056 MB										
Gross Radium Alpha			U	0.0962	pCi/L					03/01/23 17:08
	Uncertainty			+/-0.220						
QC1205320058 609284001 MS										
Gross Radium Alpha	2150 U	0.596		1620	pCi/L		75.3	(75%-125%)		03/01/23 17:08
	Uncertainty	+/-0.306		+/-25.8						
QC1205320059 609284001 MSD										
Gross Radium Alpha	2190 U	0.596		1650	pCi/L	1.9	75.6	(0%-20%)		03/01/23 17:08
	Uncertainty	+/-0.306		+/-26.0						

Notes:

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

The Qualifiers in this report are defined as follows:

C	Analyte has been confirmed by GC/MS analysis
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
A	The TIC is a suspected aldol-condensation product
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
Y	QC Samples were not spiked with this compound
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected

QC Summary

Workorder: **609284**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
D	Results are reported from a diluted aliquot of the sample
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
F	Estimated Value
M	Matrix Related Failure
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
U	Analyte was analyzed for, but not detected above the CRDL.

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 2023

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

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

PO#:
Receipt: **2/10/23 11:00 @ 0.4** °C
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-11_02082023**

Matrix: **Water**
Lab ID: **23B0901-01**
Date Sampled: **2/8/23 11:40**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	71.4	mg/L	1.00	EPA 300.0	2/20/23	2/20/23	
Nitrate + Nitrite, Total, as N	2.89	mg/L	0.100	EPA 353.2	2/23/23	2/23/23	
Sulfate	1100	mg/L	50.0	EPA 300.0	2/20/23	2/20/23	
Total Dissolved Solids (TDS)	2120	mg/L	20	SM 2540 C	2/10/23	2/10/23	
Metals, Dissolved							
Manganese, Dissolved	0.161	mg/L	0.0100	EPA 200.8	2/21/23	2/21/23	
Selenium, Dissolved	0.0177	mg/L	0.0050	EPA 200.8	2/21/23	2/21/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4 °C**
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-25_02072023**

Matrix: **Water**
Lab ID: **23B0901-02**
Date Sampled: **2/7/23 10:45**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	32.2	mg/L	1.00	EPA 300.0	2/20/23	2/20/23	
Total Dissolved Solids (TDS)	2610	mg/L	20	SM 2540 C	2/10/23	2/10/23	

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Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4 °C**
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-26_02082023**

Matrix: **Water**
Lab ID: **23B0901-03**
Date Sampled: **2/8/23 10:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	52.2	mg/L	1.00	EPA 300.0	2/20/23	2/20/23	
Nitrate + Nitrite, Total, as N	1.94	mg/L	0.100	EPA 353.2	2/23/23	2/23/23	
Volatile Organic Compounds							
Chloroform	664	ug/L	50.0	EPA 8260D /5030A	2/14/23	2/14/23	QM-4X

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Certificate of Analysis

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4** °C
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-30_02082023**

Matrix: **Water**
Lab ID: **23B0901-04**
Date Sampled: **2/8/23 11:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	173	mg/L	5.00	EPA 300.0	2/20/23	2/21/23	
Nitrate + Nitrite, Total, as N	15.9	mg/L	0.500	EPA 353.2	2/23/23	2/23/23	
Metals, Dissolved							
Selenium, Dissolved	0.0706	mg/L	0.0050	EPA 200.8	2/21/23	2/21/23	
Uranium, Dissolved	0.0096	mg/L	0.0003	EPA 200.8	2/21/23	2/21/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4** °C
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-31_02072023**

Matrix: **Water**
Lab ID: **23B0901-05**
Date Sampled: **2/7/23 13:20**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	388	mg/L	5.00	EPA 300.0	2/20/23	2/21/23	
Nitrate + Nitrite, Total, as N	16.5	mg/L	0.500	EPA 353.2	2/23/23	2/23/23	
Sulfate	1190	mg/L	50.0	EPA 300.0	2/20/23	2/21/23	
Total Dissolved Solids (TDS)	2730	mg/L	20	SM 2540 C	2/10/23	2/10/23	
Metals, Dissolved							
Uranium, Dissolved	0.0233	mg/L	0.0003	EPA 200.8	2/21/23	2/21/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4** °C
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **MW-65_02082023**

Matrix: **Water**
Lab ID: **23B0901-06**
Date Sampled: **2/8/23 11:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	176	mg/L	5.00	EPA 300.0	2/20/23	2/21/23	
Nitrate + Nitrite, Total, as N	15.8	mg/L	0.500	EPA 353.2	2/23/23	2/23/23	
Metals, Dissolved							
Selenium, Dissolved	0.0727	mg/L	0.0050	EPA 200.8	2/21/23	2/21/23	
Uranium, Dissolved	0.0097	mg/L	0.0003	EPA 200.8	2/21/23	2/21/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **2/10/23 11:00 @ 0.4** °C
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

Sample ID: **Trip Blank**

Matrix: **Water**
Lab ID: **23B0901-07**
Date Sampled: **2/8/23 10:00**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Volatile Organic Compounds							
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	2/14/23	2/14/23	

CHEMTECH-FORD
LABORATORIES

2/24/2023

Work Order: 23B0901
Project: February Ground Water 2023

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.

NELAP ACCREDITED TNI LABORATORY

Approved By:

Melissa Connolly, Project Manager

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Sandy, UT 84070
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www.ChemtechFord.com

Energy Fuels Resources, Inc.

Project: February Ground Water 2023
Project Manager: Tanner Holliday

Laboratory ID	Sample Name
23B0901-01	MW-11_02082023
23B0901-02	MW-25_02072023
23B0901-03	MW-26_02082023
23B0901-04	MW-30_02082023
23B0901-05	MW-31_02072023
23B0901-06	MW-65_02082023
23B0901-07	Trip Blank

Work Order Report Narrative

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

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

Laboratory Control Samples
All laboratory control samples were within method acceptance criteria.

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

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

Corrective Actions
There are no corrective actions associated with this work order.

Certificate of Analysis

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

PO#:
Receipt: **2/10/23 11:00 @ 0.4 °C**
Date Reported: 2/24/2023
Project Name: **February Ground Water 2023**

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.

Flag Descriptions

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.

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.

23B0901
AWAL Lab Sample Set #
Page 1 of 1

QC Level:	Turn Around Time:	Due Date:
3	Standard	

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

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 2023**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

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

	23B0901 Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO_2/NO_3 (353.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Manganese (200.7/200.8)	SO_4 (4500 or 300.0)	VOCs Chloroform (8260D)	Known Hazards & Sample Comments
01	MW-11_02082023	2/8/2023	1140	4	W	X		X	X			X	X	X		
02	MW-25_02072023	2/7/2023	1045	2	W			X	X							
03	MW-26_02082023	2/8/2023	1000	5	W	X		X							X	
04	MW-30_02082023	2/8/2023	1100	3	W	X		X		X		X				
05	MW-31_02072023	2/7/2023	1320	4	W	X		X	X	X				X		
06	MW-65_02082023	2/8/2023	1100	3	W	X		X		X		X				
7																
8																
09	Trip Blank	2/8/2023	1000	3	W										X	
10																
11																
12																
13																

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 0.4 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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 / Print Name	Date / Time	Received by: Signature / Print Name	Date / Time
Tanner Holliday	2/9/23 1130		
		Kelsey Hay / Jesse Haywood	2/10/23 1100

Special Instructions:

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

UPS GROUND
TRACKING #: 1Z 187 Y4Y 03 9222 5124

CHEMTECH FORD LABORATORIES

Sample Receipt

Work Order # 23B0901

Delivery Method:

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

Receiving Temperature 0.4 °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, 05	m	1264						
	N	1232						
	Ap(2)	1230						
02	Ap(2)	1230						
03	N	1232						
	ah	AGWAC						
	W(3)	1235						
04, 06	m	1264						
	N	1232						
	Ap	1230						
07	W(3)	1235						

Sample Condition (check if *yes*)

- ☒ Custody Seals
- ☒ Containers Intact
- ☒ COC can be matched to bottles
- ☒ Received on Ice
- ☒ Correct Containers(s)
- ☒ Sufficent 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/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

QC Report for Work Order (WO) - 23B0901

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.8									
QC Sample ID: BXB0965-BLK1	Batch: BXB0965								
Date Prepared: 02/21/2023	Date Analyzed: 02/21/2023					Units: mg/L			
Manganese, Dissolved					ND			0.0100	1.00
Selenium, Dissolved					ND			0.0050	1.00
Uranium, Dissolved					ND			0.0003	1.00
LCS - EPA 200.8									
QC Sample ID: BXB0965-BS1	Batch: BXB0965								
Date Prepared: 02/21/2023	Date Analyzed: 02/21/2023					Units: mg/L			
Manganese, Dissolved	102		85 - 115		0.041		0.0400	0.0005	1.00
Selenium, Dissolved	101		85 - 115		0.041		0.0400	0.0005	1.00
Uranium, Dissolved	94.5		85 - 115		0.038		0.0400	0.0003	1.00
Matrix Spike - EPA 200.8									
QC Sample ID: BXB0965-MS1	Batch: BXB0965				QC Source Sample: 23B0901-01				
Date Prepared: 02/21/2023	Date Analyzed: 02/21/2023					Units: mg/L			
Manganese, Dissolved	92.4		70 - 130		0.197	0.161	0.0400	0.0005	1.00
Selenium, Dissolved	112		70 - 130		0.063	0.018	0.0400	0.0005	1.00
Uranium, Dissolved	92.2		70 - 130		0.039	0.002	0.0400	0.0003	1.00
QC Sample ID: BXB0965-MS2	Batch: BXB0965				QC Source Sample: XXXXXXX-XX				
Date Prepared: 02/21/2023	Date Analyzed: 02/21/2023					Units: mg/L			
Manganese, Dissolved	94.0		70 - 130		0.060	0.023	0.0400	0.0005	1.00
Selenium, Dissolved	106		70 - 130		0.045	0.003	0.0400	0.0005	1.00
Uranium, Dissolved	91.9		70 - 130		0.041	0.005	0.0400	0.0003	1.00

QC Report for Work Order (WO) - 23B0901

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BXB0931-BLK1	Batch: BXB0931								
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride					ND			1.00	1.00
Sulfate					ND			1.00	1.00
LCS - EPA 300.0									
QC Sample ID: BXB0931-BS1	Batch: BXB0931								
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride	98.5		90 - 110		49.2		50.0	1.00	1.00
Sulfate	96.5		90 - 110		48.2		50.0	1.00	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BXB0931-MS1	Batch: BXB0931			QC Source Sample: 23B0901-01					
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride	95.1		80 - 120		547	71.4	500	55.0	1.00
Sulfate	96.5		80 - 120		1590	1100	500	55.0	1.00
QC Sample ID: BXB0931-MS2	Batch: BXB0931			QC Source Sample: 23B0901-03					
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride	98.3		80 - 120		63.1	52.2	11.1	1.11	1.00
Sulfate			80 - 120		ND	ND	11.1	1.11	1.00

E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BXB0931-MSD1	Batch: BXB0931			QC Source Sample: 23B0901-01					
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride	94.3	0.795	80 - 120	20	543	71.4	500	55.0	1.00
Sulfate	95.6	0.298	80 - 120	20	1580	1100	500	55.0	1.00
QC Sample ID: BXB0931-MSD2	Batch: BXB0931			QC Source Sample: 23B0901-03					
Date Prepared: 02/20/2023	Date Analyzed: 02/20/2023					Units: mg/L			
Chloride	99.5	0.196	80 - 120	20	63.2	52.2	11.1	1.11	1.00
Sulfate			80 - 120	20	ND	ND	11.1	1.11	1.00

E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

QC Report for Work Order (WO) - 23B0901

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BXB1110-BLK1	Batch: BXB1110								
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BXB1110-BS1	Batch: BXB1110								
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	99.2		80 - 120		1.98		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BXB1110-MS1	Batch: BXB1110			QC Source Sample: XXXXXXX-XX					
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	84.7		80 - 120		6.33	5.48	1.00	0.200	2.00
QC Sample ID: BXB1110-MS2	Batch: BXB1110			QC Source Sample: 23B0901-01					
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	110		80 - 120		4.00	2.89	1.00	0.100	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BXB1110-MSD1	Batch: BXB1110			QC Source Sample: XXXXXXX-XX					
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	87.8	0.489	80 - 120	20	6.36	5.48	1.00	0.200	2.00
QC Sample ID: BXB1110-MSD2	Batch: BXB1110			QC Source Sample: 23B0901-01					
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	97.1	3.38	80 - 120	20	3.86	2.89	1.00	0.100	1.00
MRL Check - EPA 353.2									
QC Sample ID: BXB1110-MRL1	Batch: BXB1110								
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	65.0		0 - 200		0.0650		0.100	0.100	1.00
QC Sample ID: BXB1110-MRL2	Batch: BXB1110								
Date Prepared: 02/23/2023	Date Analyzed: 02/23/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	46.0		0 - 200		0.0460		0.100	0.100	1.00

QC Report for Work Order (WO) - 23B0901

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BXB0706-BLK1	Batch: BXB0706								
Date Prepared: 02/14/2023	Date Analyzed: 02/14/2023					Units: ug/L			
Chloroform					ND			1.0	1.00
LCS - EPA 8260D /5030A									
QC Sample ID: BXB0706-BS1	Batch: BXB0706								
Date Prepared: 02/14/2023	Date Analyzed: 02/14/2023					Units: ug/L			
Chloroform	89.0		70 - 130		8.90		10.0	1.0	1.00
Matrix Spike - EPA 8260D /5030A									
QC Sample ID: BXB0706-MS1	Batch: BXB0706			QC Source Sample: 23B0901-03					
Date Prepared: 02/14/2023	Date Analyzed: 02/14/2023					Units: ug/L			
Chloroform	46.9		70 - 130		688	664	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.									
Matrix Spike Dup - EPA 8260D /5030A									
QC Sample ID: BXB0706-MSD1	Batch: BXB0706			QC Source Sample: 23B0901-03					
Date Prepared: 02/14/2023	Date Analyzed: 02/14/2023					Units: ug/L			
Chloroform	7.40	145	70 - 130	20	668	664	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.									

QC Report for Work Order (WO) - 23B0901

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2540 C									
QC Sample ID: BXB0548-BLK1	Batch: BXB0548								
Date Prepared: 02/10/2023	Date Analyzed: 02/10/2023					Units: mg/L			
Total Dissolved Solids (TDS)					ND			10	1.00
Duplicate - SM 2540 C									
QC Sample ID: BXB0548-DUP1	Batch: BXB0548			QC Source Sample: XXXXXXX-XX					
Date Prepared: 02/10/2023	Date Analyzed: 02/10/2023					Units: mg/L			
Total Dissolved Solids (TDS)		1		10	1990	2010		20	1.00
QC Sample ID: BXB0548-DUP2	Batch: BXB0548			QC Source Sample: 23B0901-01					
Date Prepared: 02/10/2023	Date Analyzed: 02/10/2023					Units: mg/L			
Total Dissolved Solids (TDS)		0.9		10	2100	2120		20	1.00
LCS - SM 2540 C									
QC Sample ID: BXB0548-BS1	Batch: BXB0548								
Date Prepared: 02/10/2023	Date Analyzed: 02/10/2023					Units: mg/L			
Total Dissolved Solids (TDS)	104		90 - 110		416		400	20	1.00

Surrogates Report for Work Order (WO) - 23B0901

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BXB0706-BLK1	1,2-Dichloroethane-d4	104	64.2	126	10.4	10.0	BXB0706	1.00
BXB0706-BLK1	4-Bromofluorobenzene	98.0	71.4	125	9.80	10.0	BXB0706	1.00
BXB0706-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BXB0706	1.00
LCS - EPA 8260D /5030A								
BXB0706-BS1	1,2-Dichloroethane-d4	104	64.2	126	10.4	10.0	BXB0706	1.00
BXB0706-BS1	4-Bromofluorobenzene	97.8	71.4	125	9.78	10.0	BXB0706	1.00
BXB0706-BS1	Toluene-d8	98.7	63.2	129	9.87	10.0	BXB0706	1.00
Matrix Spike - EPA 8260D /5030A								
BXB0706-MS1	1,2-Dichloroethane-d4	97.7	64.2	126	48.8	50.0	BXB0706	1.00
BXB0706-MS1	4-Bromofluorobenzene	98.9	71.4	125	49.4	50.0	BXB0706	1.00
BXB0706-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BXB0706	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BXB0706-MSD1	1,2-Dichloroethane-d4	105	64.2	126	52.4	50.0	BXB0706	1.00
BXB0706-MSD1	4-Bromofluorobenzene	99.2	71.4	125	49.6	50.0	BXB0706	1.00
BXB0706-MSD1	Toluene-d8	99.0	63.2	129	49.5	50.0	BXB0706	1.00

Surrogate Recoveries (Field Samples)

LabNumber	Analyte	Result	SpkLvl	%Rec	LCL	UCL	Qualifier
8260 Low Level Volatiles							
23B0901-03	Toluene-d8	10.0	10.0	100	63.2	129	
23B0901-03	4-Bromofluorobenzene	9.80	10.0	98.0	71.4	125	
23B0901-03	1,2-Dichloroethane-d4	10.7	10.0	107	64.2	126	
8260 Low Level Volatiles							
23B0901-07	Toluene-d8	10.0	10.0	100	63.2	129	
23B0901-07	4-Bromofluorobenzene	9.65	10.0	96.5	71.4	125	
23B0901-07	1,2-Dichloroethane-d4	10.0	10.0	100	64.2	126	

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

March 2023

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Certificate of Analysis

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

PO#:
Receipt: **3/17/23 11:14 @ 0.3 °C**
Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-11_03142023**
Matrix: **Water**
Lab ID: **23C1353-01**
Date Sampled: **3/14/23 13:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	66.3	mg/L	1.00	EPA 300.0	3/20/23	3/20/23	
Nitrate + Nitrite, Total, as N	2.53	mg/L	0.100	EPA 353.2	3/21/23	3/21/23	
Sulfate	1430	mg/L	20.0	EPA 300.0	3/20/23	3/20/23	
Total Dissolved Solids (TDS)	2300	mg/L	20	SM 2540 C	3/17/23	3/17/23	
Metals, Dissolved							
Manganese, Dissolved	0.211	mg/L	0.0100	EPA 200.8	3/20/23	3/20/23	
Selenium, Dissolved	0.0149	mg/L	0.0050	EPA 200.8	3/20/23	3/20/23	

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Blanding, UT 84511

PO#:
Receipt: **3/17/23 11:14 @ 0.3** °C
Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-25_03152023**
Matrix: **Water**
Lab ID: **23C1353-02**
Date Sampled: **3/15/23 11:30**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	32.6	mg/L	10.0	EPA 300.0	3/20/23	3/20/23	
Total Dissolved Solids (TDS)	2600	mg/L	20	SM 2540 C	3/17/23	3/17/23	

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PO#:
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Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-26_03142023**
Matrix: **Water**
Lab ID: **23C1353-03**
Date Sampled: **3/14/23 14:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	47.7	mg/L	1.00	EPA 300.0	3/20/23	3/20/23	
Nitrate + Nitrite, Total, as N	0.875	mg/L	0.100	EPA 353.2	3/21/23	3/21/23	
Volatile Organic Compounds							
Chloroform	1060	ug/L	100	EPA 8260D /5030A	3/20/23	3/20/23	

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PO#:
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Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-30_03152023**
Matrix: **Water**
Lab ID: **23C1353-04**
Date Sampled: **3/15/23 11:05**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	199	mg/L	5.00	EPA 300.0	3/20/23	3/20/23	
Nitrate + Nitrite, Total, as N	17.3	mg/L	0.500	EPA 353.2	3/21/23	3/21/23	
Metals, Dissolved							
Selenium, Dissolved	0.0721	mg/L	0.0050	EPA 200.8	3/20/23	3/20/23	
Uranium, Dissolved	0.0096	mg/L	0.0003	EPA 200.8	3/20/23	3/20/23	

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PO#:
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Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-31_03142023**
Matrix: **Water**
Lab ID: **23C1353-05**
Date Sampled: **3/14/23 15:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	302	mg/L	10.0	EPA 300.0	3/20/23	3/20/23	
Nitrate + Nitrite, Total, as N	17.9	mg/L	0.500	EPA 353.2	3/21/23	3/21/23	
Sulfate	951	mg/L	10.0	EPA 300.0	3/20/23	3/20/23	
Total Dissolved Solids (TDS)	2520	mg/L	20	SM 2540 C	3/17/23	3/17/23	
Metals, Dissolved							
Uranium, Dissolved	0.0237	mg/L	0.0003	EPA 200.8	3/20/23	3/20/23	

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PO#:
Receipt: **3/17/23 11:14 @ 0.3 °C**
Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **MW-65_03142023**

Matrix: **Water**
Lab ID: **23C1353-06**
Date Sampled: **3/14/23 13:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	60.5	mg/L	1.00	EPA 300.0	3/20/23	3/20/23	
Nitrate + Nitrite, Total, as N	2.86	mg/L	0.500	EPA 353.2	3/21/23	3/21/23	
Sulfate	1310	mg/L	20.0	EPA 300.0	3/21/23	3/21/23	
Total Dissolved Solids (TDS)	2310	mg/L	20	SM 2540 C	3/17/23	3/17/23	
Metals, Dissolved							
Manganese, Dissolved	0.221	mg/L	0.0100	EPA 200.8	3/20/23	3/20/23	
Selenium, Dissolved	0.0160	mg/L	0.0050	EPA 200.8	3/20/23	3/20/23	

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Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **3/17/23 11:14 @ 0.3 °C**
Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Sample ID: **Trip Blank**

Matrix: **Water**
Lab ID: **23C1353-07**
Date Sampled: **3/14/23 14:15**
Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Volatile Organic Compounds							
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	3/20/23	3/20/23	

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3/27/2023

Work Order: 23C1353
Project: March Ground Water 2023

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

Client Service Contact: 801.262.7299

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

Approved By:

Melissa Connolly, Project Manager

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Energy Fuels Resources, Inc.

Project: March Ground Water 2023
Project Manager: Tanner Holliday

Laboratory ID	Sample Name
23C1353-01	MW-11_03142023
23C1353-02	MW-25_03152023
23C1353-03	MW-26_03142023
23C1353-04	MW-30_03152023
23C1353-05	MW-31_03142023
23C1353-06	MW-65_03142023
23C1353-07	Trip Blank

Work Order Report Narrative

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

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

Laboratory Control Samples
All laboratory control samples were within method acceptance criteria.

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

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

Corrective Actions
There are no corrective actions associated with this work order.

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

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

PO#:
Receipt: **3/17/23 11:14 @ 0.3** °C
Date Reported: 3/27/2023
Project Name: **March Ground Water 2023**

Report Footnotes

Abbreviations

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

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

23C1353

CHAIN OF CUSTODY

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

AWAL Lab Sample Set #
Page 1 of 1

QC Level:	Turn Around Time:	Due Date:
3	Standard	

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Kathy Weinel**
Phone #: **(435) 678-2221** Cell #:
Email: **tholliday@energyfuels.com; kweinel@energyfuels.com;**
Project Name: **March Ground Water 2023**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

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:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 0.3 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

	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)	SO_4 (4500 or 300.0)	VOCs Chloroform (8260D)	Known Hazards & Sample Comments
-01	MW-11_03142023	3/14/2023	1315	4	W	X		X	X			X	X	X		
-02	MW-25_03152023	3/15/2023	1130	2	W			X	X							
-03	MW-26_03142023	3/14/2023	1415	5	W	X		X							X	
-04	MW-30_03152023	3/15/2023	1105	3	W	X		X		X		X				
-05	MW-31_03142023	3/14/2023	1515	4	W	X		X	X	X				X		
-06	MW-65_03142023	3/14/2023	1315	4	W	X		X	X			X	X	X		
7																
8																
-07	Trip Blank	3/14/2023	1415	3	W										X	
10																
11																
12																
13																

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	Date:	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

Work Order # 23C1353

CHEMTECH FORD LABORATORIES
Sample Receipt

CHEMTECH-FORD LABORATORIES

Delivery Method:

☑ UPS ☐ USPS 12 18 Y4Y 03 9035 1385

☐ FedEx ☐ Chemtech Courier

☐ Walk-in ☐ Customer Courier

Receiving Temperature 0.3 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
01-06	AP	1282						
01,05,06	AP	1282						
02	Ah	–						
01,04-06	M	1279						FIELD FILTERED
01,03-06	N	1265						
03,07	W(3)	1235						

Sample Condition
(check if *yes*)

- ☑ Custody Seals
- ☑ Containers Intact
- ☑ COC can be matched to bottles
- ☑ Received on Ice
- ☑ Correct Containers(s)
- ☑ Sufficent 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/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 200.8									
QC Sample ID: BXC0831-BLK1	Batch: BXC0831								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Manganese, Dissolved					ND			0.0100	1.00
Selenium, Dissolved					ND			0.0050	1.00
Uranium, Dissolved					ND			0.0003	1.00
LCS - EPA 200.8									
QC Sample ID: BXC0831-BS1	Batch: BXC0831								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Manganese, Dissolved	96.2		85 - 115		0.038		0.0400	0.0005	1.00
Selenium, Dissolved	97.6		85 - 115		0.039		0.0400	0.0005	1.00
Uranium, Dissolved	94.0		85 - 115		0.038		0.0400	0.0003	1.00
Matrix Spike - EPA 200.8									
QC Sample ID: BXC0831-MS1	Batch: BXC0831			QC Source Sample: 23C1353-05					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Manganese, Dissolved	89.5		70 - 130		0.036	0.0002	0.0400	0.0005	1.00
Selenium, Dissolved	96.0		70 - 130		0.145	0.106	0.0400	0.0005	1.00
Uranium, Dissolved	90.5		70 - 130		0.060	0.024	0.0400	0.0003	1.00

QC Report for Work Order (WO) - 23C1353

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 300.0									
QC Sample ID: BXC0837-BLK1	Batch: BXC0837								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride					ND			1.00	1.00
Sulfate					ND			1.00	1.00
QC Sample ID: BXC0883-BLK1	Batch: BXC0883								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate					ND			1.00	1.00
LCS - EPA 300.0									
QC Sample ID: BXC0837-BS1	Batch: BXC0837								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride	99.1		90 - 110		49.5		50.0	1.00	1.00
Sulfate	98.2		90 - 110		49.1		50.0	1.00	1.00
QC Sample ID: BXC0883-BS1	Batch: BXC0883								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate	97.3		90 - 110		48.7		50.0	1.00	1.00
Matrix Spike - EPA 300.0									
QC Sample ID: BXC0837-MS1	Batch: BXC0837			QC Source Sample: 23C1353-03					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride	89.2		80 - 120		57.6	47.7	11.1	1.11	1.00
QC Sample ID: BXC0837-MS2	Batch: BXC0837			QC Source Sample: 23C1353-05					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride	96.2		80 - 120		398	302	100	11.0	1.00
Sulfate	91.1		80 - 120		1040	951	100	11.0	1.00
QC Sample ID: BXC0883-MS1	Batch: BXC0883			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate	99.4		80 - 120		45.5	34.5	11.1	1.11	1.00
QC Sample ID: BXC0883-MS2	Batch: BXC0883			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate	82.7		80 - 120		209	43.8	200	20.0	1.00
Matrix Spike Dup - EPA 300.0									
QC Sample ID: BXC0837-MSD1	Batch: BXC0837			QC Source Sample: 23C1353-03					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride	96.2	1.34	80 - 120	20	58.4	47.7	11.1	1.11	1.00
QC Sample ID: BXC0837-MSD2	Batch: BXC0837			QC Source Sample: 23C1353-05					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: mg/L			
Chloride	110	3.32	80 - 120	20	412	302	100	11.0	1.00
Sulfate	144	4.95	80 - 120	20	1090	951	100	11.0	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
QC Sample ID: BXC0883-MSD1	Batch: BXC0883			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate	101	0.443	80 - 120	20	45.7	34.5	11.1	1.11	1.00
QC Sample ID: BXC0883-MSD2	Batch: BXC0883			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Sulfate	82.9	0.218	80 - 120	20	210	43.8	200	20.0	1.00

QC Report for Work Order (WO) - 23C1353

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BXC0875-BLK1	Batch: BXC0875								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
QC Sample ID: BXC0876-BLK1	Batch: BXC0876								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N					ND			0.100	1.00
LCS - EPA 353.2									
QC Sample ID: BXC0875-BS1	Batch: BXC0875								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	102		80 - 120		2.03		2.00	0.100	1.00
QC Sample ID: BXC0876-BS1	Batch: BXC0876								
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	101		80 - 120		2.02		2.00	0.100	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BXC0875-MS1	Batch: BXC0875			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	98.4		80 - 120		2.85	1.86	1.00	0.100	1.00
QC Sample ID: BXC0875-MS2	Batch: BXC0875			QC Source Sample: 23C1353-03					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	98.0		80 - 120		1.86	0.875	1.00	0.100	1.00
QC Sample ID: BXC0876-MS1	Batch: BXC0876			QC Source Sample: 23C1353-05					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	101		80 - 120		18.9	17.9	1.00	0.500	5.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BXC0875-MSD1	Batch: BXC0875			QC Source Sample: XXXXXXX-XX					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	97.1	0.458	80 - 120	20	2.83	1.86	1.00	0.100	1.00
QC Sample ID: BXC0875-MSD2	Batch: BXC0875			QC Source Sample: 23C1353-03					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	101	1.66	80 - 120	20	1.89	0.875	1.00	0.100	1.00
QC Sample ID: BXC0876-MSD1	Batch: BXC0876			QC Source Sample: 23C1353-05					
Date Prepared: 03/21/2023	Date Analyzed: 03/21/2023					Units: mg/L			
Nitrate + Nitrite, Total, as N	92.4	0.445	80 - 120	20	18.8	17.9	1.00	0.500	5.00

QC Report for Work Order (WO) - 23C1353

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 8260D /5030A									
QC Sample ID: BXC0869-BLK1	Batch: BXC0869								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: ug/L			
Chloroform					ND			1.0	1.00
LCS - EPA 8260D /5030A									
QC Sample ID: BXC0869-BS1	Batch: BXC0869								
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: ug/L			
Chloroform	91.2		70 - 130		9.12		10.0	1.0	1.00
Matrix Spike - EPA 8260D /5030A									
QC Sample ID: BXC0869-MS1	Batch: BXC0869			QC Source Sample: 23C1353-03					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: ug/L			
Chloroform	862		70 - 130		1490	1060	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.									
Matrix Spike Dup - EPA 8260D /5030A									
QC Sample ID: BXC0869-MSD1	Batch: BXC0869			QC Source Sample: 23C1353-03					
Date Prepared: 03/20/2023	Date Analyzed: 03/20/2023					Units: ug/L			
Chloroform	962	10.9	70 - 130	20	1540	1060	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.									

QC Report for Work Order (WO) - 23C1353

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2540 C									
QC Sample ID: BXC0807-BLK1	Batch: BXC0807								
Date Prepared: 03/17/2023	Date Analyzed: 03/17/2023					Units: mg/L			
Total Dissolved Solids (TDS)					ND			10	1.00
Duplicate - SM 2540 C									
QC Sample ID: BXC0807-DUP1	Batch: BXC0807		QC Source Sample: XXXXXXX-XX						
Date Prepared: 03/17/2023	Date Analyzed: 03/17/2023					Units: mg/L			
Total Dissolved Solids (TDS)		1		10	1800	1820		20	1.00
QC Sample ID: BXC0807-DUP2	Batch: BXC0807		QC Source Sample: 23C1353-05						
Date Prepared: 03/17/2023	Date Analyzed: 03/17/2023					Units: mg/L			
Total Dissolved Solids (TDS)		0.6		10	2540	2520		20	1.00
LCS - SM 2540 C									
QC Sample ID: BXC0807-BS1	Batch: BXC0807								
Date Prepared: 03/17/2023	Date Analyzed: 03/17/2023					Units: mg/L			
Total Dissolved Solids (TDS)	106		90 - 110		424		400	20	1.00

Surrogates Report for Work Order (WO) - 23C1353

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
			Blank - EPA 8260D /5030A					
BXC0869-BLK1	1,2-Dichloroethane-d4	95.3	64.2	126	9.53	10.0	BXC0869	1.00
BXC0869-BLK1	4-Bromofluorobenzene	95.3	71.4	125	9.53	10.0	BXC0869	1.00
BXC0869-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BXC0869	1.00
			LCS - EPA 8260D /5030A					
BXC0869-BS1	1,2-Dichloroethane-d4	96.0	64.2	126	9.60	10.0	BXC0869	1.00
BXC0869-BS1	4-Bromofluorobenzene	95.2	71.4	125	9.52	10.0	BXC0869	1.00
BXC0869-BS1	Toluene-d8	100	63.2	129	10.0	10.0	BXC0869	1.00
			Matrix Spike - EPA 8260D /5030A					
BXC0869-MS1	1,2-Dichloroethane-d4	87.3	64.2	126	43.6	50.0	BXC0869	1.00
BXC0869-MS1	4-Bromofluorobenzene	97.6	71.4	125	48.8	50.0	BXC0869	1.00
BXC0869-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BXC0869	1.00
			Matrix Spike Dup - EPA 8260D /5030A					
BXC0869-MSD1	1,2-Dichloroethane-d4	90.7	64.2	126	45.4	50.0	BXC0869	1.00
BXC0869-MSD1	4-Bromofluorobenzene	96.4	71.4	125	48.2	50.0	BXC0869	1.00
BXC0869-MSD1	Toluene-d8	100	63.2	129	50.0	50.0	BXC0869	1.00

Surrogate Recoveries (Field Samples)

LabNumber	Analyte	Result	SpkLvl	%Rec	LCL	UCL	Qualifier
	8260 Low Level Volatiles						
23C1353-03	Toluene-d8	10.0	10.0	100	63.2	129	
23C1353-03	4-Bromofluorobenzene	9.48	10.0	94.8	71.4	125	
23C1353-03	1,2-Dichloroethane-d4	9.53	10.0	95.3	64.2	126	
	8260 Low Level Volatiles						
23C1353-07	Toluene-d8	9.95	10.0	99.5	63.2	129	
23C1353-07	4-Bromofluorobenzene	9.45	10.0	94.5	71.4	125	
23C1353-07	1,2-Dichloroethane-d4	9.54	10.0	95.4	64.2	126	

Tab G

Quality Assurance and Data Validation Tables

G-1A: Quarterly Field QA/QC Evaluation

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
MW-11	29.25	58.59	58.50	okay	3057	3047	0.33	6.80	6.83	0.44	14.21	14.19	0.14	330	327	0.91	0	0	0.00	7.2	7.0	2.82
MW-14	17.66	39.06	35.32	okay	3940	3944	0.10	6.65	6.66	0.15	13.68	13.65	0.22	278	277	0.36	0	0	0.00	1.9	1.9	0.00
MW-17	26.05	53.16	52.10	okay	3722	3728	0.16	6.95	6.95	0.00	14.00	13.94	0.43	226	225	0.44	0	0	0.00	9.0	8.9	1.12
MW-24	7.19	15.36	14.38	okay	4478	4474	0.09	4.76	4.76	0.00	13.80	13.82	0.14	346	348	0.58	1.6	1.6	0.00	63.8	63.5	0.47
MW-24A	7.77	17.28	15.54	okay	4389	4326	1.45	4.75	4.73	0.42	14.01	14.00	0.07	349	351	0.57	3.0	2.9	3.39	85.1	85.0	0.12
MW-25	21.64	52.08	43.28	okay	3176	3190	0.44	6.45	6.47	0.31	14.18	14.17	0.07	414	408	1.46	7.0	6.8	2.90	5.0	5.1	1.98
MW-26	NA	Continuously Pumped well	--		3455		NC	6.71		NC	14.67		NC	382		NC	2.0		NC	42.0		NC
MW-27	23.66	47.74	47.32	okay	1233	1225	0.65	7.13	7.17	0.56	14.30	14.36	0.42	297	296	0.34	0	0	0.00	95.6	95.5	0.10
MW-28	23.14	47.74	46.28	okay	4170	4181	0.26	6.40	6.43	0.47	13.85	13.83	0.14	359	359	0.00	0	0	0.00	24.0	24.1	0.42
MW-29	18.42	39.06	36.84	okay	4611	4613	0.04	6.54	6.54	0.00	14.02	14.00	0.14	300	291	3.05	10.1	10.0	1.00	6.8	6.7	1.48
MW-30	22.58	45.57	45.16	okay	1600	1589	0.69	7.00	7.01	0.14	14.08	14.11	0.21	306	305	0.33	0	0	0.00	52.5	52.2	0.57
MW-31	39.47	80.29	78.94	okay	3506	3505	0.03	6.50	6.54	0.61	14.79	14.67	0.81	316	313	0.95	0	0	0.00	113.0	113.2	0.18
MW-32	30.86	65.10	61.72	okay	3711	3709	0.05	6.50	6.54	0.61	14.05	14.05	0.00	220	217	1.37	6.5	6.8	4.51	22.0	22.0	0.00
MW-36	7.29	16.27	14.58	okay	4940	4926	0.28	6.95	6.97	0.29	13.80	13.75	0.36	214	216	0.93	0	0	0.00	74.3	74.2	0.13
MW-37	10.41	15.00	20.82	Pumped Dry	4440	4444	0.09	6.60	6.55	0.76	13.99	14.03	0.29	NM		NC	NM		NC	NM		NC
MW-38	2.75	5.00	5.50	Pumped Dry	4344	4350	0.14	7.07	7.05	0.28	13.88	13.95	0.50	NM		NC	NM		NC	NM		NC
MW-39	24.61	52.08	49.22	okay	4880	4874	0.12	4.18	4.17	0.24	13.94	13.93	0.07	441	437	0.91	0	0	0.00	2.4	2.4	0.00
MW-40	26.41	53.16	52.82	okay	3921	3924	0.08	6.63	6.65	0.30	14.18	14.16	0.14	431	429	0.47	0	0	0.00	106.0	106.3	0.28

MW-26 is a continually pumped well.

MW-37 and 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

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
February																						
MW-11	29.22	58.59	58.44	okay	3010	3020	0.33	7.34	7.36	0.27	14.07	14.05	0.14	313	312	0.32	0	0	0.00	6.8	6.7	1.48
MW-25	21.40	45.57	42.80	okay	3229	3235	0.19	6.61	6.63	0.30	14.01	14.03	0.14	400	398	0.50	4.1	4.3	4.76	4.9	4.8	2.06
MW-26	NA	Continuously Pumped well	--		3402		NC	6.50		NC	16.50		NC	388		NC	0		NC	30.5		NC
MW-30	22.63	45.57	45.26	okay	2292	2289	0.13	6.74	6.77	0.44	14.15	14.15	0.00	317	315	0.63	0	0	0.00	53.0	53.4	0.75
MW-31	39.42	80.29	78.84	okay	3482	3493	0.32	6.67	6.70	0.45	14.40	14.45	0.35	385	381	1.04	0	0	0.00	111.7	111.6	0.09
March																						
MW-11	29.28	58.59	58.56	okay	3105	3102	0.10	6.97	7.01	0.57	14.59	14.55	0.27	387	385	0.52	127	130	2.33	5.6	5.6	0.00
MW-25	21.54	45.57	43.08	okay	2910	2830	2.79	6.94	6.93	0.14	14.18	14.13	0.35	337	337	0.00	0	0	0.00	4.4	4.2	4.65
MW-26	NA	Continuously Pumped well	--		3574		NC	6.59		NC	16.40		NC	381		NC	0		NC	34.5		NC
MW-30	22.82	46.65	45.64	okay	2292	2289	0.13	7.14	7.15	0.14	14.13	14.11	0.14	334	334	0.00	0	0	0.00	52.4	52.2	0.38
MW-31	39.42	80.29	78.84	okay	3511	3509	0.06	7.01	7.02	0.14	14.57	14.57	0.00	340	340	0.00	0	0	0.00	112.5	112.1	0.36

MW-26, is a continually pumped well.

There are no wells that were pumped dry and sampled after recovery.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

RPD = Relative Percent Difference

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Acetone	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Benzene	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Carbon Tetrachloride	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Chloroform	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Chloromethane	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Methyl Ethyl Ketone	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Methylene Chloride	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Naphthalene	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Tetrahydrofuran	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Toluene	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Xylenes, total	1/23/2023	1/30/2023	7	14	OK
Trip Blank	Acetone	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Benzene	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Carbon Tetrachloride	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Chloroform	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Chloromethane	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Methyl Ethyl Ketone	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Methylene Chloride	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Naphthalene	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Tetrahydrofuran	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Toluene	1/30/2023	2/3/2023	4	14	OK
Trip Blank	Xylenes, total	1/30/2023	2/3/2023	4	14	OK
MW-11	Acetone	1/25/2023	1/30/2023	5	14	OK
MW-11	Arsenic	1/25/2023	1/31/2023	6	180	OK
MW-11	Benzene	1/25/2023	1/30/2023	5	14	OK
MW-11	Beryllium	1/25/2023	1/31/2023	6	180	OK
MW-11	Bicarbonate as CaCO3	1/25/2023	1/27/2023	2	14	OK
MW-11	Cadmium	1/25/2023	1/31/2023	6	180	OK
MW-11	Calcium	1/25/2023	1/30/2023	5	180	OK
MW-11	Carbon Tetrachloride	1/25/2023	1/30/2023	5	14	OK
MW-11	Carbonate as CO3	1/25/2023	1/27/2023	2	14	OK
MW-11	Chloride	1/25/2023	1/31/2023	6	28	OK
MW-11	Chloroform	1/25/2023	1/30/2023	5	14	OK
MW-11	Chloromethane	1/25/2023	1/30/2023	5	14	OK
MW-11	Chromium	1/25/2023	1/31/2023	6	180	OK
MW-11	Cobalt	1/25/2023	1/31/2023	6	180	OK
MW-11	Copper	1/25/2023	1/31/2023	6	180	OK
MW-11	Fluoride	1/25/2023	1/31/2023	6	28	OK
MW-11	Gross Radium Alpha	1/25/2023	3/1/2023	35	180	OK
MW-11	Iron	1/25/2023	1/30/2023	5	180	OK
MW-11	Lead	1/25/2023	1/31/2023	6	180	OK
MW-11	Magnesium	1/25/2023	1/30/2023	5	180	OK
MW-11	Manganese	1/25/2023	1/31/2023	6	180	OK
MW-11	Mercury	1/25/2023	2/1/2023	7	180	OK
MW-11	Methyl Ethyl Ketone	1/25/2023	1/30/2023	5	14	OK
MW-11	Methylene Chloride	1/25/2023	1/30/2023	5	14	OK
MW-11	Molybdenum	1/25/2023	1/31/2023	6	180	OK
MW-11	Naphthalene	1/25/2023	1/30/2023	5	14	OK
MW-11	Nickel	1/25/2023	1/31/2023	6	180	OK
MW-11	Nitrate + Nitrite as N	1/25/2023	1/31/2023	6	28	OK
MW-11	Nitrogen, Ammonia as N	1/25/2023	2/2/2023	8	28	OK
MW-11	Potassium	1/25/2023	1/30/2023	5	180	OK
MW-11	Selenium	1/25/2023	1/31/2023	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	1/25/2023	1/31/2023	6	180	OK
MW-11	Sodium	1/25/2023	1/30/2023	5	180	OK
MW-11	Sulfate	1/25/2023	1/31/2023	6	28	OK
MW-11	Tetrahydrofuran	1/25/2023	1/30/2023	5	14	OK
MW-11	Thallium	1/25/2023	1/31/2023	6	180	OK
MW-11	Tin	1/25/2023	1/30/2023	5	180	OK
MW-11	Toluene	1/25/2023	1/30/2023	5	14	OK
MW-11	Total Dissolved Solids	1/25/2023	1/27/2023	2	7	OK
MW-11	Uranium	1/25/2023	1/31/2023	6	180	OK
MW-11	Vanadium	1/25/2023	1/31/2023	6	180	OK
MW-11	Xylenes, total	1/25/2023	1/30/2023	5	14	OK
MW-11	Zinc	1/25/2023	1/31/2023	6	180	OK
MW-12	Selenium	1/26/2023	2/9/2023	14	180	OK
MW-12	Uranium	1/26/2023	2/9/2023	14	180	OK
MW-14	Acetone	1/26/2023	1/30/2023	4	14	OK
MW-14	Arsenic	1/26/2023	1/31/2023	5	180	OK
MW-14	Benzene	1/26/2023	1/30/2023	4	14	OK
MW-14	Beryllium	1/26/2023	1/31/2023	5	180	OK
MW-14	Bicarbonate as CaCO3	1/26/2023	1/27/2023	1	14	OK
MW-14	Cadmium	1/26/2023	1/31/2023	5	180	OK
MW-14	Calcium	1/26/2023	1/30/2023	4	180	OK
MW-14	Carbon Tetrachloride	1/26/2023	1/30/2023	4	14	OK
MW-14	Carbonate as CO3	1/26/2023	1/27/2023	1	14	OK
MW-14	Chloride	1/26/2023	1/31/2023	5	28	OK
MW-14	Chloroform	1/26/2023	1/30/2023	4	14	OK
MW-14	Chloromethane	1/26/2023	1/30/2023	4	14	OK
MW-14	Chromium	1/26/2023	1/31/2023	5	180	OK
MW-14	Cobalt	1/26/2023	1/31/2023	5	180	OK
MW-14	Copper	1/26/2023	1/31/2023	5	180	OK
MW-14	Fluoride	1/26/2023	1/31/2023	5	28	OK
MW-14	Gross Radium Alpha	1/26/2023	3/1/2023	34	180	OK
MW-14	Iron	1/26/2023	1/30/2023	4	180	OK
MW-14	Lead	1/26/2023	1/31/2023	5	180	OK
MW-14	Magnesium	1/26/2023	1/30/2023	4	180	OK
MW-14	Manganese	1/26/2023	1/31/2023	5	180	OK
MW-14	Mercury	1/26/2023	2/1/2023	6	180	OK
MW-14	Methyl Ethyl Ketone	1/26/2023	1/30/2023	4	14	OK
MW-14	Methylene Chloride	1/26/2023	1/30/2023	4	14	OK
MW-14	Molybdenum	1/26/2023	1/31/2023	5	180	OK
MW-14	Naphthalene	1/26/2023	1/30/2023	4	14	OK
MW-14	Nickel	1/26/2023	1/31/2023	5	180	OK
MW-14	Nitrate + Nitrite as N	1/26/2023	1/31/2023	5	28	OK
MW-14	Nitrogen, Ammonia as N	1/26/2023	2/2/2023	7	28	OK
MW-14	Potassium	1/26/2023	1/30/2023	4	180	OK
MW-14	Selenium	1/26/2023	1/31/2023	5	180	OK
MW-14	Silver	1/26/2023	1/31/2023	5	180	OK
MW-14	Sodium	1/26/2023	1/30/2023	4	180	OK
MW-14	Sulfate	1/26/2023	1/31/2023	5	28	OK
MW-14	Tetrahydrofuran	1/26/2023	1/30/2023	4	14	OK
MW-14	Thallium	1/26/2023	1/31/2023	5	180	OK
MW-14	Tin	1/26/2023	1/30/2023	4	180	OK
MW-14	Toluene	1/26/2023	1/30/2023	4	14	OK
MW-14	Total Dissolved Solids	1/26/2023	1/27/2023	1	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	1/26/2023	1/31/2023	5	180	OK
MW-14	Vanadium	1/26/2023	1/31/2023	5	180	OK
MW-14	Xylenes, total	1/26/2023	1/30/2023	4	14	OK
MW-14	Zinc	1/26/2023	1/31/2023	5	180	OK
MW-17	Chloride	1/30/2023	2/7/2023	8	28	OK
MW-24	Acetone	1/31/2023	2/3/2023	3	14	OK
MW-24	Arsenic	1/31/2023	2/9/2023	9	180	OK
MW-24	Benzene	1/31/2023	2/3/2023	3	14	OK
MW-24	Beryllium	1/31/2023	2/9/2023	9	180	OK
MW-24	Bicarbonate as CaCO3	1/31/2023	2/3/2023	3	14	OK
MW-24	Cadmium	1/31/2023	2/9/2023	9	180	OK
MW-24	Calcium	1/31/2023	2/6/2023	6	180	OK
MW-24	Carbon Tetrachloride	1/31/2023	2/3/2023	3	14	OK
MW-24	Carbonate as CO3	1/31/2023	2/3/2023	3	14	OK
MW-24	Chloride	1/31/2023	2/7/2023	7	28	OK
MW-24	Chloroform	1/31/2023	2/3/2023	3	14	OK
MW-24	Chloromethane	1/31/2023	2/3/2023	3	14	OK
MW-24	Chromium	1/31/2023	2/9/2023	9	180	OK
MW-24	Cobalt	1/31/2023	2/9/2023	9	180	OK
MW-24	Copper	1/31/2023	2/9/2023	9	180	OK
MW-24	Fluoride	1/31/2023	2/7/2023	7	28	OK
MW-24	Gross Radium Alpha	1/31/2023	3/1/2023	29	180	OK
MW-24	Iron	1/31/2023	2/6/2023	6	180	OK
MW-24	Lead	1/31/2023	2/9/2023	9	180	OK
MW-24	Magnesium	1/31/2023	2/6/2023	6	180	OK
MW-24	Manganese	1/31/2023	2/9/2023	9	180	OK
MW-24	Mercury	1/31/2023	2/13/2023	13	180	OK
MW-24	Methyl Ethyl Ketone	1/31/2023	2/3/2023	3	14	OK
MW-24	Methylene Chloride	1/31/2023	2/3/2023	3	14	OK
MW-24	Molybdenum	1/31/2023	2/9/2023	9	180	OK
MW-24	Naphthalene	1/31/2023	2/3/2023	3	14	OK
MW-24	Nickel	1/31/2023	2/9/2023	9	180	OK
MW-24	Nitrate + Nitrite as N	1/31/2023	2/7/2023	7	28	OK
MW-24	Nitrogen, Ammonia as N	1/31/2023	2/13/2023	13	28	OK
MW-24	Potassium	1/31/2023	2/6/2023	6	180	OK
MW-24	Selenium	1/31/2023	2/9/2023	9	180	OK
MW-24	Silver	1/31/2023	2/9/2023	9	180	OK
MW-24	Sodium	1/31/2023	2/6/2023	6	180	OK
MW-24	Sulfate	1/31/2023	2/7/2023	7	28	OK
MW-24	Tetrahydrofuran	1/31/2023	2/3/2023	3	14	OK
MW-24	Thallium	1/31/2023	2/9/2023	9	180	OK
MW-24	Tin	1/31/2023	2/6/2023	6	180	OK
MW-24	Toluene	1/31/2023	2/3/2023	3	14	OK
MW-24	Total Dissolved Solids	1/31/2023	2/2/2023	2	7	OK
MW-24	Uranium	1/31/2023	2/9/2023	9	180	OK
MW-24	Vanadium	1/31/2023	2/9/2023	9	180	OK
MW-24	Xylenes, total	1/31/2023	2/3/2023	3	14	OK
MW-24	Zinc	1/31/2023	2/9/2023	9	180	OK
MW-24A	Acetone	1/31/2023	2/3/2023	3	14	OK
MW-24A	Arsenic	1/31/2023	2/9/2023	9	180	OK
MW-24A	Benzene	1/31/2023	2/3/2023	3	14	OK
MW-24A	Beryllium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Bicarbonate as CaCO3	1/31/2023	2/3/2023	3	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-24A	Cadmium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Calcium	1/31/2023	2/6/2023	6	180	OK
MW-24A	Carbon Tetrachloride	1/31/2023	2/3/2023	3	14	OK
MW-24A	Carbonate as CO3	1/31/2023	2/3/2023	3	14	OK
MW-24A	Chloride	1/31/2023	2/7/2023	7	28	OK
MW-24A	Chloroform	1/31/2023	2/3/2023	3	14	OK
MW-24A	Chloromethane	1/31/2023	2/3/2023	3	14	OK
MW-24A	Chromium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Cobalt	1/31/2023	2/9/2023	9	180	OK
MW-24A	Copper	1/31/2023	2/9/2023	9	180	OK
MW-24A	Fluoride	1/31/2023	2/7/2023	7	28	OK
MW-24A	Gross Radium Alpha	1/31/2023	3/2/2023	30	180	OK
MW-24A	Iron	1/31/2023	2/6/2023	6	180	OK
MW-24A	Lead	1/31/2023	2/9/2023	9	180	OK
MW-24A	Magnesium	1/31/2023	2/6/2023	6	180	OK
MW-24A	Manganese	1/31/2023	2/9/2023	9	180	OK
MW-24A	Mercury	1/31/2023	2/13/2023	13	180	OK
MW-24A	Methyl Ethyl Ketone	1/31/2023	2/3/2023	3	14	OK
MW-24A	Methylene Chloride	1/31/2023	2/3/2023	3	14	OK
MW-24A	Molybdenum	1/31/2023	2/9/2023	9	180	OK
MW-24A	Naphthalene	1/31/2023	2/3/2023	3	14	OK
MW-24A	Nickel	1/31/2023	2/9/2023	9	180	OK
MW-24A	Nitrate + Nitrite as N	1/31/2023	2/7/2023	7	28	OK
MW-24A	Nitrogen, Ammonia as N	1/31/2023	2/13/2023	13	28	OK
MW-24A	Potassium	1/31/2023	2/6/2023	6	180	OK
MW-24A	Selenium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Silver	1/31/2023	2/9/2023	9	180	OK
MW-24A	Sodium	1/31/2023	2/6/2023	6	180	OK
MW-24A	Sulfate	1/31/2023	2/7/2023	7	28	OK
MW-24A	Tetrahydrofuran	1/31/2023	2/3/2023	3	14	OK
MW-24A	Thallium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Tin	1/31/2023	2/6/2023	6	180	OK
MW-24A	Toluene	1/31/2023	2/3/2023	3	14	OK
MW-24A	Total Dissolved Solids	1/31/2023	2/2/2023	2	7	OK
MW-24A	Uranium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Vanadium	1/31/2023	2/9/2023	9	180	OK
MW-24A	Xylenes, total	1/31/2023	2/3/2023	3	14	OK
MW-24A	Zinc	1/31/2023	2/9/2023	9	180	OK
MW-25	Acetone	1/23/2023	1/30/2023	7	14	OK
MW-25	Arsenic	1/23/2023	1/31/2023	8	180	OK
MW-25	Benzene	1/23/2023	1/30/2023	7	14	OK
MW-25	Beryllium	1/23/2023	1/31/2023	8	180	OK
MW-25	Bicarbonate as CaCO3	1/23/2023	1/27/2023	4	14	OK
MW-25	Cadmium	1/23/2023	1/31/2023	8	180	OK
MW-25	Calcium	1/23/2023	1/30/2023	7	180	OK
MW-25	Carbon Tetrachloride	1/23/2023	1/30/2023	7	14	OK
MW-25	Carbonate as CO3	1/23/2023	1/27/2023	4	14	OK
MW-25	Chloride	1/23/2023	1/31/2023	8	28	OK
MW-25	Chloroform	1/23/2023	1/30/2023	7	14	OK
MW-25	Chloromethane	1/23/2023	1/30/2023	7	14	OK
MW-25	Chromium	1/23/2023	1/31/2023	8	180	OK
MW-25	Cobalt	1/23/2023	1/31/2023	8	180	OK
MW-25	Copper	1/23/2023	1/31/2023	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-25	Fluoride	1/23/2023	1/31/2023	8	28	OK
MW-25	Gross Radium Alpha	1/23/2023	3/2/2023	38	180	OK
MW-25	Iron	1/23/2023	1/30/2023	7	180	OK
MW-25	Lead	1/23/2023	1/31/2023	8	180	OK
MW-25	Magnesium	1/23/2023	1/30/2023	7	180	OK
MW-25	Manganese	1/23/2023	1/31/2023	8	180	OK
MW-25	Mercury	1/23/2023	2/1/2023	9	180	OK
MW-25	Methyl Ethyl Ketone	1/23/2023	1/30/2023	7	14	OK
MW-25	Methylene Chloride	1/23/2023	1/30/2023	7	14	OK
MW-25	Molybdenum	1/23/2023	1/31/2023	8	180	OK
MW-25	Naphthalene	1/23/2023	1/30/2023	7	14	OK
MW-25	Nickel	1/23/2023	1/31/2023	8	180	OK
MW-25	Nitrate + Nitrite as N	1/23/2023	1/31/2023	8	28	OK
MW-25	Nitrogen, Ammonia as N	1/23/2023	2/2/2023	10	28	OK
MW-25	Potassium	1/23/2023	1/30/2023	7	180	OK
MW-25	Selenium	1/23/2023	1/31/2023	8	180	OK
MW-25	Silver	1/23/2023	1/31/2023	8	180	OK
MW-25	Sodium	1/23/2023	1/30/2023	7	180	OK
MW-25	Sulfate	1/23/2023	1/31/2023	8	28	OK
MW-25	Tetrahydrofuran	1/23/2023	1/30/2023	7	14	OK
MW-25	Thallium	1/23/2023	1/31/2023	8	180	OK
MW-25	Tin	1/23/2023	1/30/2023	7	180	OK
MW-25	Toluene	1/23/2023	1/30/2023	7	14	OK
MW-25	Total Dissolved Solids	1/23/2023	1/27/2023	4	7	OK
MW-25	Uranium	1/23/2023	1/31/2023	8	180	OK
MW-25	Vanadium	1/23/2023	1/31/2023	8	180	OK
MW-25	Xylenes, total	1/23/2023	1/30/2023	7	14	OK
MW-25	Zinc	1/23/2023	1/31/2023	8	180	OK
MW-26	Acetone	1/26/2023	1/30/2023	4	14	OK
MW-26	Arsenic	1/26/2023	1/31/2023	5	180	OK
MW-26	Benzene	1/26/2023	1/30/2023	4	14	OK
MW-26	Beryllium	1/26/2023	1/31/2023	5	180	OK
MW-26	Bicarbonate as CaCO3	1/26/2023	1/27/2023	1	14	OK
MW-26	Cadmium	1/26/2023	1/31/2023	5	180	OK
MW-26	Calcium	1/26/2023	1/30/2023	4	180	OK
MW-26	Carbon Tetrachloride	1/26/2023	1/30/2023	4	14	OK
MW-26	Carbonate as CO3	1/26/2023	1/27/2023	1	14	OK
MW-26	Chloride	1/26/2023	1/31/2023	5	28	OK
MW-26	Chloroform	1/26/2023	1/30/2023	4	14	OK
MW-26	Chloromethane	1/26/2023	1/30/2023	4	14	OK
MW-26	Chromium	1/26/2023	1/31/2023	5	180	OK
MW-26	Cobalt	1/26/2023	1/31/2023	5	180	OK
MW-26	Copper	1/26/2023	1/31/2023	5	180	OK
MW-26	Fluoride	1/26/2023	1/31/2023	5	28	OK
MW-26	Gross Radium Alpha	1/26/2023	3/2/2023	35	180	OK
MW-26	Iron	1/26/2023	1/30/2023	4	180	OK
MW-26	Lead	1/26/2023	1/31/2023	5	180	OK
MW-26	Magnesium	1/26/2023	1/30/2023	4	180	OK
MW-26	Manganese	1/26/2023	1/31/2023	5	180	OK
MW-26	Mercury	1/26/2023	2/1/2023	6	180	OK
MW-26	Methyl Ethyl Ketone	1/26/2023	1/30/2023	4	14	OK
MW-26	Methylene Chloride	1/26/2023	1/30/2023	4	14	OK
MW-26	Molybdenum	1/26/2023	1/31/2023	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-26	Naphthalene	1/26/2023	1/30/2023	4	14	OK
MW-26	Nickel	1/26/2023	1/31/2023	5	180	OK
MW-26	Nitrate + Nitrite as N	1/26/2023	1/31/2023	5	28	OK
MW-26	Nitrogen, Ammonia as N	1/26/2023	2/2/2023	7	28	OK
MW-26	Potassium	1/26/2023	1/30/2023	4	180	OK
MW-26	Selenium	1/26/2023	1/31/2023	5	180	OK
MW-26	Silver	1/26/2023	1/31/2023	5	180	OK
MW-26	Sodium	1/26/2023	1/30/2023	4	180	OK
MW-26	Sulfate	1/26/2023	1/31/2023	5	28	OK
MW-26	Tetrahydrofuran	1/26/2023	1/30/2023	4	14	OK
MW-26	Thallium	1/26/2023	1/31/2023	5	180	OK
MW-26	Tin	1/26/2023	1/30/2023	4	180	OK
MW-26	Toluene	1/26/2023	1/30/2023	4	14	OK
MW-26	Total Dissolved Solids	1/26/2023	1/27/2023	1	7	OK
MW-26	Uranium	1/26/2023	1/31/2023	5	180	OK
MW-26	Vanadium	1/26/2023	1/31/2023	5	180	OK
MW-26	Xylenes, total	1/26/2023	1/30/2023	4	14	OK
MW-26	Zinc	1/26/2023	1/31/2023	5	180	OK
MW-27	Fluoride	1/27/2023	2/7/2023	11	28	OK
MW-27	Nitrate + Nitrite as N	1/27/2023	2/7/2023	11	28	OK
MW-28	Chloride	1/27/2023	2/7/2023	11	28	OK
MW-28	Nitrate + Nitrite as N	1/27/2023	2/7/2023	11	28	OK
MW-28	Selenium	1/27/2023	2/17/2023	21	180	OK
MW-28	Uranium	1/27/2023	2/9/2023	13	180	OK
MW-29	Uranium	1/27/2023	2/9/2023	13	180	OK
MW-30	Acetone	1/25/2023	1/30/2023	5	14	OK
MW-30	Arsenic	1/25/2023	1/31/2023	6	180	OK
MW-30	Benzene	1/25/2023	1/30/2023	5	14	OK
MW-30	Beryllium	1/25/2023	1/31/2023	6	180	OK
MW-30	Bicarbonate as CaCO3	1/25/2023	1/27/2023	2	14	OK
MW-30	Cadmium	1/25/2023	1/31/2023	6	180	OK
MW-30	Calcium	1/25/2023	1/30/2023	5	180	OK
MW-30	Carbon Tetrachloride	1/25/2023	1/30/2023	5	14	OK
MW-30	Carbonate as CO3	1/25/2023	1/27/2023	2	14	OK
MW-30	Chloride	1/25/2023	1/31/2023	6	28	OK
MW-30	Chloroform	1/25/2023	1/30/2023	5	14	OK
MW-30	Chloromethane	1/25/2023	1/30/2023	5	14	OK
MW-30	Chromium	1/25/2023	1/31/2023	6	180	OK
MW-30	Cobalt	1/25/2023	1/31/2023	6	180	OK
MW-30	Copper	1/25/2023	1/31/2023	6	180	OK
MW-30	Fluoride	1/25/2023	1/31/2023	6	28	OK
MW-30	Gross Radium Alpha	1/25/2023	3/1/2023	35	180	OK
MW-30	Iron	1/25/2023	1/30/2023	5	180	OK
MW-30	Lead	1/25/2023	1/31/2023	6	180	OK
MW-30	Magnesium	1/25/2023	1/30/2023	5	180	OK
MW-30	Manganese	1/25/2023	1/31/2023	6	180	OK
MW-30	Mercury	1/25/2023	2/1/2023	7	180	OK
MW-30	Methyl Ethyl Ketone	1/25/2023	1/30/2023	5	14	OK
MW-30	Methylene Chloride	1/25/2023	1/30/2023	5	14	OK
MW-30	Molybdenum	1/25/2023	1/31/2023	6	180	OK
MW-30	Naphthalene	1/25/2023	1/30/2023	5	14	OK
MW-30	Nickel	1/25/2023	1/31/2023	6	180	OK
MW-30	Nitrate + Nitrite as N	1/25/2023	1/31/2023	6	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Nitrogen, Ammonia as N	1/25/2023	2/2/2023	8	28	OK
MW-30	Potassium	1/25/2023	1/30/2023	5	180	OK
MW-30	Selenium	1/25/2023	1/31/2023	6	180	OK
MW-30	Silver	1/25/2023	1/31/2023	6	180	OK
MW-30	Sodium	1/25/2023	1/30/2023	5	180	OK
MW-30	Sulfate	1/25/2023	1/31/2023	6	28	OK
MW-30	Tetrahydrofuran	1/25/2023	1/30/2023	5	14	OK
MW-30	Thallium	1/25/2023	1/31/2023	6	180	OK
MW-30	Tin	1/25/2023	1/30/2023	5	180	OK
MW-30	Toluene	1/25/2023	1/30/2023	5	14	OK
MW-30	Total Dissolved Solids	1/25/2023	1/27/2023	2	7	OK
MW-30	Uranium	1/25/2023	1/31/2023	6	180	OK
MW-30	Vanadium	1/25/2023	1/31/2023	6	180	OK
MW-30	Xylenes, total	1/25/2023	1/30/2023	5	14	OK
MW-30	Zinc	1/25/2023	1/31/2023	6	180	OK
MW-31	Acetone	1/24/2023	1/30/2023	6	14	OK
MW-31	Arsenic	1/24/2023	1/31/2023	7	180	OK
MW-31	Benzene	1/24/2023	1/30/2023	6	14	OK
MW-31	Beryllium	1/24/2023	1/31/2023	7	180	OK
MW-31	Bicarbonate as CaCO3	1/24/2023	1/27/2023	3	14	OK
MW-31	Cadmium	1/24/2023	1/31/2023	7	180	OK
MW-31	Calcium	1/24/2023	1/30/2023	6	180	OK
MW-31	Carbon Tetrachloride	1/24/2023	1/30/2023	6	14	OK
MW-31	Carbonate as CO3	1/24/2023	1/27/2023	3	14	OK
MW-31	Chloride	1/24/2023	1/31/2023	7	28	OK
MW-31	Chloroform	1/24/2023	1/30/2023	6	14	OK
MW-31	Chloromethane	1/24/2023	1/30/2023	6	14	OK
MW-31	Chromium	1/24/2023	1/31/2023	7	180	OK
MW-31	Cobalt	1/24/2023	1/31/2023	7	180	OK
MW-31	Copper	1/24/2023	1/31/2023	7	180	OK
MW-31	Fluoride	1/24/2023	1/31/2023	7	28	OK
MW-31	Gross Radium Alpha	1/24/2023	3/1/2023	36	180	OK
MW-31	Iron	1/24/2023	1/30/2023	6	180	OK
MW-31	Lead	1/24/2023	1/31/2023	7	180	OK
MW-31	Magnesium	1/24/2023	1/30/2023	6	180	OK
MW-31	Manganese	1/24/2023	1/31/2023	7	180	OK
MW-31	Mercury	1/24/2023	2/1/2023	8	180	OK
MW-31	Methyl Ethyl Ketone	1/24/2023	1/30/2023	6	14	OK
MW-31	Methylene Chloride	1/24/2023	1/30/2023	6	14	OK
MW-31	Molybdenum	1/24/2023	1/31/2023	7	180	OK
MW-31	Naphthalene	1/24/2023	1/30/2023	6	14	OK
MW-31	Nickel	1/24/2023	1/31/2023	7	180	OK
MW-31	Nitrate + Nitrite as N	1/24/2023	1/31/2023	7	28	OK
MW-31	Nitrogen, Ammonia as N	1/24/2023	2/2/2023	9	28	OK
MW-31	Potassium	1/24/2023	1/30/2023	6	180	OK
MW-31	Selenium	1/24/2023	1/31/2023	7	180	OK
MW-31	Silver	1/24/2023	1/31/2023	7	180	OK
MW-31	Sodium	1/24/2023	1/30/2023	6	180	OK
MW-31	Sulfate	1/24/2023	1/31/2023	7	28	OK
MW-31	Tetrahydrofuran	1/24/2023	1/30/2023	6	14	OK
MW-31	Thallium	1/24/2023	1/31/2023	7	180	OK
MW-31	Tin	1/24/2023	1/30/2023	6	180	OK
MW-31	Toluene	1/24/2023	1/30/2023	6	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-31	Total Dissolved Solids	1/24/2023	1/27/2023	3	7	OK
MW-31	Uranium	1/24/2023	1/31/2023	7	180	OK
MW-31	Vanadium	1/24/2023	1/31/2023	7	180	OK
MW-31	Xylenes, total	1/24/2023	1/30/2023	6	14	OK
MW-31	Zinc	1/24/2023	1/31/2023	7	180	OK
MW-32	Chloride	1/30/2023	2/7/2023	8	28	OK
MW-36	Acetone	1/30/2023	2/3/2023	4	14	OK
MW-36	Arsenic	1/30/2023	2/9/2023	10	180	OK
MW-36	Benzene	1/30/2023	2/3/2023	4	14	OK
MW-36	Beryllium	1/30/2023	2/9/2023	10	180	OK
MW-36	Bicarbonate as CaCO3	1/30/2023	2/3/2023	4	14	OK
MW-36	Cadmium	1/30/2023	2/9/2023	10	180	OK
MW-36	Calcium	1/30/2023	2/6/2023	7	180	OK
MW-36	Carbon Tetrachloride	1/30/2023	2/3/2023	4	14	OK
MW-36	Carbonate as CO3	1/30/2023	2/3/2023	4	14	OK
MW-36	Chloride	1/30/2023	2/7/2023	8	28	OK
MW-36	Chloroform	1/30/2023	2/3/2023	4	14	OK
MW-36	Chloromethane	1/30/2023	2/3/2023	4	14	OK
MW-36	Chromium	1/30/2023	2/9/2023	10	180	OK
MW-36	Cobalt	1/30/2023	2/9/2023	10	180	OK
MW-36	Copper	1/30/2023	2/9/2023	10	180	OK
MW-36	Fluoride	1/30/2023	2/7/2023	8	28	OK
MW-36	Gross Radium Alpha	1/30/2023	3/2/2023	31	180	OK
MW-36	Iron	1/30/2023	2/6/2023	7	180	OK
MW-36	Lead	1/30/2023	2/9/2023	10	180	OK
MW-36	Magnesium	1/30/2023	2/6/2023	7	180	OK
MW-36	Manganese	1/30/2023	2/9/2023	10	180	OK
MW-36	Mercury	1/30/2023	2/13/2023	14	180	OK
MW-36	Methyl Ethyl Ketone	1/30/2023	2/3/2023	4	14	OK
MW-36	Methylene Chloride	1/30/2023	2/3/2023	4	14	OK
MW-36	Molybdenum	1/30/2023	2/9/2023	10	180	OK
MW-36	Naphthalene	1/30/2023	2/3/2023	4	14	OK
MW-36	Nickel	1/30/2023	2/9/2023	10	180	OK
MW-36	Nitrate + Nitrite as N	1/30/2023	2/7/2023	8	28	OK
MW-36	Nitrogen, Ammonia as N	1/30/2023	2/13/2023	14	28	OK
MW-36	Potassium	1/30/2023	2/6/2023	7	180	OK
MW-36	Selenium	1/30/2023	2/9/2023	10	180	OK
MW-36	Silver	1/30/2023	2/9/2023	10	180	OK
MW-36	Sodium	1/30/2023	2/6/2023	7	180	OK
MW-36	Sulfate	1/30/2023	2/7/2023	8	28	OK
MW-36	Tetrahydrofuran	1/30/2023	2/3/2023	4	14	OK
MW-36	Thallium	1/30/2023	2/9/2023	10	180	OK
MW-36	Tin	1/30/2023	2/6/2023	7	180	OK
MW-36	Toluene	1/30/2023	2/3/2023	4	14	OK
MW-36	Total Dissolved Solids	1/30/2023	2/2/2023	3	7	OK
MW-36	Uranium	1/30/2023	2/9/2023	10	180	OK
MW-36	Vanadium	1/30/2023	2/9/2023	10	180	OK
MW-36	Xylenes, total	1/30/2023	2/3/2023	4	14	OK
MW-36	Zinc	1/30/2023	2/9/2023	10	180	OK
MW-38	Acetone	2/1/2023	2/3/2023	2	14	OK
MW-38	Arsenic	2/1/2023	2/9/2023	8	180	OK
MW-38	Benzene	2/1/2023	2/3/2023	2	14	OK
MW-38	Beryllium	2/1/2023	2/9/2023	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-38	Bicarbonate as CaCO3	2/1/2023	2/3/2023	2	14	OK
MW-38	Cadmium	2/1/2023	2/9/2023	8	180	OK
MW-38	Calcium	2/1/2023	2/6/2023	5	180	OK
MW-38	Carbon Tetrachloride	2/1/2023	2/3/2023	2	14	OK
MW-38	Carbonate as CO3	2/1/2023	2/3/2023	2	14	OK
MW-38	Chloride	2/1/2023	2/7/2023	6	28	OK
MW-38	Chloroform	2/1/2023	2/3/2023	2	14	OK
MW-38	Chloromethane	2/1/2023	2/3/2023	2	14	OK
MW-38	Chromium	2/1/2023	2/9/2023	8	180	OK
MW-38	Cobalt	2/1/2023	2/9/2023	8	180	OK
MW-38	Copper	2/1/2023	2/9/2023	8	180	OK
MW-38	Fluoride	2/1/2023	2/7/2023	6	28	OK
MW-38	Gross Radium Alpha	2/1/2023	3/1/2023	28	180	OK
MW-38	Iron	2/1/2023	2/6/2023	5	180	OK
MW-38	Lead	2/1/2023	2/9/2023	8	180	OK
MW-38	Magnesium	2/1/2023	2/6/2023	5	180	OK
MW-38	Manganese	2/1/2023	2/9/2023	8	180	OK
MW-38	Mercury	2/1/2023	2/13/2023	12	180	OK
MW-38	Methyl Ethyl Ketone	2/1/2023	2/3/2023	2	14	OK
MW-38	Methylene Chloride	2/1/2023	2/3/2023	2	14	OK
MW-38	Molybdenum	2/1/2023	2/9/2023	8	180	OK
MW-38	Naphthalene	2/1/2023	2/3/2023	2	14	OK
MW-38	Nickel	2/1/2023	2/9/2023	8	180	OK
MW-38	Nitrate + Nitrite as N	2/1/2023	2/7/2023	6	28	OK
MW-38	Nitrogen, Ammonia as N	2/1/2023	2/13/2023	12	28	OK
MW-38	Potassium	2/1/2023	2/6/2023	5	180	OK
MW-38	Selenium	2/1/2023	2/9/2023	8	180	OK
MW-38	Silver	2/1/2023	2/9/2023	8	180	OK
MW-38	Sodium	2/1/2023	2/6/2023	5	180	OK
MW-38	Sulfate	2/1/2023	2/7/2023	6	28	OK
MW-38	Tetrahydrofuran	2/1/2023	2/3/2023	2	14	OK
MW-38	Thallium	2/1/2023	2/9/2023	8	180	OK
MW-38	Tin	2/1/2023	2/6/2023	5	180	OK
MW-38	Toluene	2/1/2023	2/3/2023	2	14	OK
MW-38	Total Dissolved Solids	2/1/2023	2/2/2023	1	7	OK
MW-38	Uranium	2/1/2023	2/9/2023	8	180	OK
MW-38	Vanadium	2/1/2023	2/9/2023	8	180	OK
MW-38	Xylenes, total	2/1/2023	2/3/2023	2	14	OK
MW-38	Zinc	2/1/2023	2/9/2023	8	180	OK
MW-39	Acetone	2/1/2023	2/3/2023	2	14	OK
MW-39	Arsenic	2/1/2023	2/9/2023	8	180	OK
MW-39	Benzene	2/1/2023	2/3/2023	2	14	OK
MW-39	Beryllium	2/1/2023	2/9/2023	8	180	OK
MW-39	Bicarbonate as CaCO3	2/1/2023	2/3/2023	2	14	OK
MW-39	Cadmium	2/1/2023	2/9/2023	8	180	OK
MW-39	Calcium	2/1/2023	2/6/2023	5	180	OK
MW-39	Carbon Tetrachloride	2/1/2023	2/3/2023	2	14	OK
MW-39	Carbonate as CO3	2/1/2023	2/3/2023	2	14	OK
MW-39	Chloride	2/1/2023	2/7/2023	6	28	OK
MW-39	Chloroform	2/1/2023	2/3/2023	2	14	OK
MW-39	Chloromethane	2/1/2023	2/3/2023	2	14	OK
MW-39	Chromium	2/1/2023	2/9/2023	8	180	OK
MW-39	Cobalt	2/1/2023	2/9/2023	8	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-39	Copper	2/1/2023	2/9/2023	8	180	OK
MW-39	Fluoride	2/1/2023	2/7/2023	6	28	OK
MW-39	Gross Radium Alpha	2/1/2023	3/1/2023	28	180	OK
MW-39	Iron	2/1/2023	2/6/2023	5	180	OK
MW-39	Lead	2/1/2023	2/9/2023	8	180	OK
MW-39	Magnesium	2/1/2023	2/6/2023	5	180	OK
MW-39	Manganese	2/1/2023	2/9/2023	8	180	OK
MW-39	Mercury	2/1/2023	2/13/2023	12	180	OK
MW-39	Methyl Ethyl Ketone	2/1/2023	2/3/2023	2	14	OK
MW-39	Methylene Chloride	2/1/2023	2/3/2023	2	14	OK
MW-39	Molybdenum	2/1/2023	2/9/2023	8	180	OK
MW-39	Naphthalene	2/1/2023	2/3/2023	2	14	OK
MW-39	Nickel	2/1/2023	2/9/2023	8	180	OK
MW-39	Nitrate + Nitrite as N	2/1/2023	2/7/2023	6	28	OK
MW-39	Nitrogen, Ammonia as N	2/1/2023	2/13/2023	12	28	OK
MW-39	Potassium	2/1/2023	2/6/2023	5	180	OK
MW-39	Selenium	2/1/2023	2/9/2023	8	180	OK
MW-39	Silver	2/1/2023	2/9/2023	8	180	OK
MW-39	Sodium	2/1/2023	2/6/2023	5	180	OK
MW-39	Sulfate	2/1/2023	2/7/2023	6	28	OK
MW-39	Tetrahydrofuran	2/1/2023	2/3/2023	2	14	OK
MW-39	Thallium	2/1/2023	2/9/2023	8	180	OK
MW-39	Tin	2/1/2023	2/6/2023	5	180	OK
MW-39	Toluene	2/1/2023	2/3/2023	2	14	OK
MW-39	Total Dissolved Solids	2/1/2023	2/2/2023	1	7	OK
MW-39	Uranium	2/1/2023	2/9/2023	8	180	OK
MW-39	Vanadium	2/1/2023	2/9/2023	8	180	OK
MW-39	Xylenes, total	2/1/2023	2/3/2023	2	14	OK
MW-39	Zinc	2/1/2023	2/9/2023	8	180	OK
MW-40	Acetone	1/30/2023	2/3/2023	4	14	OK
MW-40	Arsenic	1/30/2023	2/9/2023	10	180	OK
MW-40	Benzene	1/30/2023	2/3/2023	4	14	OK
MW-40	Beryllium	1/30/2023	2/9/2023	10	180	OK
MW-40	Bicarbonate as CaCO3	1/30/2023	2/3/2023	4	14	OK
MW-40	Cadmium	1/30/2023	2/9/2023	10	180	OK
MW-40	Calcium	1/30/2023	2/6/2023	7	180	OK
MW-40	Carbon Tetrachloride	1/30/2023	2/3/2023	4	14	OK
MW-40	Carbonate as CO3	1/30/2023	2/3/2023	4	14	OK
MW-40	Chloride	1/30/2023	2/7/2023	8	28	OK
MW-40	Chloroform	1/30/2023	2/3/2023	4	14	OK
MW-40	Chloromethane	1/30/2023	2/3/2023	4	14	OK
MW-40	Chromium	1/30/2023	2/9/2023	10	180	OK
MW-40	Cobalt	1/30/2023	2/9/2023	10	180	OK
MW-40	Copper	1/30/2023	2/9/2023	10	180	OK
MW-40	Fluoride	1/30/2023	2/7/2023	8	28	OK
MW-40	Gross Radium Alpha	1/30/2023	3/2/2023	31	180	OK
MW-40	Iron	1/30/2023	2/6/2023	7	180	OK
MW-40	Lead	1/30/2023	2/9/2023	10	180	OK
MW-40	Magnesium	1/30/2023	2/6/2023	7	180	OK
MW-40	Manganese	1/30/2023	2/9/2023	10	180	OK
MW-40	Mercury	1/30/2023	2/13/2023	14	180	OK
MW-40	Methyl Ethyl Ketone	1/30/2023	2/3/2023	4	14	OK
MW-40	Methylene Chloride	1/30/2023	2/3/2023	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-40	Molybdenum	1/30/2023	2/9/2023	10	180	OK
MW-40	Naphthalene	1/30/2023	2/3/2023	4	14	OK
MW-40	Nickel	1/30/2023	2/9/2023	10	180	OK
MW-40	Nitrate + Nitrite as N	1/30/2023	2/7/2023	8	28	OK
MW-40	Nitrogen, Ammonia as N	1/30/2023	2/13/2023	14	28	OK
MW-40	Potassium	1/30/2023	2/6/2023	7	180	OK
MW-40	Selenium	1/30/2023	2/9/2023	10	180	OK
MW-40	Silver	1/30/2023	2/9/2023	10	180	OK
MW-40	Sodium	1/30/2023	2/6/2023	7	180	OK
MW-40	Sulfate	1/30/2023	2/7/2023	8	28	OK
MW-40	Tetrahydrofuran	1/30/2023	2/3/2023	4	14	OK
MW-40	Thallium	1/30/2023	2/9/2023	10	180	OK
MW-40	Tin	1/30/2023	2/6/2023	7	180	OK
MW-40	Toluene	1/30/2023	2/3/2023	4	14	OK
MW-40	Total Dissolved Solids	1/30/2023	2/2/2023	3	7	OK
MW-40	Uranium	1/30/2023	2/9/2023	10	180	OK
MW-40	Vanadium	1/30/2023	2/9/2023	10	180	OK
MW-40	Xylenes, total	1/30/2023	2/3/2023	4	14	OK
MW-40	Zinc	1/30/2023	2/9/2023	10	180	OK
MW-65	Acetone	1/26/2023	1/30/2023	4	14	OK
MW-65	Arsenic	1/26/2023	1/31/2023	5	180	OK
MW-65	Benzene	1/26/2023	1/30/2023	4	14	OK
MW-65	Beryllium	1/26/2023	1/31/2023	5	180	OK
MW-65	Bicarbonate as CaCO3	1/26/2023	1/27/2023	1	14	OK
MW-65	Cadmium	1/26/2023	1/31/2023	5	180	OK
MW-65	Calcium	1/26/2023	1/30/2023	4	180	OK
MW-65	Carbon Tetrachloride	1/26/2023	1/30/2023	4	14	OK
MW-65	Carbonate as CO3	1/26/2023	1/27/2023	1	14	OK
MW-65	Chloride	1/26/2023	1/31/2023	5	28	OK
MW-65	Chloroform	1/26/2023	1/30/2023	4	14	OK
MW-65	Chloromethane	1/26/2023	1/30/2023	4	14	OK
MW-65	Chromium	1/26/2023	1/31/2023	5	180	OK
MW-65	Cobalt	1/26/2023	1/31/2023	5	180	OK
MW-65	Copper	1/26/2023	1/31/2023	5	180	OK
MW-65	Fluoride	1/26/2023	1/31/2023	5	28	OK
MW-65	Gross Radium Alpha	1/26/2023	3/1/2023	34	180	OK
MW-65	Iron	1/26/2023	1/30/2023	4	180	OK
MW-65	Lead	1/26/2023	1/31/2023	5	180	OK
MW-65	Magnesium	1/26/2023	1/30/2023	4	180	OK
MW-65	Manganese	1/26/2023	1/31/2023	5	180	OK
MW-65	Mercury	1/26/2023	2/1/2023	6	180	OK
MW-65	Methyl Ethyl Ketone	1/26/2023	1/30/2023	4	14	OK
MW-65	Methylene Chloride	1/26/2023	1/30/2023	4	14	OK
MW-65	Molybdenum	1/26/2023	1/31/2023	5	180	OK
MW-65	Naphthalene	1/26/2023	1/30/2023	4	14	OK
MW-65	Nickel	1/26/2023	1/31/2023	5	180	OK
MW-65	Nitrate + Nitrite as N	1/26/2023	1/31/2023	5	28	OK
MW-65	Nitrogen, Ammonia as N	1/26/2023	2/2/2023	7	28	OK
MW-65	Potassium	1/26/2023	1/30/2023	4	180	OK
MW-65	Selenium	1/26/2023	1/31/2023	5	180	OK
MW-65	Silver	1/26/2023	1/31/2023	5	180	OK
MW-65	Sodium	1/26/2023	1/30/2023	4	180	OK
MW-65	Sulfate	1/26/2023	2/1/2023	6	28	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	Tetrahydrofuran	1/26/2023	1/30/2023	4	14	OK
MW-65	Thallium	1/26/2023	1/31/2023	5	180	OK
MW-65	Tin	1/26/2023	1/30/2023	4	180	OK
MW-65	Toluene	1/26/2023	1/30/2023	4	14	OK
MW-65	Total Dissolved Solids	1/26/2023	1/27/2023	1	7	OK
MW-65	Uranium	1/26/2023	1/31/2023	5	180	OK
MW-65	Vanadium	1/26/2023	1/31/2023	5	180	OK
MW-65	Xylenes, total	1/26/2023	1/30/2023	4	14	OK
MW-65	Zinc	1/26/2023	1/31/2023	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	2/8/2023	2/14/2023	6	14	OK
Trip Blank	Chloroform	3/14/2023	3/20/2023	6	14	OK
MW-11	Chloride	2/8/2023	2/20/2023	12	28	OK
MW-11	Manganese	2/8/2023	2/21/2023	13	180	OK
MW-11	Nitrate + Nitrite as N	2/8/2023	2/23/2023	15	28	OK
MW-11	Selenium	2/8/2023	2/21/2023	13	180	OK
MW-11	Sulfate	2/8/2023	2/20/2023	12	28	OK
MW-11	Total Dissolved Solids	2/8/2023	2/10/2023	2	7	OK
MW-11	Chloride	3/14/2023	3/20/2023	6	28	OK
MW-11	Manganese	3/14/2023	3/20/2023	6	180	OK
MW-11	Nitrate + Nitrite as N	3/14/2023	3/21/2023	7	28	OK
MW-11	Selenium	3/14/2023	3/20/2023	6	180	OK
MW-11	Sulfate	3/14/2023	3/20/2023	6	28	OK
MW-11	Total Dissolved Solids	3/14/2023	3/17/2023	3	7	OK
MW-25	Chloride	2/7/2023	2/20/2023	13	28	OK
MW-25	Total Dissolved Solids	2/7/2023	2/10/2023	3	7	OK
MW-25	Chloride	3/15/2023	3/20/2023	5	28	OK
MW-25	Total Dissolved Solids	3/15/2023	3/17/2023	2	7	OK
MW-26	Chloride	2/8/2023	2/20/2023	12	28	OK
MW-26	Chloroform	2/8/2023	2/14/2023	6	14	OK
MW-26	Nitrate + Nitrite as N	2/8/2023	2/23/2023	15	28	OK
MW-26	Chloride	3/14/2023	3/20/2023	6	28	OK
MW-26	Chloroform	3/14/2023	3/20/2023	6	14	OK
MW-26	Nitrate + Nitrite as N	3/14/2023	3/21/2023	7	28	OK
MW-30	Chloride	2/8/2023	2/21/2023	13	28	OK
MW-30	Nitrate + Nitrite as N	2/8/2023	2/23/2023	15	28	OK
MW-30	Selenium	2/8/2023	2/21/2023	13	180	OK
MW-30	Uranium	2/8/2023	2/21/2023	13	180	OK
MW-30	Chloride	3/15/2023	3/20/2023	5	28	OK
MW-30	Nitrate + Nitrite as N	3/15/2023	3/21/2023	6	28	OK
MW-30	Selenium	3/15/2023	3/20/2023	5	180	OK
MW-30	Uranium	3/15/2023	3/20/2023	5	180	OK
MW-31	Chloride	2/7/2023	2/21/2023	14	28	OK
MW-31	Nitrate + Nitrite as N	2/7/2023	2/23/2023	16	28	OK
MW-31	Sulfate	2/7/2023	2/21/2023	14	28	OK
MW-31	Total Dissolved Solids	2/7/2023	2/10/2023	3	7	OK
MW-31	Uranium	2/7/2023	2/21/2023	14	180	OK
MW-31	Chloride	3/14/2023	3/20/2023	6	28	OK
MW-31	Nitrate + Nitrite as N	3/14/2023	3/21/2023	7	28	OK
MW-31	Sulfate	3/14/2023	3/20/2023	6	28	OK
MW-31	Total Dissolved Solids	3/14/2023	3/17/2023	3	7	OK
MW-31	Uranium	3/14/2023	3/20/2023	6	180	OK
MW-65	Chloride	2/8/2023	2/21/2023	13	28	OK
MW-65	Nitrate + Nitrite as N	2/8/2023	2/23/2023	15	28	OK
MW-65	Selenium	2/8/2023	2/21/2023	13	180	OK
MW-65	Uranium	2/8/2023	2/21/2023	13	180	OK
MW-65	Chloride	3/14/2023	3/20/2023	6	28	OK
MW-65	Manganese	3/14/2023	3/20/2023	6	180	OK
MW-65	Nitrate + Nitrite as N	3/14/2023	3/21/2023	7	28	OK
MW-65	Selenium	3/14/2023	3/20/2023	6	180	OK
MW-65	Sulfate	3/14/2023	3/21/2023	7	28	OK
MW-65	Total Dissolved Solids	3/14/2023	3/17/2023	3	7	OK

G-3A: Quarterly Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 609284	MW-11, MW-14, MW-24, MW-24A, MW-25, MW-26, MW-30, MW-31, MW-36, MW-38, MW-39, MW-40, MW-65	NA
CTF 23A1877	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	1.2 °C
CTF 23B0151	MW-12, MW-17, MW-24, MW-24A, MW-27, MW-28, MW-29, MW-32, MW-36, MW-38, MW-38, MW-39, MW-40, Trip Blank	0.8 °C

N/A = These shipments contained samples for the analysis of gross alpha or metals only. Per Table 1 in the approved QAP, samples submitted for gross alpha or metals analyses do not have a sample temperature requirement.

G-3B: Accelerated Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
CTF 23B0901 - February	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.4 °C
CTF 23C1353 - March	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.3 °C

G-4A: Quarterly Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 and E200.8
Gross Alpha	E900.0 or E900.1 or E903.0	E903.0
VOCs	SW8260B or SW8260C or SW8260D	SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	SM4500-Cl-E and 300.0
Fluoride	A4500-F C or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C
Carbonate as CO3, Bicarbonate as HCO3	A2320 B	A2320 B
Mercury	E245.1 or E200.7 or E200.8	E245.1
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

G-4B: Accelerated Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 or E200.8
VOCs	SW8260B or SW8260C or SW8260D	SW8260C and SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon Tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
Trip Blank	Methylene Chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, total	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon Tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
Trip Blank	Methylene Chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, total	1	ug/L	U	1	1	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Arsenic	5	ug/L	U	1	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-11	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-11	Calcium	0.2	mg/L		1	0.5	OK
MW-11	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-11	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloromethane	1	ug/L	U	1	1	OK
MW-11	Chromium	25	ug/L	U	1	25	OK
MW-11	Cobalt	10	ug/L	U	1	10	OK
MW-11	Copper	10	ug/L	U	1	10	OK
MW-11	Fluoride	0.1	mg/L		1	0.1	OK
MW-11	Gross Radium Alpha	0.913	pCi/L	U	1	1	OK
MW-11	Iron	30	ug/L	U	1	30	OK
MW-11	Lead	1	ug/L	U	1	1	OK
MW-11	Magnesium	0.2	mg/L		1	0.5	OK
MW-11	Manganese	10	ug/L		5	10	OK
MW-11	Mercury	0.5	ug/L	U	1	0.5	OK
MW-11	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-11	Methylene Chloride	1	ug/L	U	1	1	OK
MW-11	Molybdenum	10	ug/L	U	1	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	1	20	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-11	Potassium	0.5	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L		1	5	OK
MW-11	Silver	10	ug/L	U	1	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-11	Sodium	0.5	mg/L		1	0.5	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-11	Thallium	0.5	ug/L	U	1	0.5	OK
MW-11	Tin	100	ug/L	U	1	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Uranium	0.3	ug/L		1	0.3	OK
MW-11	Vanadium	15	ug/L	U	1	15	OK
MW-11	Xylenes, total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L	U	1	10	OK
MW-12	Selenium	5	ug/L		1	5	OK
MW-12	Uranium	0.3	ug/L		1	0.3	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Arsenic	5	ug/L	U	1	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-14	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		1	0.5	OK
MW-14	Calcium	0.2	mg/L		1	0.5	OK
MW-14	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-14	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-14	Chloride	1	mg/L		1	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	1	25	OK
MW-14	Cobalt	10	ug/L	U	1	10	OK
MW-14	Copper	10	ug/L	U	1	10	OK
MW-14	Fluoride	0.1	mg/L		1	0.1	OK
MW-14	Gross Radium Alpha	0.851	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	1	30	OK
MW-14	Lead	1	ug/L	U	1	1	OK
MW-14	Magnesium	0.2	mg/L		1	0.5	OK
MW-14	Manganese	10	ug/L		5	10	OK
MW-14	Mercury	0.5	ug/L	U	1	0.5	OK
MW-14	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-14	Methylene Chloride	1	ug/L	U	1	1	OK
MW-14	Molybdenum	10	ug/L	U	1	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	1	20	OK
MW-14	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK
MW-14	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-14	Potassium	0.5	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	1	5	OK
MW-14	Silver	10	ug/L	U	1	10	OK
MW-14	Sodium	0.5	mg/L		1	0.5	OK
MW-14	Sulfate	50	mg/L		50	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	1	0.5	OK
MW-14	Tin	100	ug/L	U	1	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		2	10	OK
MW-14	Uranium	0.3	ug/L		1	0.3	OK
MW-14	Vanadium	15	ug/L	U	1	15	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-14	Xylenes, total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		1	10	OK
MW-17	Chloride	1	mg/L		1	1	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Arsenic	5	ug/L	U	1	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	0.5	ug/L		1	0.5	OK
MW-24	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24	Cadmium	0.5	ug/L		1	0.5	OK
MW-24	Calcium	0.2	mg/L		1	0.5	OK
MW-24	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-24	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-24	Chloride	1	mg/L		1	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	1	25	OK
MW-24	Cobalt	10	ug/L		1	10	OK
MW-24	Copper	10	ug/L		1	10	OK
MW-24	Fluoride	0.1	mg/L		1	0.1	OK
MW-24	Gross Radium Alpha	0.907	pCi/L		1	1	OK
MW-24	Iron	30	ug/L	U	1	30	OK
MW-24	Lead	1	ug/L		1	1	OK
MW-24	Magnesium	0.2	mg/L		1	0.5	OK
MW-24	Manganese	10	ug/L		20	10	OK
MW-24	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-24	Methylene Chloride	1	ug/L	U	1	1	OK
MW-24	Molybdenum	10	ug/L	U	1	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L		1	20	OK
MW-24	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-24	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-24	Potassium	0.5	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L		1	5	OK
MW-24	Silver	10	ug/L	U	1	10	OK
MW-24	Sodium	0.5	mg/L		1	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		1	0.5	OK
MW-24	Tin	100	ug/L	U	1	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24	Uranium	0.3	ug/L		1	0.3	OK
MW-24	Vanadium	15	ug/L	U	1	15	OK
MW-24	Xylenes, total	1	ug/L	U	1	1	OK
MW-24	Zinc	10	ug/L		1	10	OK
MW-24A	Acetone	20	ug/L	U	1	20	OK
MW-24A	Arsenic	5	ug/L	U	1	5	OK
MW-24A	Benzene	1	ug/L	U	1	1	OK
MW-24A	Beryllium	0.5	ug/L		1	0.5	OK
MW-24A	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-24A	Cadmium	0.5	ug/L		1	0.5	OK
MW-24A	Calcium	0.2	mg/L		1	0.5	OK
MW-24A	Carbon Tetrachloride	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-24A	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-24A	Chloride	1	mg/L		1	1	OK
MW-24A	Chloroform	1	ug/L	U	1	1	OK
MW-24A	Chloromethane	1	ug/L	U	1	1	OK
MW-24A	Chromium	25	ug/L	U	1	25	OK
MW-24A	Cobalt	10	ug/L		1	10	OK
MW-24A	Copper	10	ug/L		1	10	OK
MW-24A	Fluoride	0.1	mg/L		1	0.1	OK
MW-24A	Gross Radium Alpha	0.93	pCi/L		1	1	OK
MW-24A	Iron	30	ug/L	U	1	30	OK
MW-24A	Lead	1	ug/L	U	1	1	OK
MW-24A	Magnesium	0.2	mg/L		1	0.5	OK
MW-24A	Manganese	10	ug/L		20	10	OK
MW-24A	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24A	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-24A	Methylene Chloride	1	ug/L	U	1	1	OK
MW-24A	Molybdenum	10	ug/L	U	1	10	OK
MW-24A	Naphthalene	1	ug/L	U	1	1	OK
MW-24A	Nickel	20	ug/L		1	20	OK
MW-24A	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-24A	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-24A	Potassium	0.5	mg/L		1	0.5	OK
MW-24A	Selenium	5	ug/L		1	5	OK
MW-24A	Silver	10	ug/L	U	1	10	OK
MW-24A	Sodium	0.5	mg/L		1	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		1	0.5	OK
MW-24A	Tin	100	ug/L	U	1	100	OK
MW-24A	Toluene	1	ug/L	U	1	1	OK
MW-24A	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24A	Uranium	0.3	ug/L		1	0.3	OK
MW-24A	Vanadium	15	ug/L	U	1	15	OK
MW-24A	Xylenes, total	1	ug/L	U	1	1	OK
MW-24A	Zinc	10	ug/L		1	10	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Arsenic	5	ug/L	U	1	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-25	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		1	0.5	OK
MW-25	Calcium	0.2	mg/L		1	0.5	OK
MW-25	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-25	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-25	Chloride	1	mg/L		1	1	OK
MW-25	Chloroform	1	ug/L	U	1	1	OK
MW-25	Chloromethane	1	ug/L	U	1	1	OK
MW-25	Chromium	25	ug/L	U	1	25	OK
MW-25	Cobalt	10	ug/L	U	1	10	OK
MW-25	Copper	10	ug/L	U	1	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.871	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	1	30	OK
MW-25	Lead	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-25	Magnesium	0.2	mg/L		1	0.5	OK
MW-25	Manganese	10	ug/L		5	10	OK
MW-25	Mercury	0.5	ug/L	U	1	0.5	OK
MW-25	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-25	Methylene Chloride	1	ug/L	U	1	1	OK
MW-25	Molybdenum	10	ug/L		1	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	1	20	OK
MW-25	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK
MW-25	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-25	Potassium	0.5	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	1	5	OK
MW-25	Silver	10	ug/L	U	1	10	OK
MW-25	Sodium	0.5	mg/L		1	0.5	OK
MW-25	Sulfate	20	mg/L		20	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		1	0.5	OK
MW-25	Tin	100	ug/L	U	1	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Uranium	0.3	ug/L		1	0.3	OK
MW-25	Vanadium	15	ug/L	U	1	15	OK
MW-25	Xylenes, total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	1	10	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Arsenic	5	ug/L	U	1	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-26	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-26	Calcium	0.2	mg/L		1	0.5	OK
MW-26	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-26	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	10	ug/L		10	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	1	25	OK
MW-26	Cobalt	10	ug/L	U	1	10	OK
MW-26	Copper	10	ug/L	U	1	10	OK
MW-26	Fluoride	0.1	mg/L		1	0.1	OK
MW-26	Gross Radium Alpha	0.865	pCi/L	U	1	1	OK
MW-26	Iron	30	ug/L		1	30	OK
MW-26	Lead	1	ug/L	U	1	1	OK
MW-26	Magnesium	0.2	mg/L		1	0.5	OK
MW-26	Manganese	10	ug/L		5	10	OK
MW-26	Mercury	0.5	ug/L	U	1	0.5	OK
MW-26	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-26	Methylene Chloride	1	ug/L	U	1	1	OK
MW-26	Molybdenum	10	ug/L	U	1	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	1	20	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-26	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-26	Potassium	0.5	mg/L		1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	Selenium	5	ug/L	U	1	5	OK
MW-26	Silver	10	ug/L	U	1	10	OK
MW-26	Sodium	0.5	mg/L		1	0.5	OK
MW-26	Sulfate	20	mg/L		20	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-26	Thallium	0.5	ug/L	U	1	0.5	OK
MW-26	Tin	100	ug/L	U	1	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Uranium	0.3	ug/L		1	0.3	OK
MW-26	Vanadium	15	ug/L	U	1	15	OK
MW-26	Xylenes, total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	1	10	OK
MW-27	Fluoride	0.1	mg/L		1	0.1	OK
MW-27	Nitrate + Nitrite as N	0.2	mg/L		2	0.1	OK
MW-28	Chloride	2	mg/L		2	1	OK
MW-28	Nitrate + Nitrite as N	0.2	mg/L		2	0.1	OK
MW-28	Selenium	5	ug/L	U	1	5	OK
MW-28	Uranium	0.3	ug/L		1	0.3	OK
MW-29	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Arsenic	5	ug/L	U	1	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-30	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-30	Calcium	0.2	mg/L		1	0.5	OK
MW-30	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-30	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-30	Chloride	10	mg/L		10	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	1	25	OK
MW-30	Cobalt	10	ug/L	U	1	10	OK
MW-30	Copper	10	ug/L	U	1	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.592	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	1	30	OK
MW-30	Lead	1	ug/L	U	1	1	OK
MW-30	Magnesium	0.2	mg/L		1	0.5	OK
MW-30	Manganese	10	ug/L	U	1	10	OK
MW-30	Mercury	0.5	ug/L	U	1	0.5	OK
MW-30	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-30	Methylene Chloride	1	ug/L	U	1	1	OK
MW-30	Molybdenum	10	ug/L	U	1	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	1	20	OK
MW-30	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-30	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-30	Potassium	0.5	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Silver	10	ug/L	U	1	10	OK
MW-30	Sodium	0.5	mg/L		1	0.5	OK
MW-30	Sulfate	10	mg/L		10	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	1	0.5	OK
MW-30	Tin	100	ug/L	U	1	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Vanadium	15	ug/L	U	1	15	OK
MW-30	Xylenes, total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	1	10	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Arsenic	5	ug/L	U	1	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-31	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-31	Calcium	0.2	mg/L		1	0.5	OK
MW-31	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-31	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-31	Chloride	20	mg/L		20	1	OK
MW-31	Chloroform	1	ug/L	U	1	1	OK
MW-31	Chloromethane	1	ug/L	U	1	1	OK
MW-31	Chromium	25	ug/L	U	1	25	OK
MW-31	Cobalt	10	ug/L	U	1	10	OK
MW-31	Copper	10	ug/L	U	1	10	OK
MW-31	Fluoride	0.1	mg/L		1	0.1	OK
MW-31	Gross Radium Alpha	0.73	pCi/L	U	1	1	OK
MW-31	Iron	30	ug/L	U	1	30	OK
MW-31	Lead	1	ug/L	U	1	1	OK
MW-31	Magnesium	0.2	mg/L		1	0.5	OK
MW-31	Manganese	10	ug/L	U	1	10	OK
MW-31	Mercury	0.5	ug/L	U	1	0.5	OK
MW-31	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-31	Methylene Chloride	1	ug/L	U	1	1	OK
MW-31	Molybdenum	10	ug/L	U	1	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	1	20	OK
MW-31	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
MW-31	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-31	Potassium	0.5	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		1	5	OK
MW-31	Silver	10	ug/L	U	1	10	OK
MW-31	Sodium	0.5	mg/L		1	0.5	OK
MW-31	Sulfate	20	mg/L		20	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	1	0.5	OK
MW-31	Tin	100	ug/L	U	1	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Vanadium	15	ug/L	U	1	15	OK
MW-31	Xylenes, total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	1	10	OK
MW-32	Chloride	1	mg/L		1	1	OK
MW-36	Acetone	20	ug/L	U	1	20	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Arsenic	5	ug/L	U	1	5	OK
MW-36	Benzene	1	ug/L	U	1	1	OK
MW-36	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-36	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-36	Calcium	2	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	1	mg/L		1	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	1	25	OK
MW-36	Cobalt	10	ug/L	U	1	10	OK
MW-36	Copper	10	ug/L	U	1	10	OK
MW-36	Fluoride	0.1	mg/L		1	0.1	OK
MW-36	Gross Radium Alpha	0.837	pCi/L	U	1	1	OK
MW-36	Iron	200	ug/L	U	10	30	OK
MW-36	Lead	1	ug/L	U	1	1	OK
MW-36	Magnesium	2	mg/L		10	0.5	OK
MW-36	Manganese	10	ug/L	U	1	10	OK
MW-36	Mercury	0.5	ug/L	U	1	0.5	OK
MW-36	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-36	Methylene Chloride	1	ug/L	U	1	1	OK
MW-36	Molybdenum	10	ug/L	U	1	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	1	20	OK
MW-36	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-36	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-36	Potassium	5	mg/L		10	0.5	OK
MW-36	Selenium	5	ug/L		1	5	OK
MW-36	Silver	10	ug/L	U	1	10	OK
MW-36	Sodium	5	mg/L		10	0.5	OK
MW-36	Sulfate	50	mg/L		50	1	OK
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		1	0.5	OK
MW-36	Tin	200	ug/L	U	10	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Uranium	0.3	ug/L		1	0.3	OK
MW-36	Vanadium	15	ug/L	U	1	15	OK
MW-36	Xylenes, total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	1	10	OK
MW-38	Acetone	20	ug/L	U	1	20	OK
MW-38	Arsenic	5	ug/L	U	1	5	OK
MW-38	Benzene	1	ug/L	U	1	1	OK
MW-38	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-38	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-38	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-38	Calcium	0.2	mg/L		1	0.5	OK
MW-38	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-38	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-38	Chloride	1	mg/L		1	1	OK
MW-38	Chloroform	1	ug/L	U	1	1	OK
MW-38	Chloromethane	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-38	Chromium	25	ug/L	U	1	25	OK
MW-38	Cobalt	10	ug/L	U	1	10	OK
MW-38	Copper	10	ug/L	U	1	10	OK
MW-38	Fluoride	0.1	mg/L		1	0.1	OK
MW-38	Gross Radium Alpha	0.796	pCi/L	U	1	1	OK
MW-38	Iron	30	ug/L	U	1	30	OK
MW-38	Lead	1	ug/L	U	1	1	OK
MW-38	Magnesium	0.2	mg/L		1	0.5	OK
MW-38	Manganese	10	ug/L	U	1	10	OK
MW-38	Mercury	0.5	ug/L	U	1	0.5	OK
MW-38	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-38	Methylene Chloride	1	ug/L	U	1	1	OK
MW-38	Molybdenum	10	ug/L	U	1	10	OK
MW-38	Naphthalene	1	ug/L	U	1	1	OK
MW-38	Nickel	20	ug/L	U	1	20	OK
MW-38	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-38	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-38	Potassium	0.5	mg/L		1	0.5	OK
MW-38	Selenium	5	ug/L		1	5	OK
MW-38	Silver	10	ug/L	U	1	10	OK
MW-38	Sodium	0.5	mg/L		1	0.5	OK
MW-38	Sulfate	50	mg/L		50	1	OK
MW-38	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-38	Thallium	0.5	ug/L	U	1	0.5	OK
MW-38	Tin	100	ug/L	U	1	100	OK
MW-38	Toluene	1	ug/L	U	1	1	OK
MW-38	Total Dissolved Solids	20	MG/L		2	10	OK
MW-38	Uranium	0.3	ug/L		1	0.3	OK
MW-38	Vanadium	15	ug/L	U	1	15	OK
MW-38	Xylenes, total	1	ug/L	U	1	1	OK
MW-38	Zinc	10	ug/L	U	1	10	OK
MW-39	Acetone	20	ug/L	U	1	20	OK
MW-39	Arsenic	5	ug/L	U	1	5	OK
MW-39	Benzene	1	ug/L	U	1	1	OK
MW-39	Beryllium	0.5	ug/L		1	0.5	OK
MW-39	Bicarbonate as CaCO3	1	mg/L	U	1	1	OK
MW-39	Cadmium	0.5	ug/L		1	0.5	OK
MW-39	Calcium	2	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	1	25	OK
MW-39	Cobalt	10	ug/L		1	10	OK
MW-39	Copper	10	ug/L		1	10	OK
MW-39	Fluoride	0.1	mg/L		1	0.1	OK
MW-39	Gross Radium Alpha	0.966	pCi/L		1	1	OK
MW-39	Iron	200	ug/L		10	30	OK
MW-39	Lead	1	ug/L	U	1	1	OK
MW-39	Magnesium	2	mg/L		10	0.5	OK
MW-39	Manganese	10	ug/L		20	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

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-39	Methylene Chloride	1	ug/L	U	1	1	OK
MW-39	Molybdenum	10	ug/L	U	1	10	OK
MW-39	Naphthalene	1	ug/L	U	1	1	OK
MW-39	Nickel	20	ug/L		1	20	OK
MW-39	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-39	Nitrogen, Ammonia as N	0.05	mg/L		1	0.05	OK
MW-39	Potassium	5	mg/L		10	0.5	OK
MW-39	Selenium	5	ug/L		1	5	OK
MW-39	Silver	10	ug/L	U	1	10	OK
MW-39	Sodium	5	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		1	0.5	OK
MW-39	Tin	200	ug/L	U	10	100	OK
MW-39	Toluene	1	ug/L	U	1	1	OK
MW-39	Total Dissolved Solids	20	MG/L		2	10	OK
MW-39	Uranium	0.3	ug/L		1	0.3	OK
MW-39	Vanadium	15	ug/L	U	1	15	OK
MW-39	Xylenes, total	1	ug/L	U	1	1	OK
MW-39	Zinc	10	ug/L		1	10	OK
MW-40	Acetone	20	ug/L	U	1	20	OK
MW-40	Arsenic	5	ug/L	U	1	5	OK
MW-40	Benzene	1	ug/L	U	1	1	OK
MW-40	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-40	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-40	Cadmium	0.5	ug/L	U	1	0.5	OK
MW-40	Calcium	0.2	mg/L		1	0.5	OK
MW-40	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-40	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-40	Chloride	1	mg/L		1	1	OK
MW-40	Chloroform	1	ug/L	U	1	1	OK
MW-40	Chloromethane	1	ug/L	U	1	1	OK
MW-40	Chromium	25	ug/L	U	1	25	OK
MW-40	Cobalt	10	ug/L	U	1	10	OK
MW-40	Copper	10	ug/L	U	1	10	OK
MW-40	Fluoride	0.1	mg/L		1	0.1	OK
MW-40	Gross Radium Alpha	0.585	pCi/L	U	1	1	OK
MW-40	Iron	30	ug/L	U	1	30	OK
MW-40	Lead	1	ug/L	U	1	1	OK
MW-40	Magnesium	0.2	mg/L		1	0.5	OK
MW-40	Manganese	10	ug/L		1	10	OK
MW-40	Mercury	0.5	ug/L	U	1	0.5	OK
MW-40	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-40	Methylene Chloride	1	ug/L	U	1	1	OK
MW-40	Molybdenum	10	ug/L	U	1	10	OK
MW-40	Naphthalene	1	ug/L	U	1	1	OK
MW-40	Nickel	20	ug/L	U	1	20	OK
MW-40	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-40	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-40	Potassium	0.5	mg/L		1	0.5	OK
MW-40	Selenium	5	ug/L		1	5	OK
MW-40	Silver	10	ug/L	U	1	10	OK
MW-40	Sodium	0.5	mg/L		1	0.5	OK
MW-40	Sulfate	50	mg/L		50	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-40	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-40	Thallium	0.5	ug/L	U	1	0.5	OK
MW-40	Tin	100	ug/L	U	1	100	OK
MW-40	Toluene	1	ug/L	U	1	1	OK
MW-40	Total Dissolved Solids	20	MG/L		2	10	OK
MW-40	Uranium	0.3	ug/L		1	0.3	OK
MW-40	Vanadium	15	ug/L	U	1	15	OK
MW-40	Xylenes, total	1	ug/L	U	1	1	OK
MW-40	Zinc	10	ug/L	U	1	10	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Arsenic	5	ug/L	U	1	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	1	0.5	OK
MW-65	Bicarbonate as CaCO3	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L		1	0.5	OK
MW-65	Calcium	0.2	mg/L		1	0.5	OK
MW-65	Carbon Tetrachloride	1	ug/L	U	1	1	OK
MW-65	Carbonate as CO3	1	mg/L	U	1	1	OK
MW-65	Chloride	1	mg/L		1	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	1	25	OK
MW-65	Cobalt	10	ug/L	U	1	10	OK
MW-65	Copper	10	ug/L	U	1	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.812	pCi/L	U	1	1	OK
MW-65	Iron	30	ug/L	U	1	30	OK
MW-65	Lead	1	ug/L	U	1	1	OK
MW-65	Magnesium	0.2	mg/L		1	0.5	OK
MW-65	Manganese	10	ug/L		5	10	OK
MW-65	Mercury	0.5	ug/L	U	1	0.5	OK
MW-65	Methyl Ethyl Ketone	20	ug/L	U	1	20	OK
MW-65	Methylene Chloride	1	ug/L	U	1	1	OK
MW-65	Molybdenum	10	ug/L	U	1	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	1	20	OK
MW-65	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK
MW-65	Nitrogen, Ammonia as N	0.05	mg/L	U	1	0.05	OK
MW-65	Potassium	0.5	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L	U	1	5	OK
MW-65	Silver	10	ug/L	U	1	10	OK
MW-65	Sodium	0.5	mg/L		1	0.5	OK
MW-65	Sulfate	50	mg/L		50	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L	U	1	0.5	OK
MW-65	Tin	100	ug/L	U	1	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Uranium	0.3	ug/L		1	0.3	OK
MW-65	Vanadium	15	ug/L	U	1	15	OK
MW-65	Xylenes, total	1	ug/L	U	1	1	OK
MW-65	Zinc	10	ug/L		1	10	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	10	ug/L		1	10	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Selenium	5	ug/L		1	5	OK
MW-11	Sulfate	50	mg/L		50	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Chloride	1	mg/L		1	1	OK
MW-11	Manganese	10	ug/L		1	10	OK
MW-11	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-11	Selenium	5	ug/L		1	5	OK
MW-11	Sulfate	20	mg/L		20	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Chloride	1	mg/L		1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Chloride	10	mg/L		10	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	50	ug/L	QM-4X	50	1	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-26	Chloride	1	mg/L		1	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Nitrate + Nitrite as N	0.1	mg/L		1	0.1	OK
MW-30	Chloride	5	mg/L		5	1	OK
MW-30	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-30	Chloride	5	mg/L		5	1	OK
MW-30	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-30	Selenium	5	ug/L		1	5	OK
MW-30	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Chloride	5	mg/L		5	1	OK
MW-31	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-31	Sulfate	50	mg/L		50	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-31	Chloride	10	mg/L		10	1	OK
MW-31	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-31	Sulfate	10	mg/L		10	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		1	0.3	OK
MW-65	Chloride	5	mg/L		5	1	OK
MW-65	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-65	Selenium	5	ug/L		1	5	OK
MW-65	Uranium	0.3	ug/L		1	0.3	OK
MW-65	Chloride	1	mg/L		1	1	OK
MW-65	Manganese	10	ug/L		1	10	OK
MW-65	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
MW-65	Selenium	5	ug/L		1	5	OK
MW-65	Sulfate	20	mg/L		20	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK

G-6A: Quarterly Sample Trip Blank Evaluation

Lab Report	Constituent	Result
CTF 23A1877	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	ND
	Toluene	ND
	Xylenes, Total	ND
CTF 23B0151	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	ND
	Toluene	ND
	Xylenes, Total	ND

G-6B: Accelerated Sample Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

Blank	Sample Date	Laboratory
CTF 23B0901 - February	2/8/2023	CTF
CTF 23C1353 - March	3/14/2023	CTF

G-7A: QA/QC Evaluation for Quarterly Sample Duplicates

Constituent	MW-14 1/26/23	MW-65 1/26/23	%RPD
Bicarbonate as CaCO3 (mg/L)	373	373	0.00
Cadmium (mg/L)	0.0013	0.0014	7.41
Calcium (mg/L)	502	512	1.97
Chloride (mg/L)	15.2	15.1	0.66
Fluoride (mg/L)	0.166	0.150	10.13
Magnesium (mg/L)	159	162	1.87
Manganese (mg/L)	1.81	1.86	2.72
Potassium (mg/L)	12.2	12.4	1.63
Sodium (mg/L)	338	345	2.05
Sulfate (mg/L)	2000	1930	3.56
TDS (mg/L)	3860	3580	7.53
Uranium (mg/L)	0.0592	0.0634	6.85
Zinc	0.0122	0.0133	8.63
Radiologic Duplicate Tests			

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-30 2/8/23	MW-65 2/8/23	%RPD*
Nitrate + Nitrite (as N) (mg/L)	15.9	15.8	0.63
Selenium (mg/L)	0.0706	0.0727	2.93
Uranium (mg/L)	0.0096	0.0097	1.04
Chloride (mg/L)	173	176	1.72
Constituent	**MW-11 3/14/23**	**MW-65 3/14/23**	**%RPD**
Manganese (mg/L)	0.211	0.221	4.63
Nitrate + Nitrite (as N)	2.53	2.86	12.24
Sulfate (mg/L)	1430	1310	8.76
Total Dissolved Solids (mg/L)	2300	2310	0.43
Selenium (mg/L)	0.0149	0.0160	7.12
Chloride (mg/L)	66.3	60.5	9.15

G-8A: Quarterly Sample Radiologics 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	0.306	NC	3.75	NC
MW-14	1.00 U	0.311	NC	7.5	NC
MW-24	2.27	0.473	N	7.5	Y
MW-24A	3.54	0.548	Y	-	
MW-25	1.00 U	0.275	NC	7.5	NC
MW-26	1.00 U	0.247	NC	4.69	NC
MW-30	1.00 U	0.180	NC	3.75	NC
MW-31	1.00 U	0.287	NC	7.5	NC
MW-36	1.00 U	0.207	NC	7.5	NC
MW-38	1.00 U	0.225	NC	-	
MW-39	1.67	0.410	N	-	
MW-40	1.00 U	0.228	NC	-	
MW-65	1.00 U	0.186	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
23A1877	MW-25	Calcium*	NC	NC	70 - 130	NC	20
23A1877	MW-25	Manganese*	NC	**	70 - 130	**	**
23A1877	MW-25	Sulfate*	NC	NC	80 - 120	NC	20
23A1877	MW-25	Chloride	74.5	74.9	80 - 120	0.506	20
23A1877	MW-25	Chloromethane	68.4	82.3	70 - 130	3.08	20
23B0151	MW-36	Magnesium*	NC	NC	70 - 130	NC	20
23B0151	MW-36	Sodium*	NC	NC	70 - 130	NC	20
23B0151	MW-36	Calcium*	NC	NC	70 - 130	NC	20
23B0151	MW-36	Chloride	74	73.7	80 - 120	0.392	20
23B0151	MW-36	Carbon Tetrachloride	53.8	52.3	70 - 130	2.83	20
23B0151	MW-36	Naphthalene	69.8	72	70 - 130	3.10	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount.

NA - QC was not performed on an EFRI sample.

** CTF routine QC does not include a MSD for metals analyzed by 200.8. Precision is determined by other QC samples as allowed by the analytical method.

Method Blank Detections

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
23B0151	N/A	Sodium	0.8 mg/L	0.5 mg/L

Laboratory Control Sample

Lab Report	Analyte	LCS %REC	REC Range
23A1877	Mercury	82.1	85 - 115
23B0151	Carbon Tetrachloride	45.6	70 - 130
23B0151	Naphthalene	63.1	70 - 130

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicate samples were within acceptance limits for the quarter.

Surrogate % Recovery

All surrogate recoveries for the quarter were within laboratory acceptance limits.

G-9B: Accelerated Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
23B0901 - February Monthly	MW-26	Sulfate*	NC	NC	80 - 120	NC	20
23B0901 - February Monthly	MW-26	Chloroform*	NC	NC	70 - 130	NC	20
23C1353 - March Monthly	MW-31	Sulfate*	NC	NC	80 - 120	NC	20
23C1353 - March Monthly	MW-26	Chloroform*	NC	NC	70 - 130	NC	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount
NA - QC was not performed on an EFRI sample.

Laboratory Control Sample
All Laboratory Control Samples were within acceptance limits for the quarter.

Laboratory Duplicate % Recovery Comparison
All Laboratory Duplicates were within acceptance limits for the quarter.

Method Blank Detections
All Method Blanks for the quarter were non-detect.

Surrogate % Recovery
All surrogate recoveries for the quarter were within laboratory acceptance limits.

Tab H

Kriged Current Quarterly Groundwater Contour Map

KRIGED 1st QUARTER, 2023 WATER LEVELS
WHITE MESA SITE

CORRAL CANYON

WESTWATER

COTTONWOOD

ENTRANCE SPRING

CORRAL SPRINGS

RUIN SPRING

WHITE MESA

Cell 1

Cell 2

Cell 3

Cell 4B

Cell 4A

5610 5600 5590 5588 5585 5580 5570 5550 5540 5530 5525 5520 5510 5500 5490 5480 5470 5460 5450 5440 5430 5420 5410 5400 5390 5650 5640 5625

abandoned TWN-11, TWN-12, TWN-15, TWN-17, TWN-05, TWN-08, TWN-09, TWN-10, TWN-13

5605 TWN-19; 5605 TWN-16; 5590 TWN-14; 5583 MW-01; 5583 MW-18; 5588 TWN-06; 5588 PIEZ-01; 5588 MW-19; 5582 TWN-16; 5580 TWN-03; 5582 PIEZ-02; 5564 TWN-20; 5569 TWN-07; 5556 TWN-21; 5569 MW-27; 5563 TWN-02; 5563 TWN-04; 5575 TW4-25; 5576 TW4-01; 5583 Piez-3A; 5582 TW4-21; 5567 TW4-18; 5567 TW4-39; 5567 TW4-05; 5567 TW4-38; 5567 TW4-12; 5567 TW4-32; 5567 TW4-13; 5567 TW4-04; 5567 TW4-36; 5567 TW4-24; 5567 TW4-37; 5567 TW4-20; 5567 TW4-09; 5567 TW4-03; 5567 TW4-26; 5567 TW4-11; 5567 TW4-22; 5567 TW4-27; 5567 TW4-31; 5567 TW4-33; 5567 TW4-29; 5567 TW4-30; 5567 TW4-43; 5567 TW4-34; 5567 TW4-35; 5567 TW4-42; 5567 TW4-23; 5567 TW4-06; 5567 TW4-14; 5567 TW4-10; 5567 TW4-28; 5567 TW4-41; 5567 TW4-40; 5503 MW-02; 5512 MW-24; 5545 MW-28; 5515 MW-29; 5539 MW-30; 5547 MW-31; 5547 MW-32; 5498 MW-23; 5502 MW-12; 5504 MW-05; 5494 MW-35; 5493 MW-36; 5526 MW-11; 5531 MW-25; 5493 MW-33; 5493 MW-34; 5494 MW-37; 5495 MW-15; 5495 MW-14; 5503 MW-17; 5473 MW-3A; 5498 MW-40; 5492 MW-39; 5463 MW-20; 5463 MW-38; 5451 MW-22; 5474 DR-08; 5484 DR-05; 5485 DR-06; 5492 DR-07; 5482 DR-10; 5488 DR-11; dry DR-12; 5487 DR-13; 5460 DR-14; 5466 DR-15; 5454 DR-17; 5455 DR-19; 5443 DR-20; 5418 DR-21; 5423 DR-23; dry DR-22; 5417 DR-24; dry MW-4; dry MW-26; 5380 RUIN SPRING; 5361 CORRAL SPRINGS

1 mile

EXPLANATION

- estimated dry area
- TW4-43 ☼ 5524 — temporary perched monitoring well installed September, 2021 showing elevation in feet amsl
- TWN-20 ◘ 5564 — temporary perched nitrate monitoring well installed April, 2021showing elevation in feet amsl
- TW4-42 ⚲ 5524 — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- MW-38 ⌖ 5463 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- MW-5 ● 5504 — perched monitoring well showing elevation in feet amsl
- TW4-12 ○ 5568 — temporary perched monitoring well showing elevation in feet amsl
- TWN-7 ◆ 5569 — temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1 ⊖ 5588 — perched piezometer showing elevation in feet amsl
- RUIN SPRING ⚲ 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

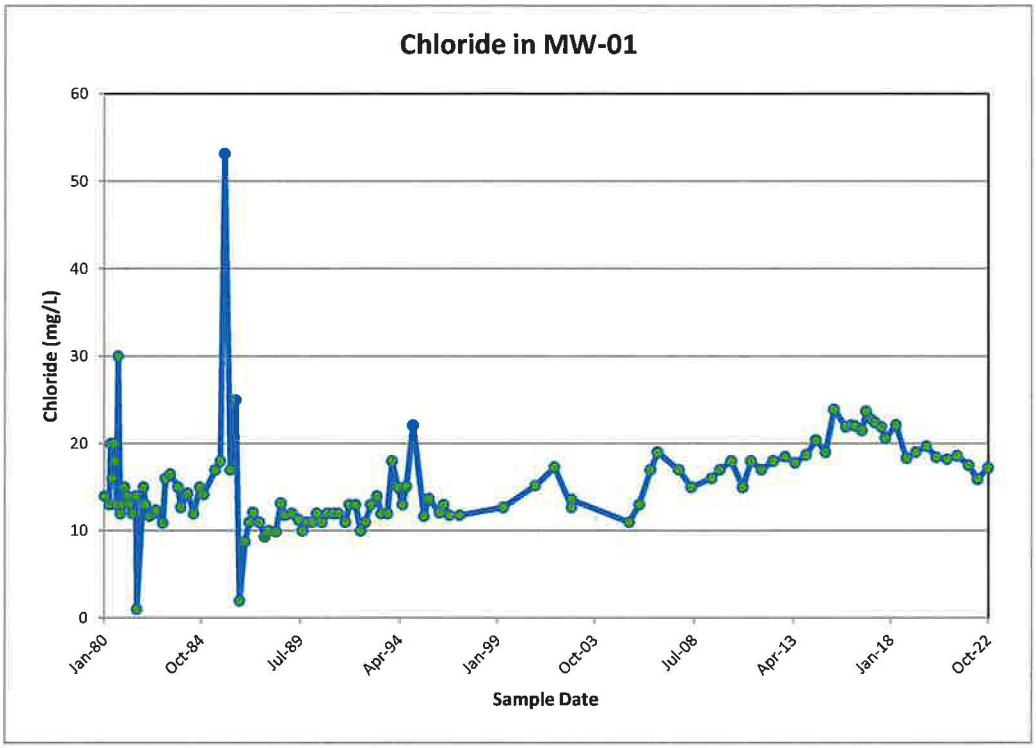
HYDRO GEO CHEM, INC.

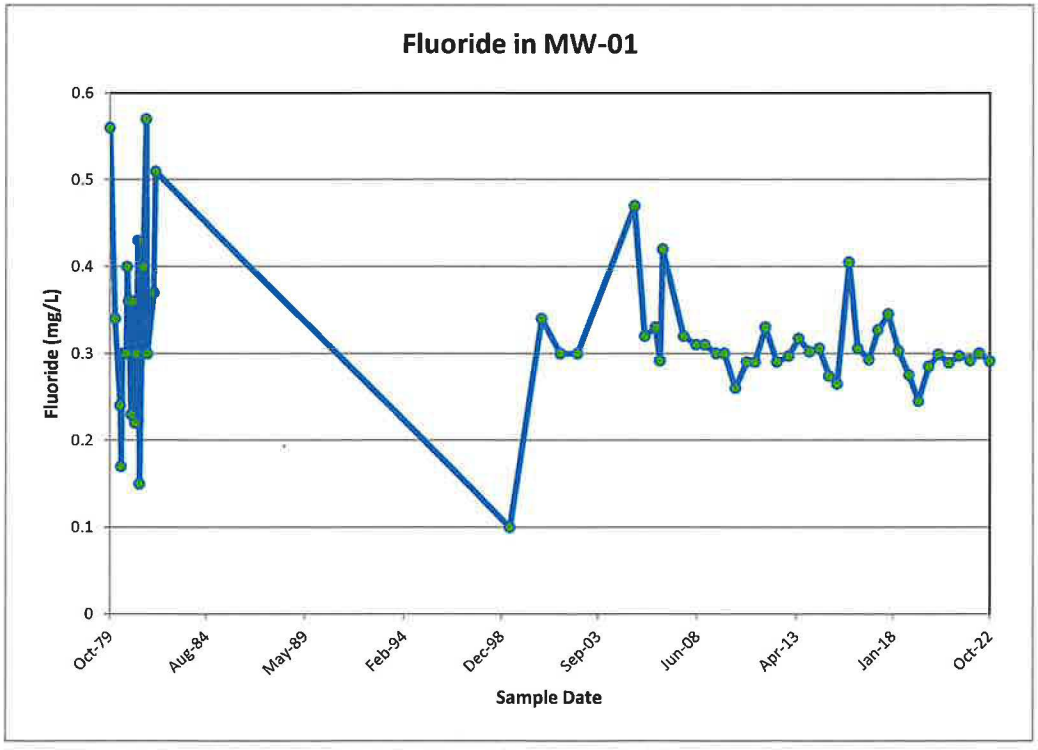
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may23/WL/Uwl0323.srf	H-1

Tab I

Groundwater Time Concentration Plots

Time concentration plots for MW-01



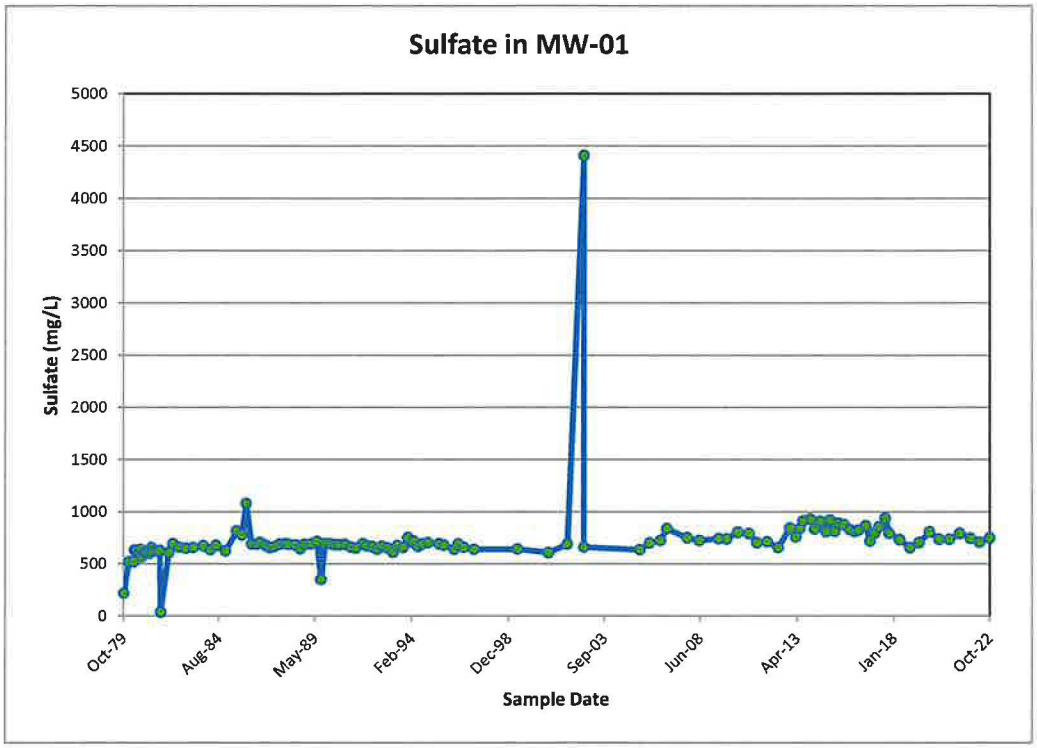


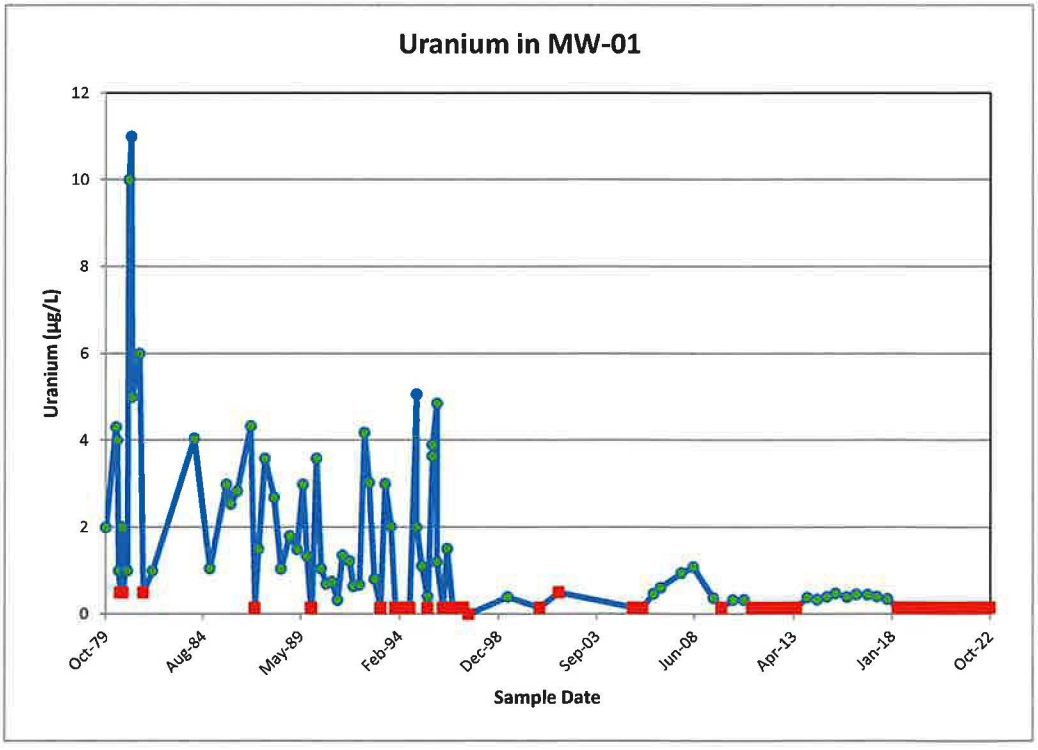
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-01



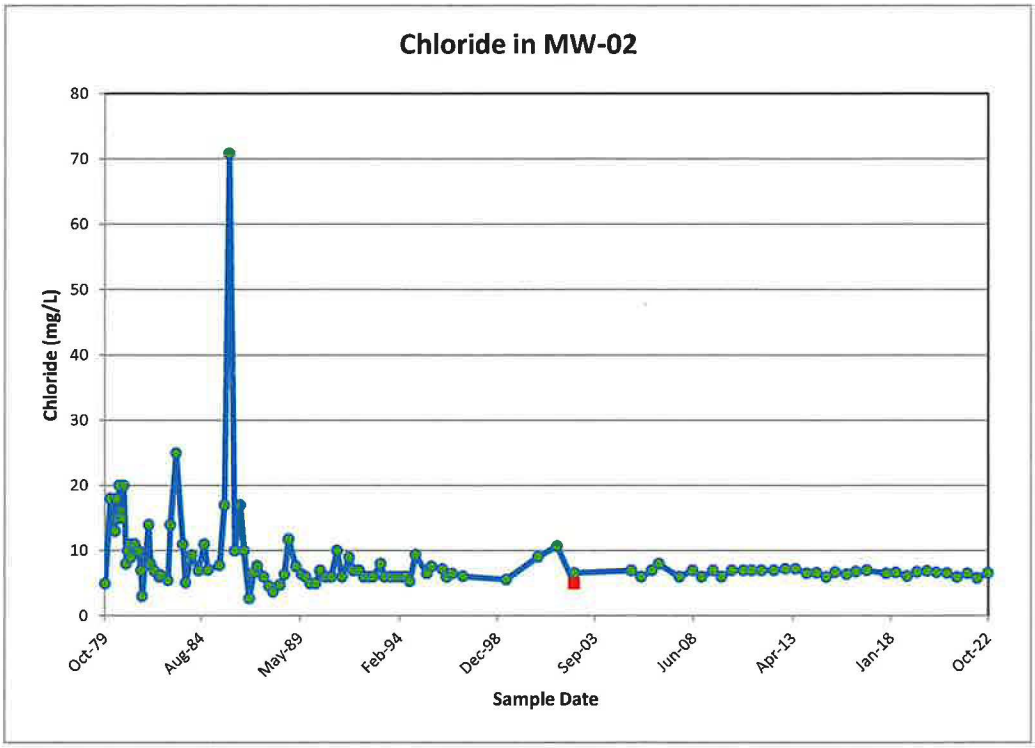


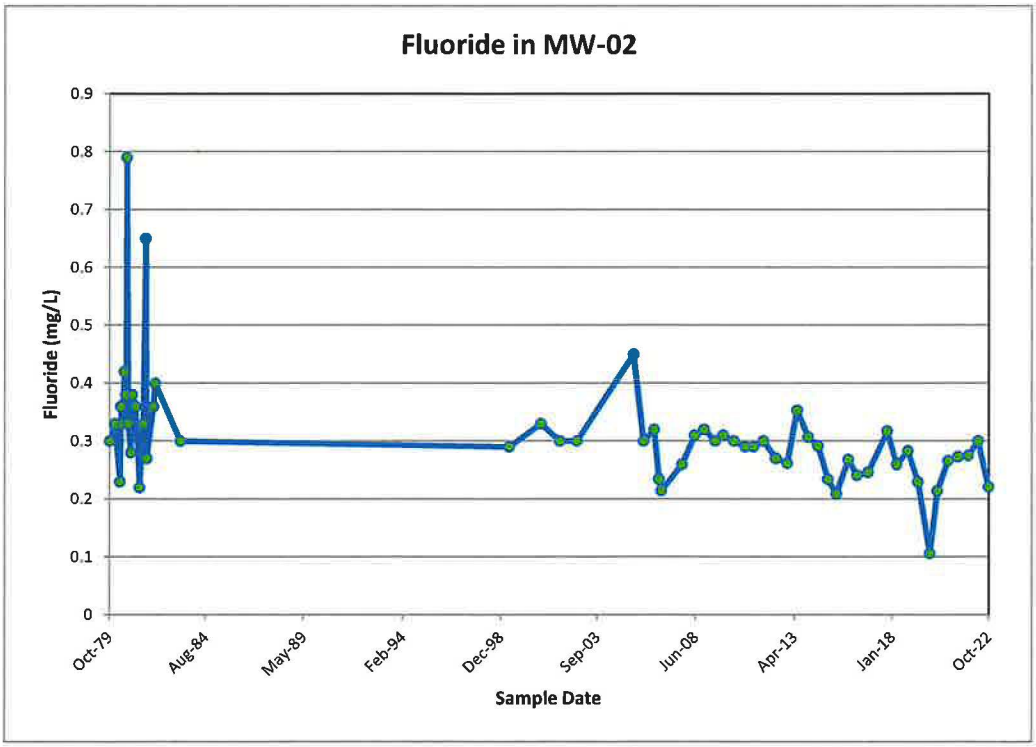
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-02





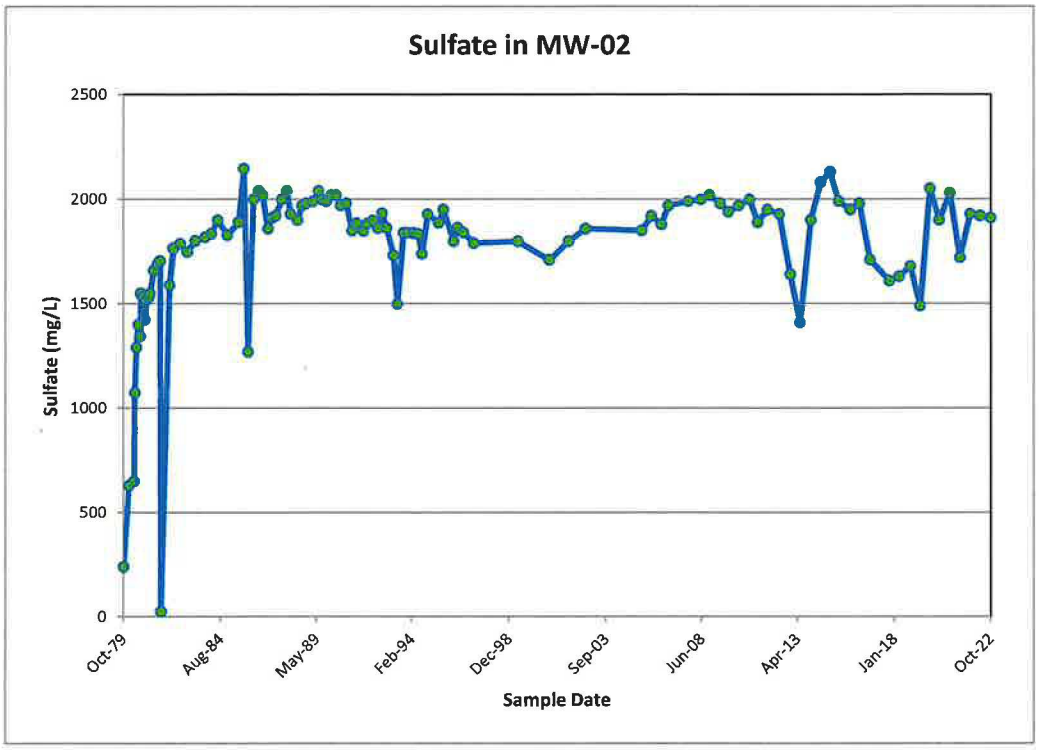
INTERA

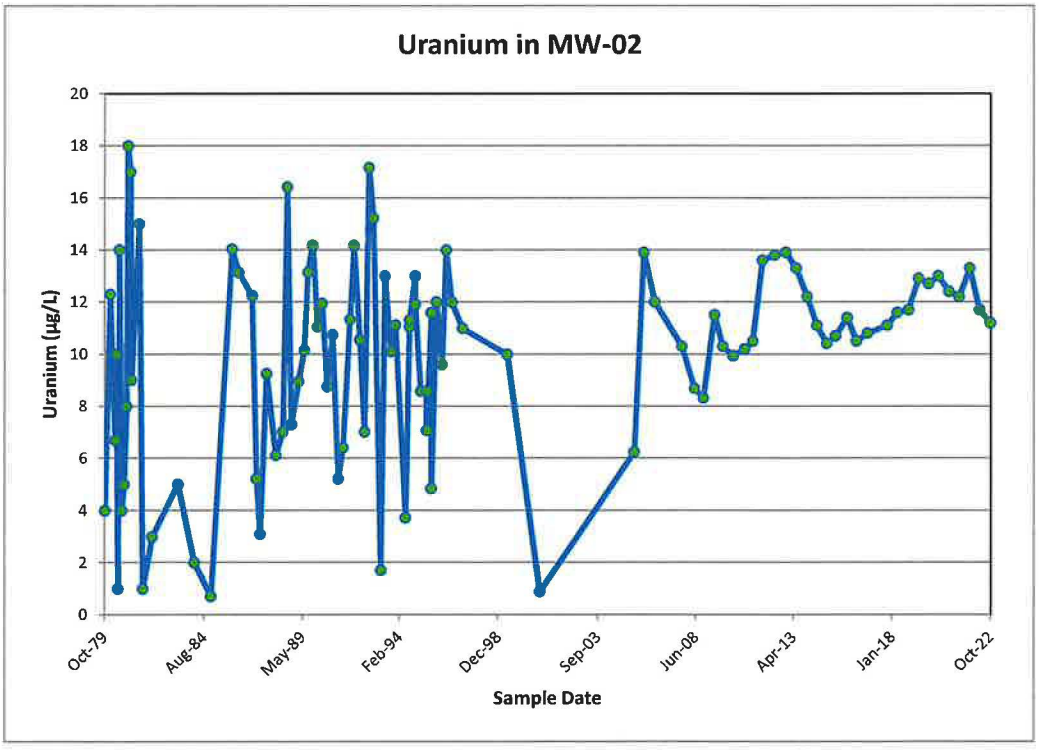
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-02





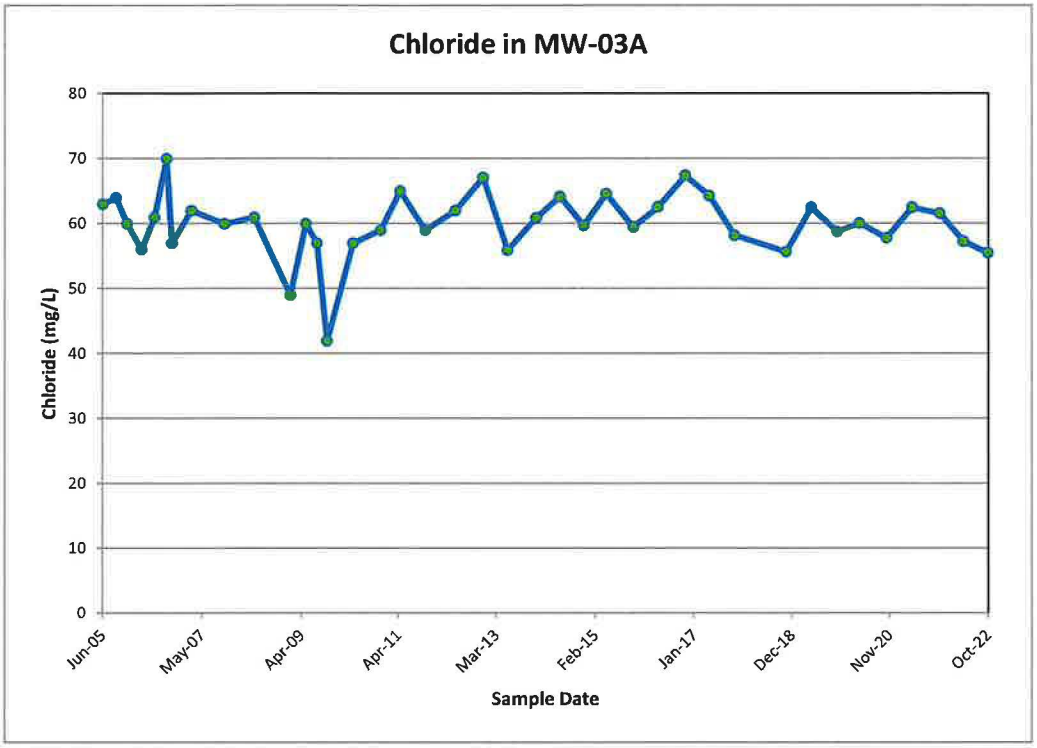
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

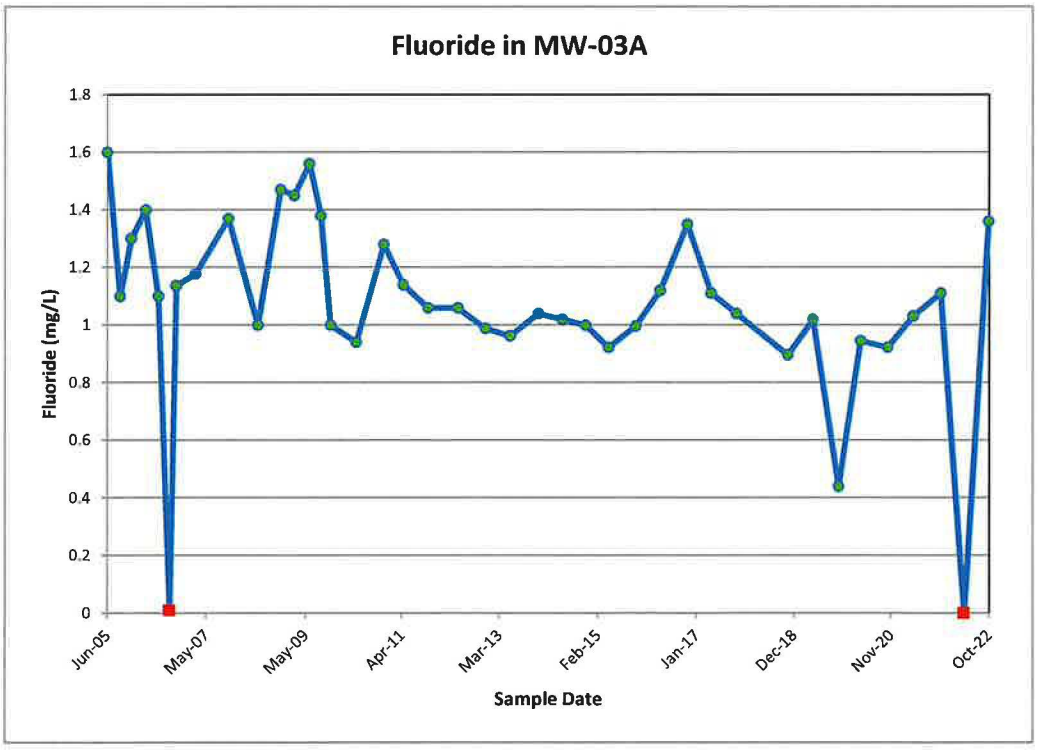
Detected Values

Non-Detected Values

INTERA

Time concentration plots for MW-03A



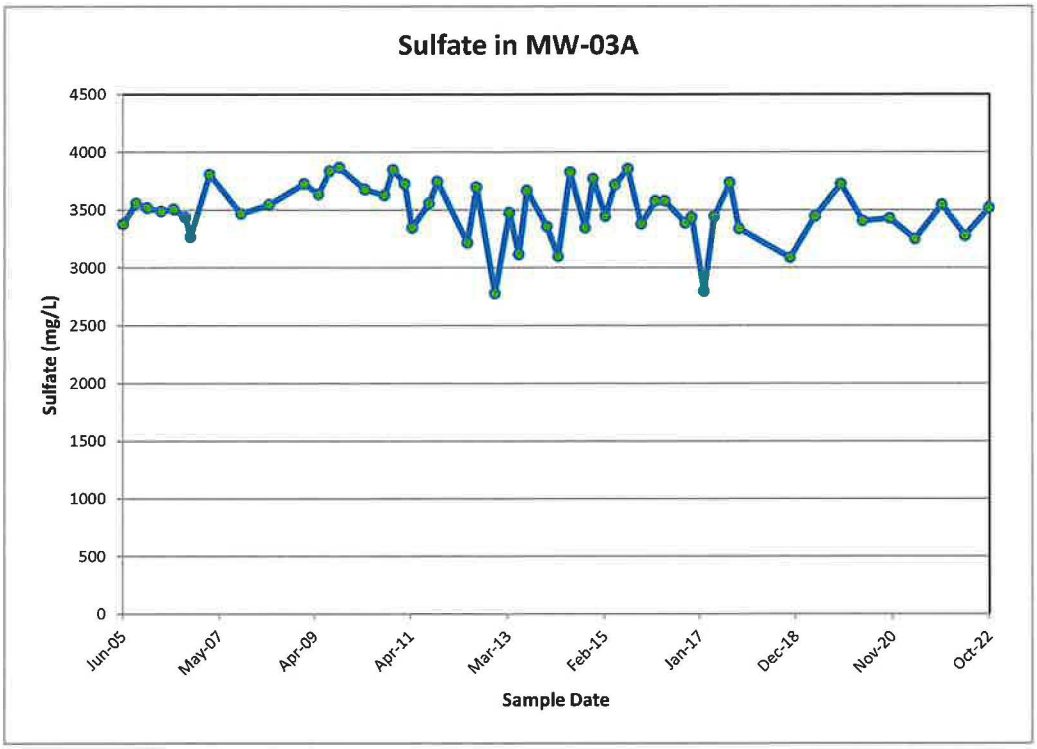


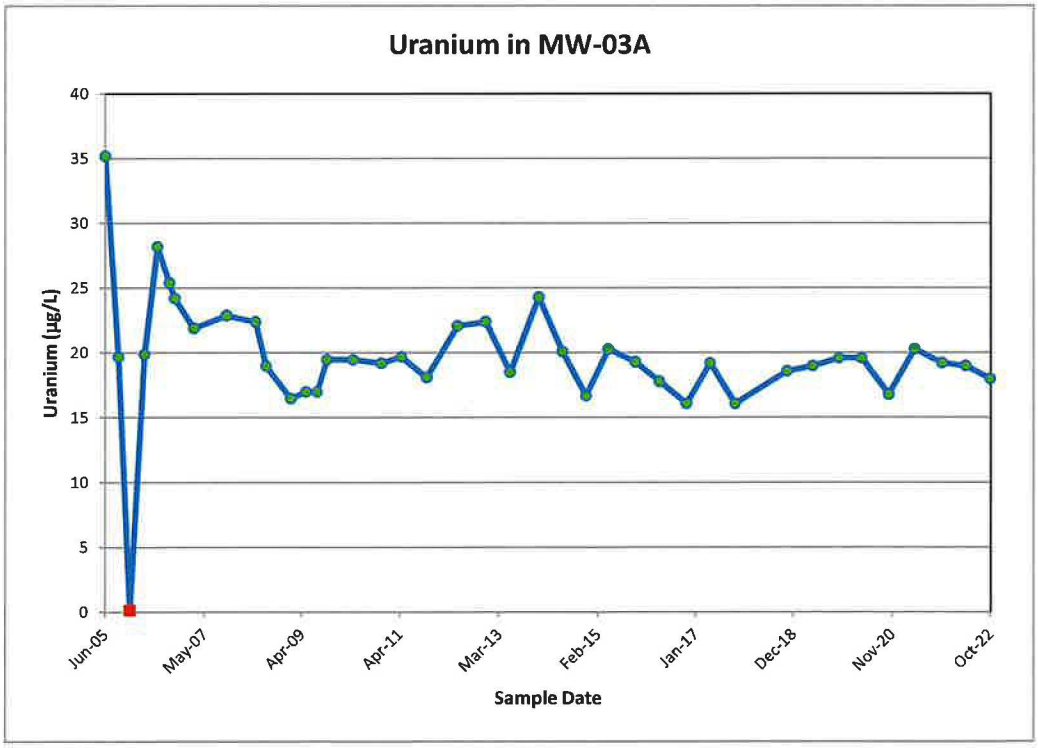
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-03A



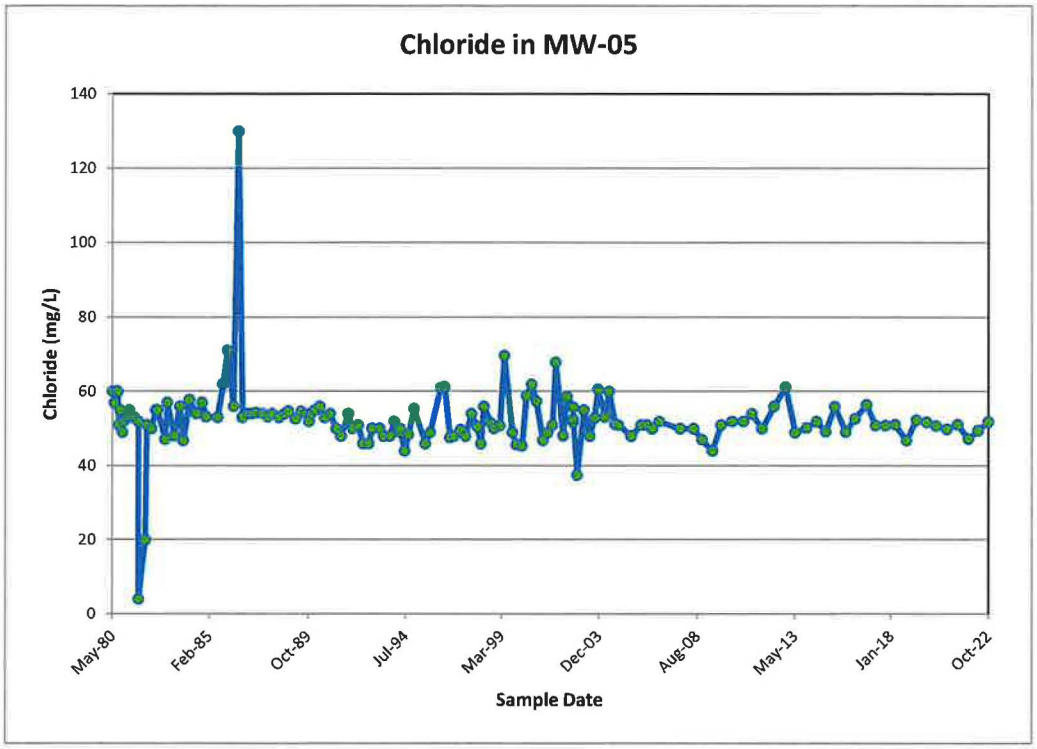


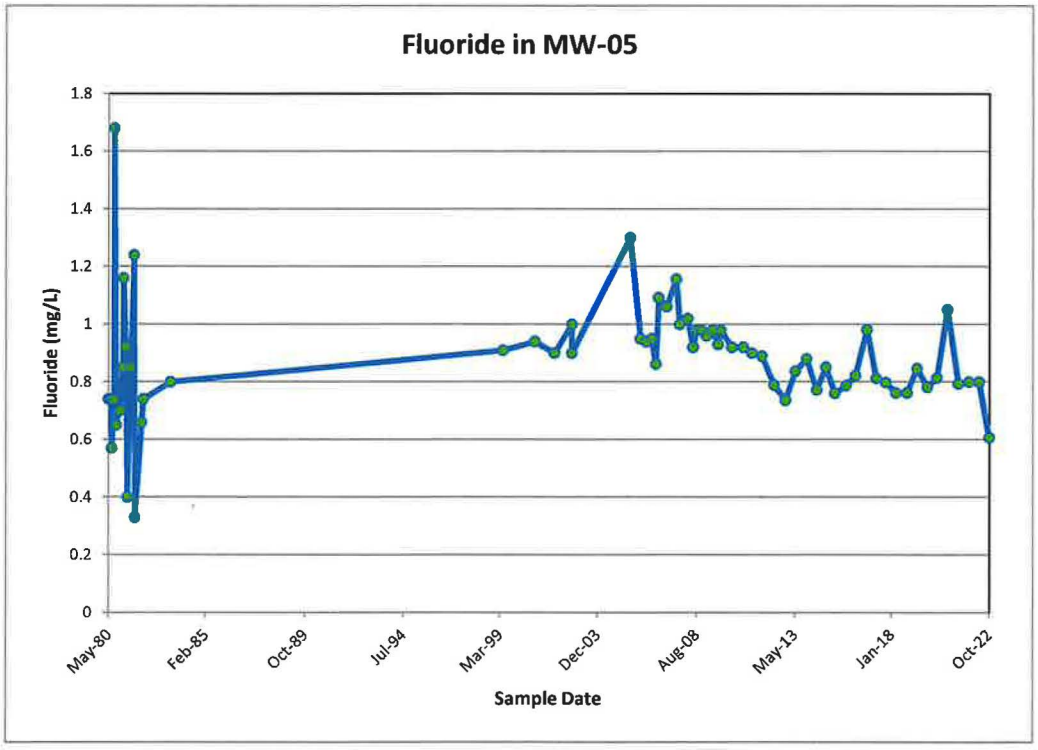
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-05





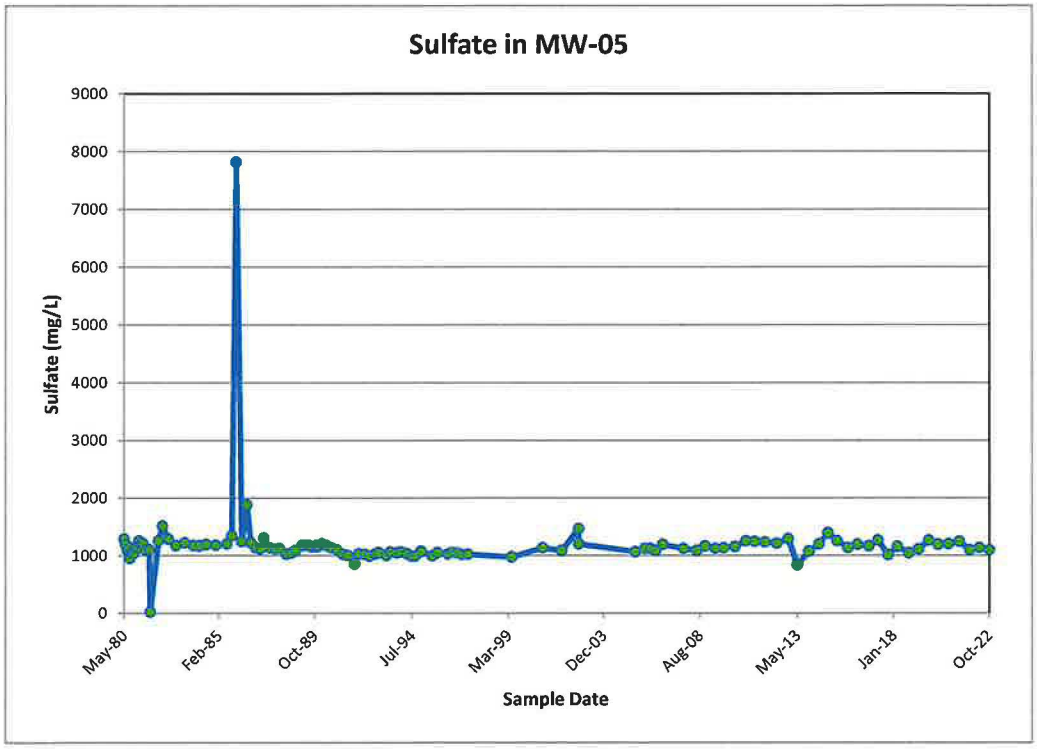
INTERA

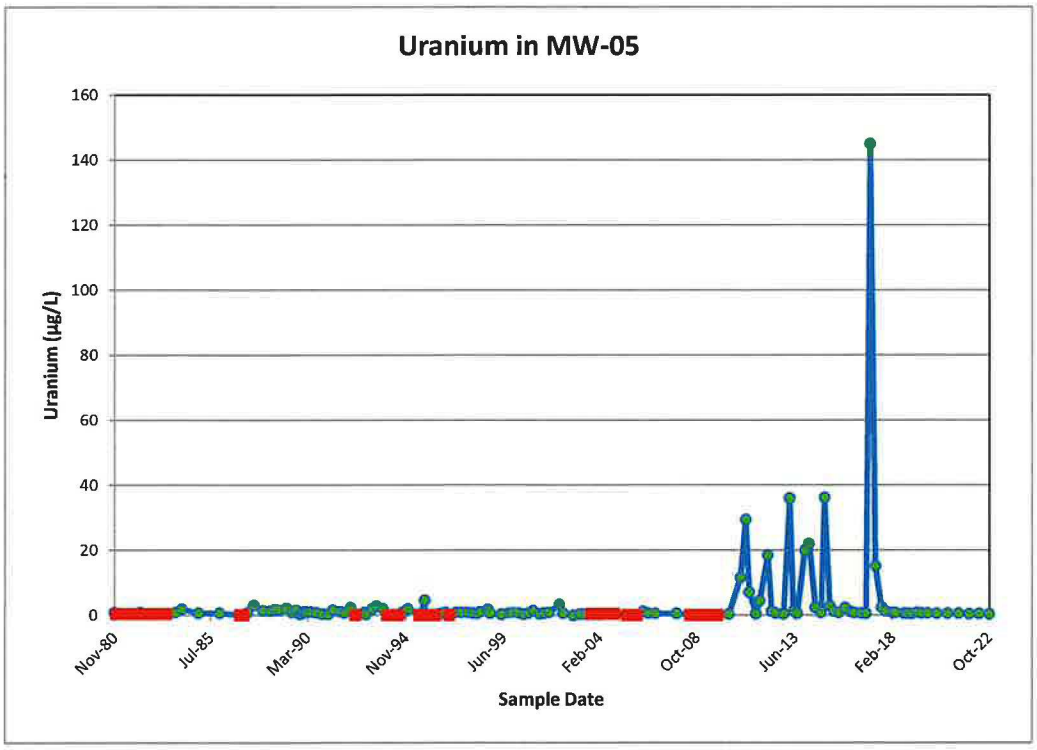
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-05



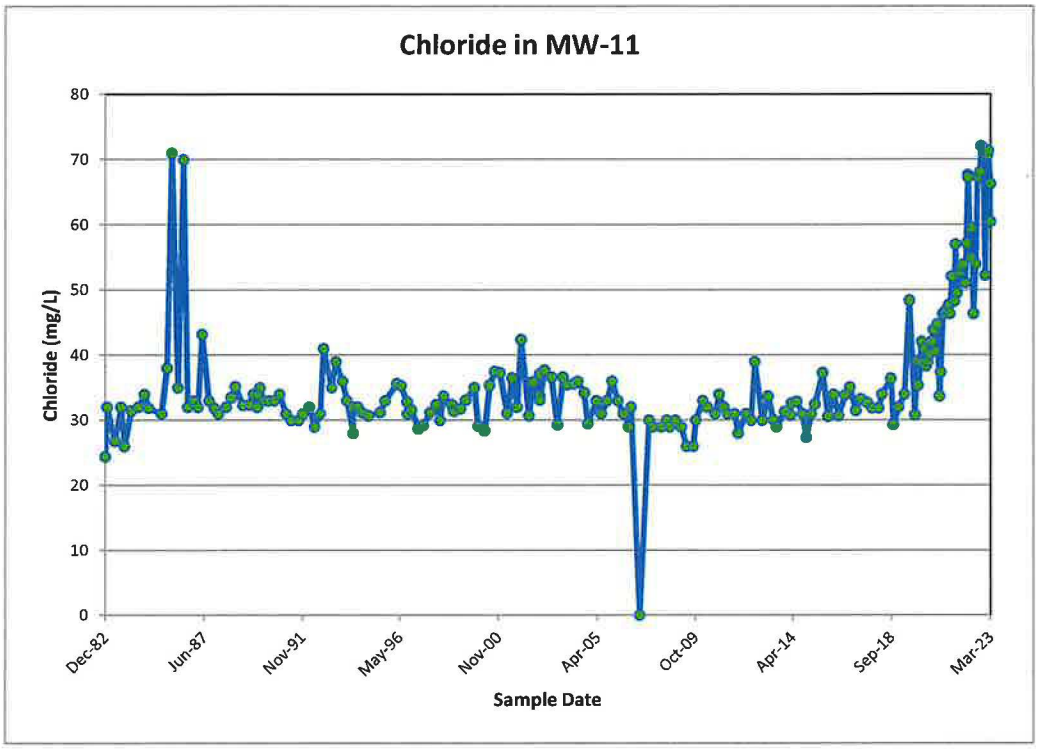


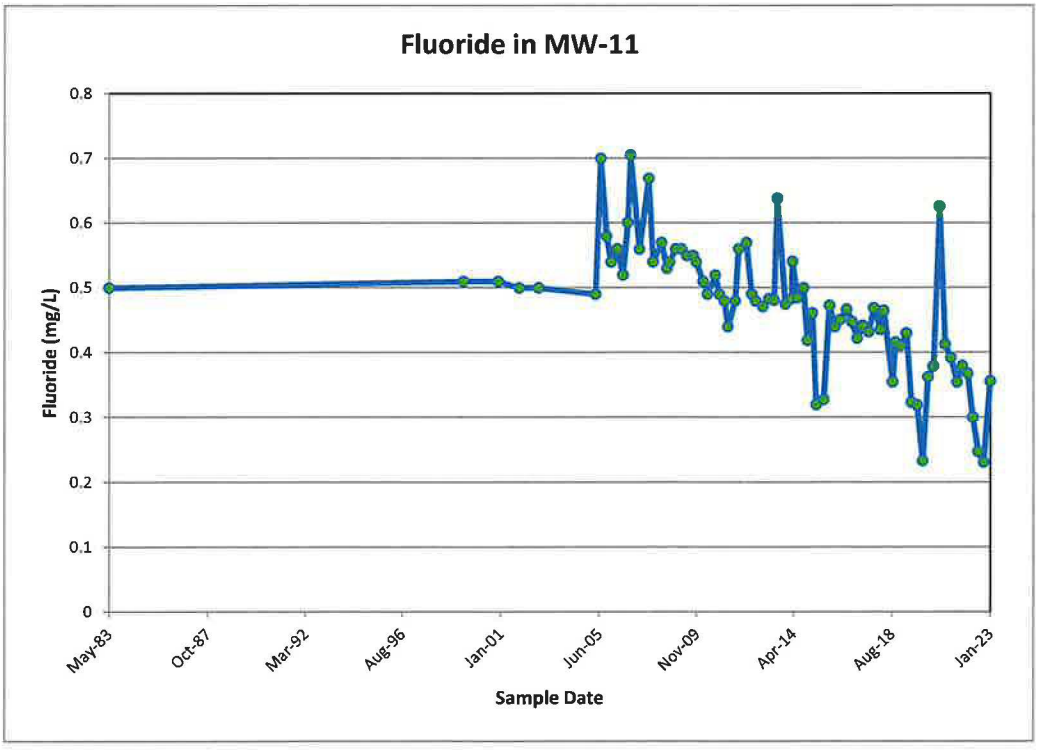
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-11





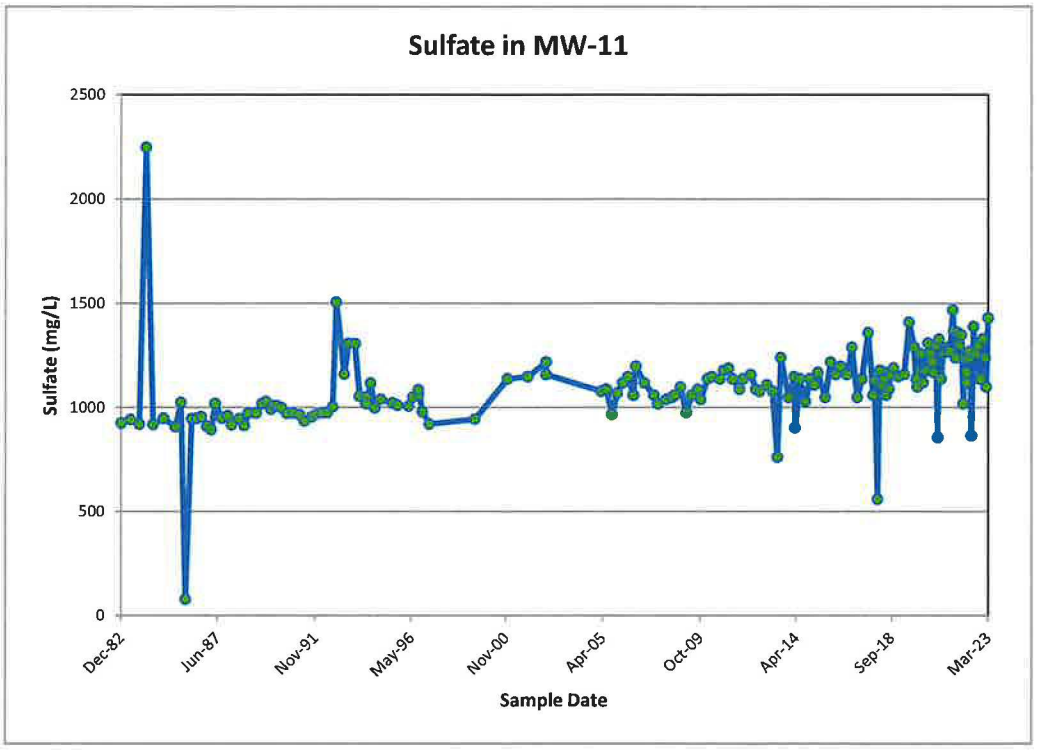
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

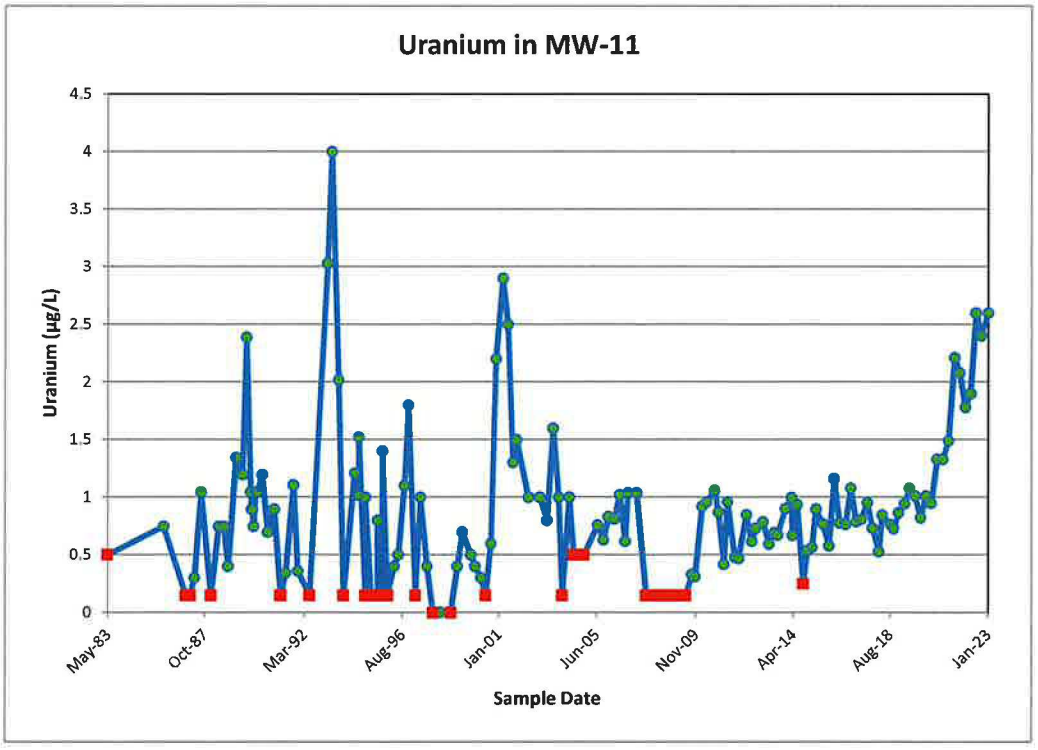
Detected Values

Non-Detected Values

INTERA

Time concentration plots for MW-11





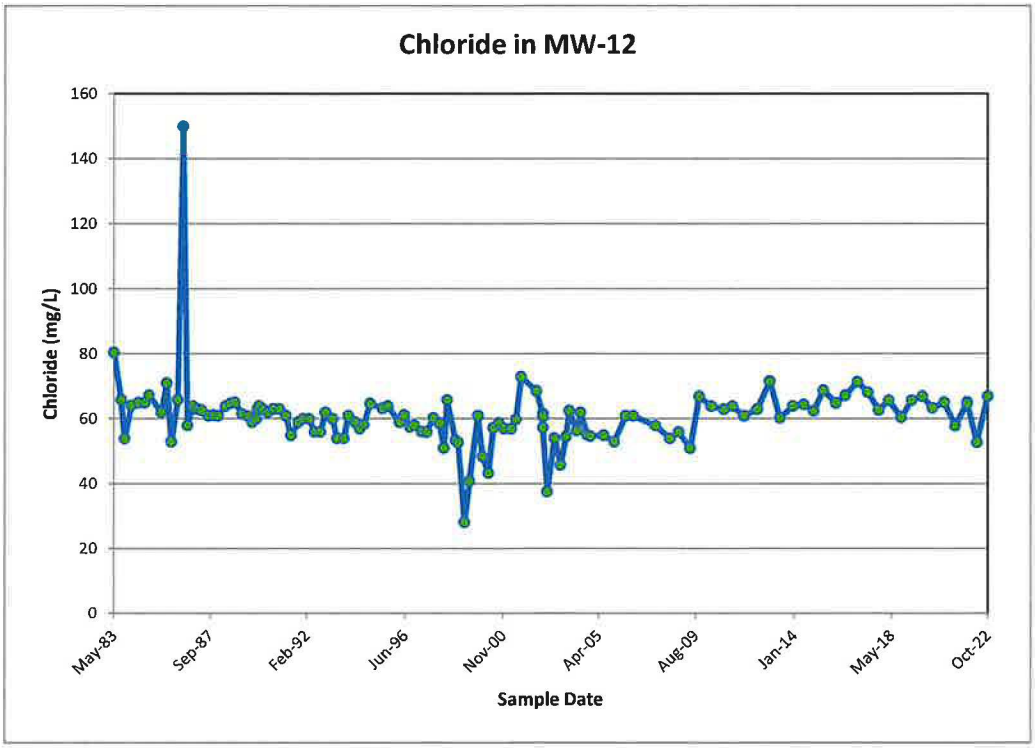
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

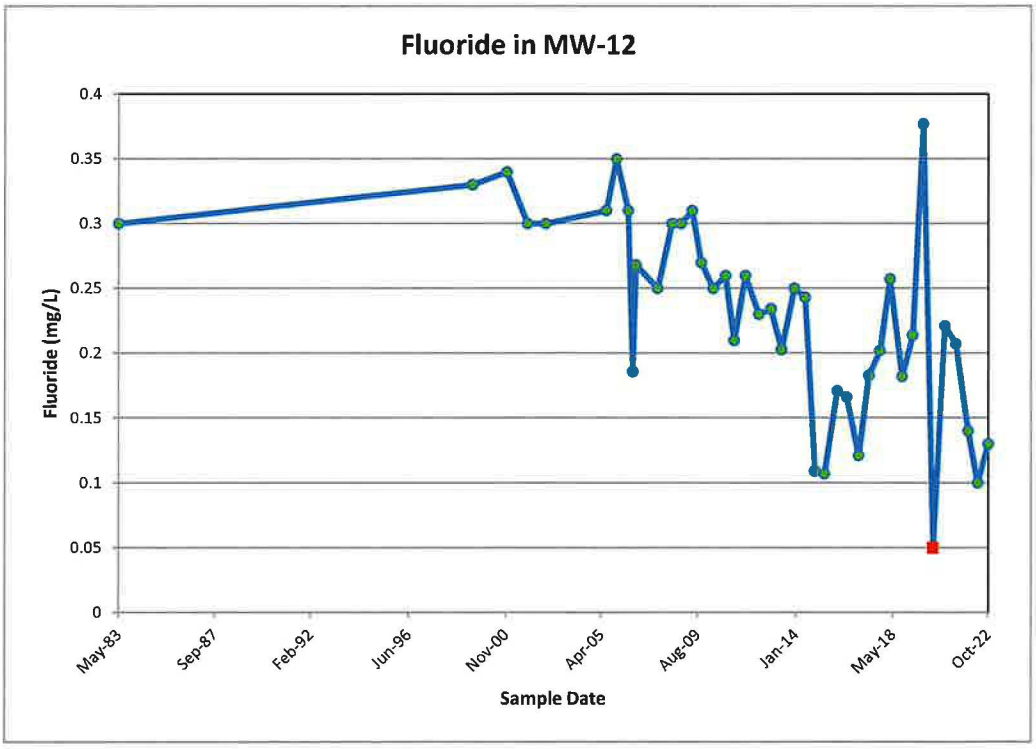
Detected Values

Non-Detected Values

INTERA

Time concentration plots for MW-12



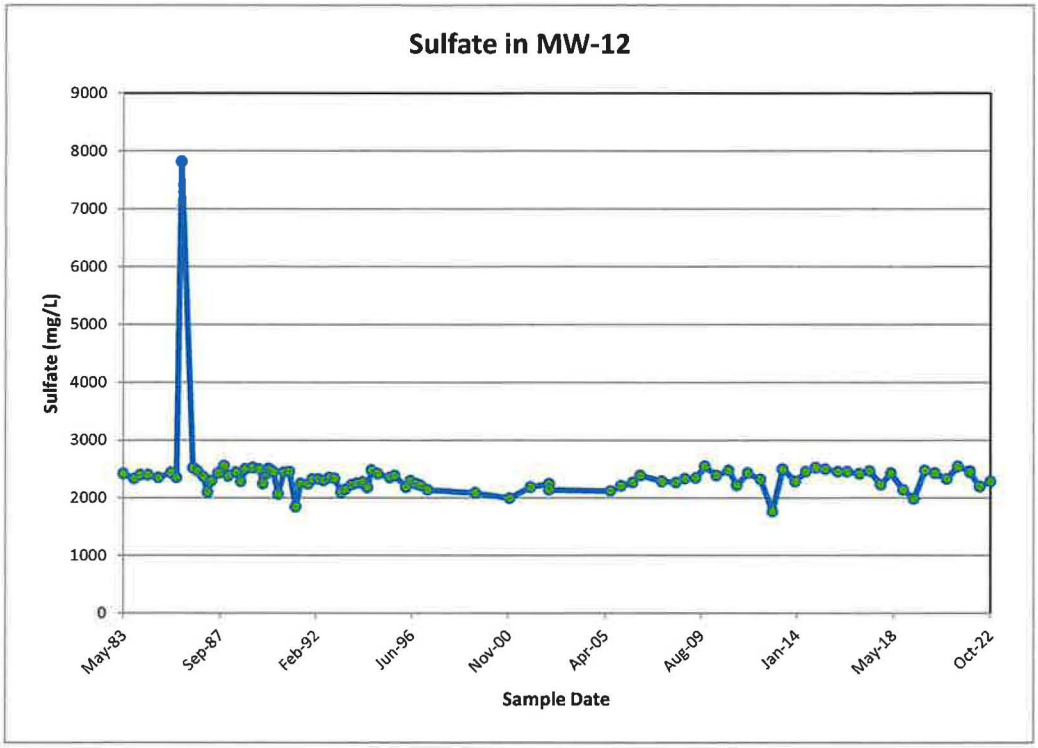


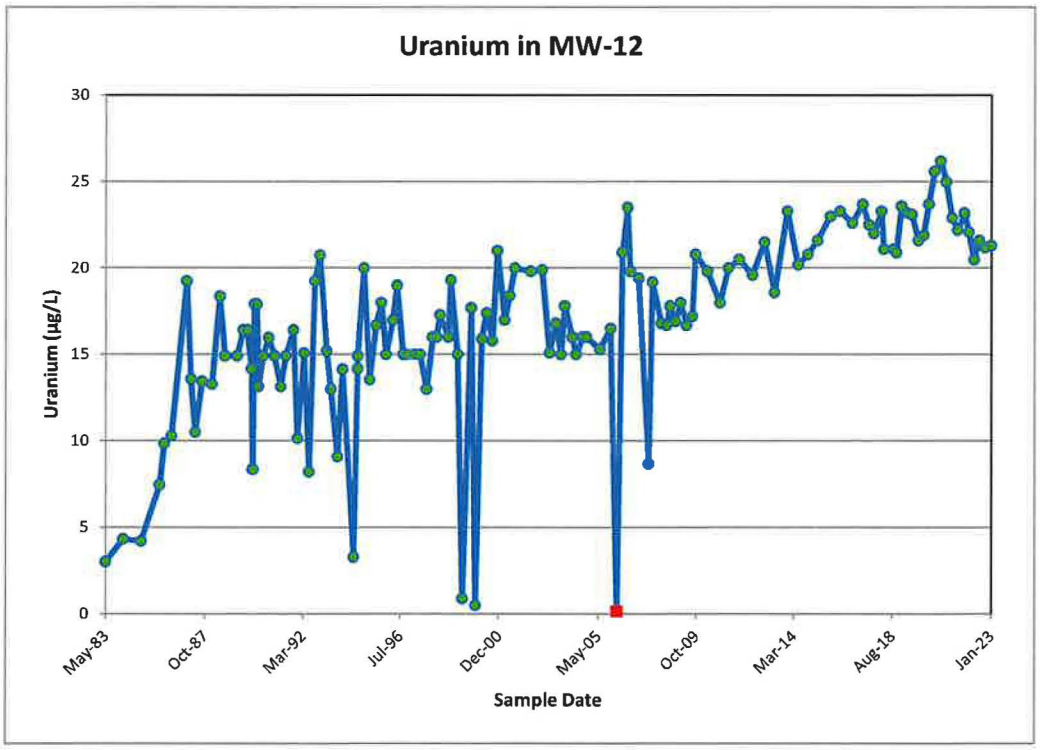
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-12



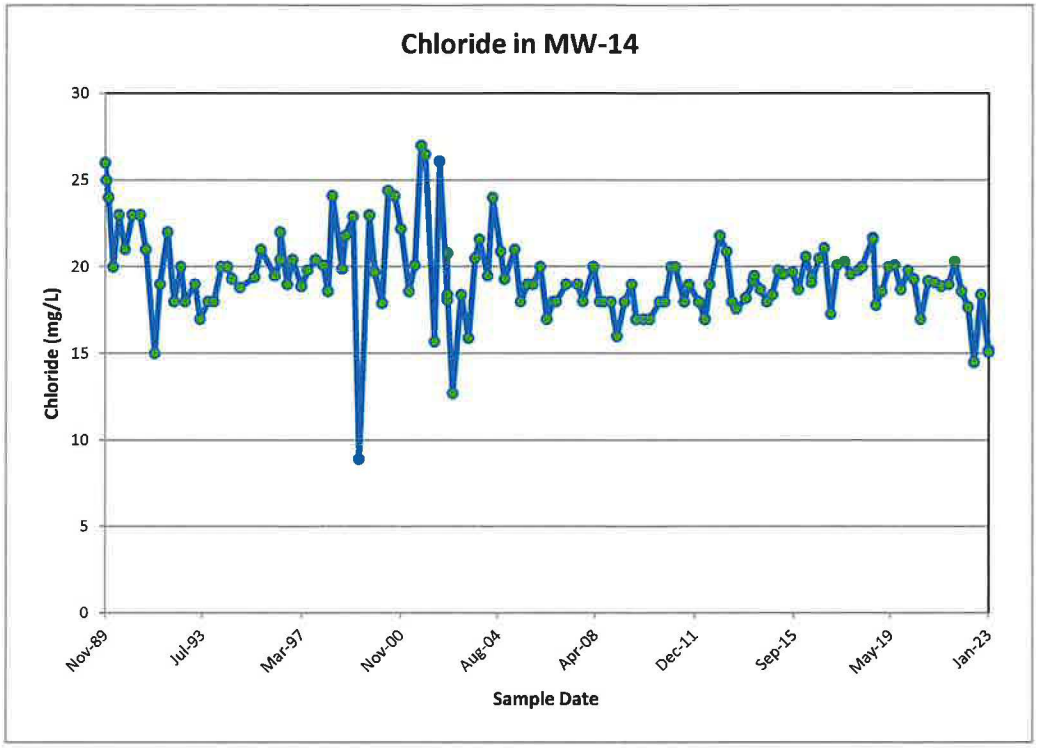


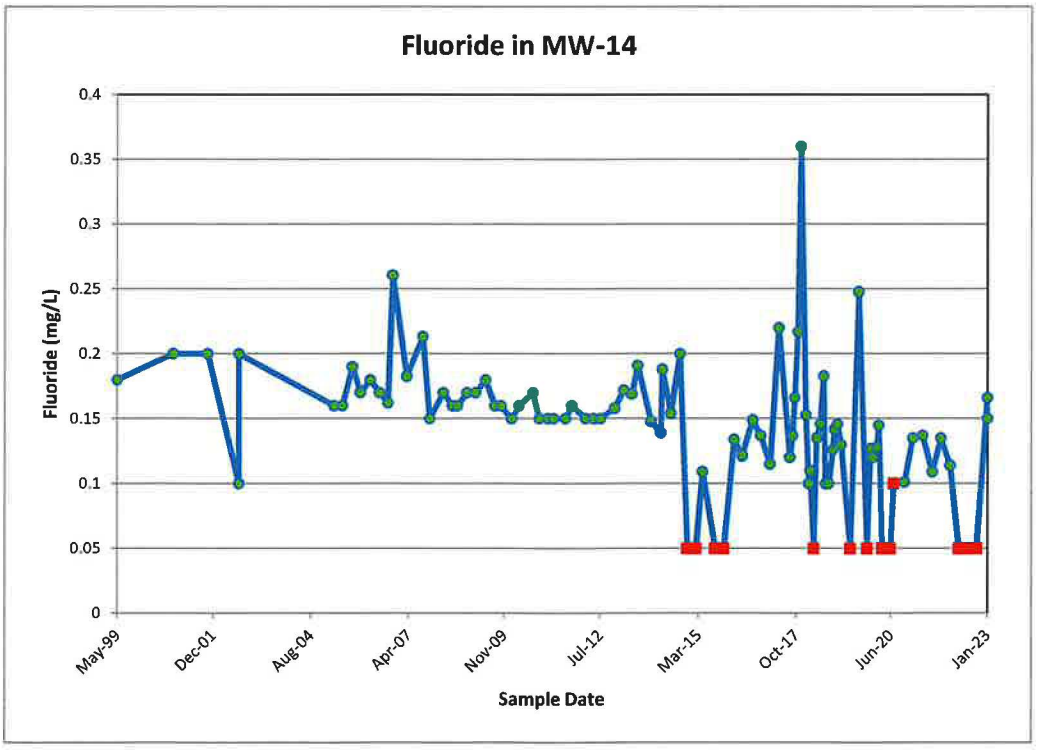
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-14



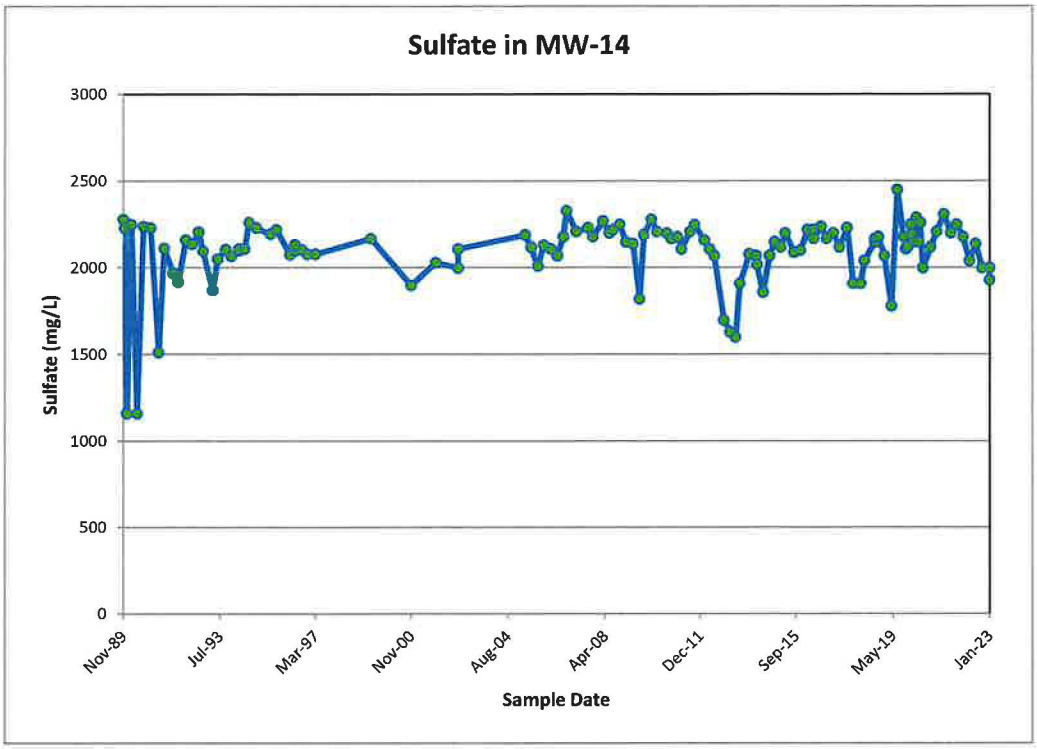


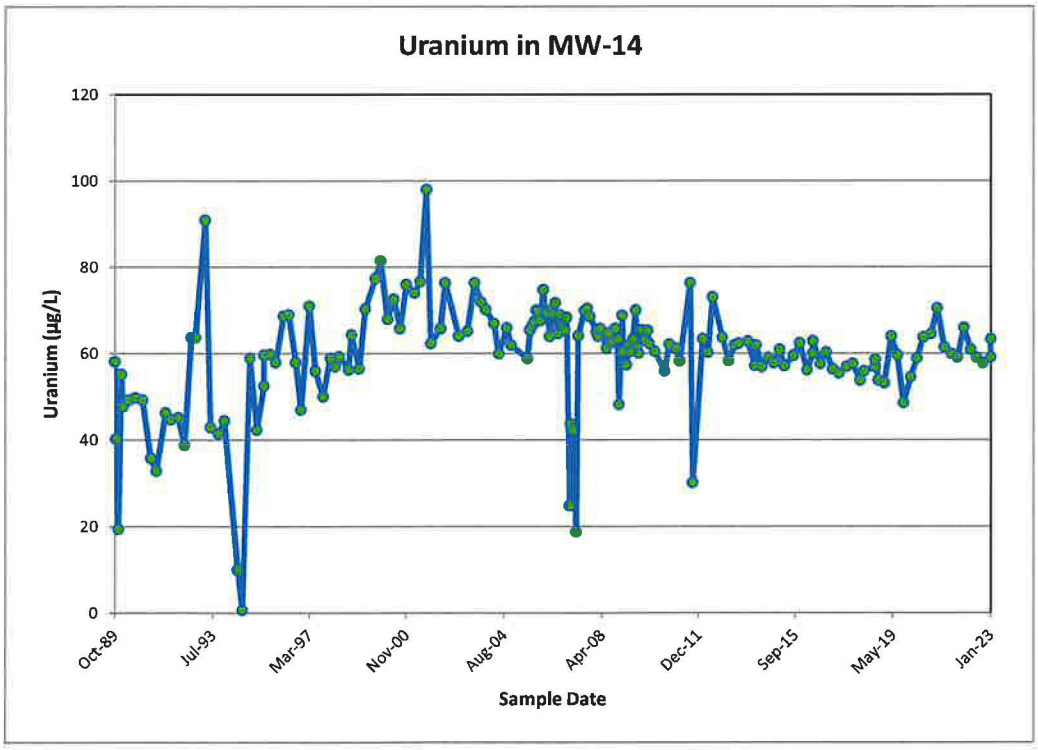
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-14



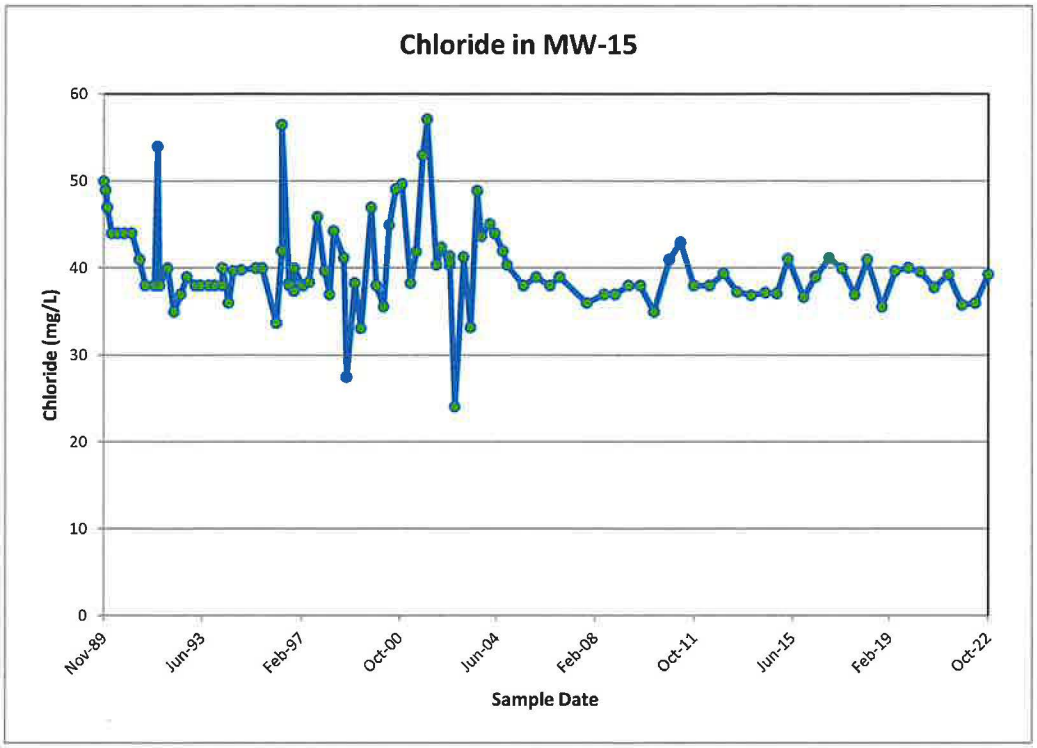


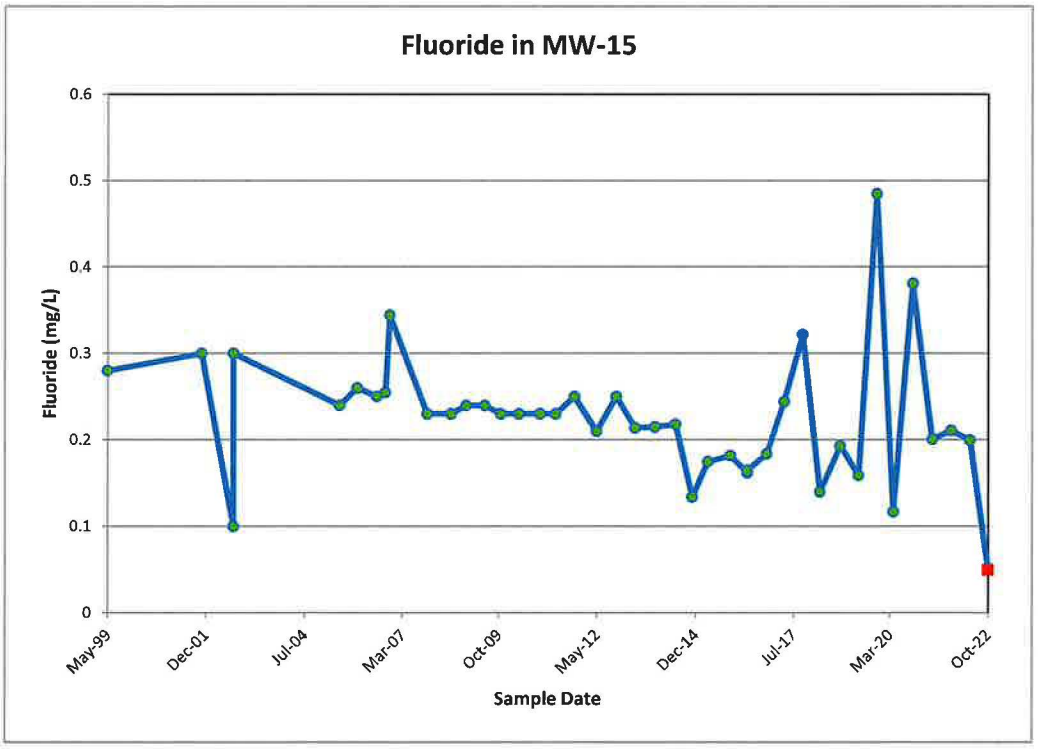
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-15





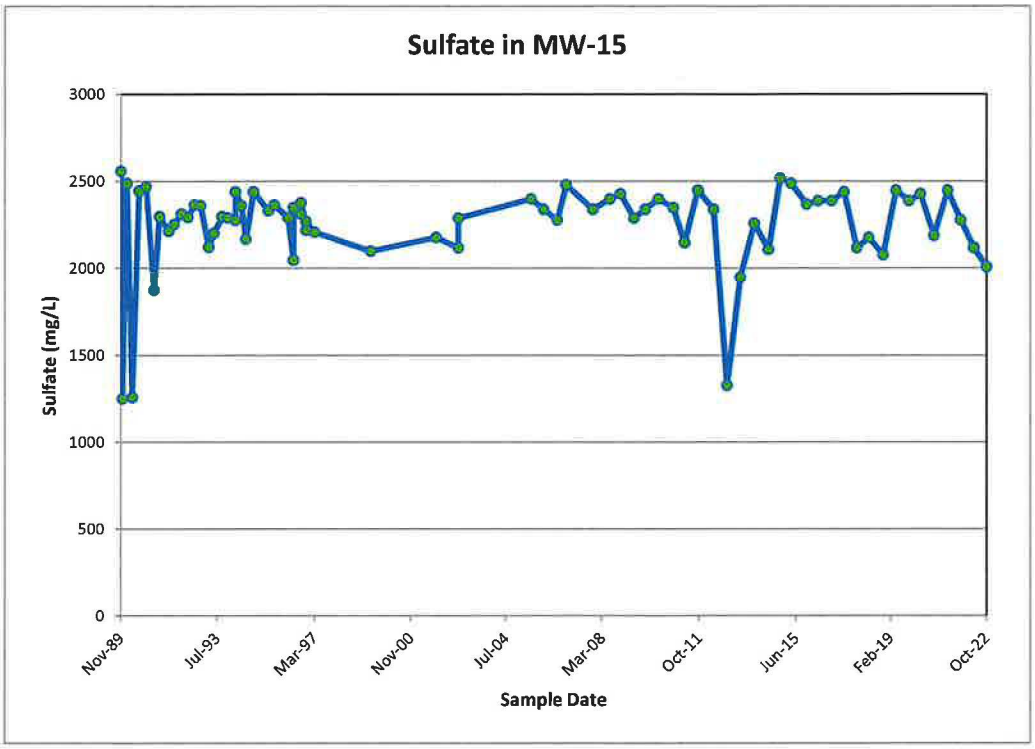
INTERA

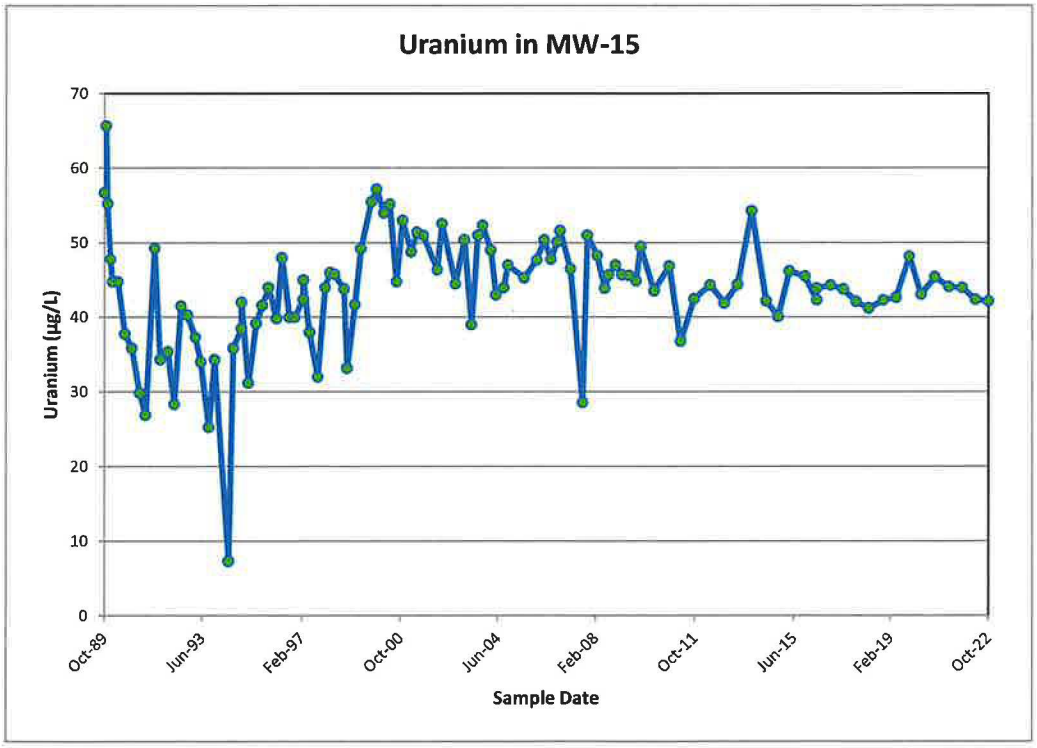
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-15





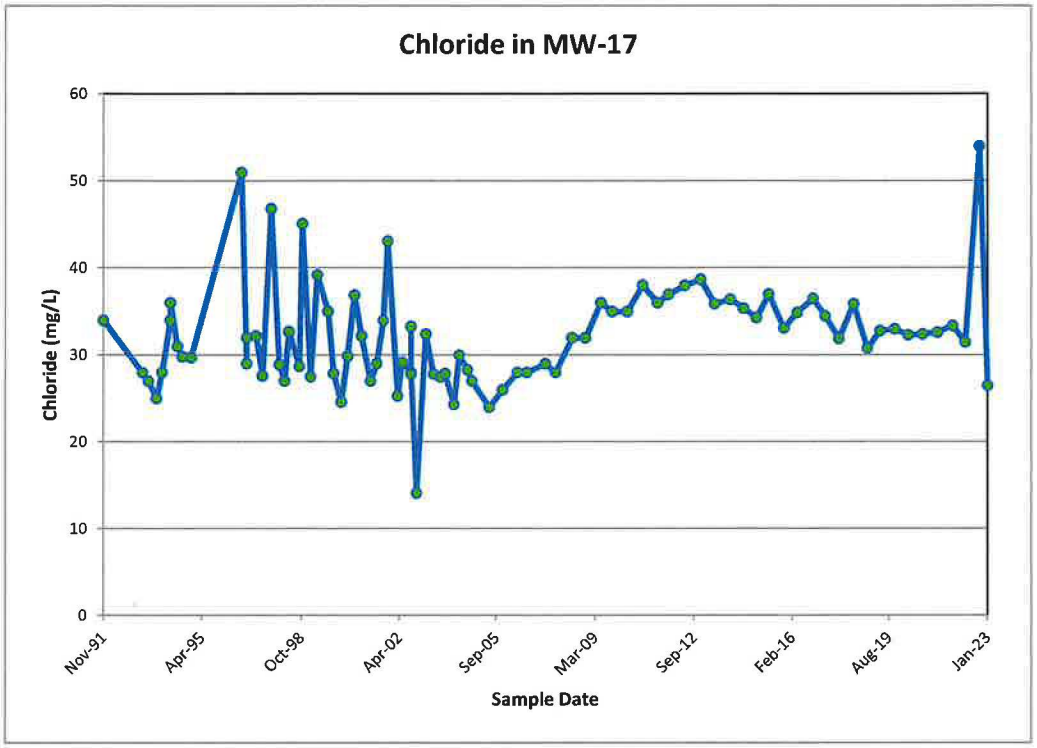
INTERA

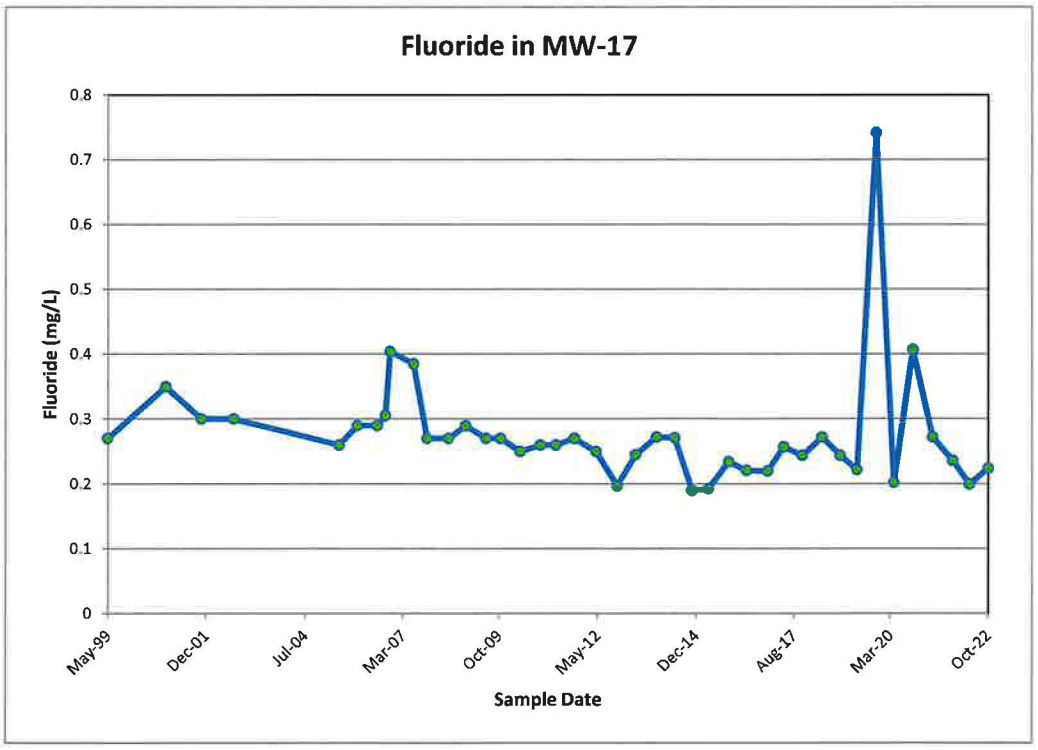
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-17



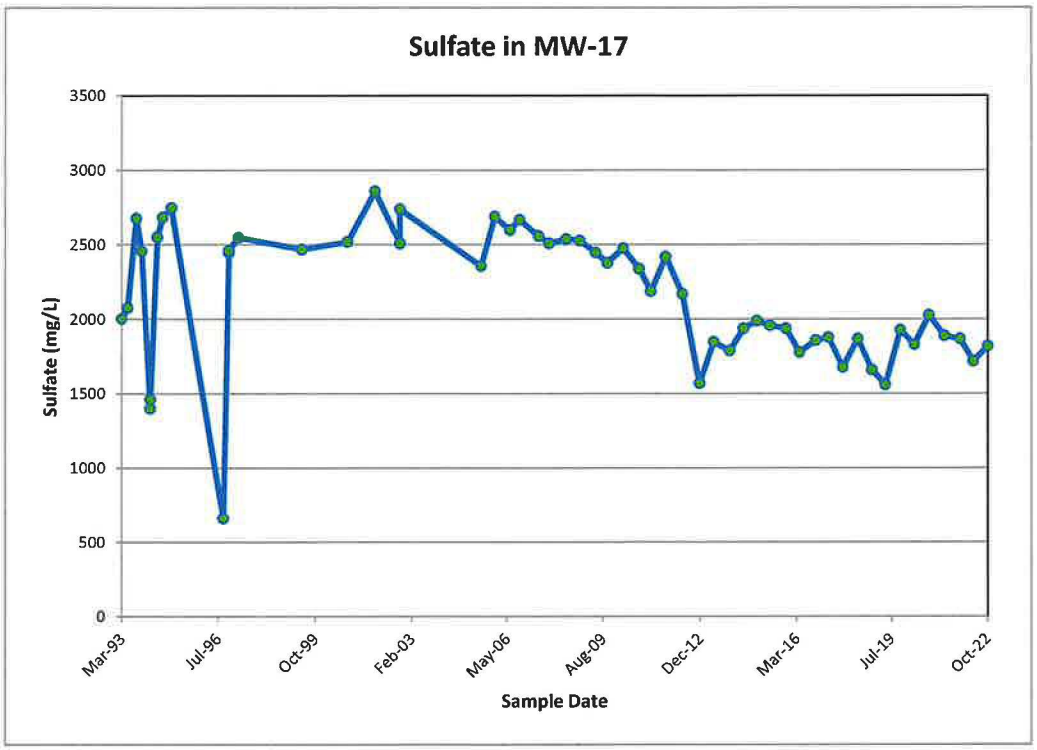


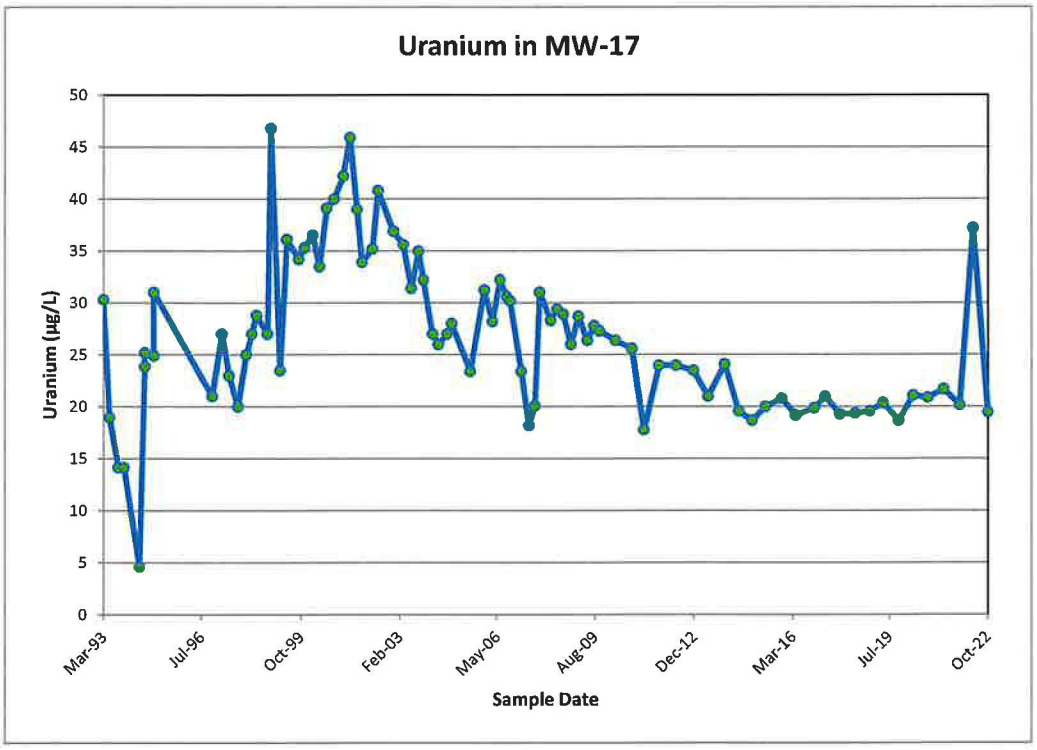
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-17





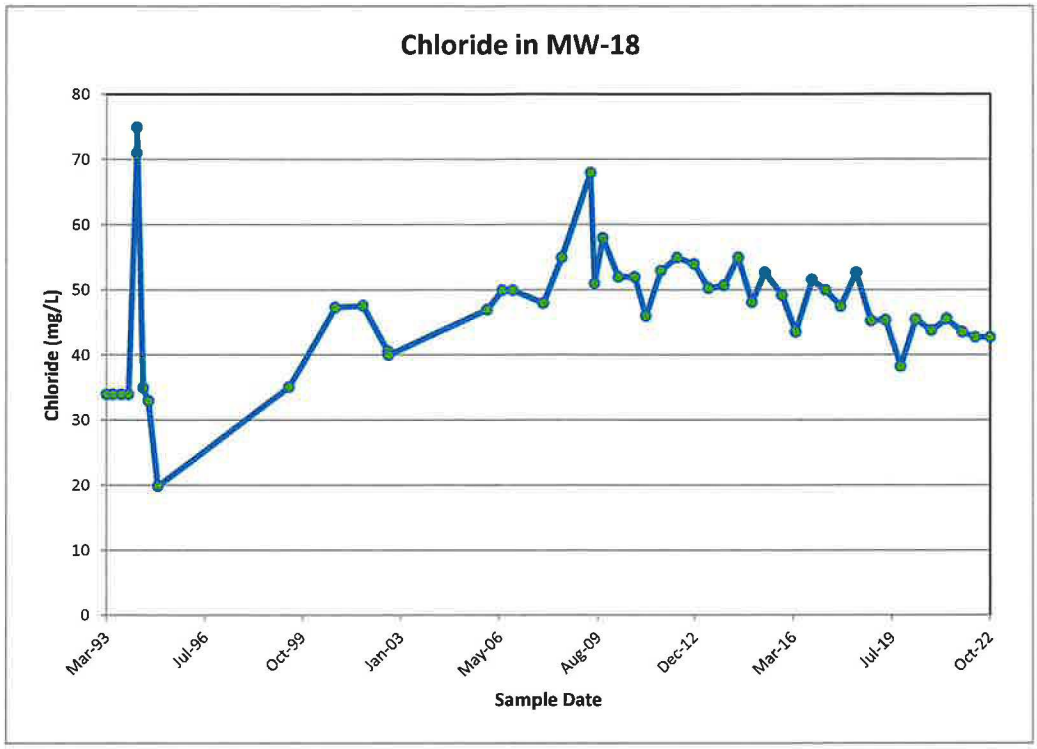
INTERA

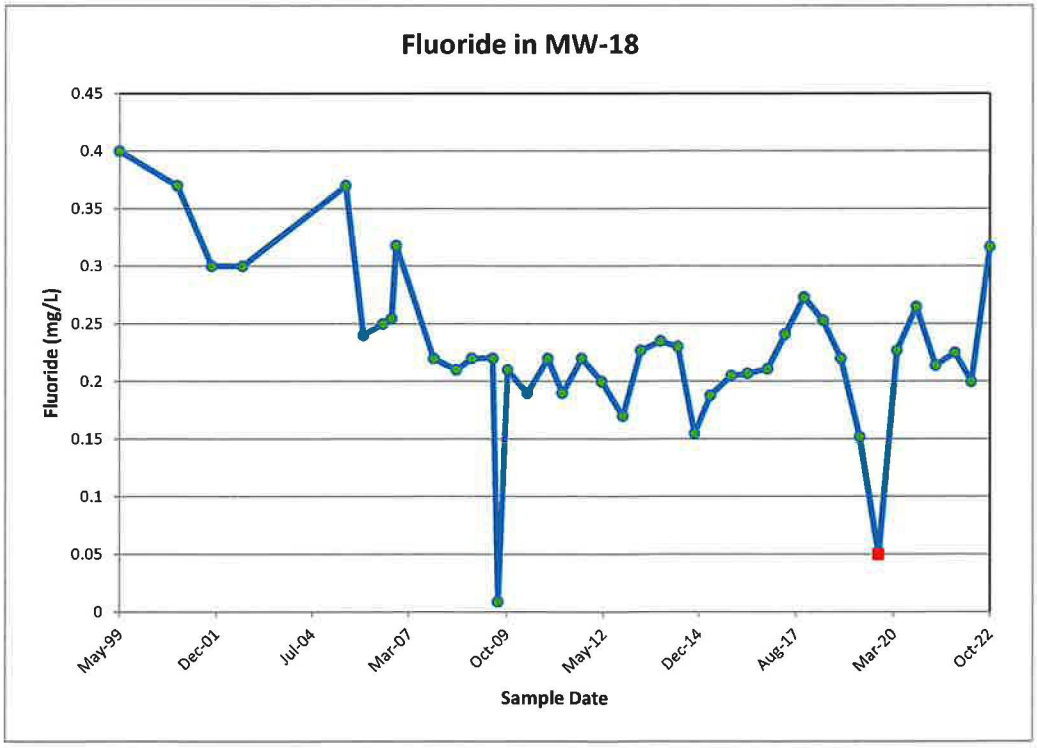
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-18





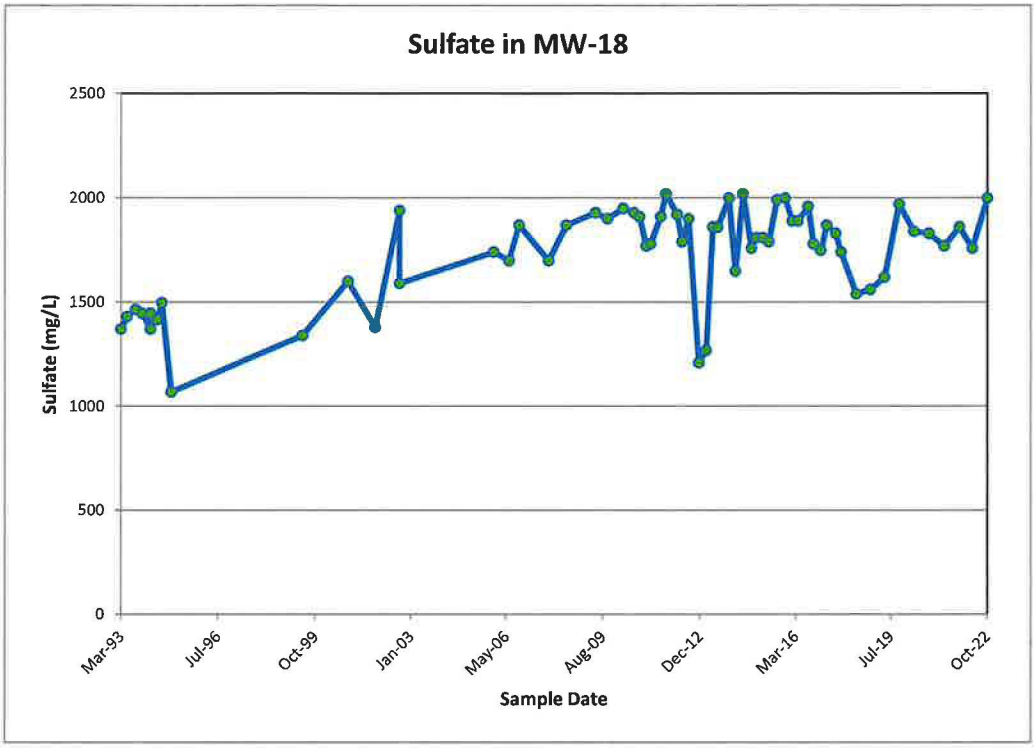
INTERA

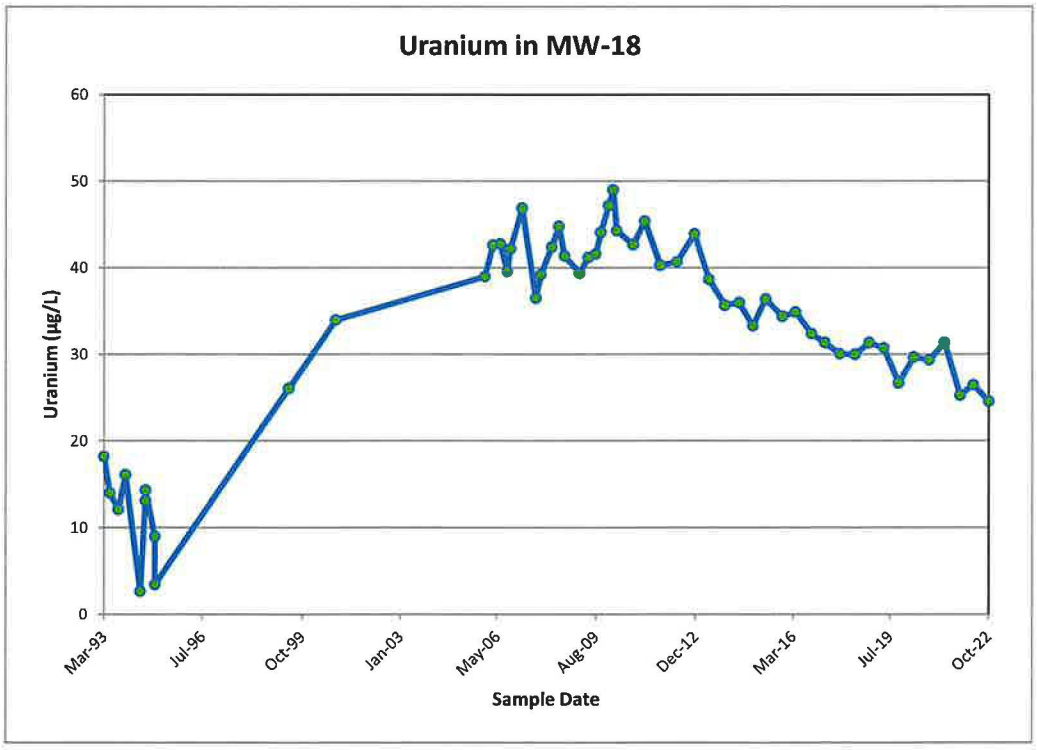
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-18





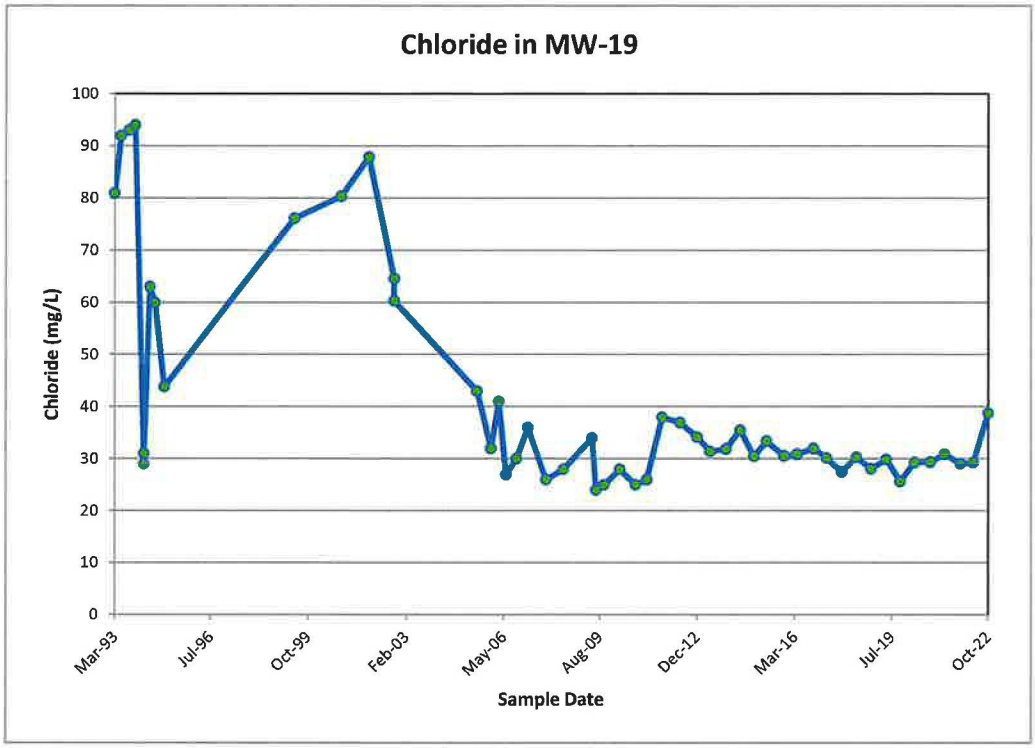
INTERA

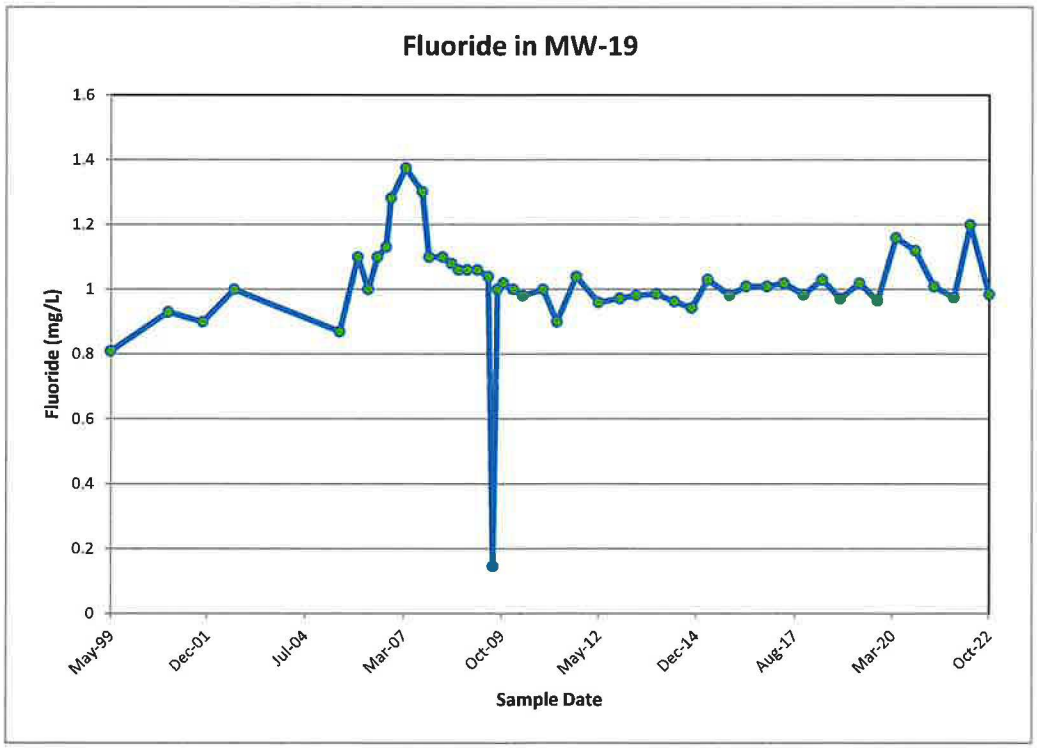
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

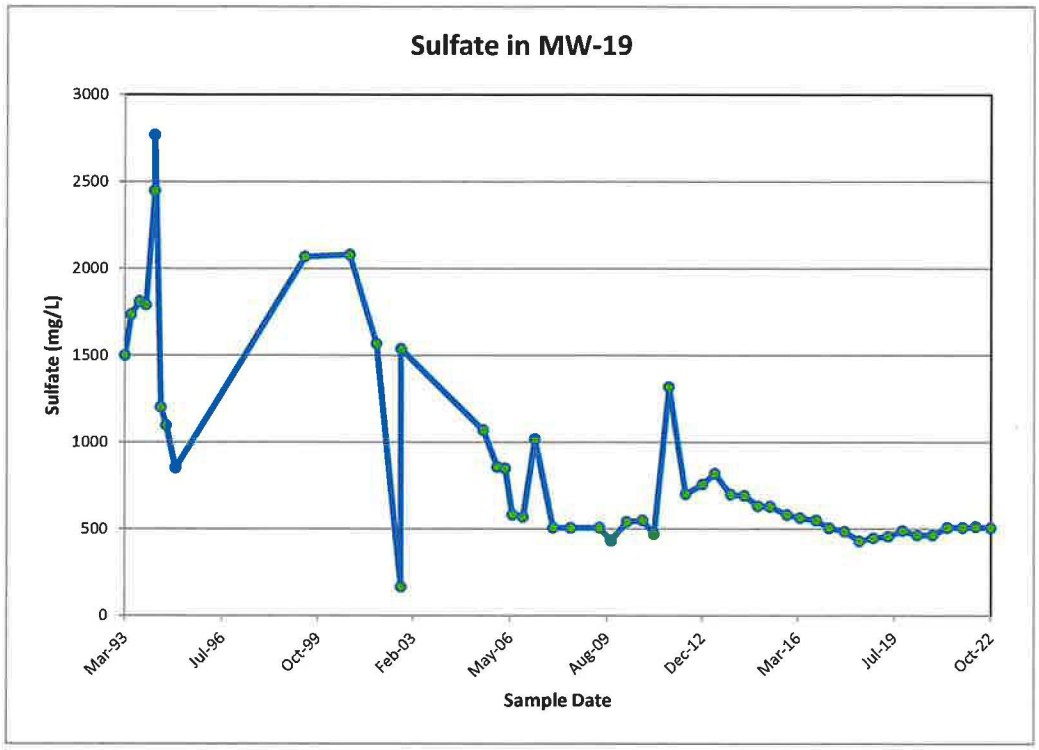
Non-Detected Values

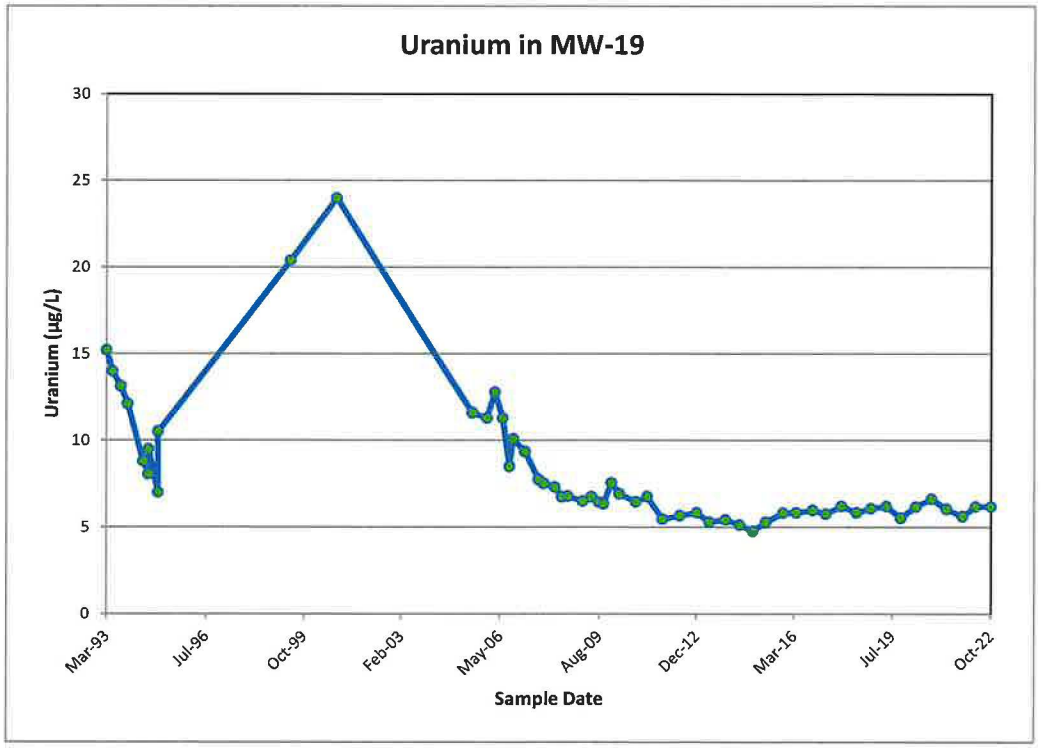
Time concentration plots for MW-19





Time concentration plots for MW-19





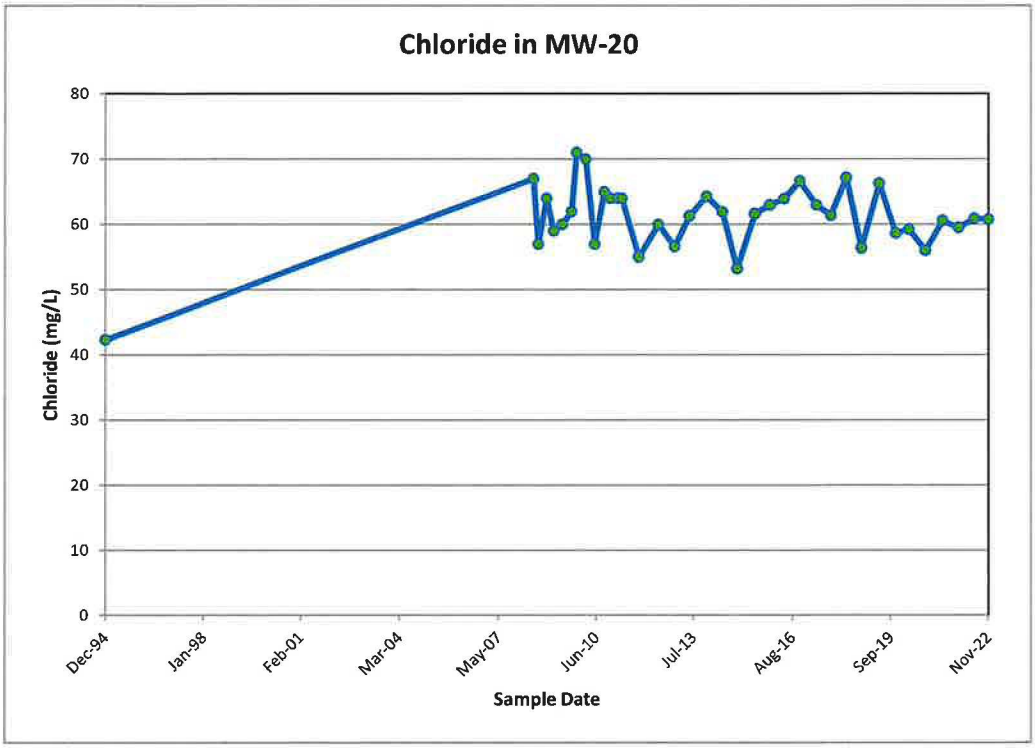
INTERA

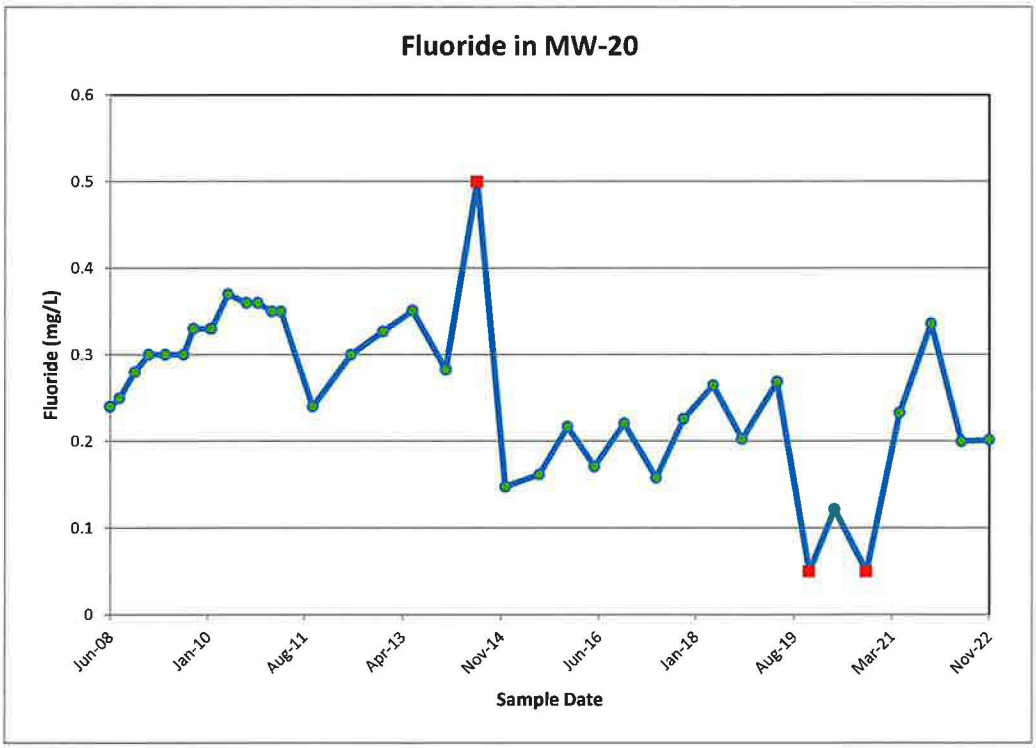
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-20



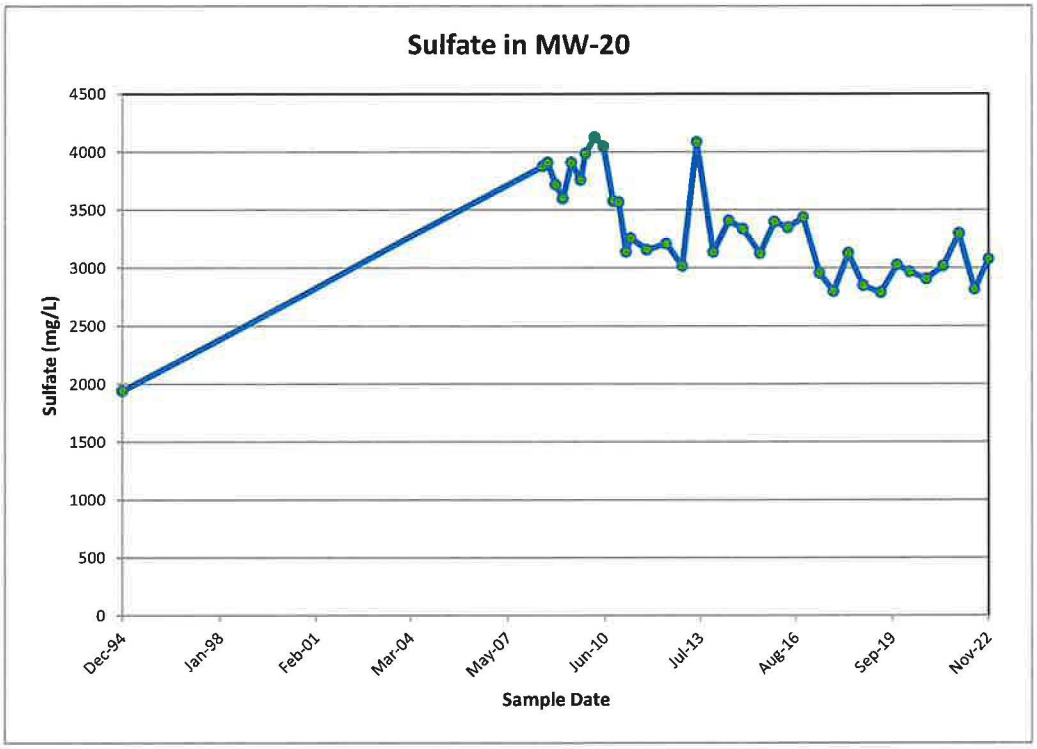


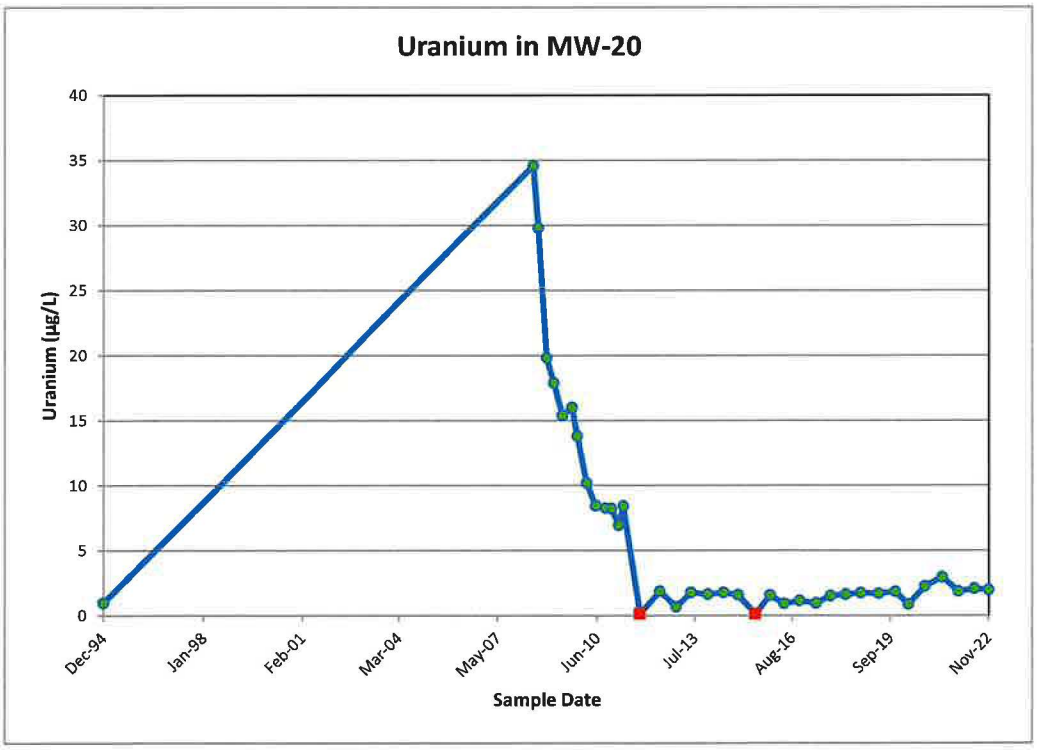
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-20



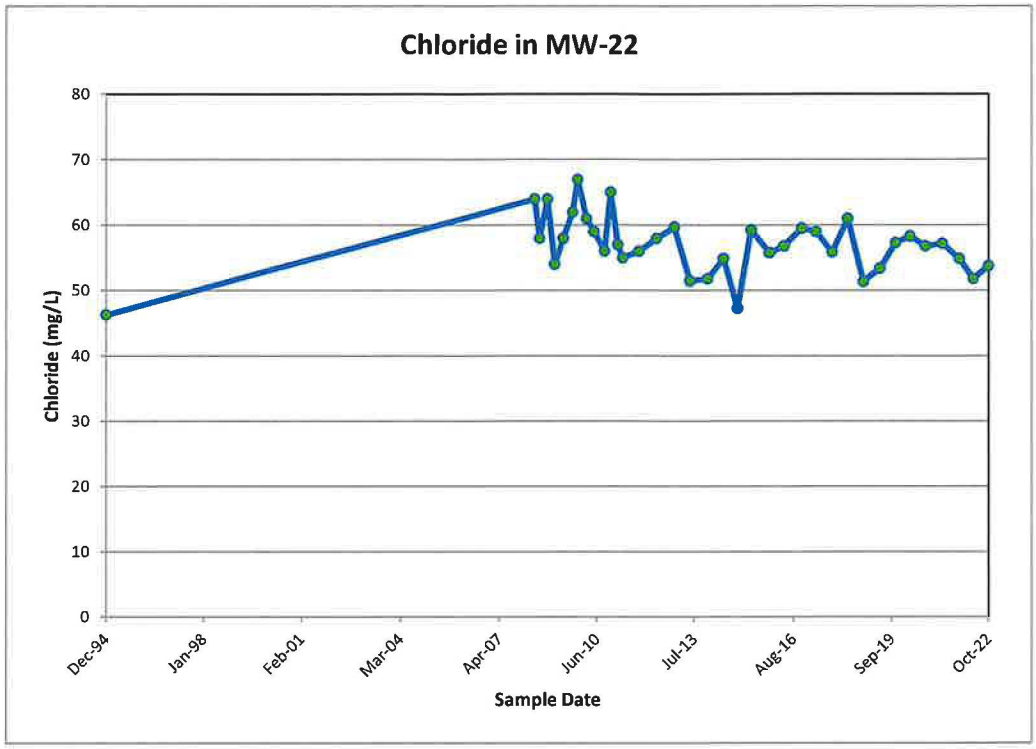


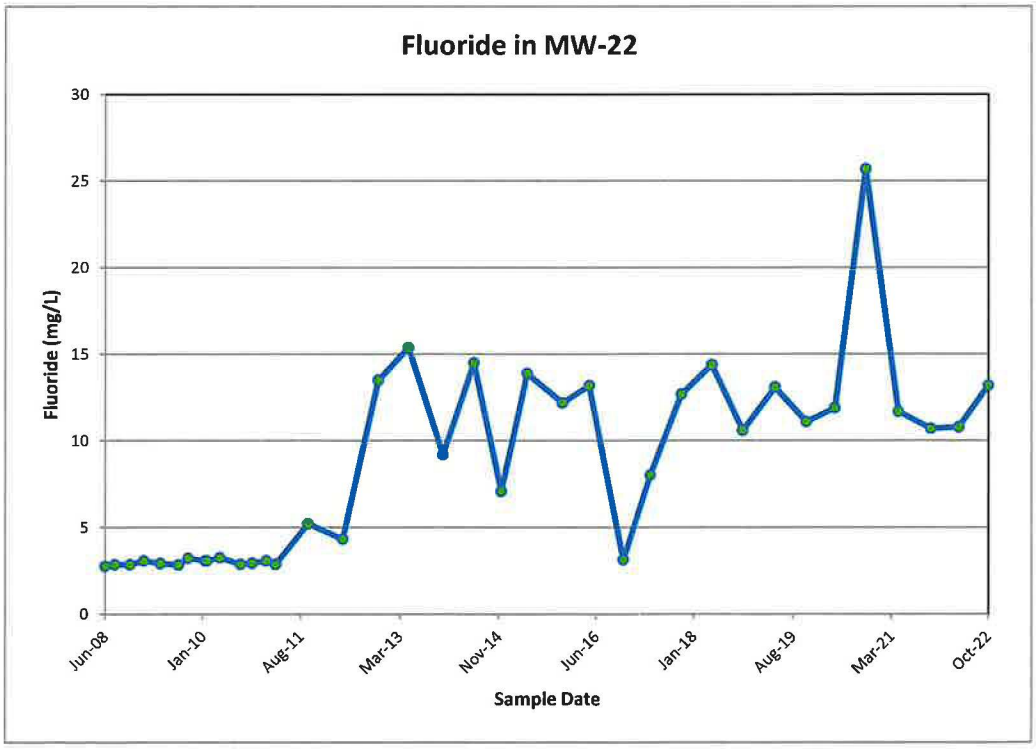
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-22



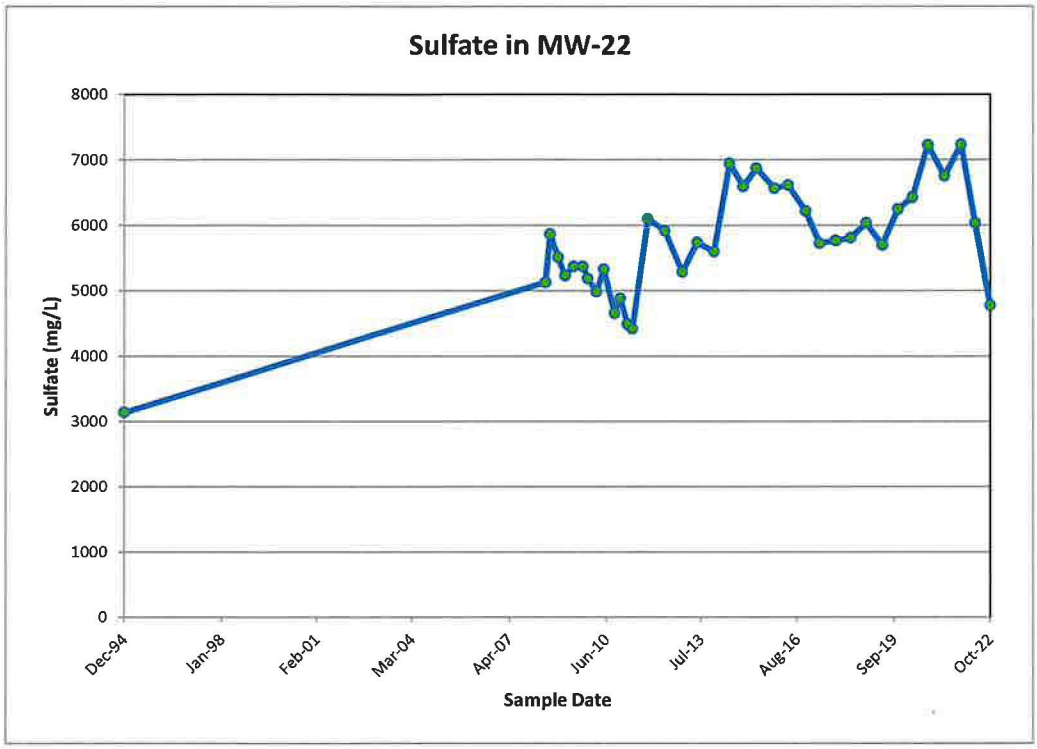


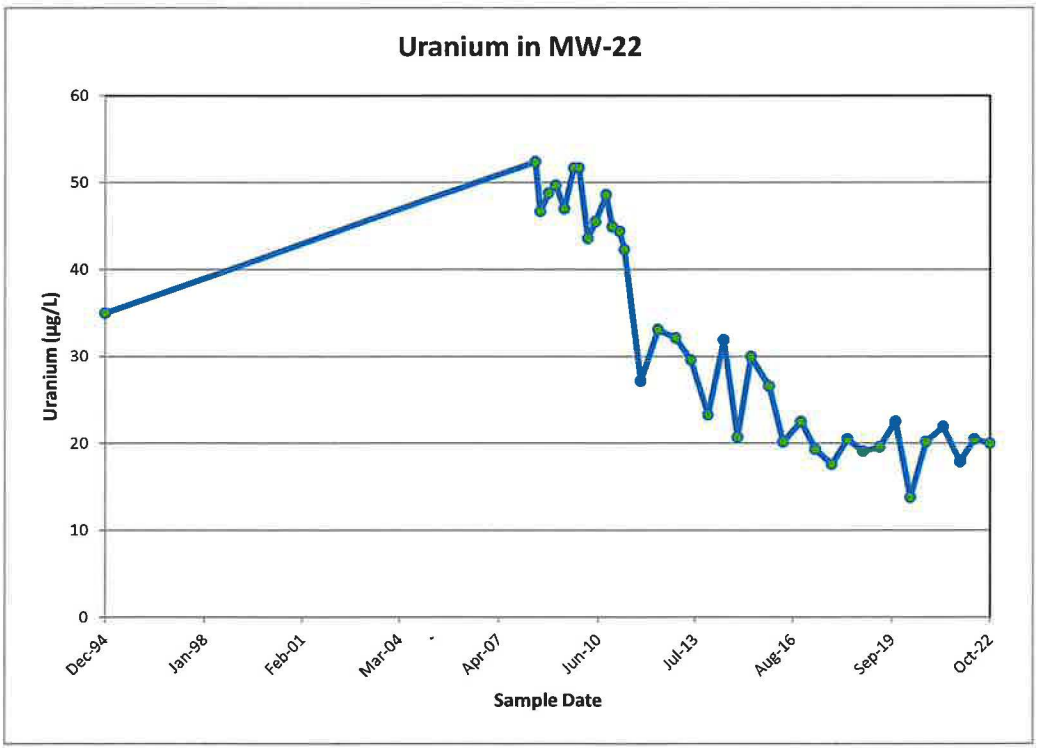
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-22



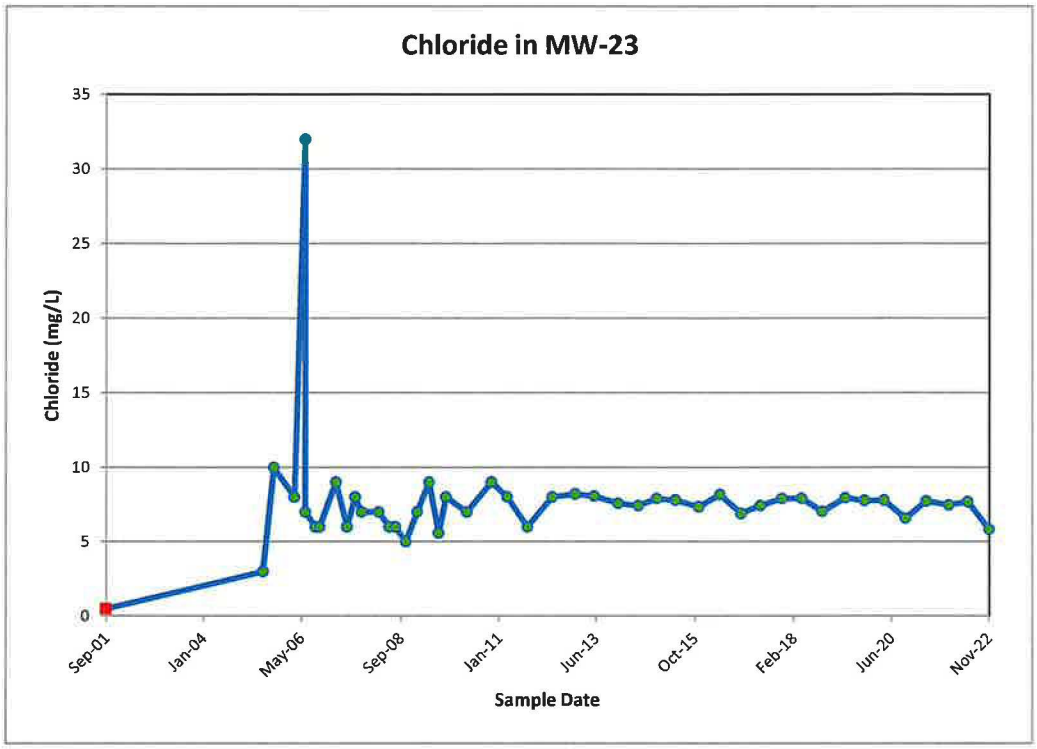


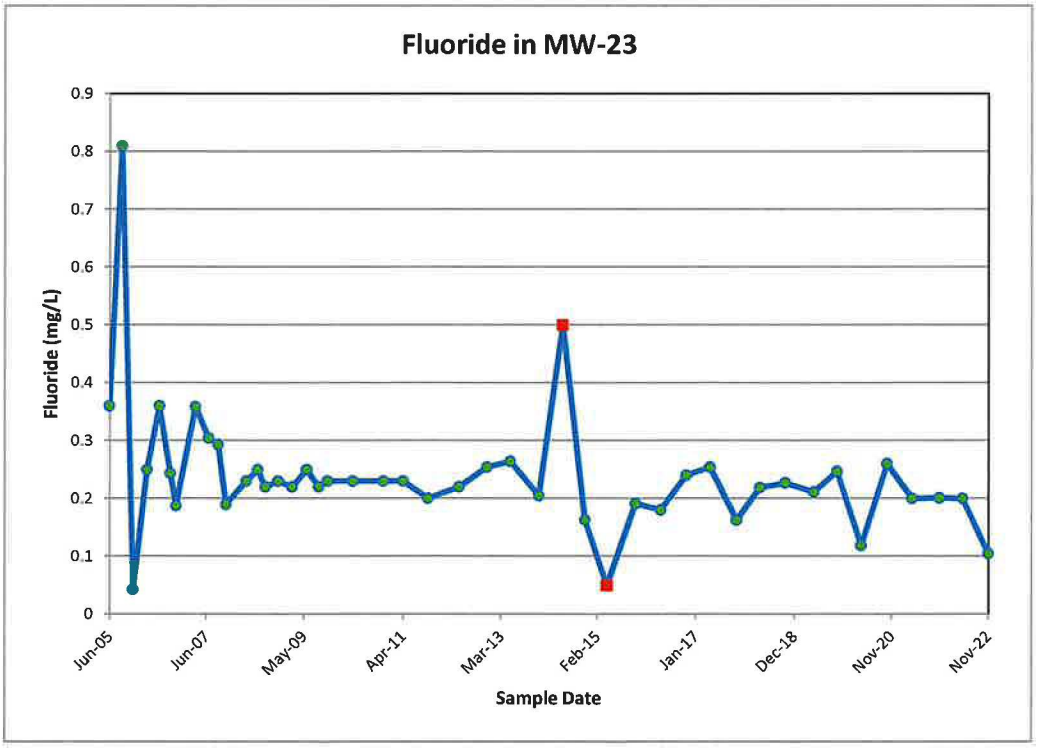
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-23





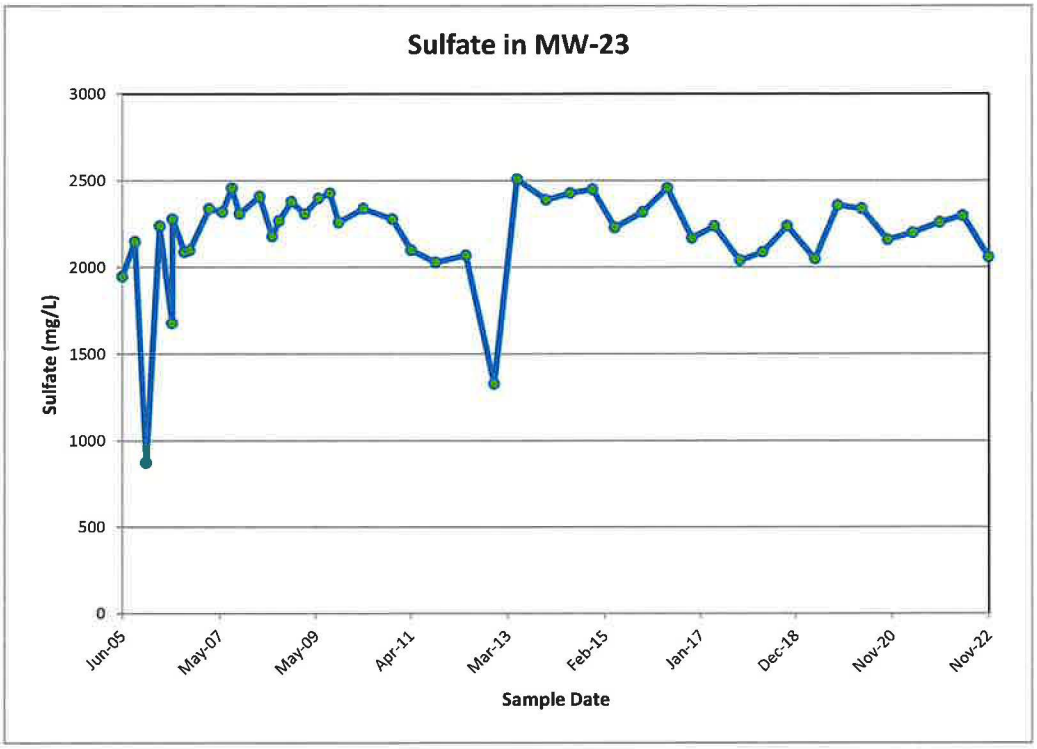
INTERA

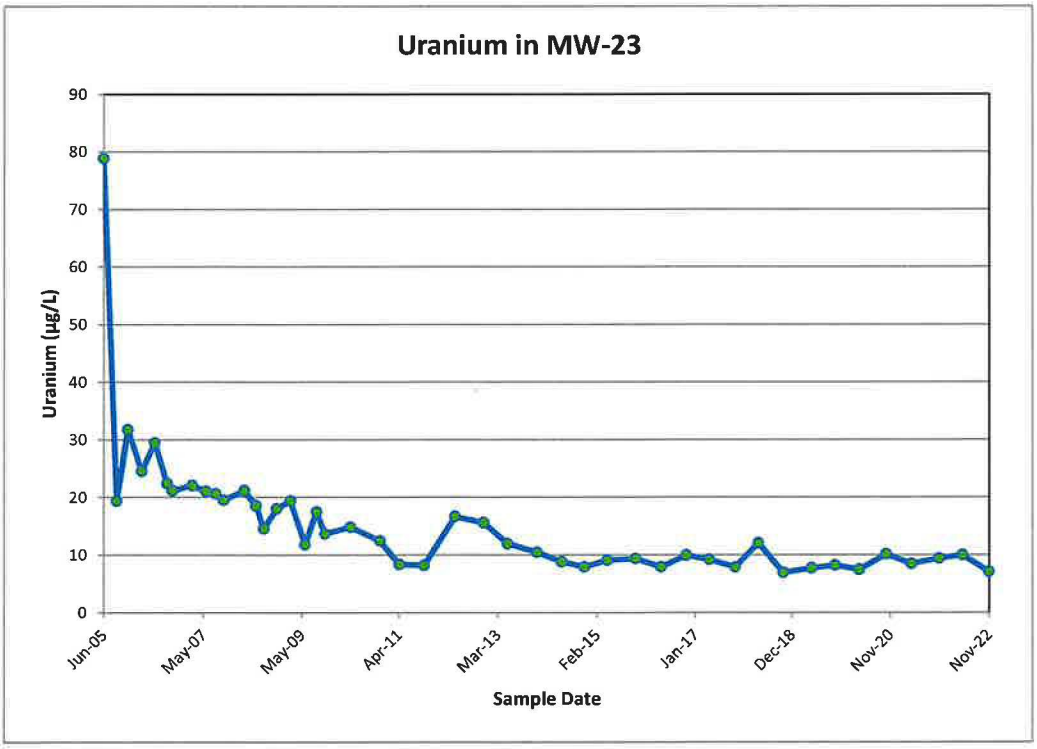
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-23





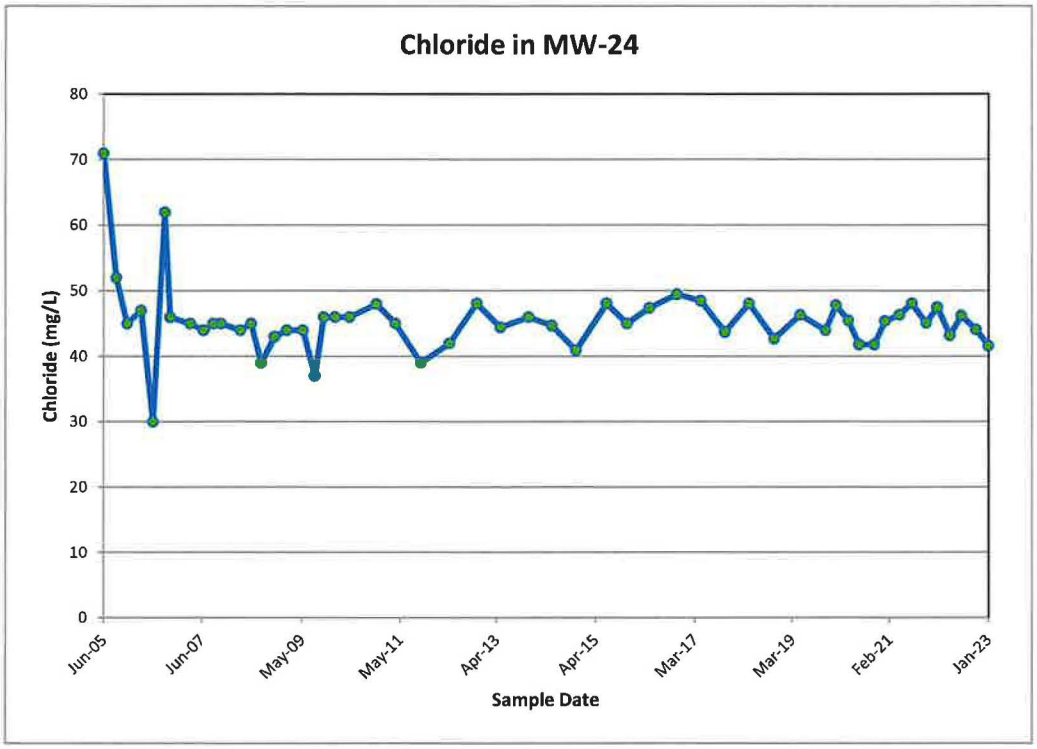
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

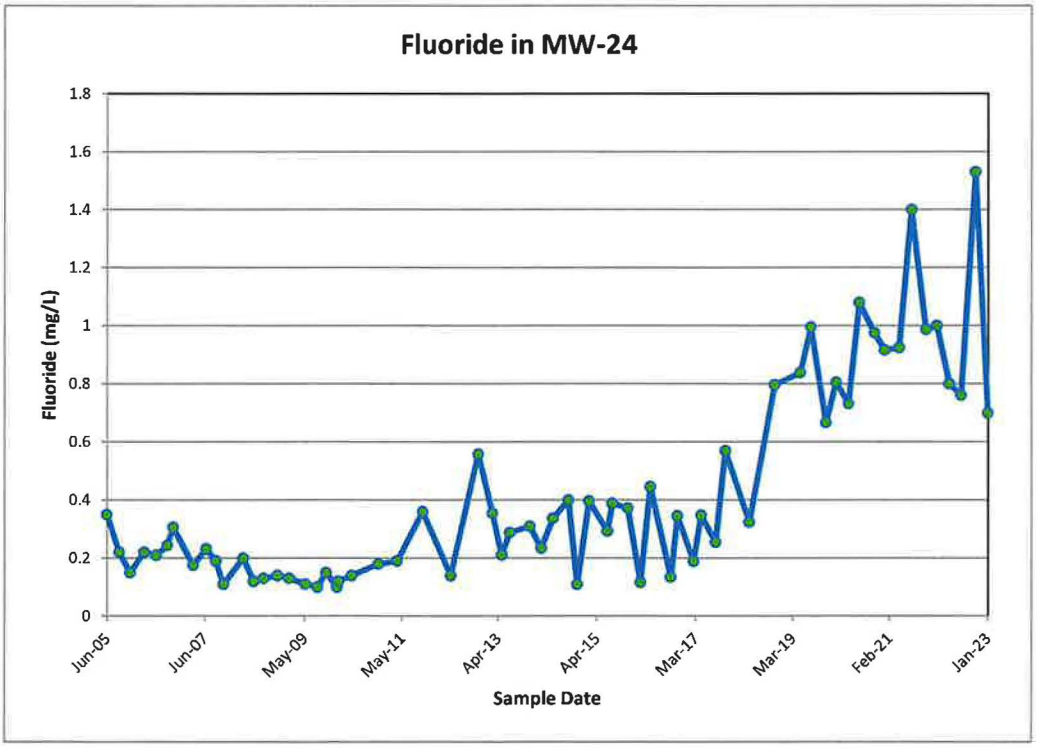
Detected Values

Non-Detected Values

INTERA

Time concentration plots for MW-24



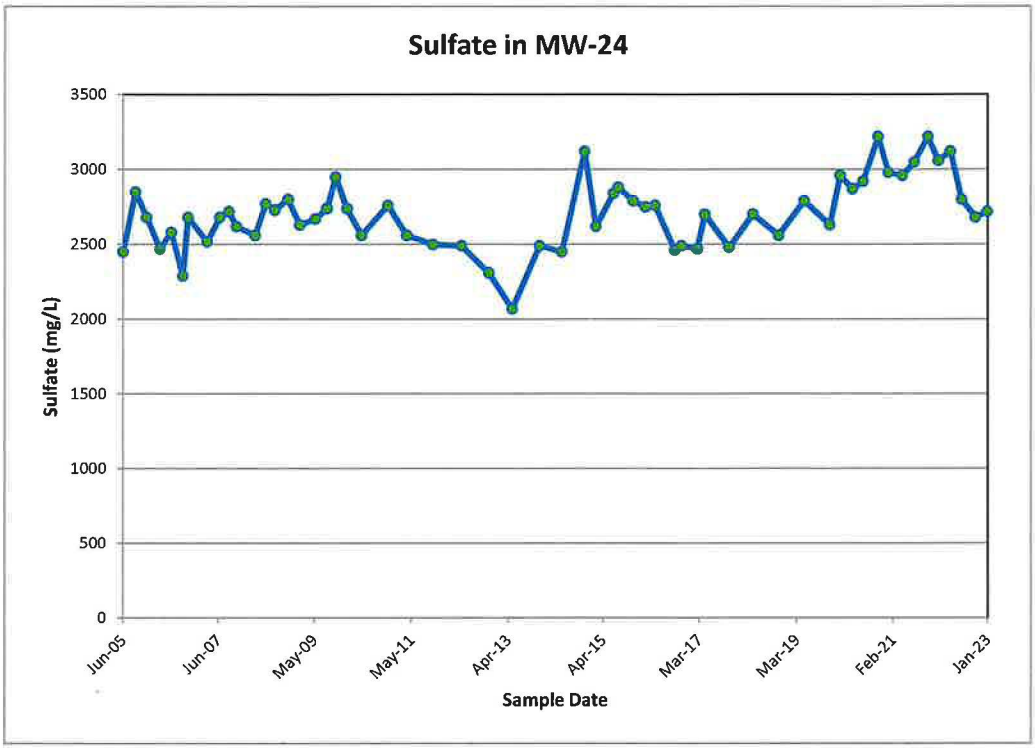


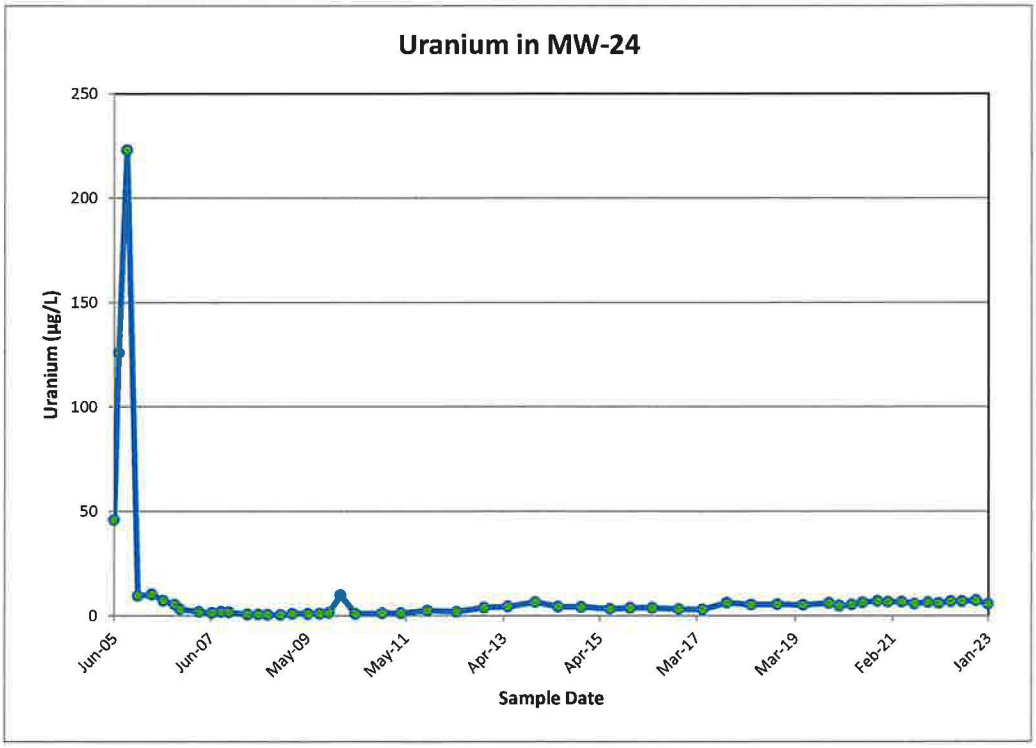
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-24



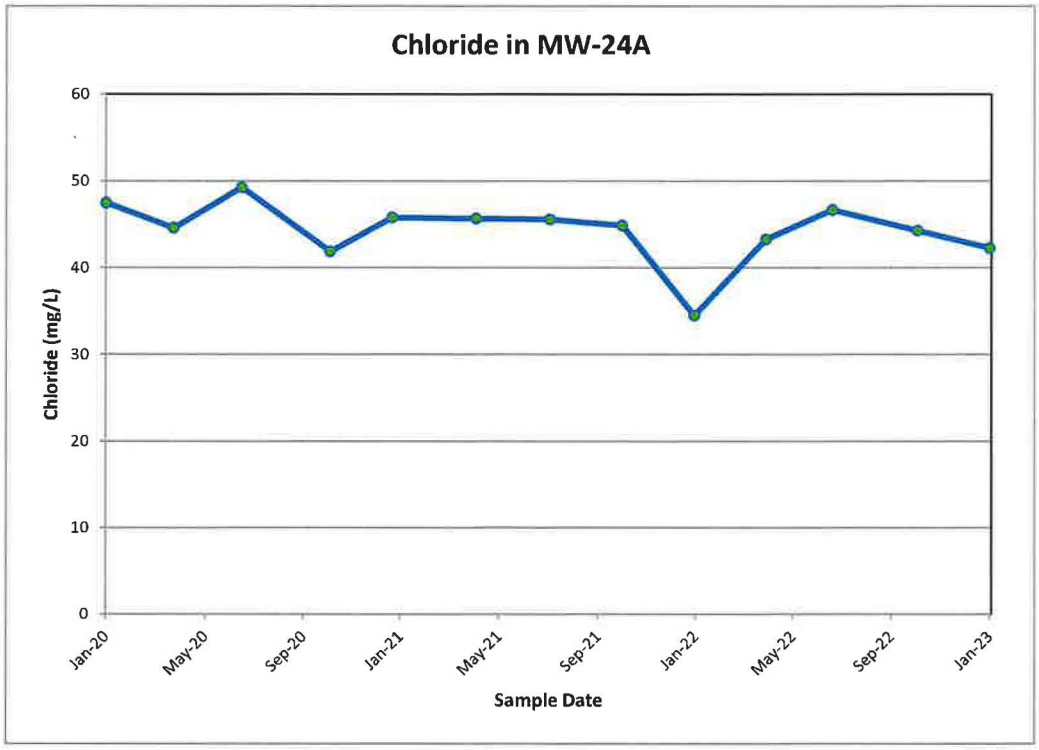


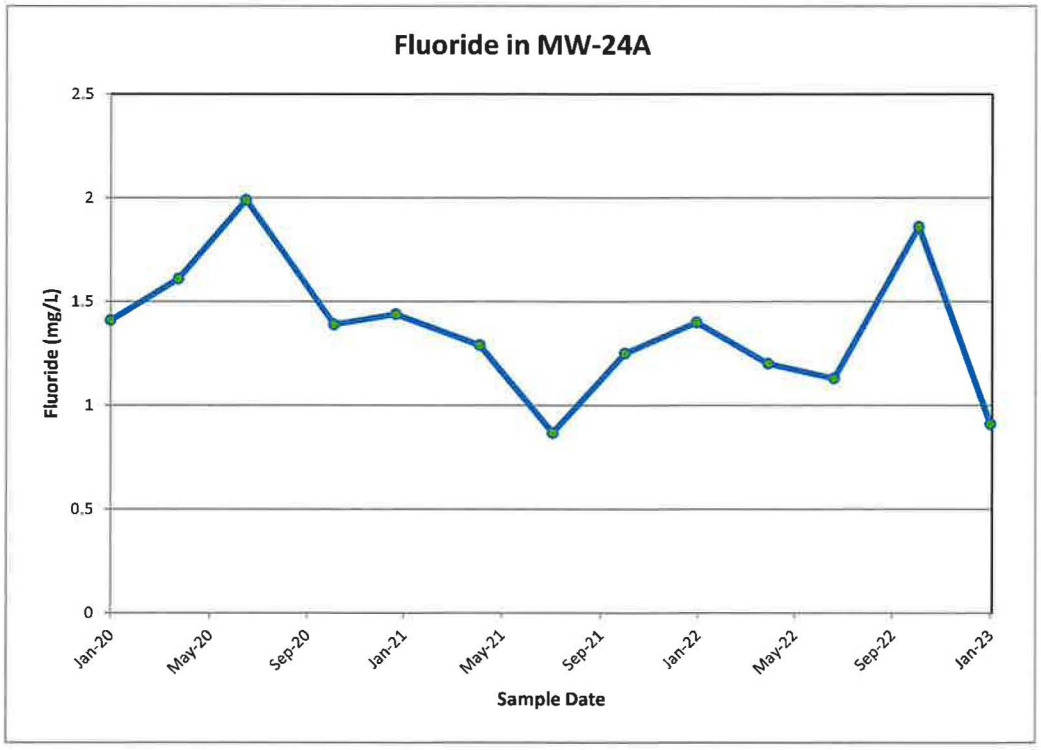
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-24A





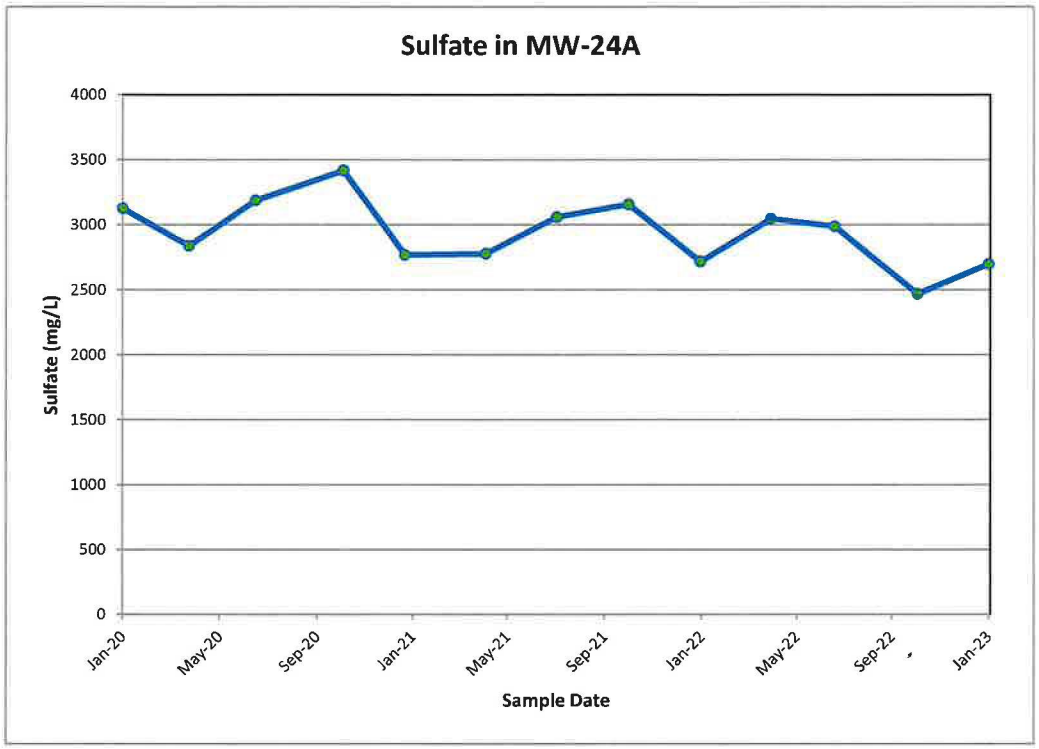
INTERA

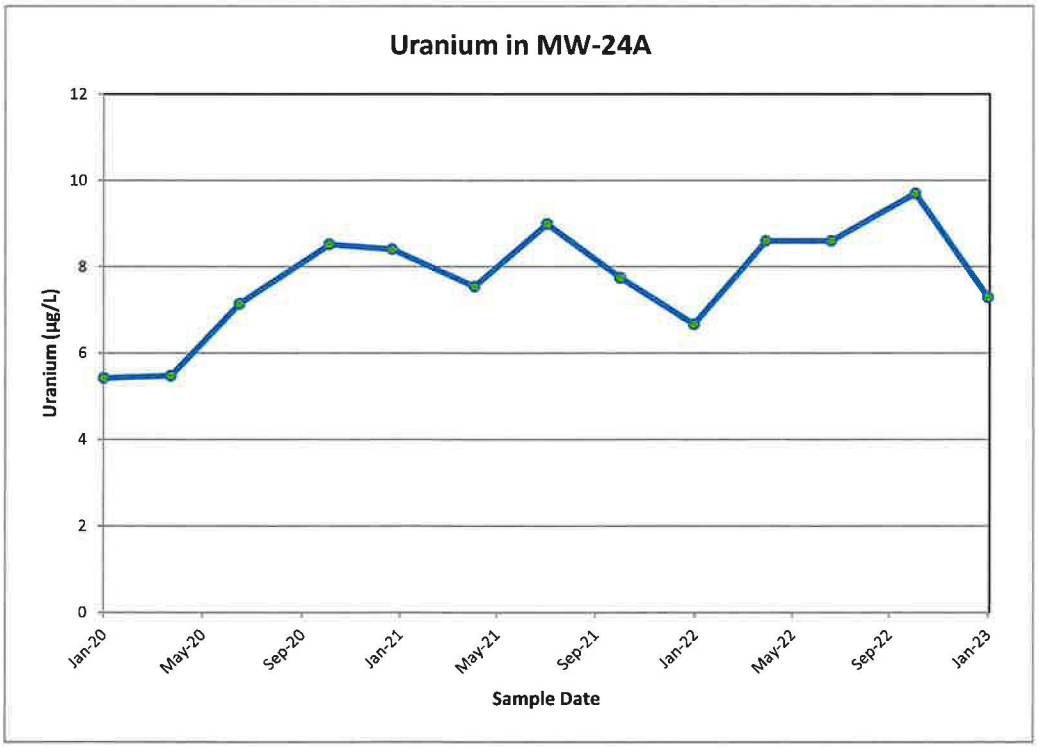
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-24A





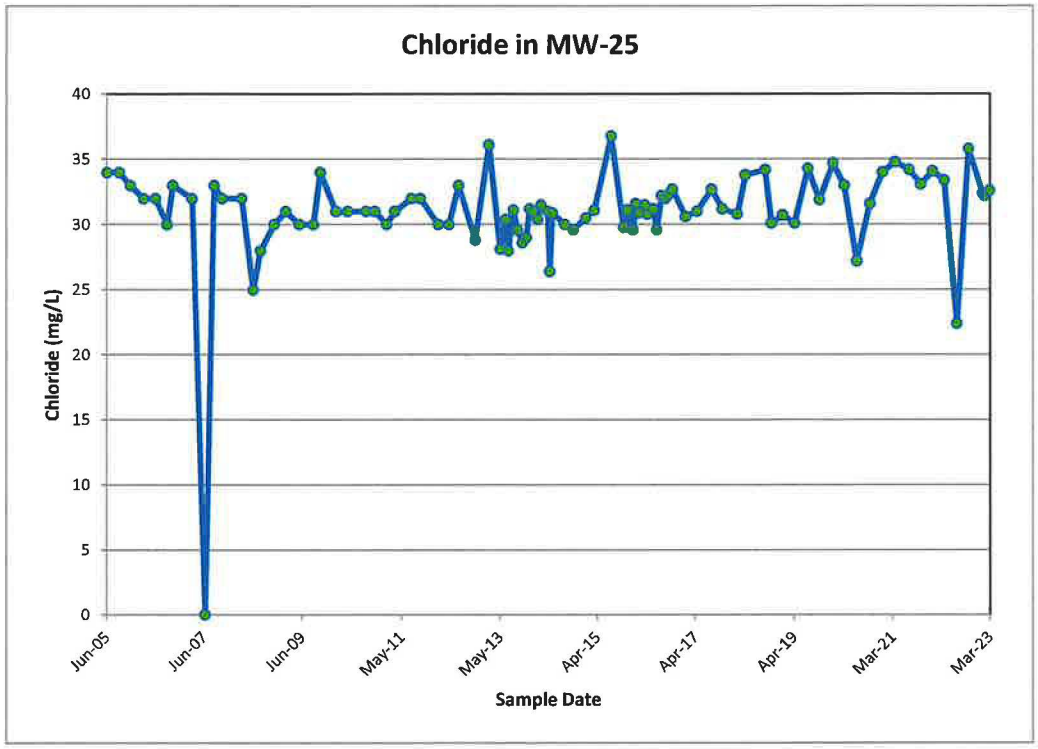
INTERA

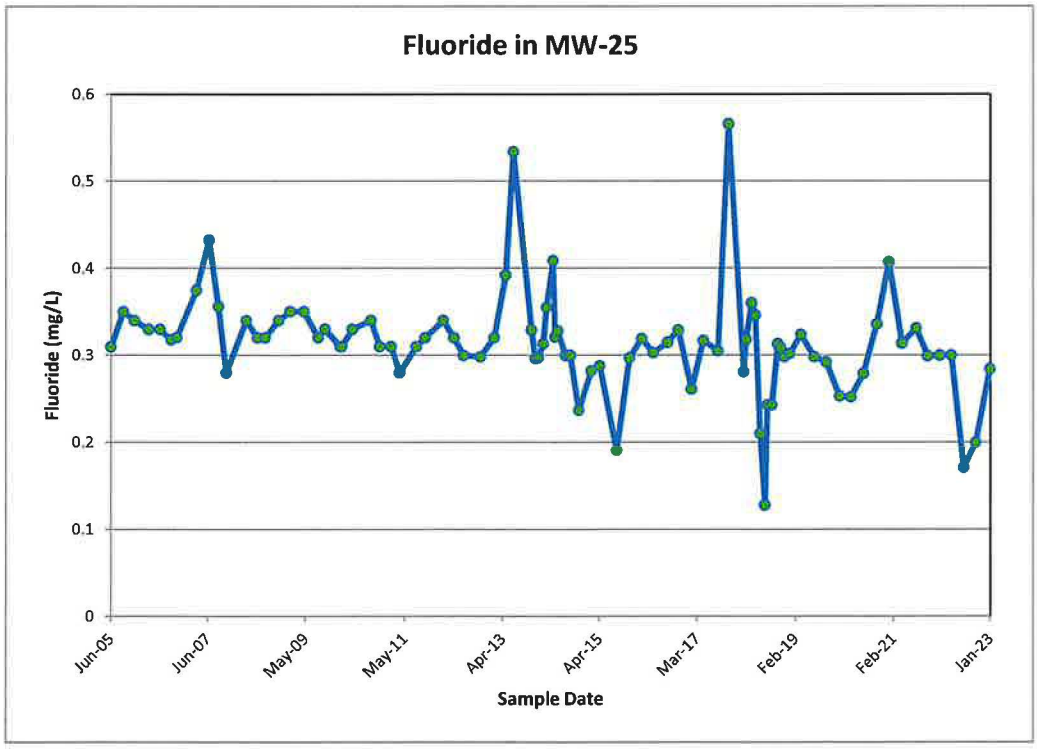
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-25



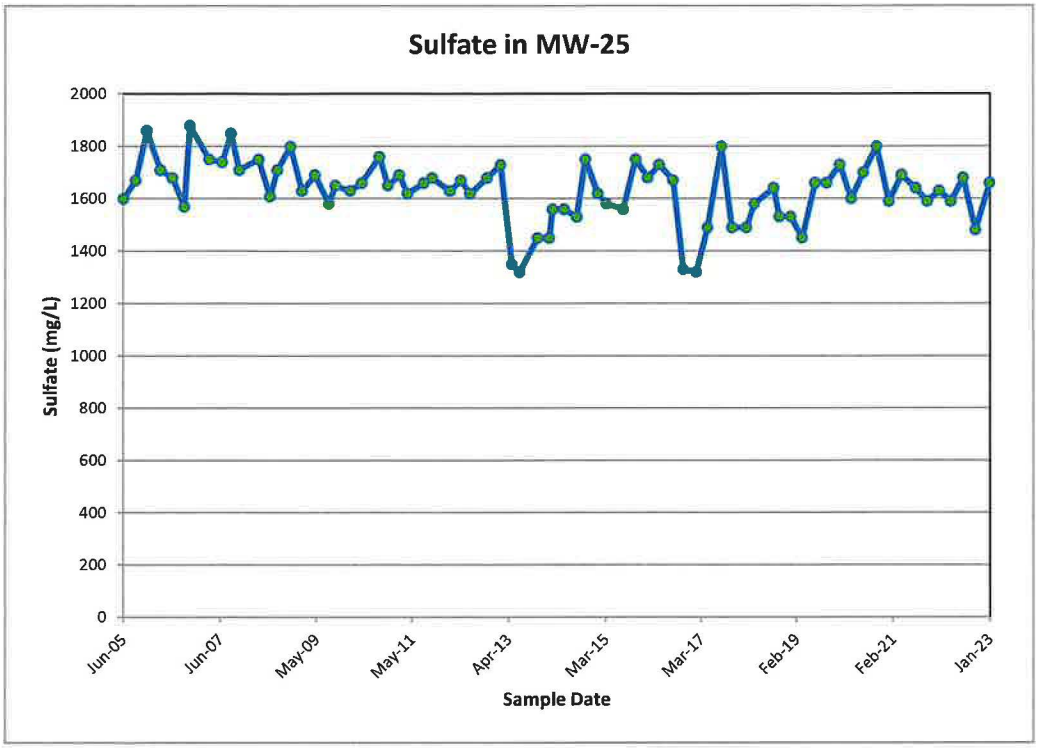


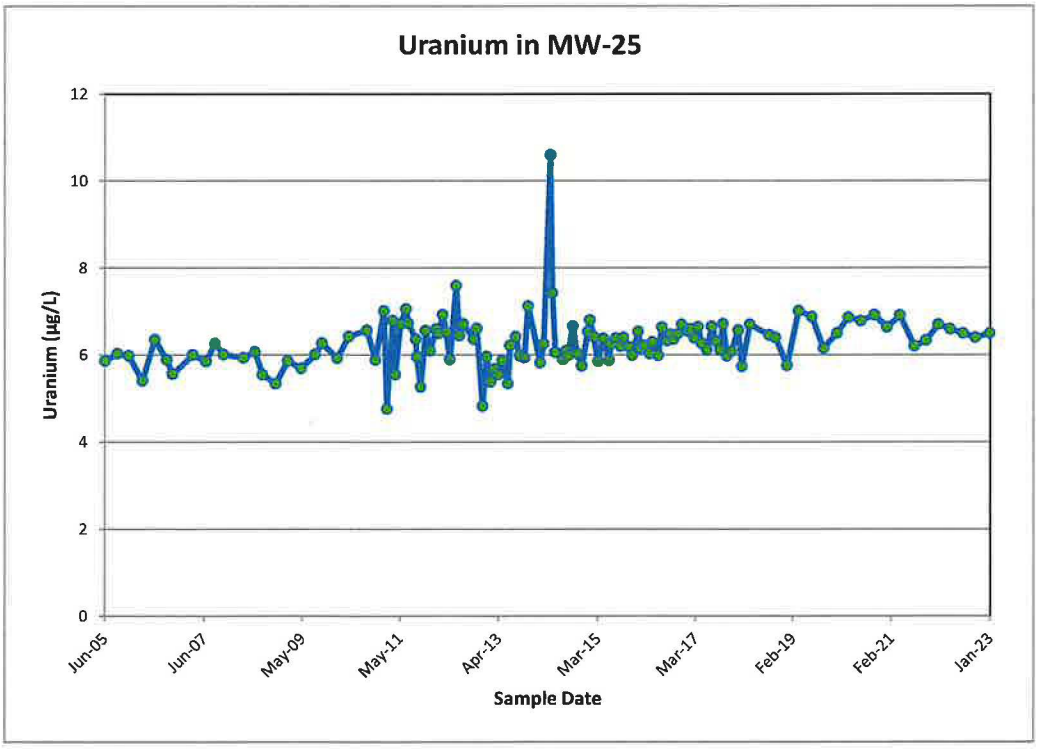
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-25



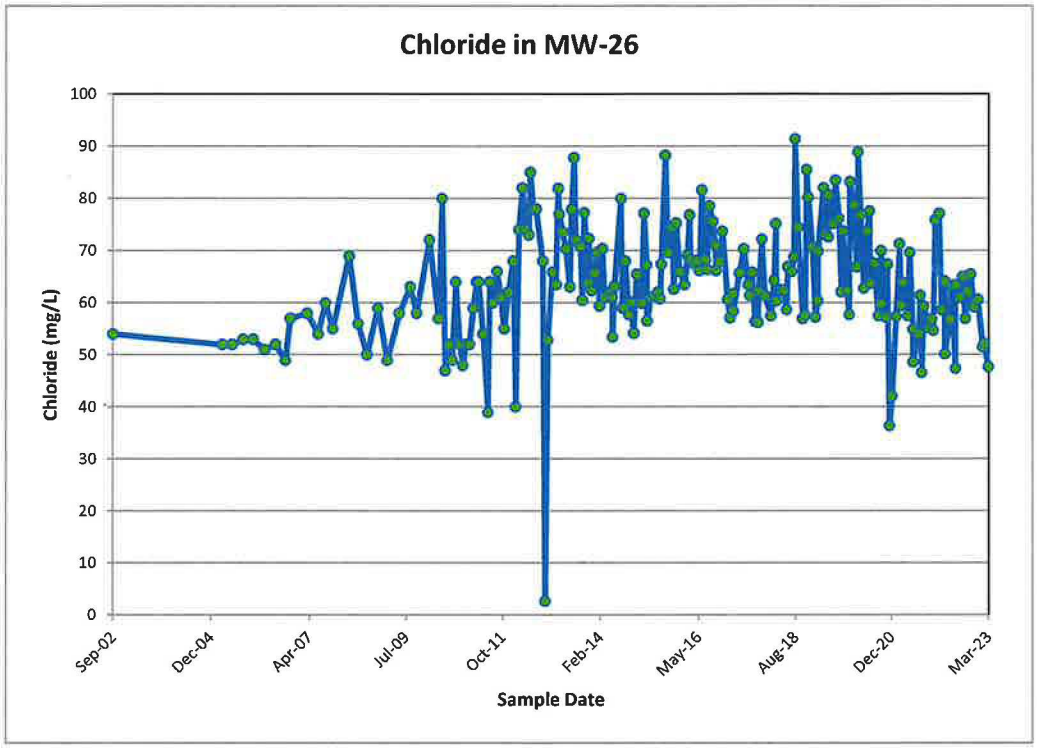


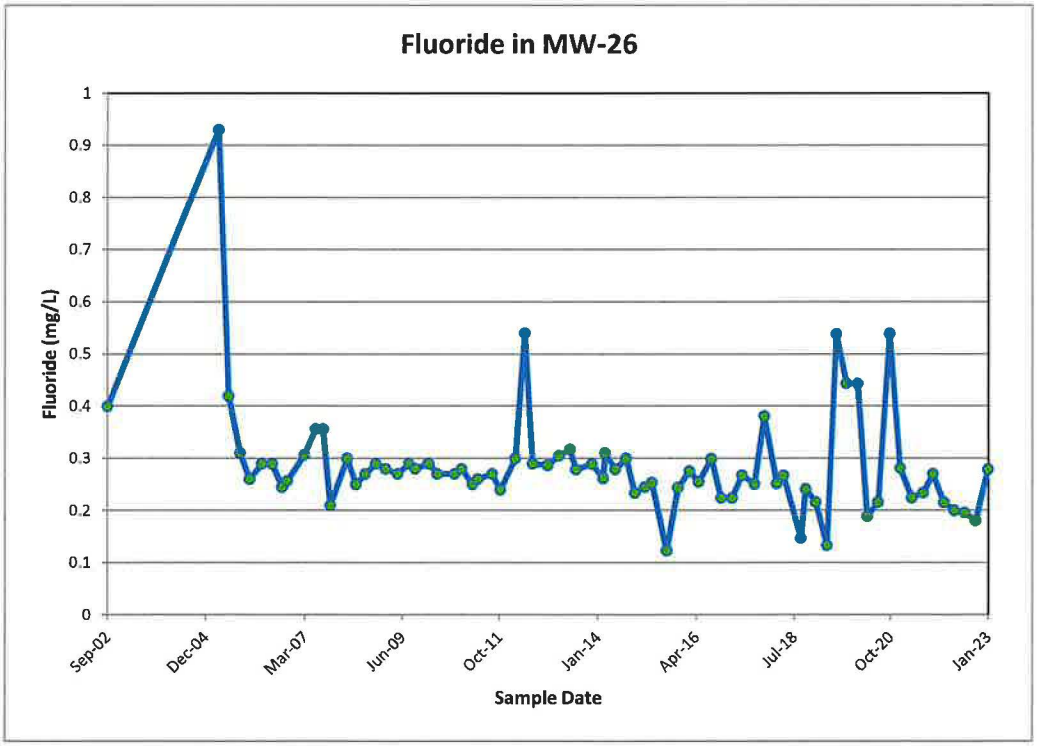
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-26





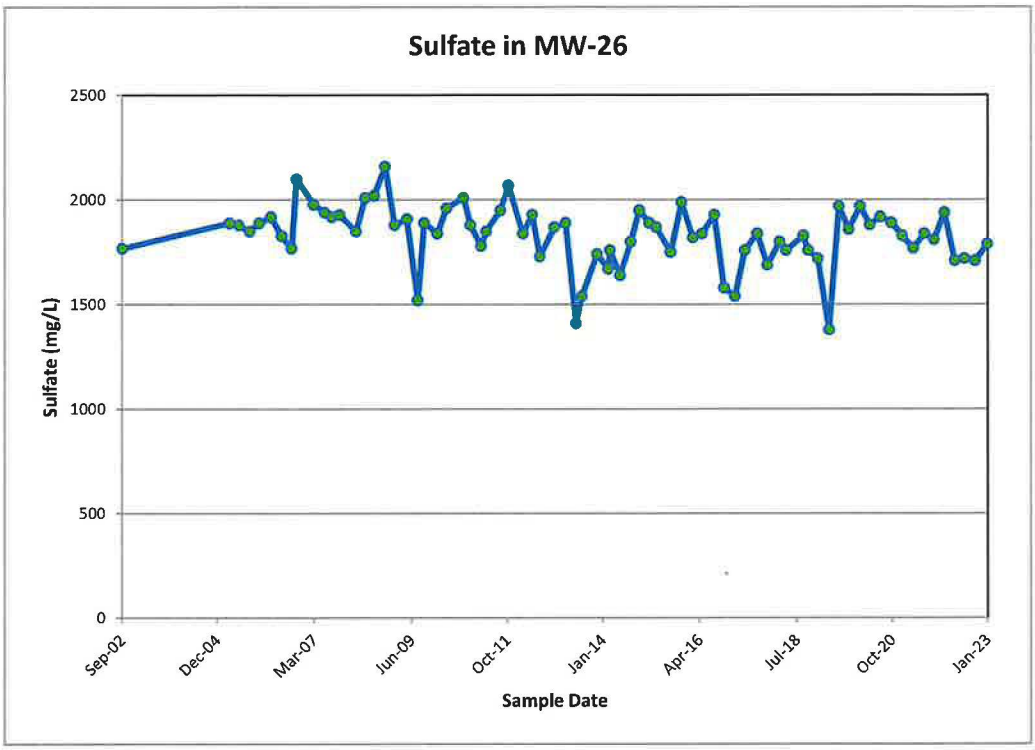
INTERA

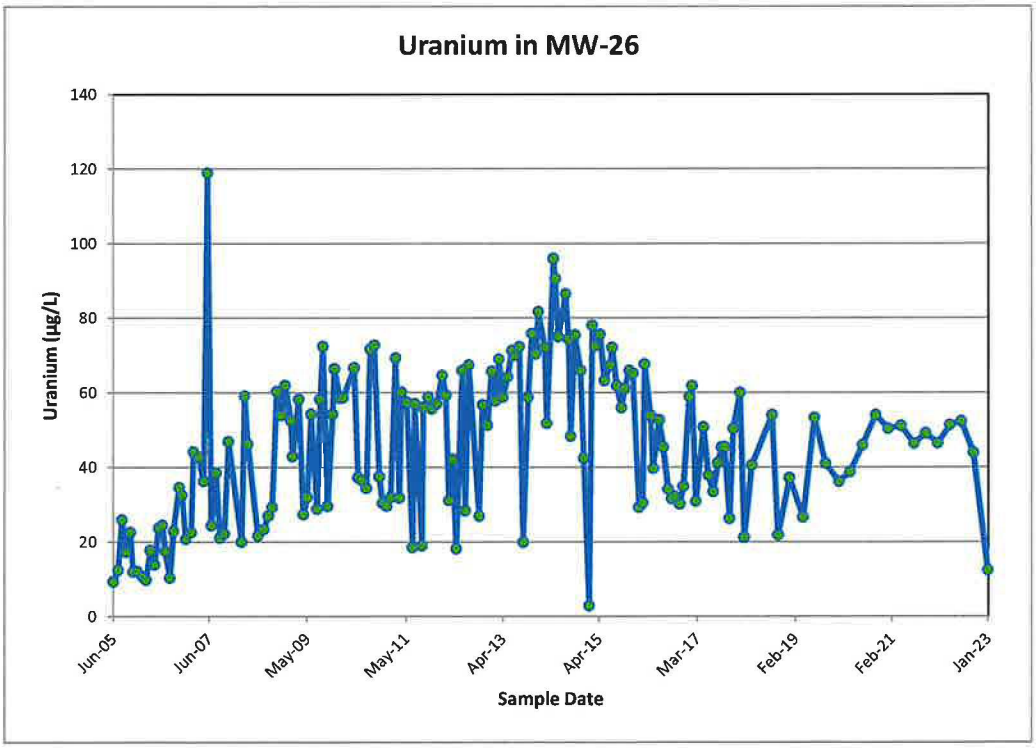
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-26



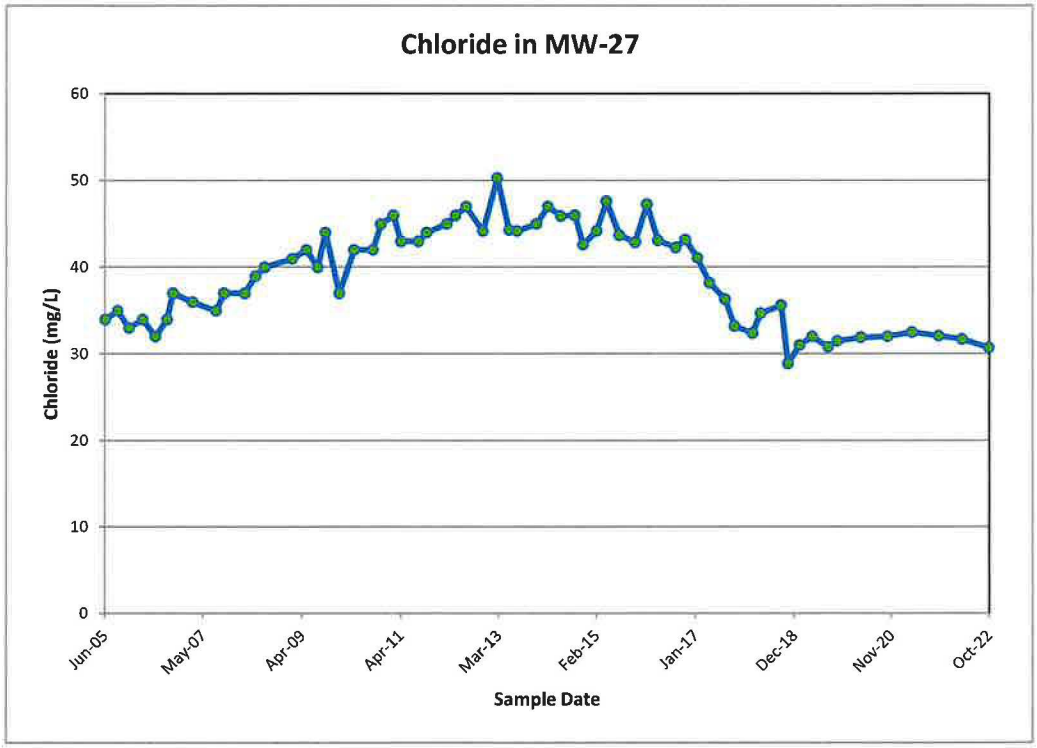


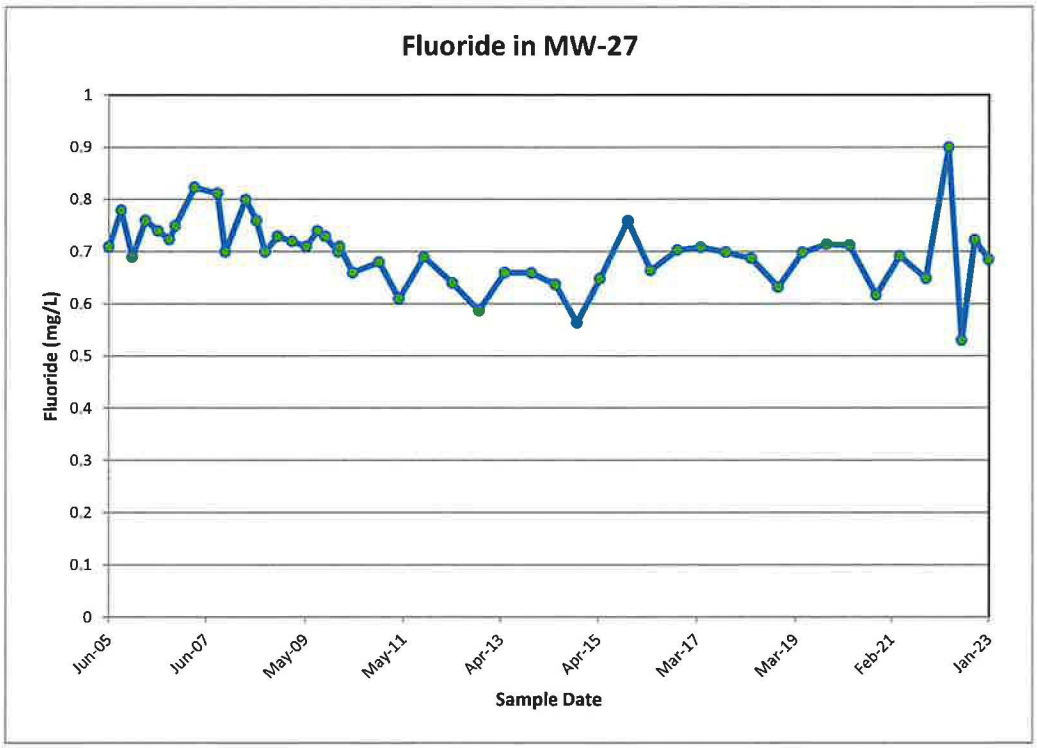
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-27



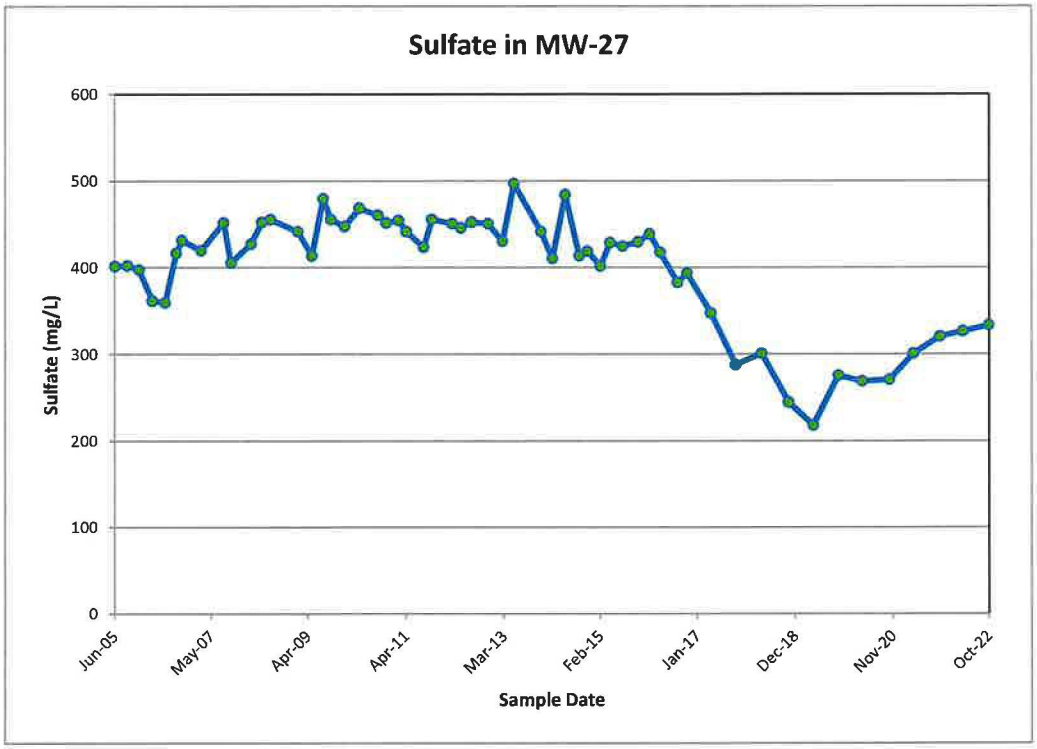


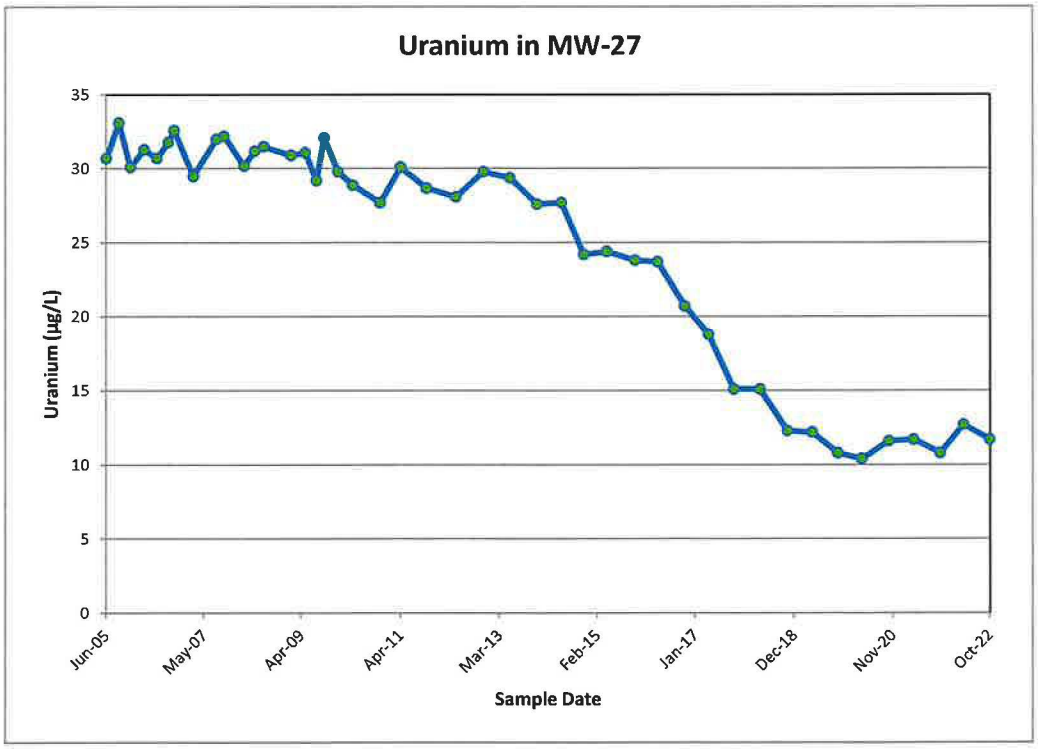
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-27



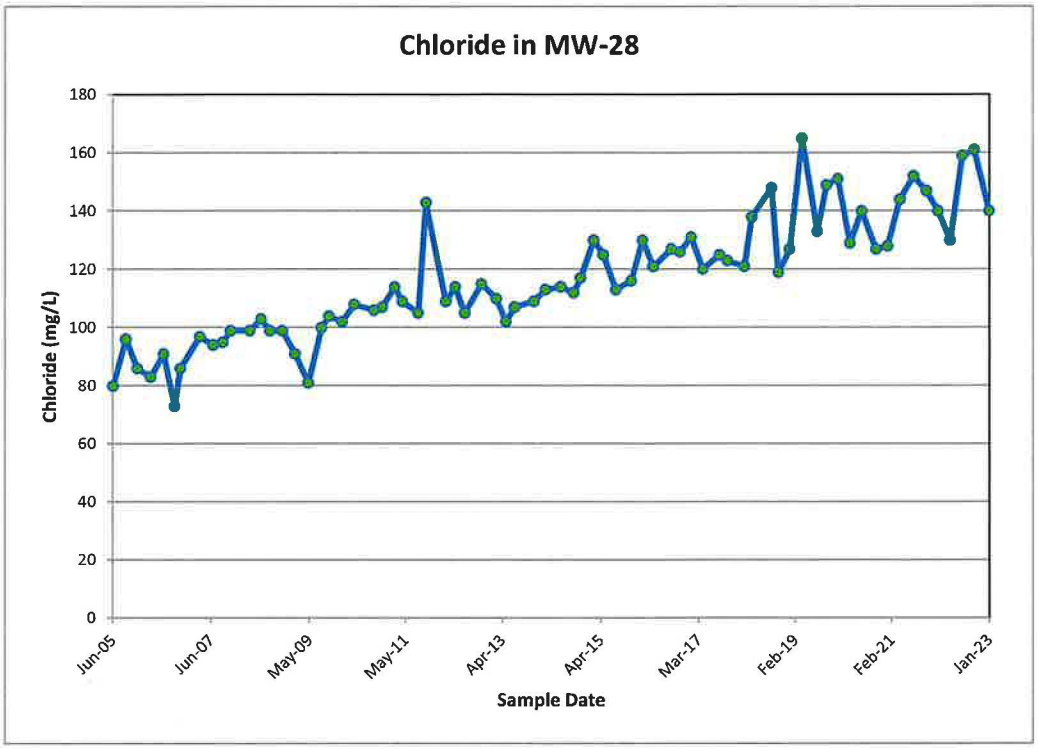


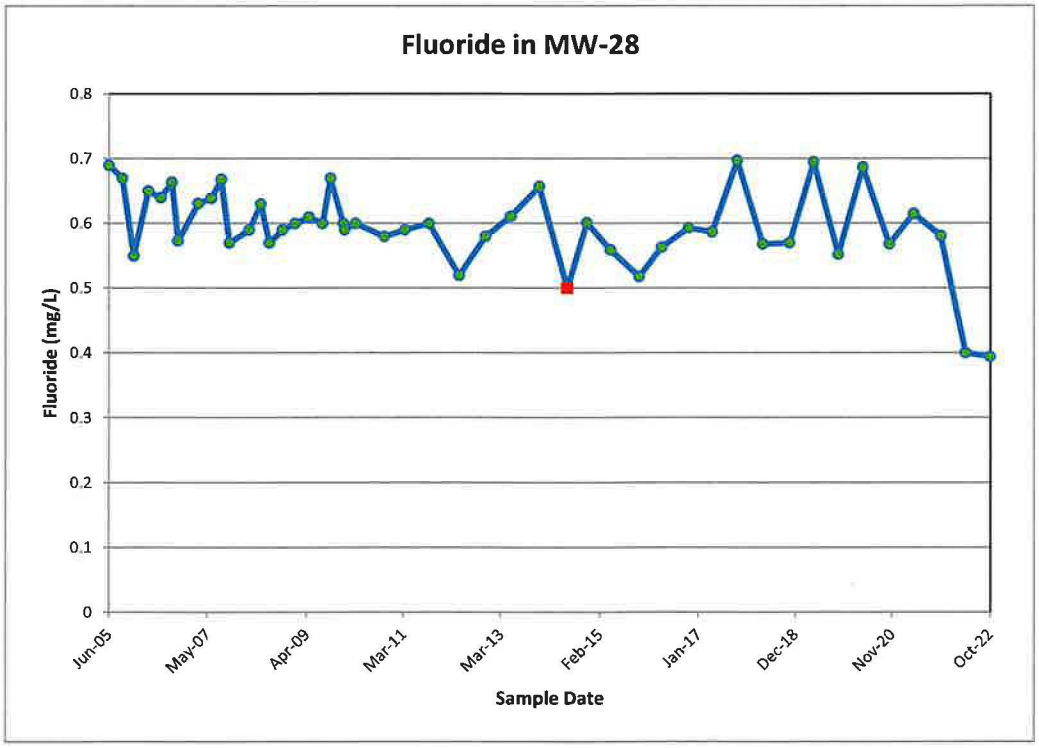
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-28



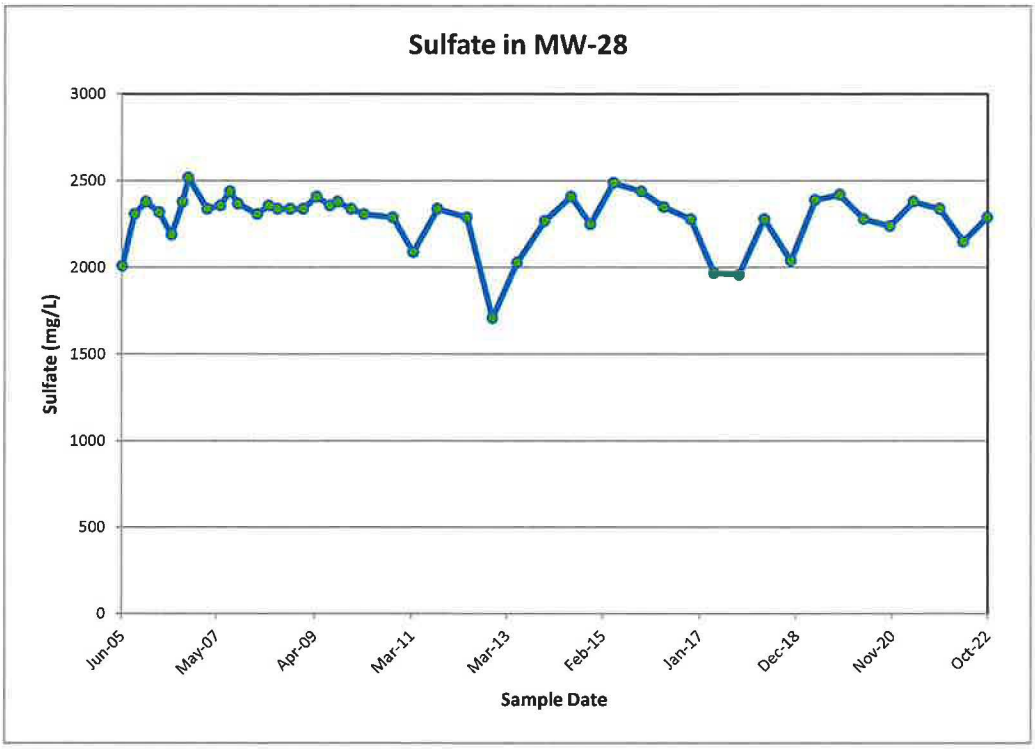


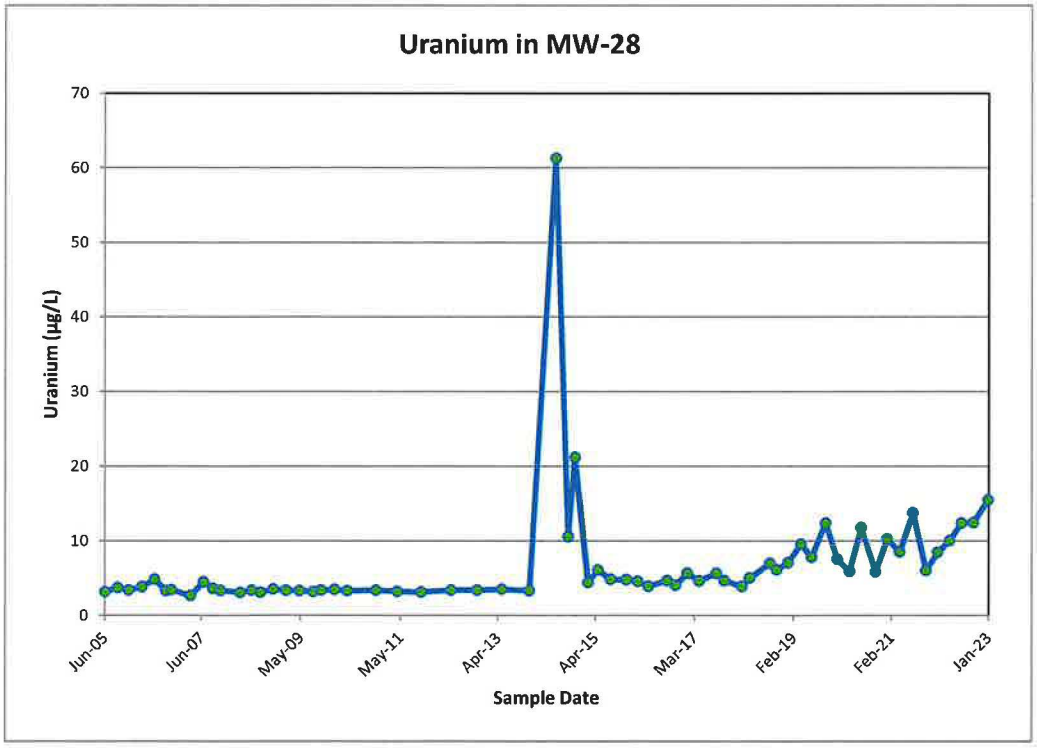
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-28



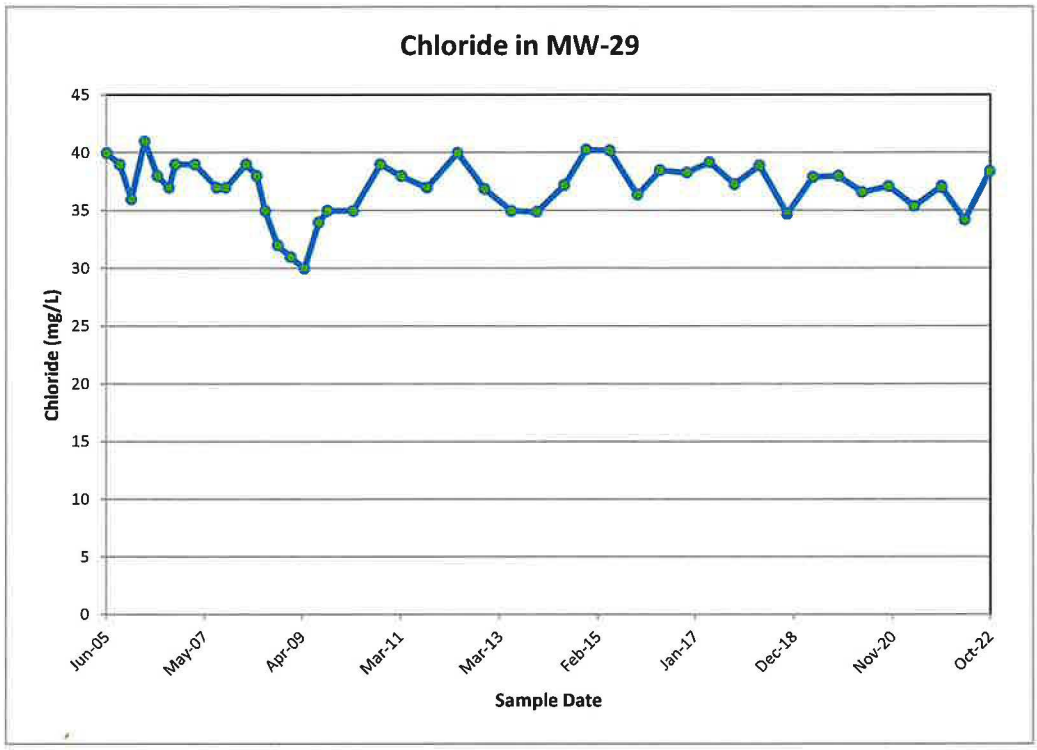


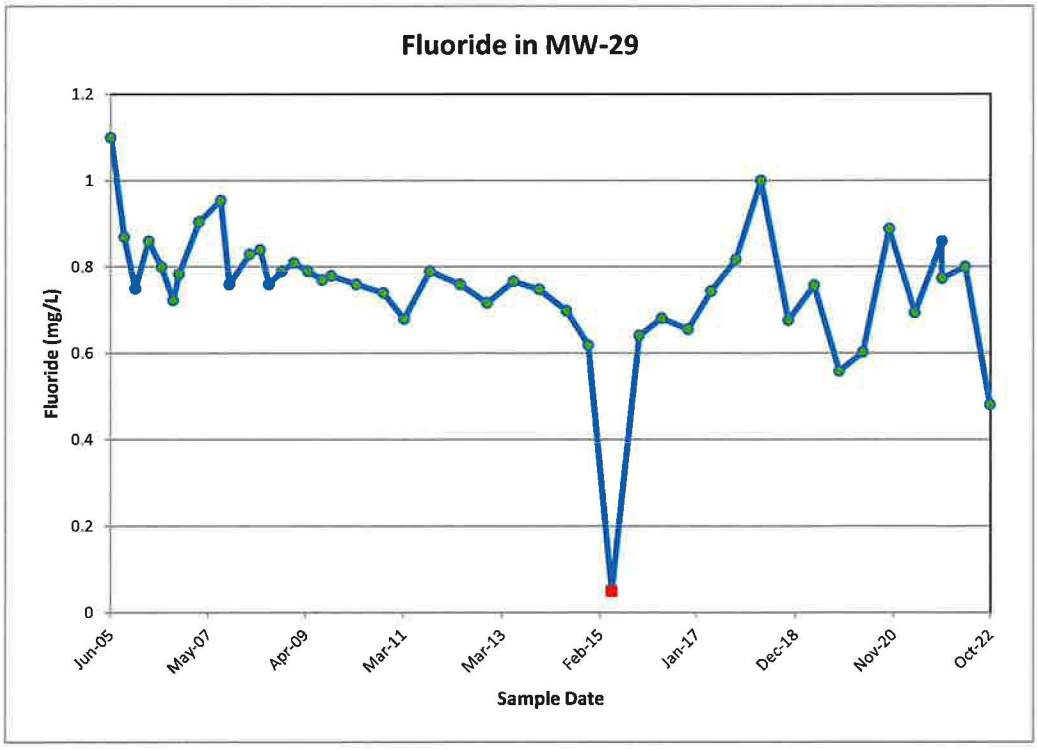
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-29



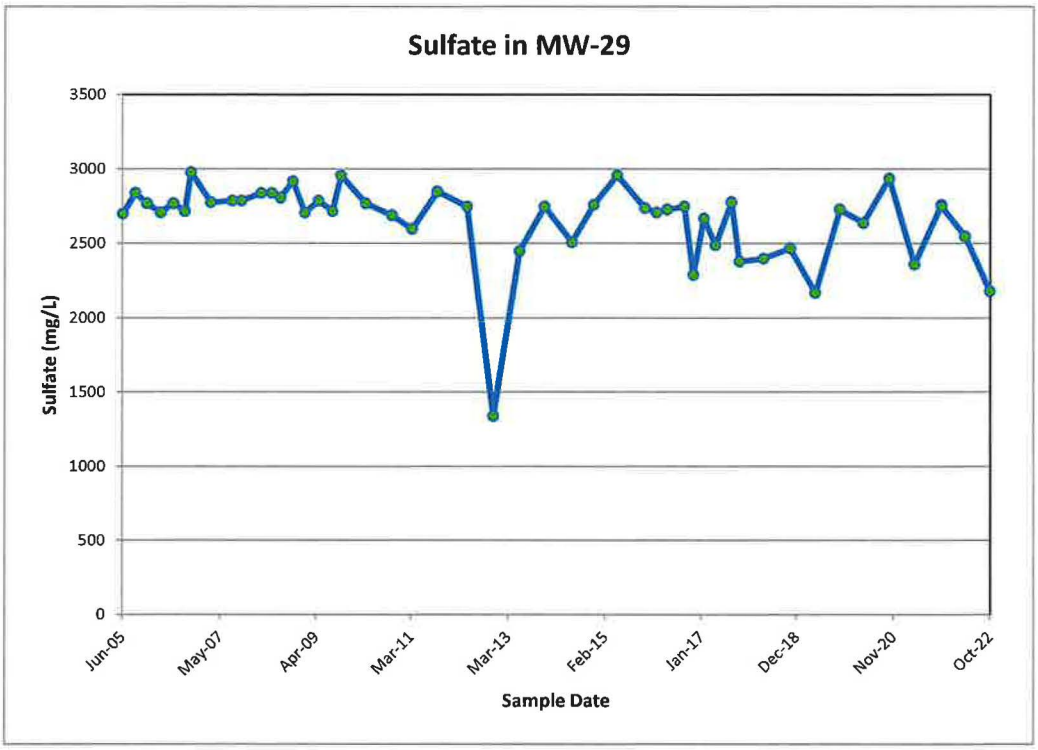


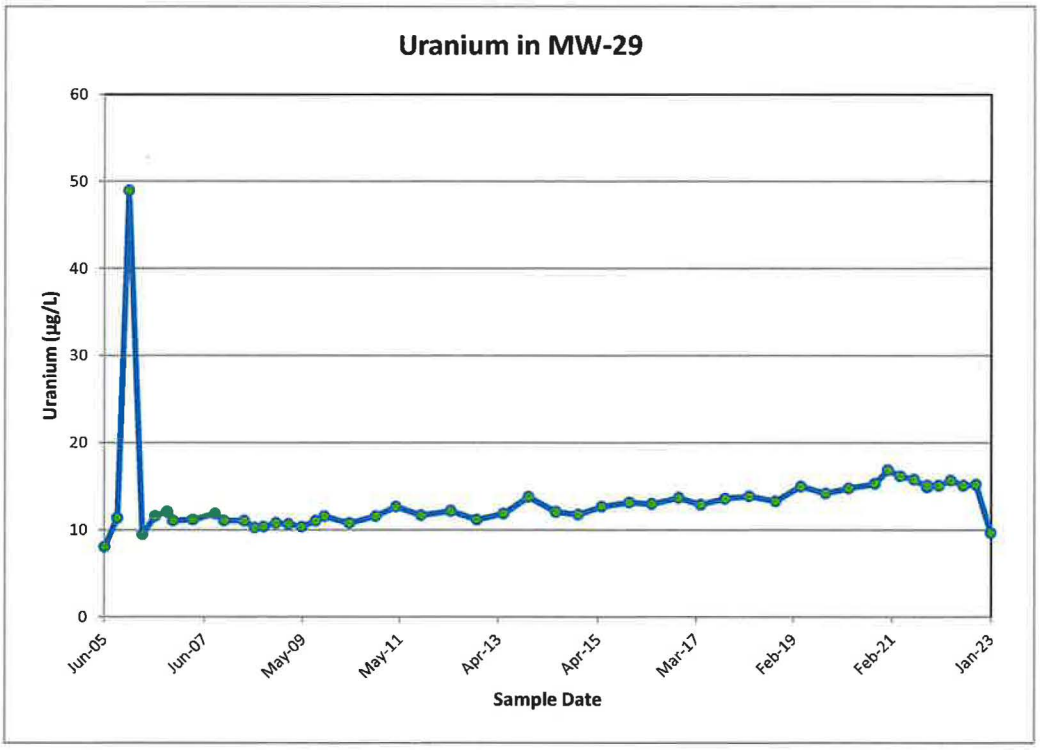
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-29



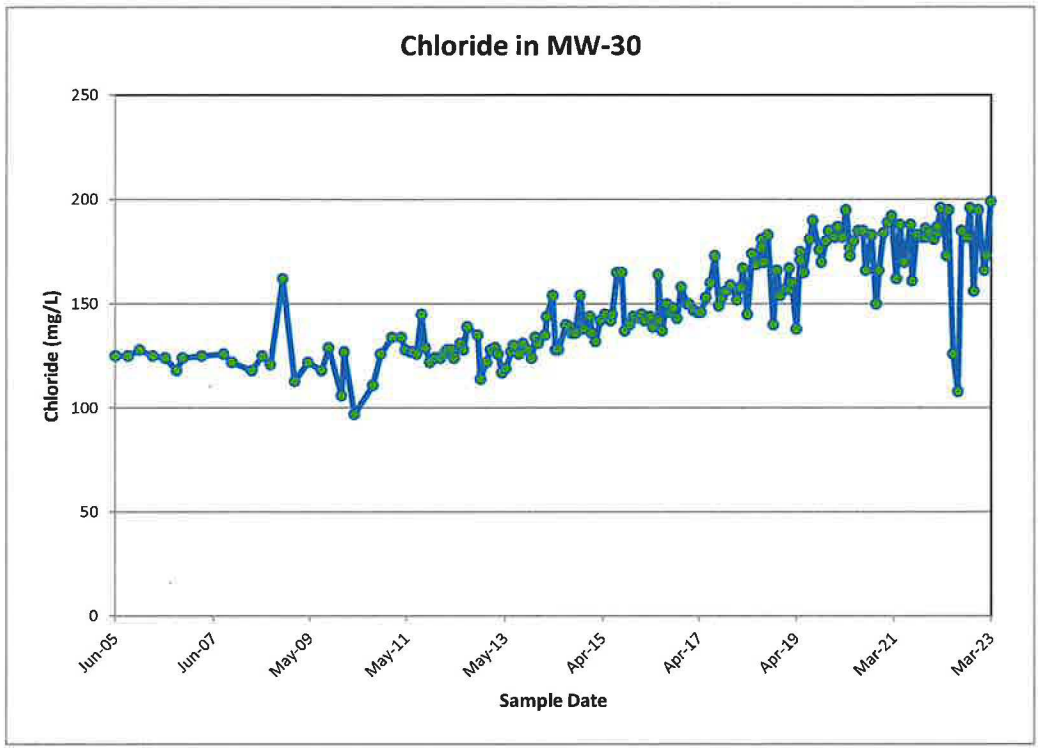


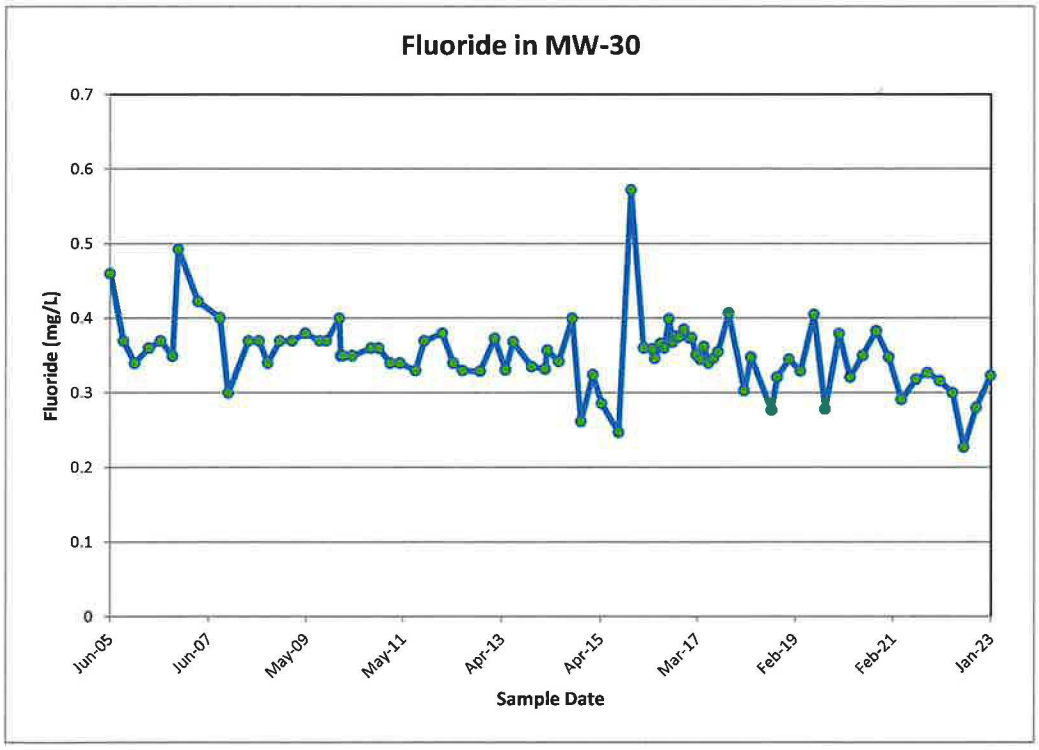
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-30





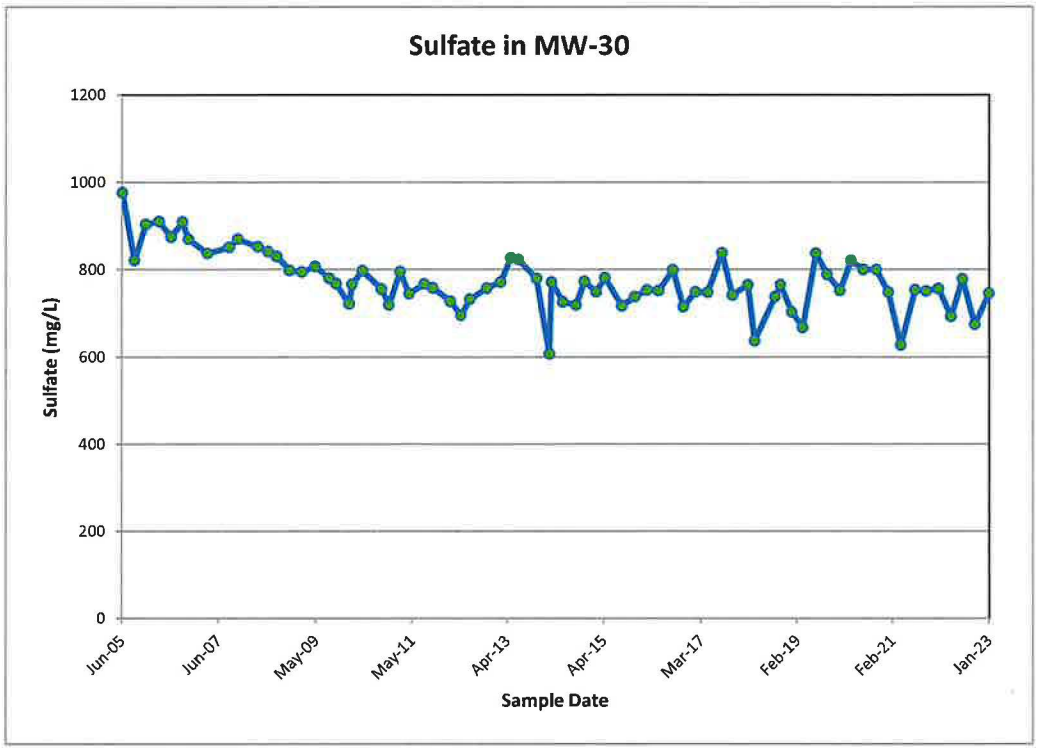
INTERA

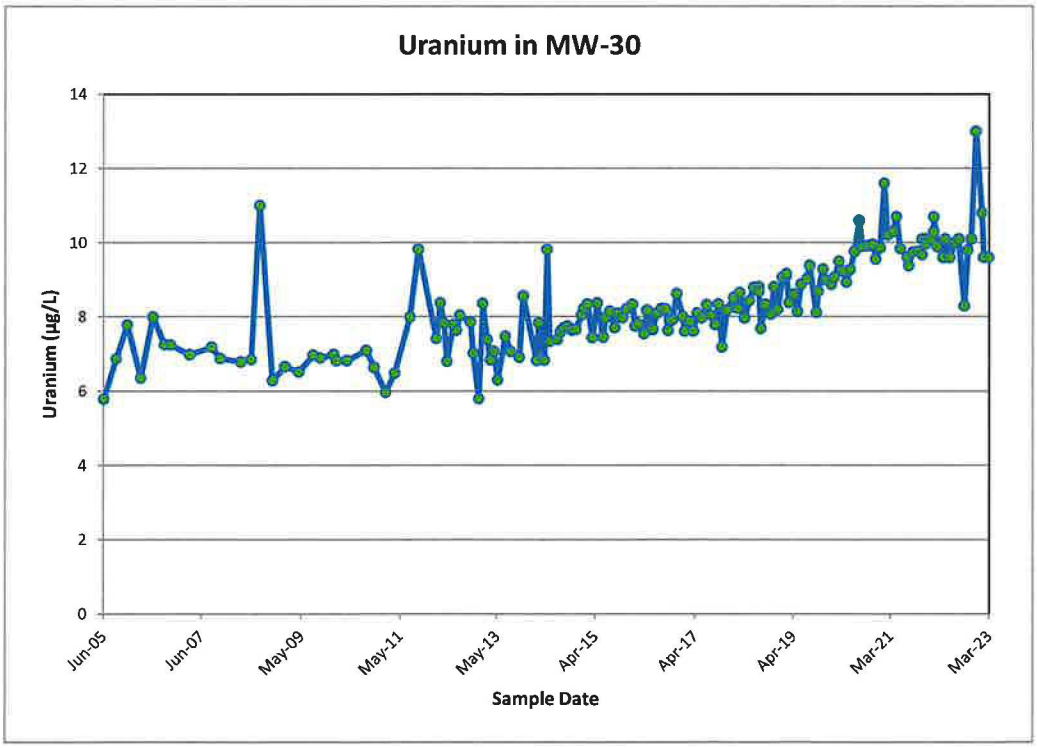
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-30



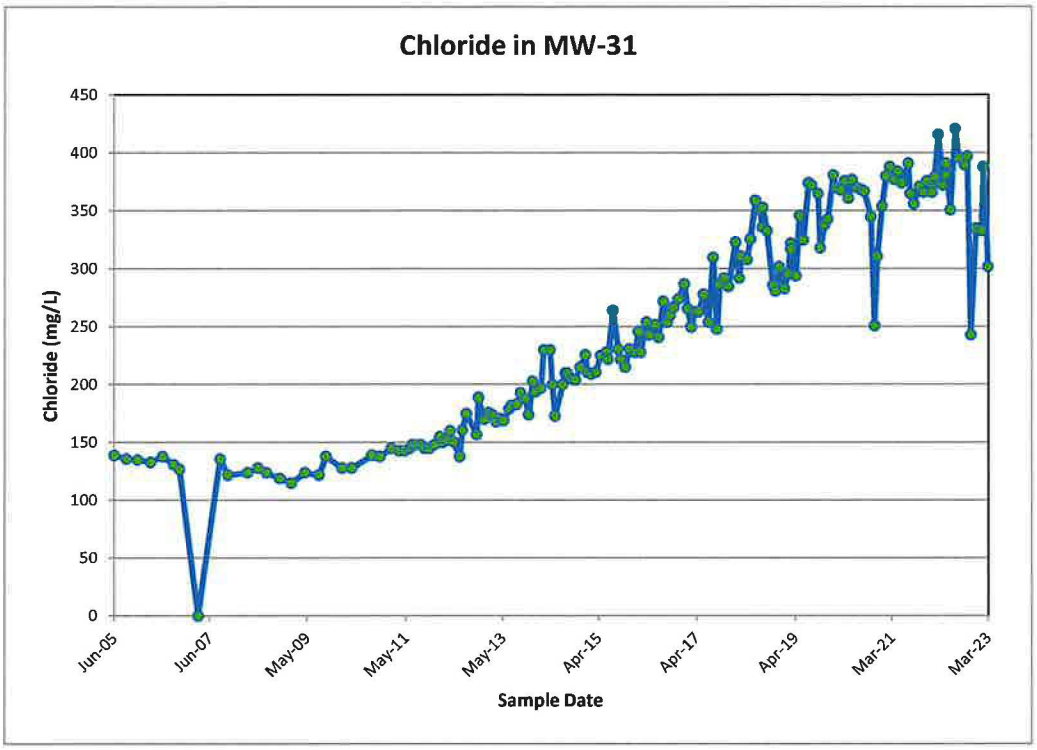


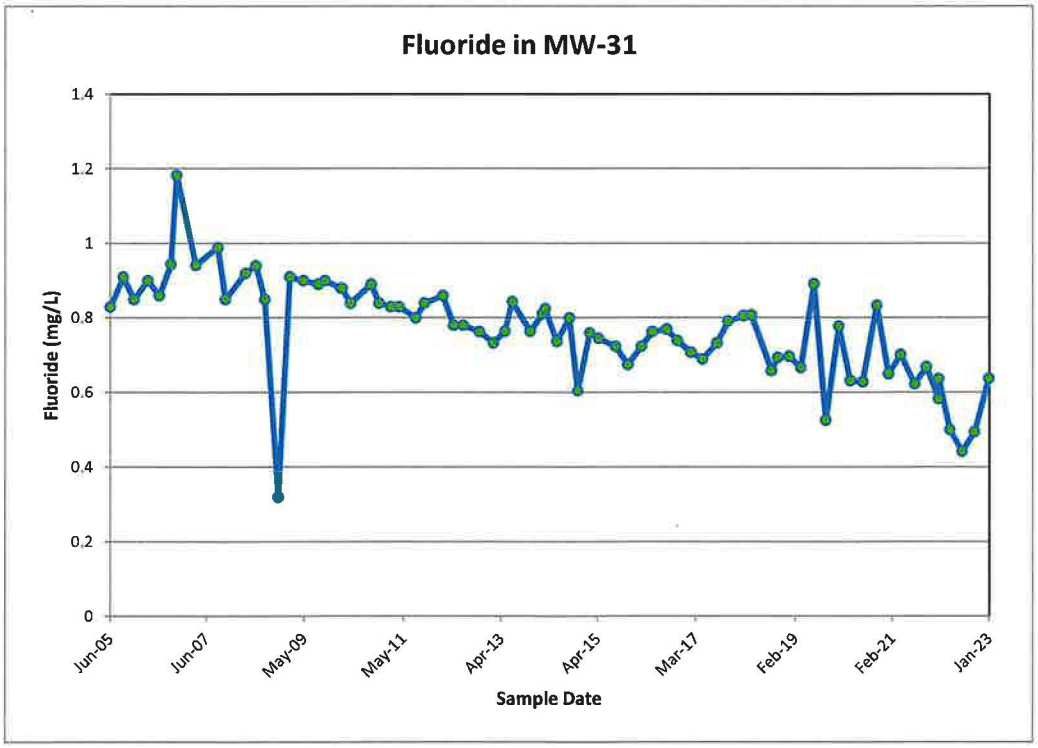
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-31



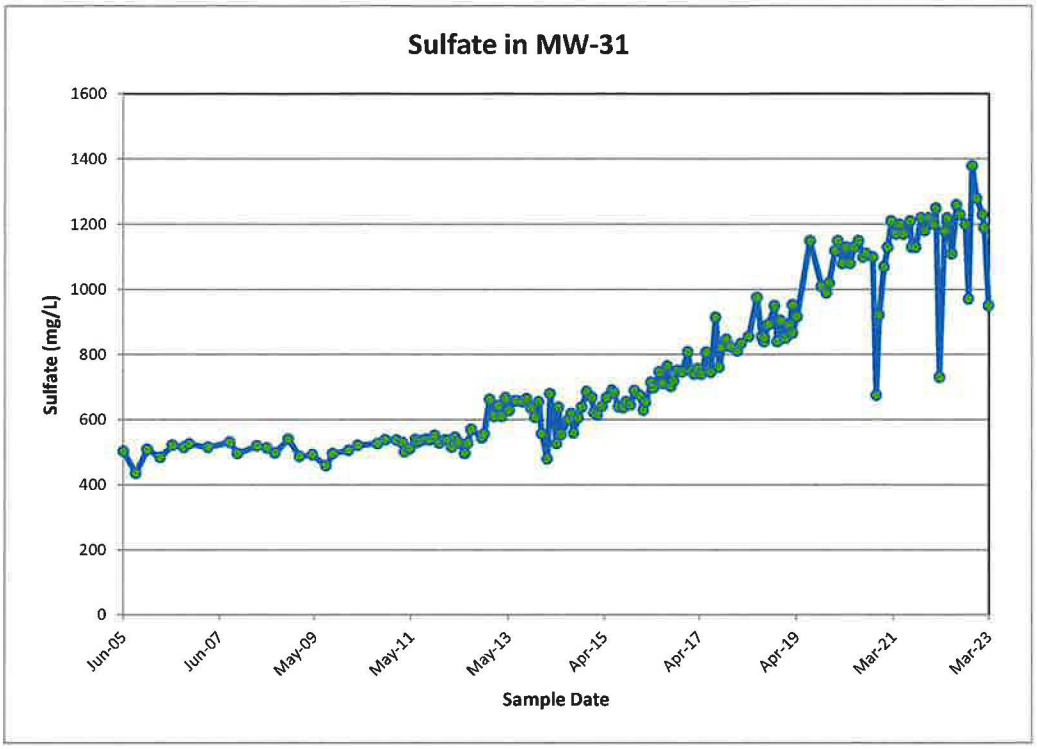


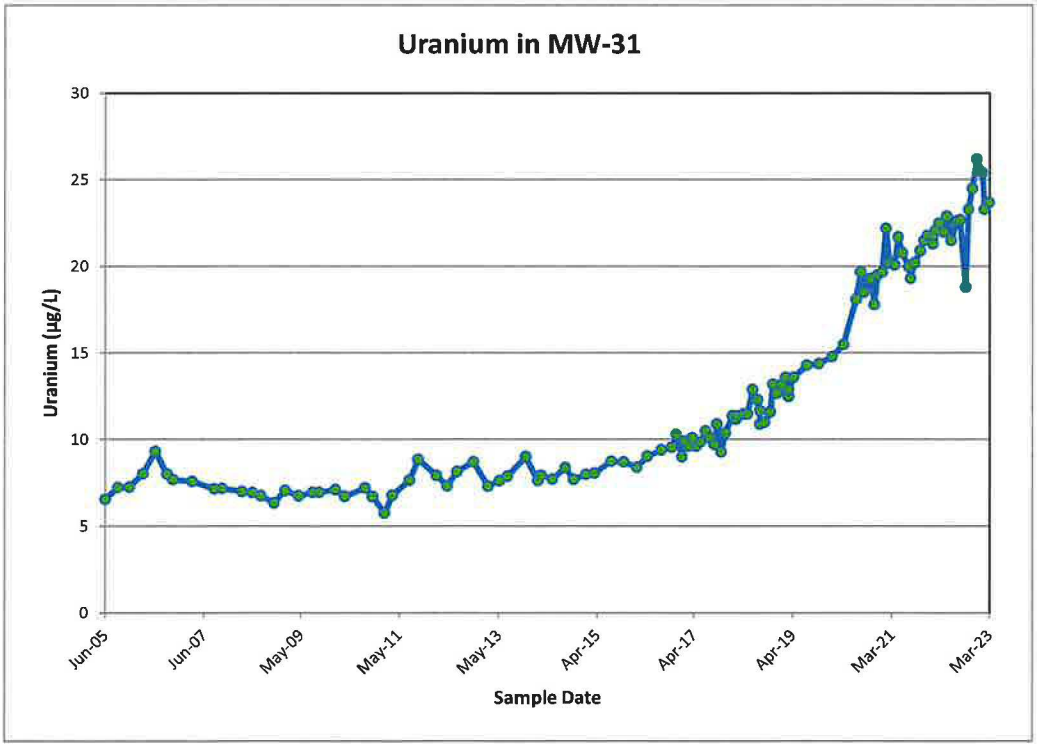
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-31



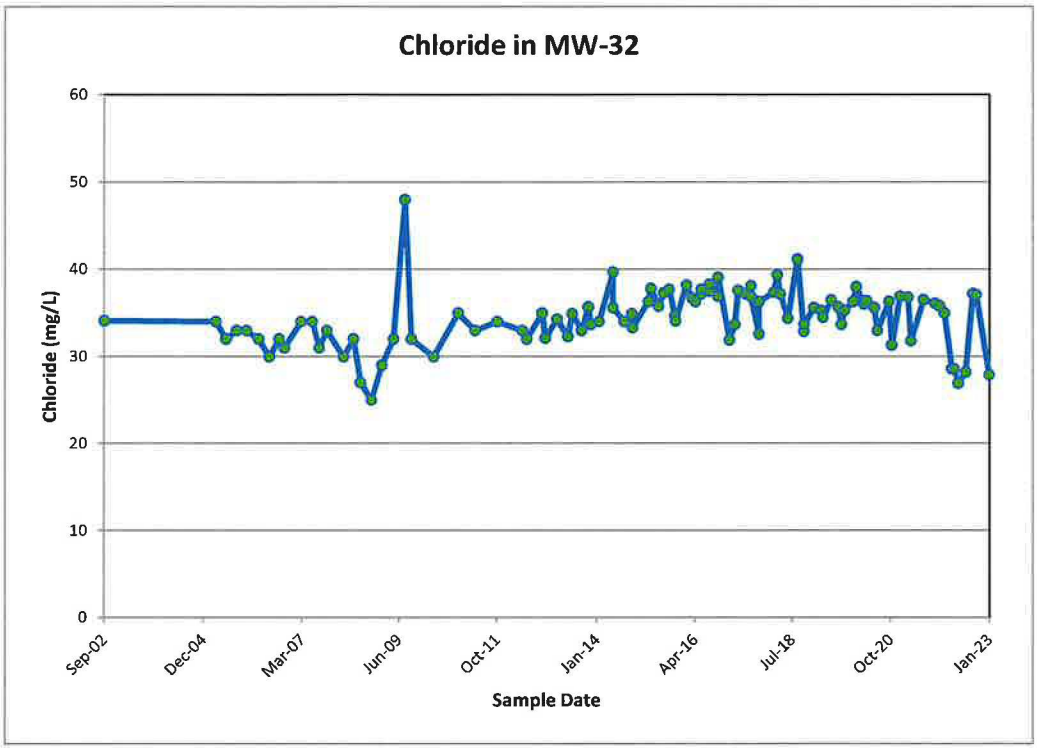


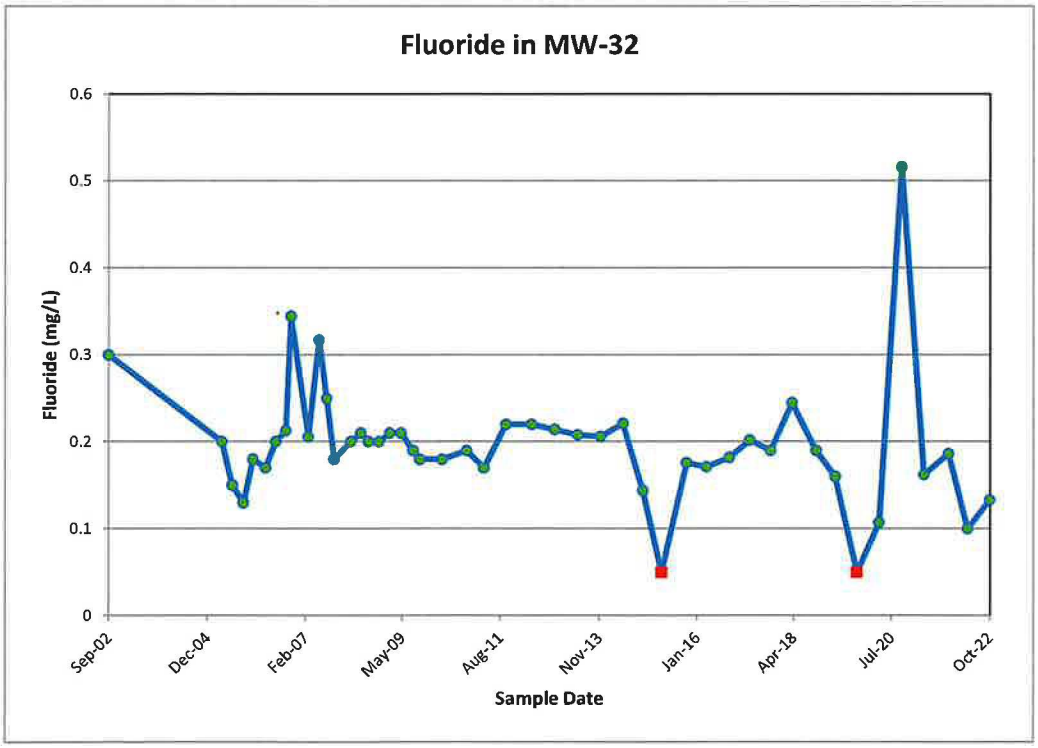
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-32



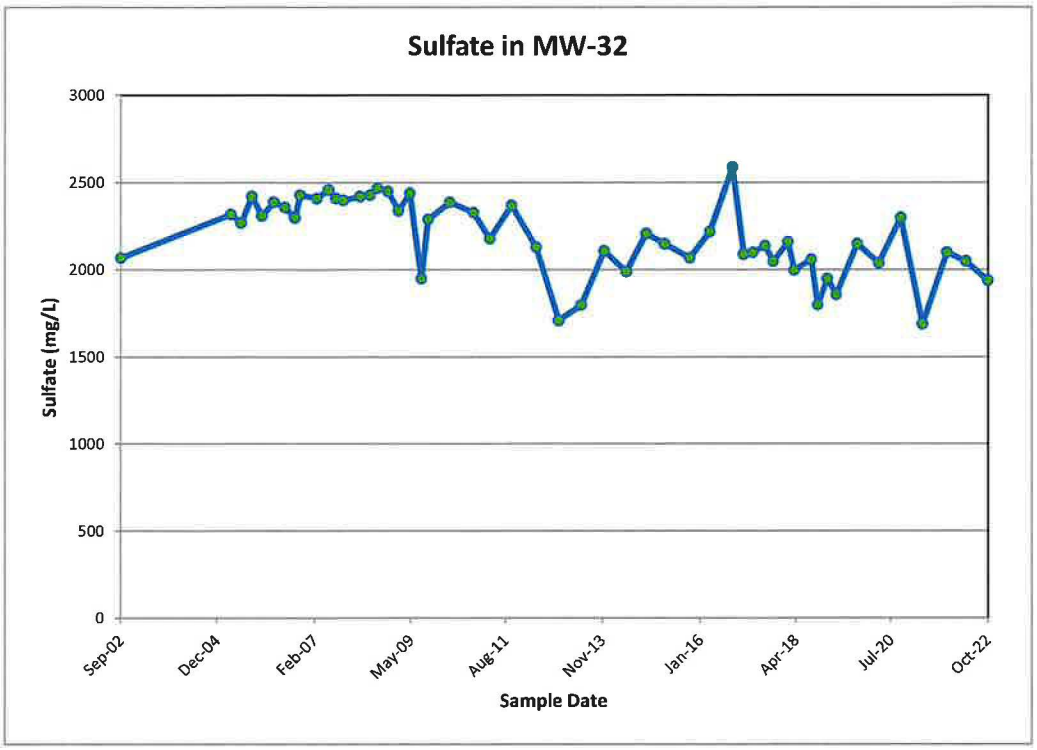


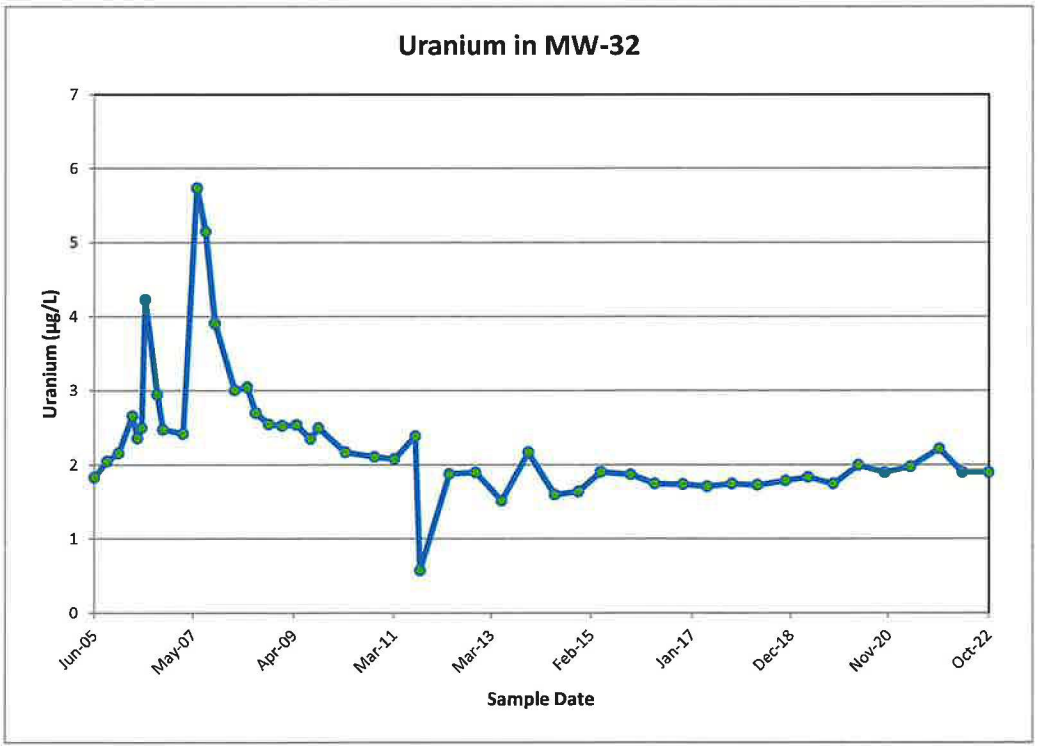
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-32



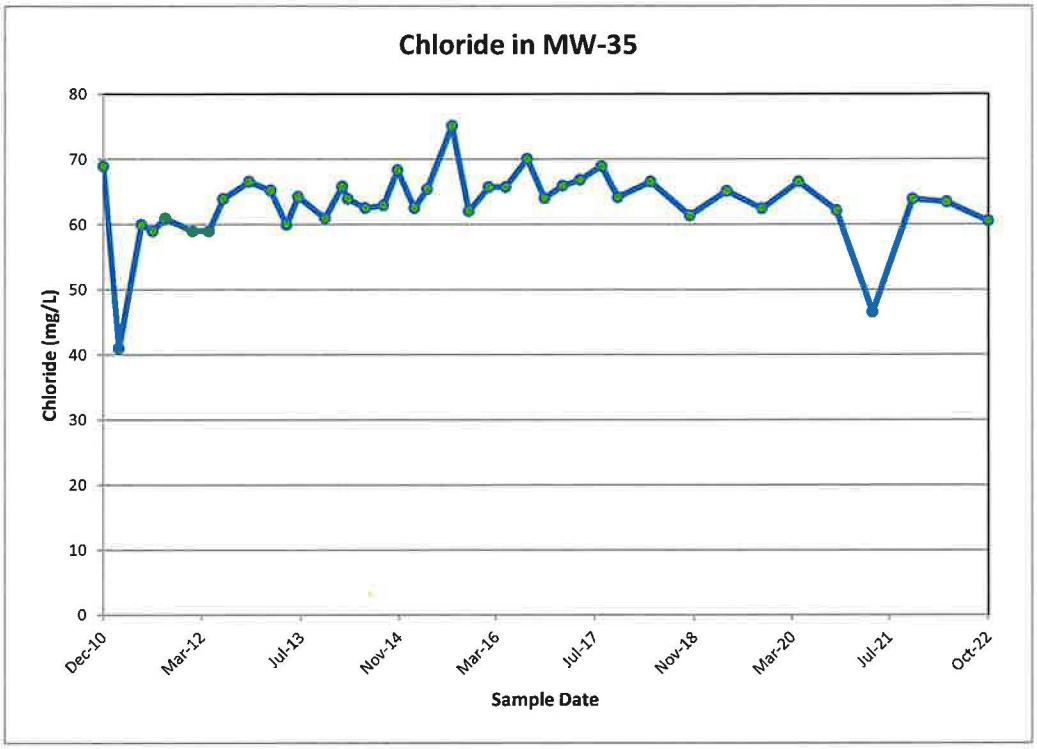


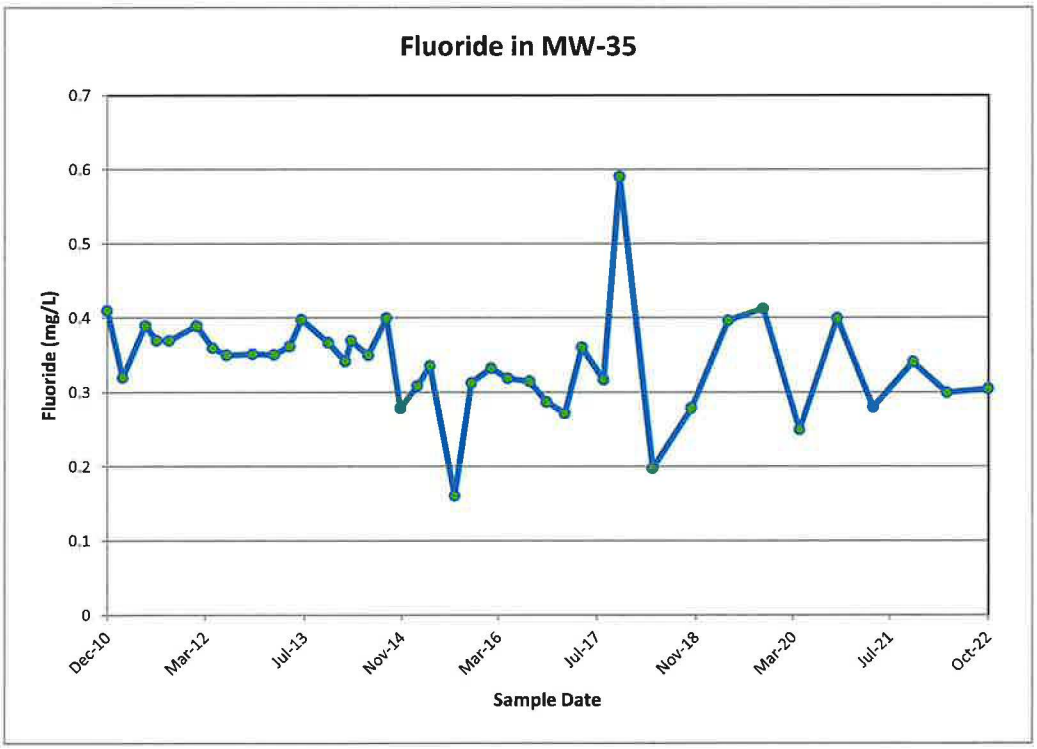
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-35





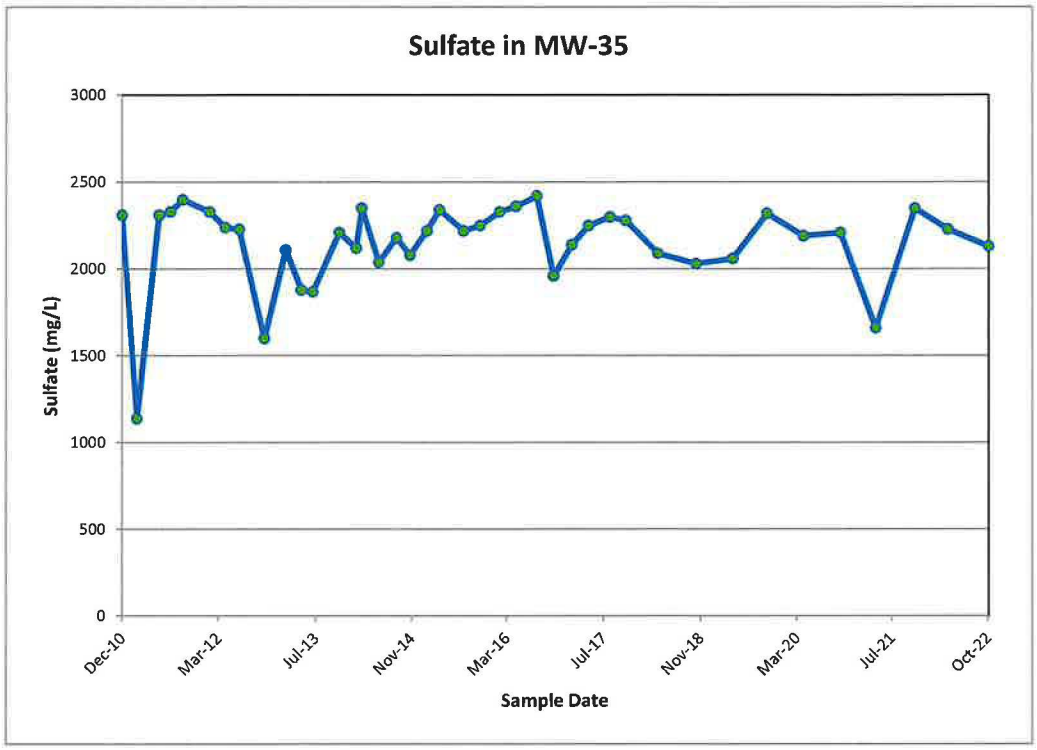
INTERA

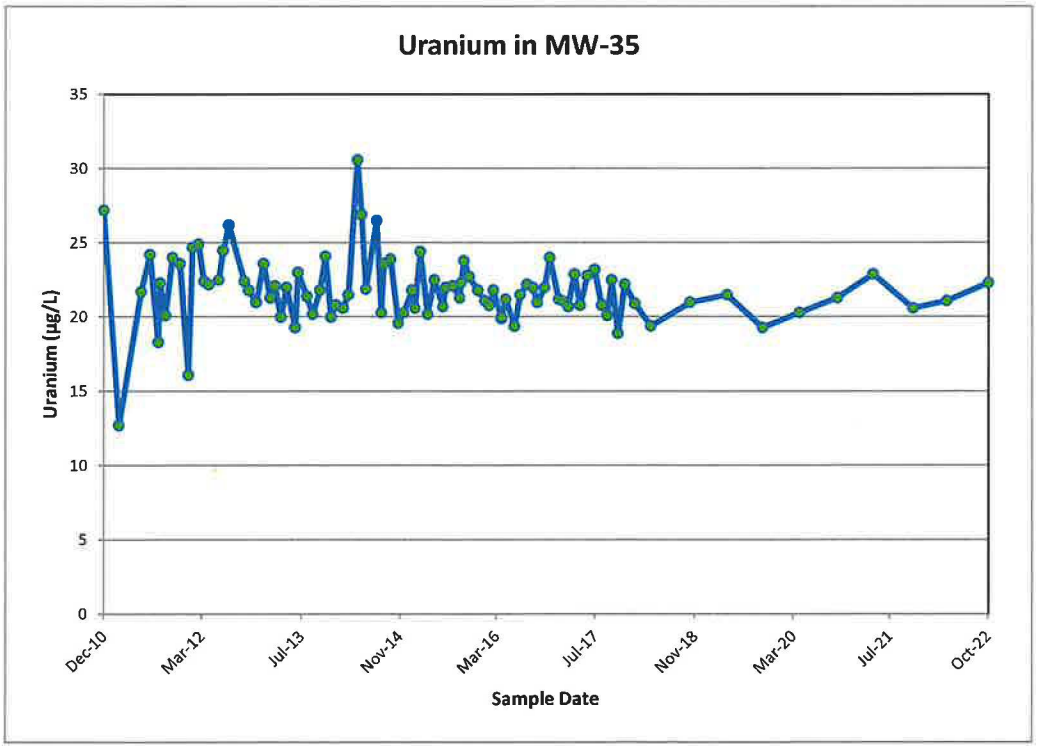
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

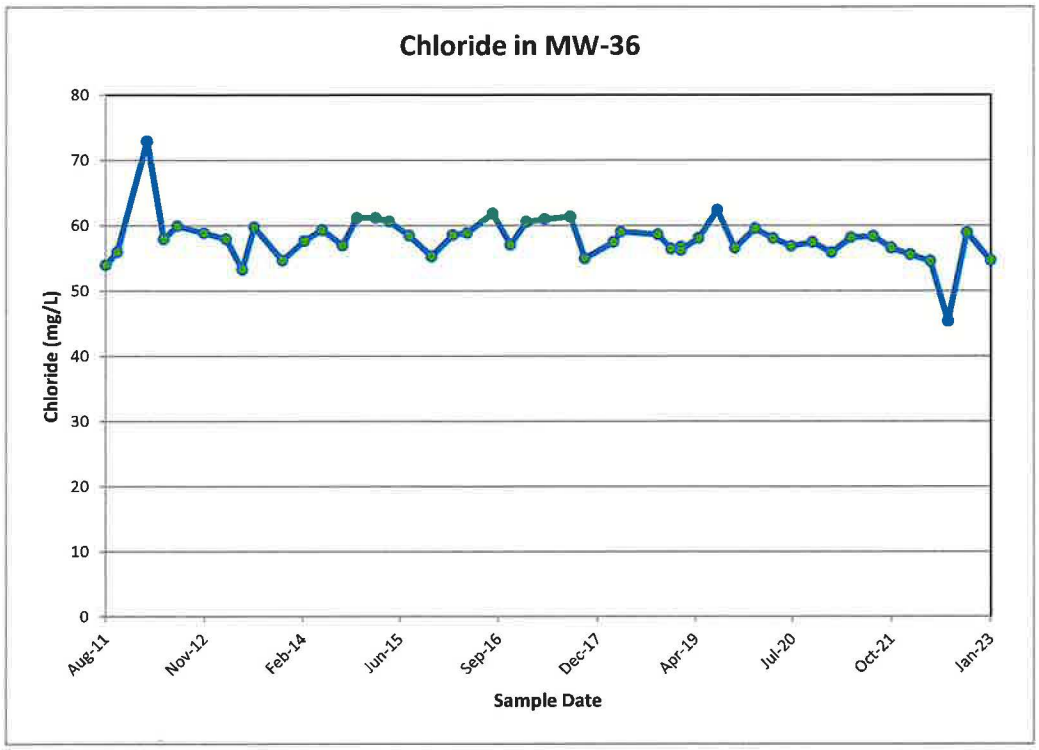
Non-Detected Values

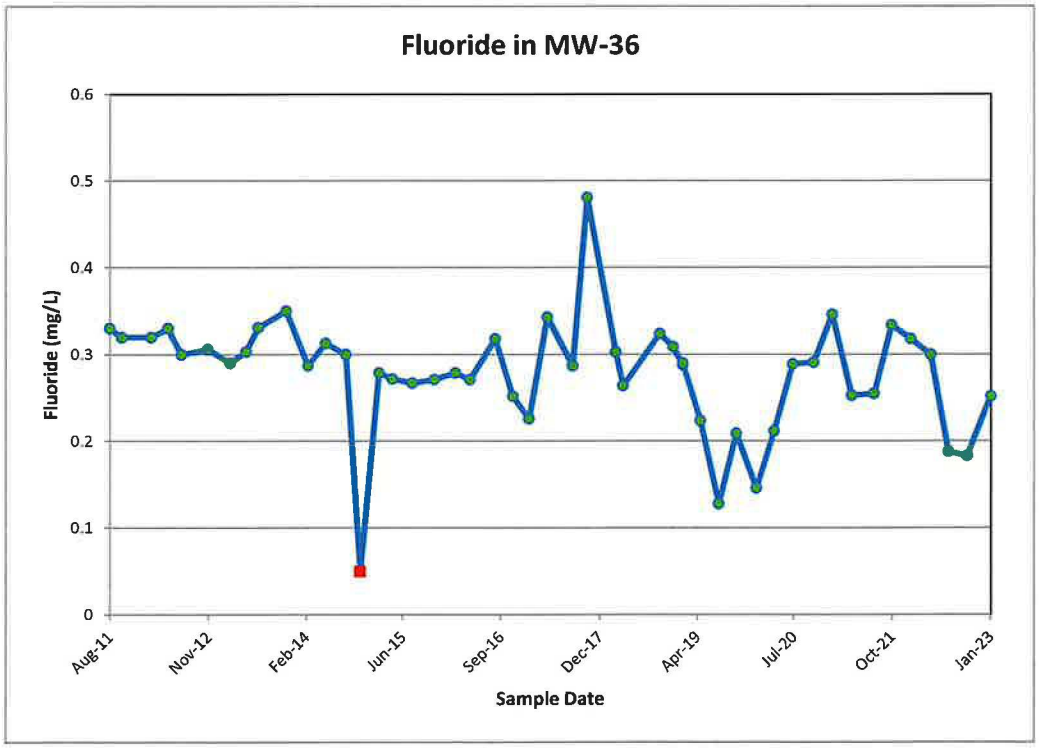
Time concentration plots for MW-35



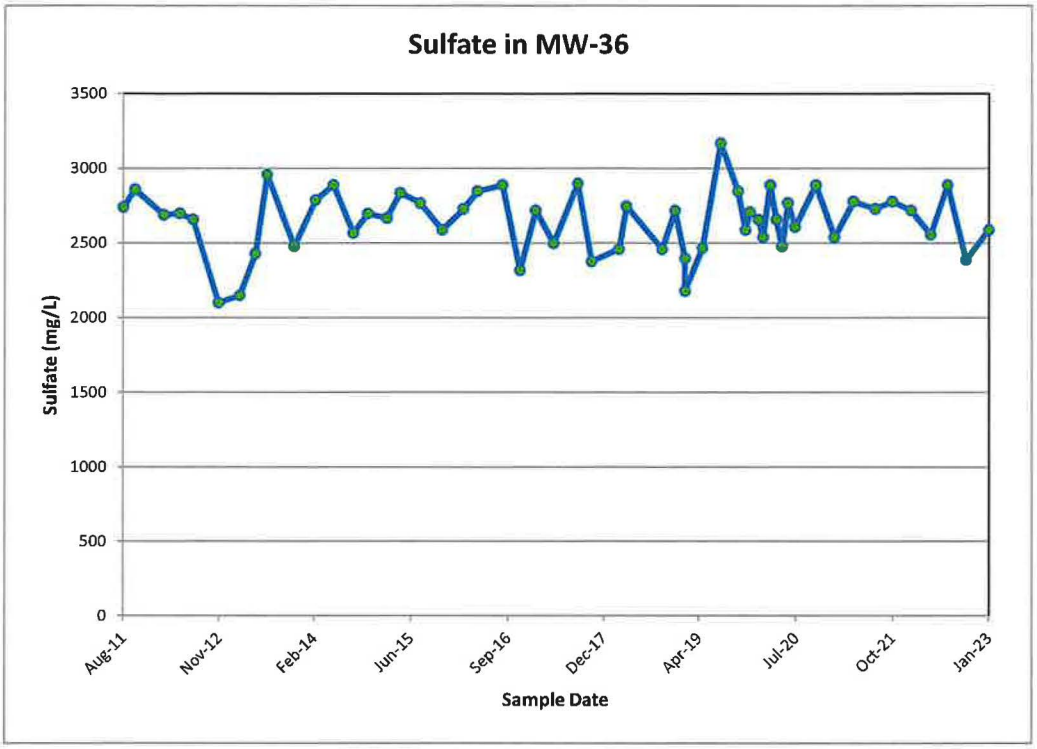


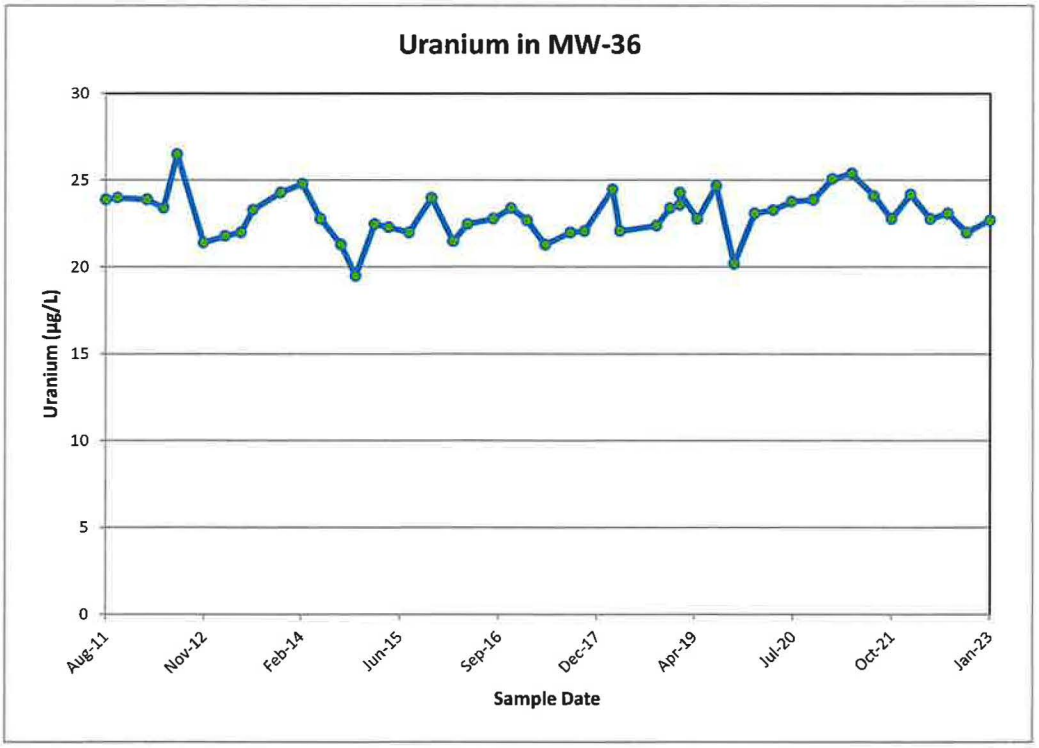
Time concentration plots for MW-36





Time concentration plots for MW-36





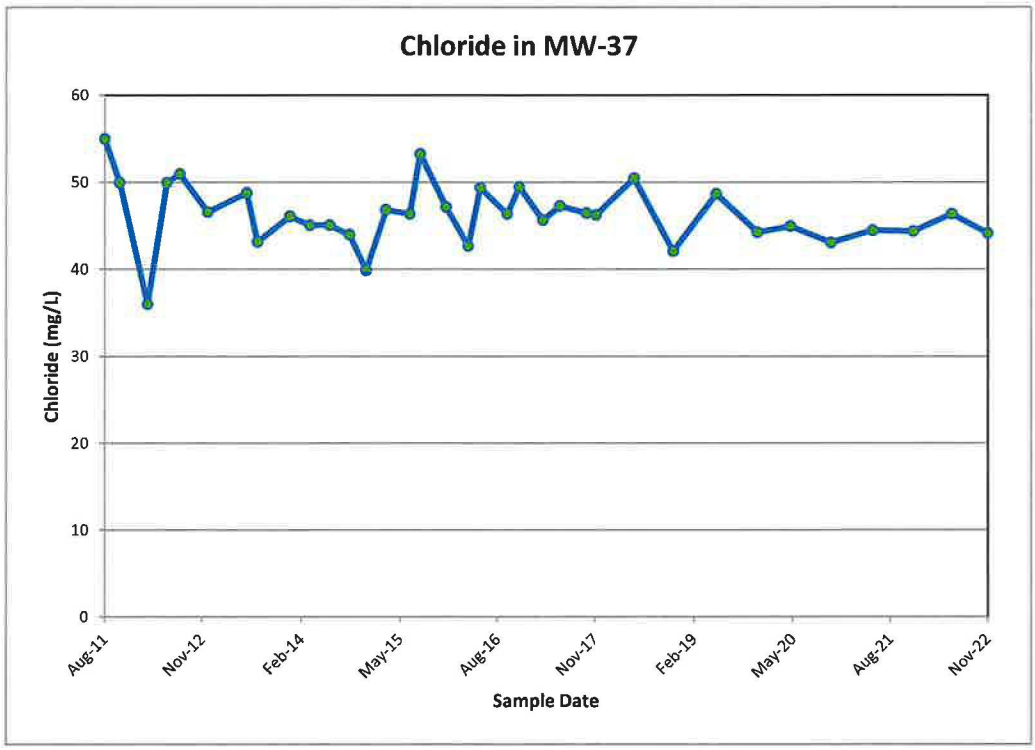
INTERA

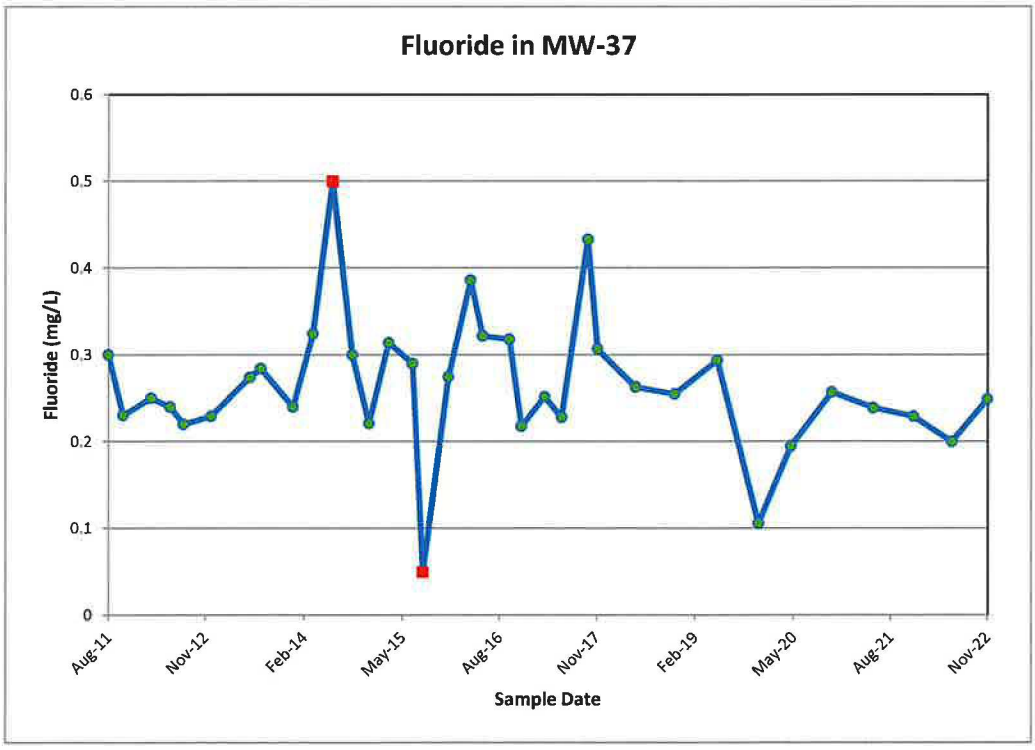
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

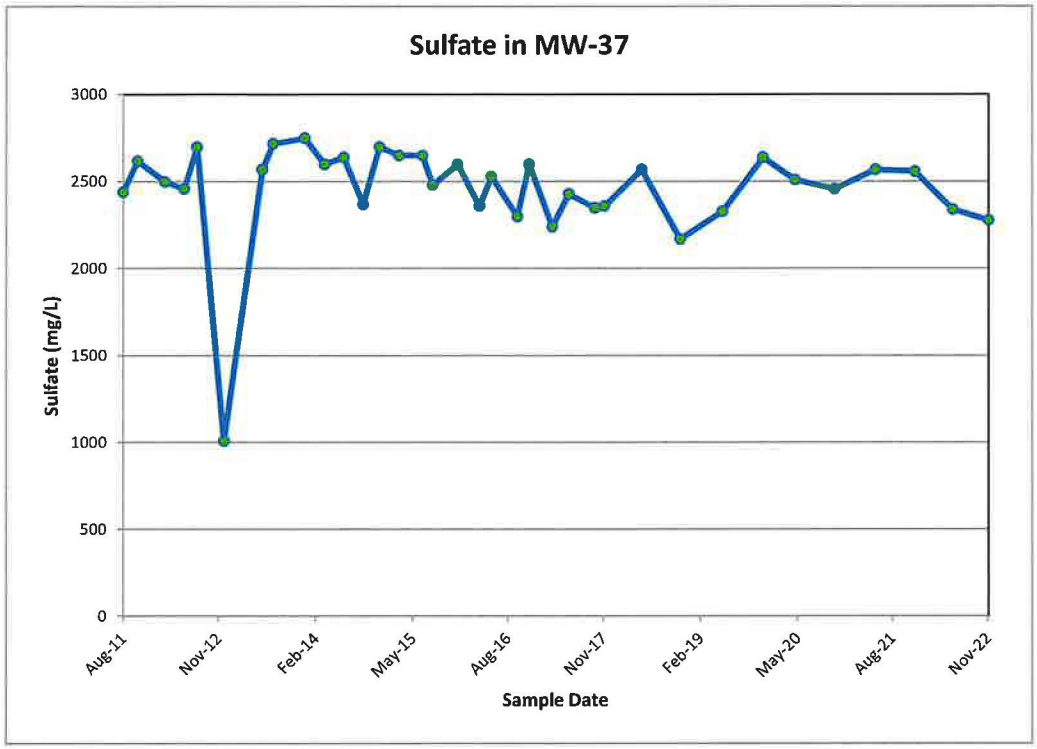
Non-Detected Values

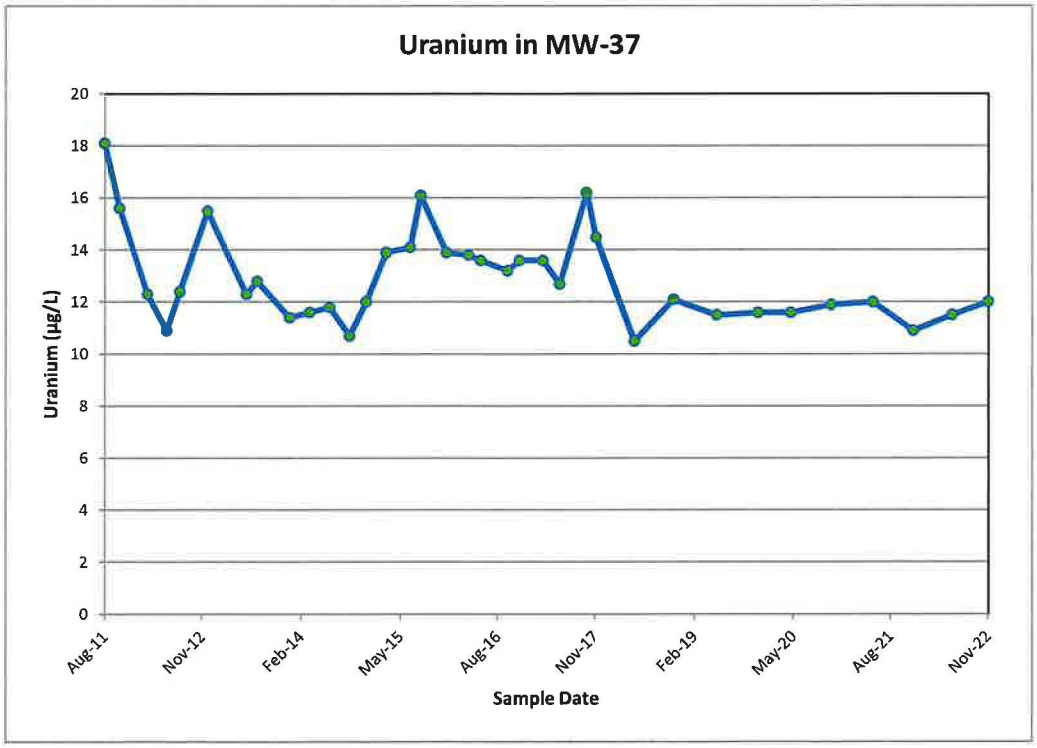
Time concentration plots for MW-37





Time concentration plots for MW-37



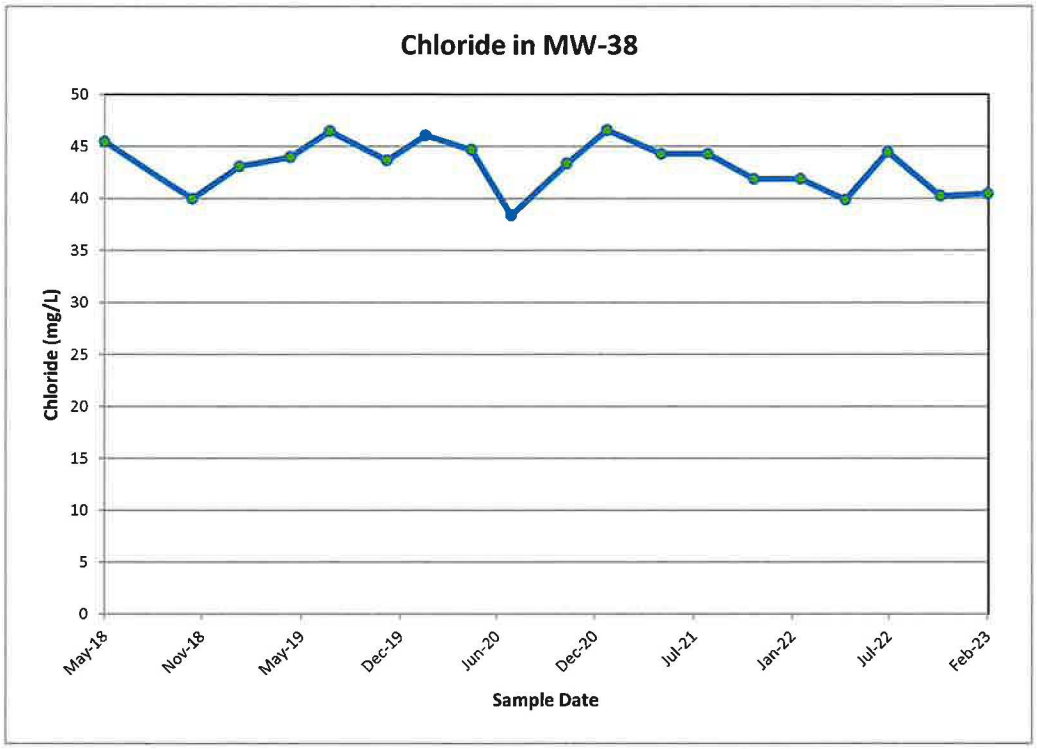


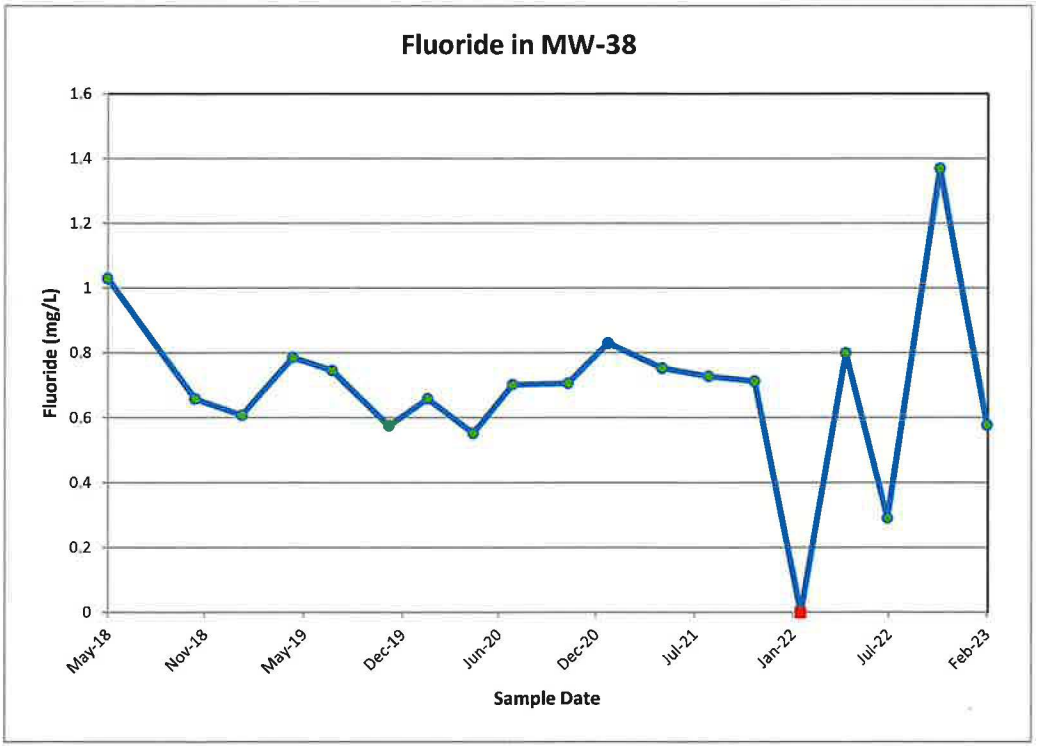
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-38





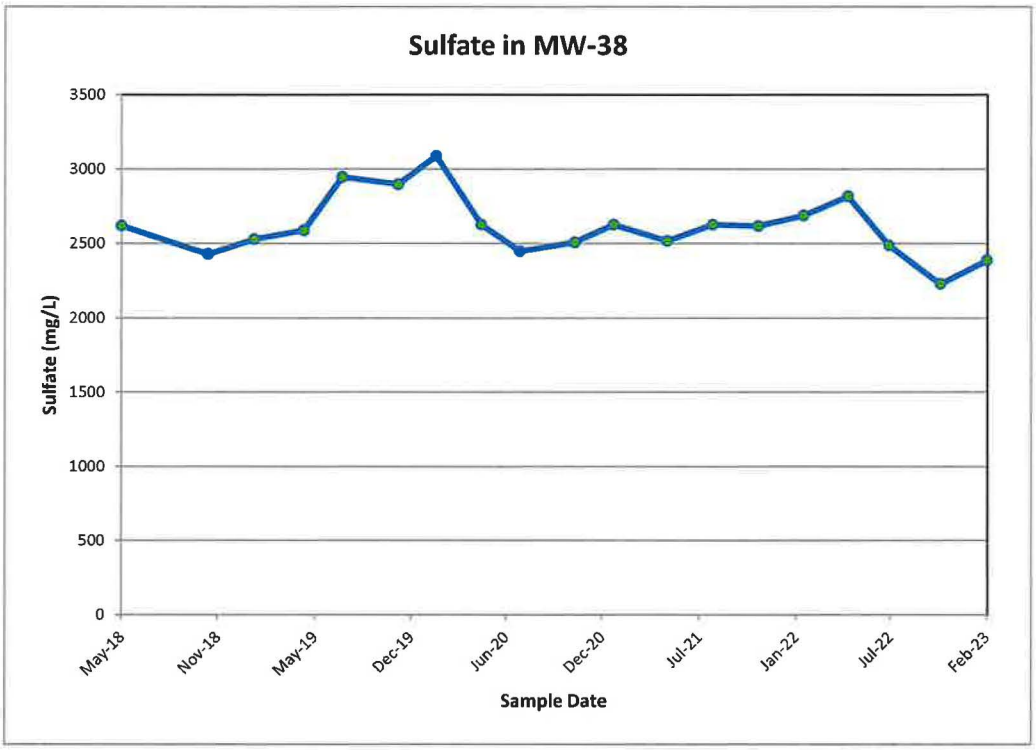
INTERA

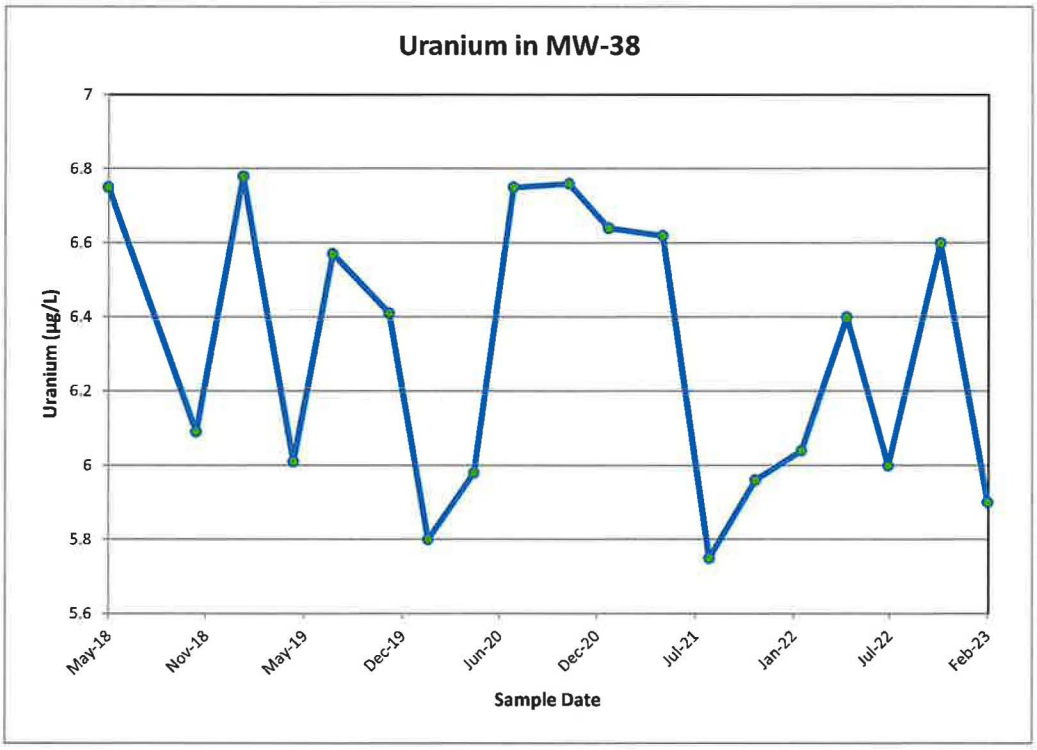
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-38





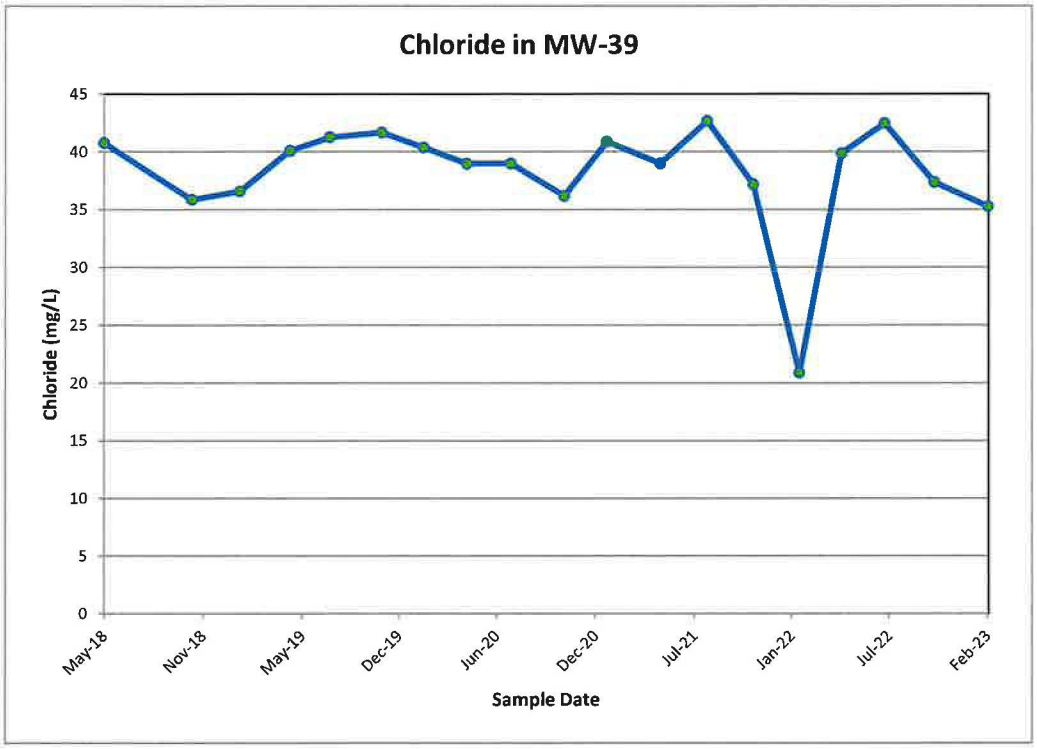
INTERA

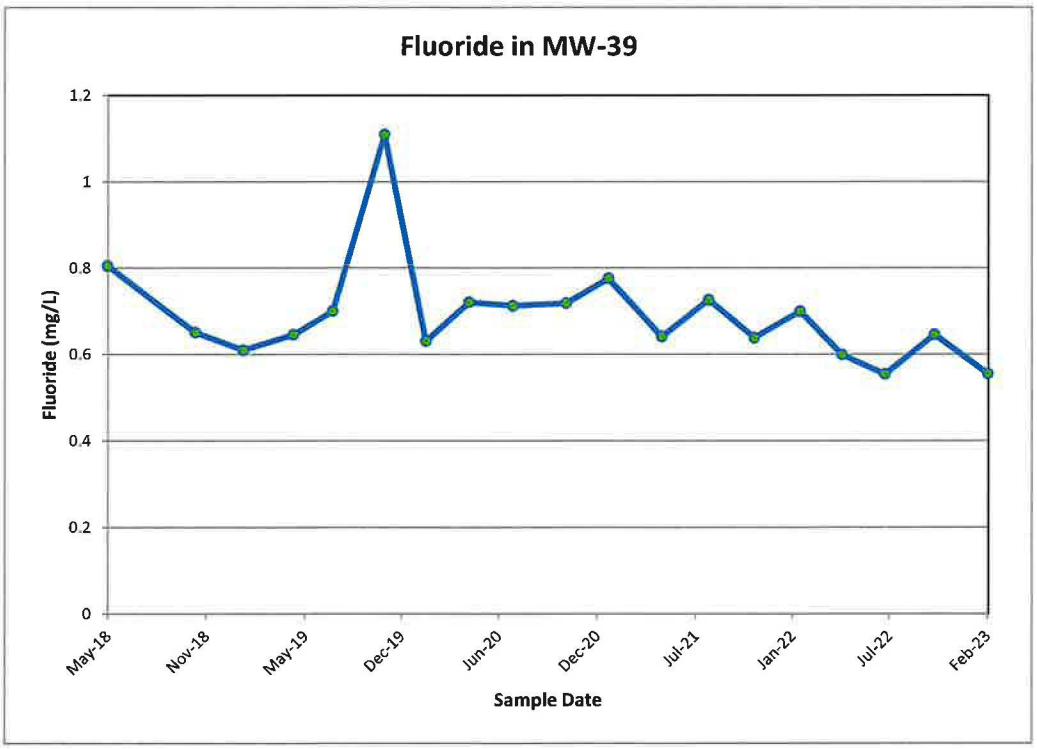
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-39



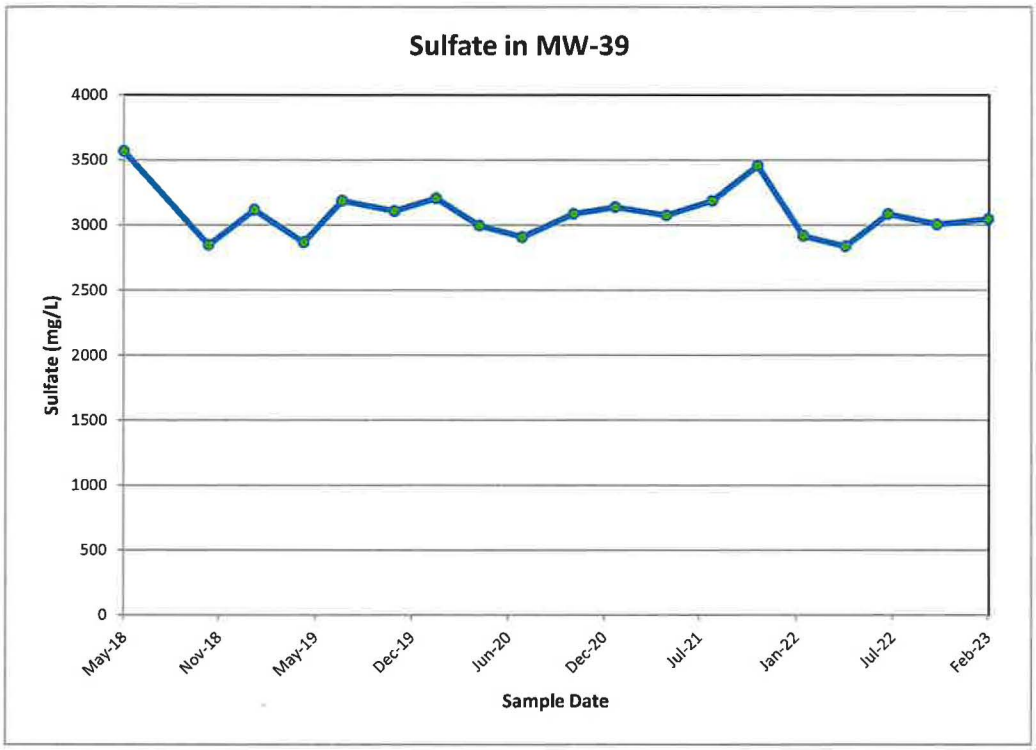


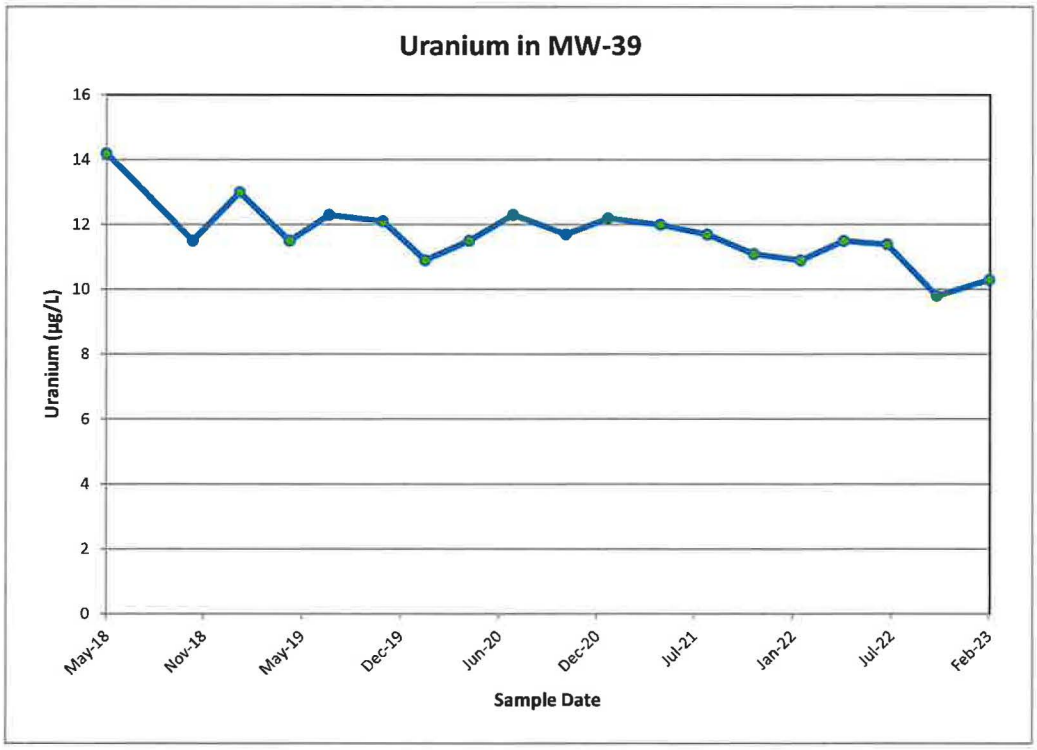
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-39





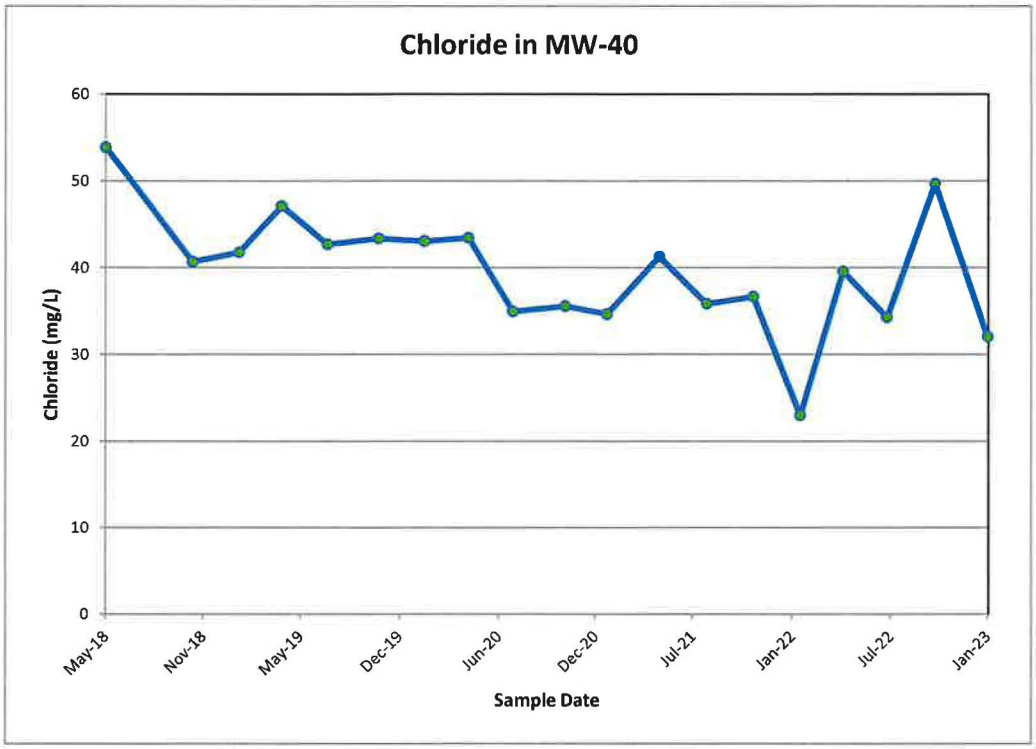
INTERA

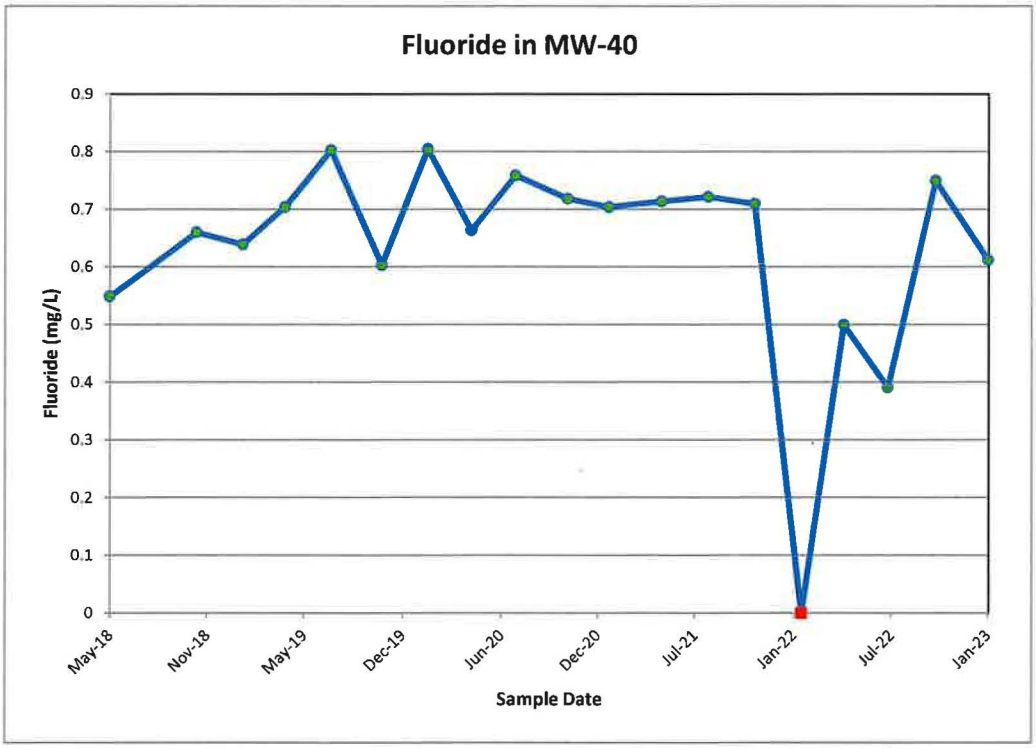
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-40



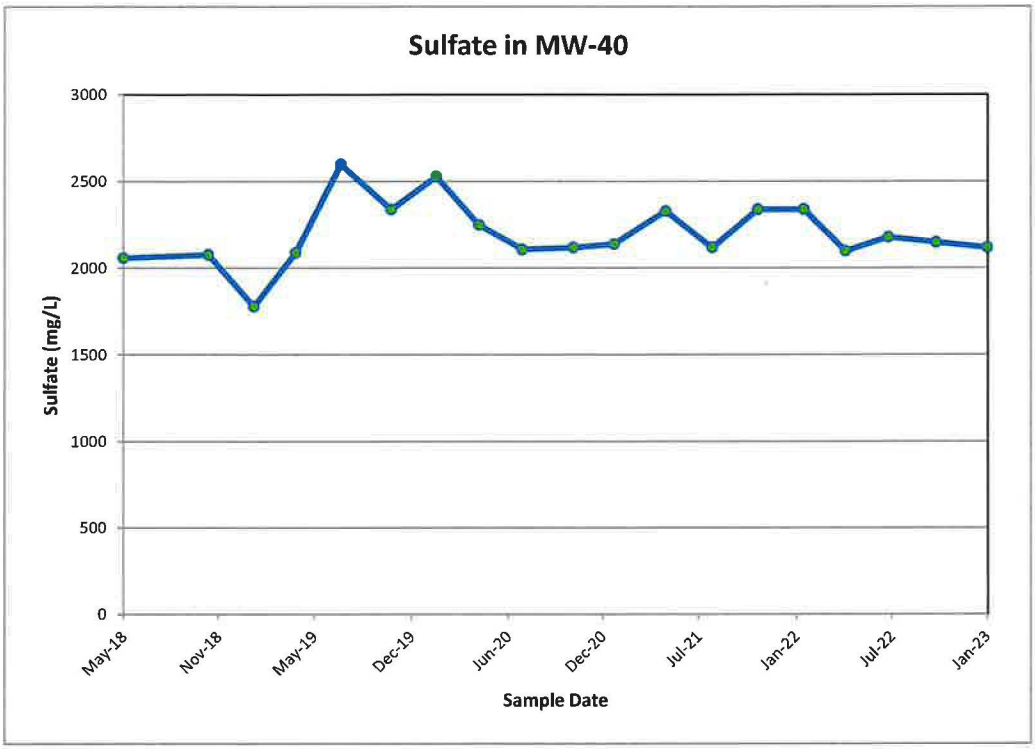


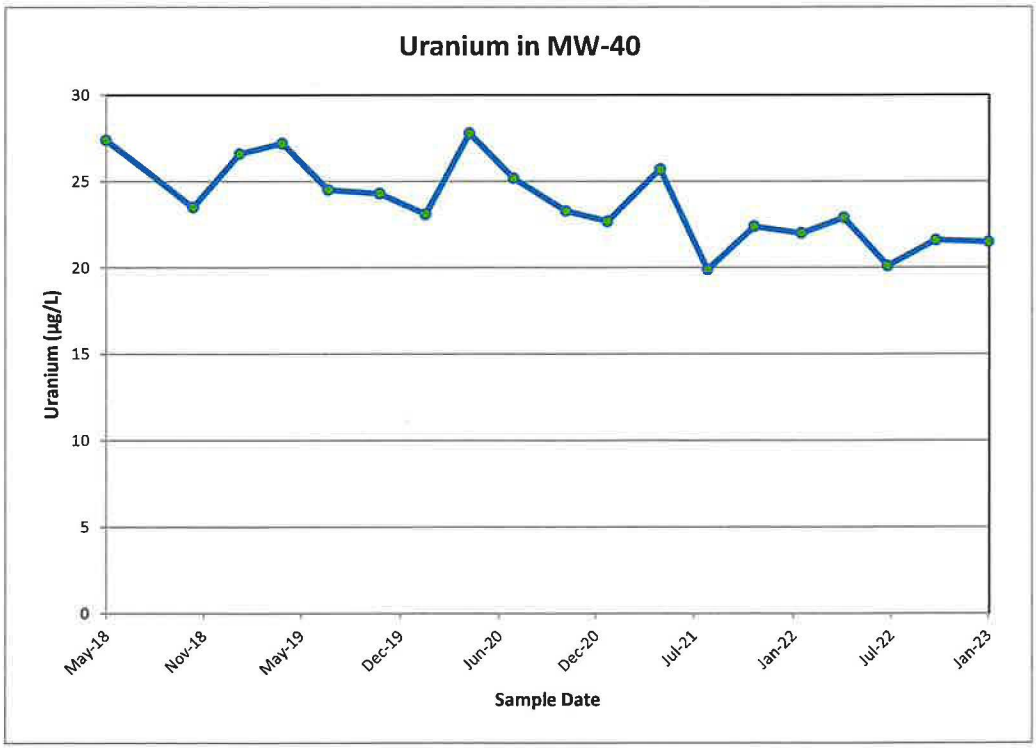
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for MW-40





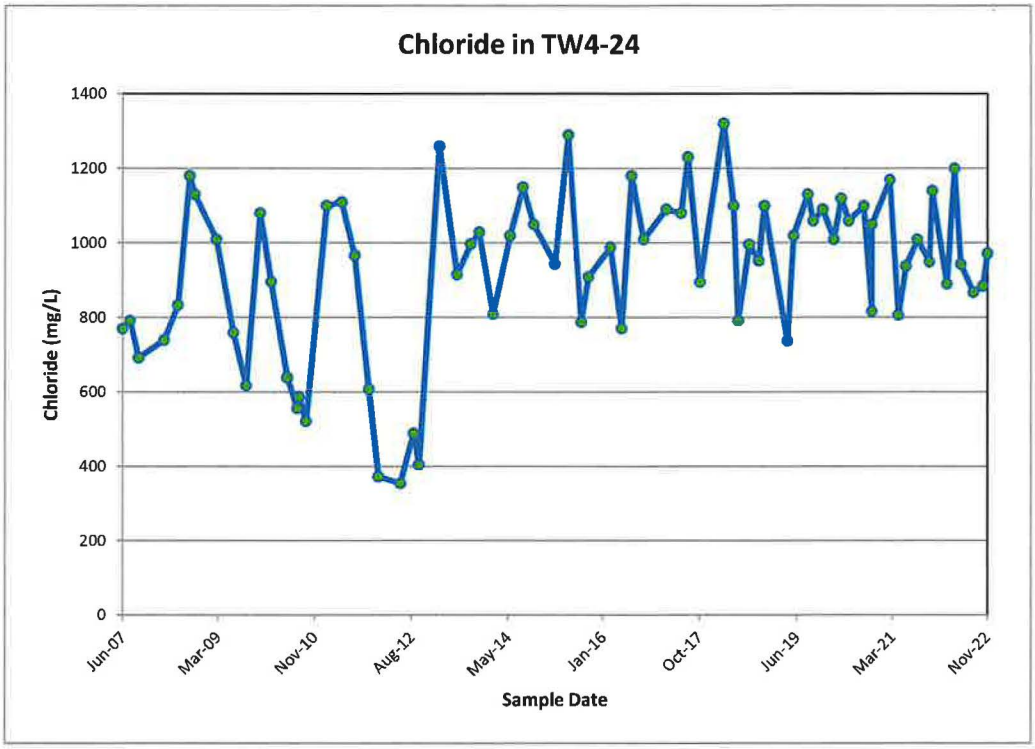
INTERA

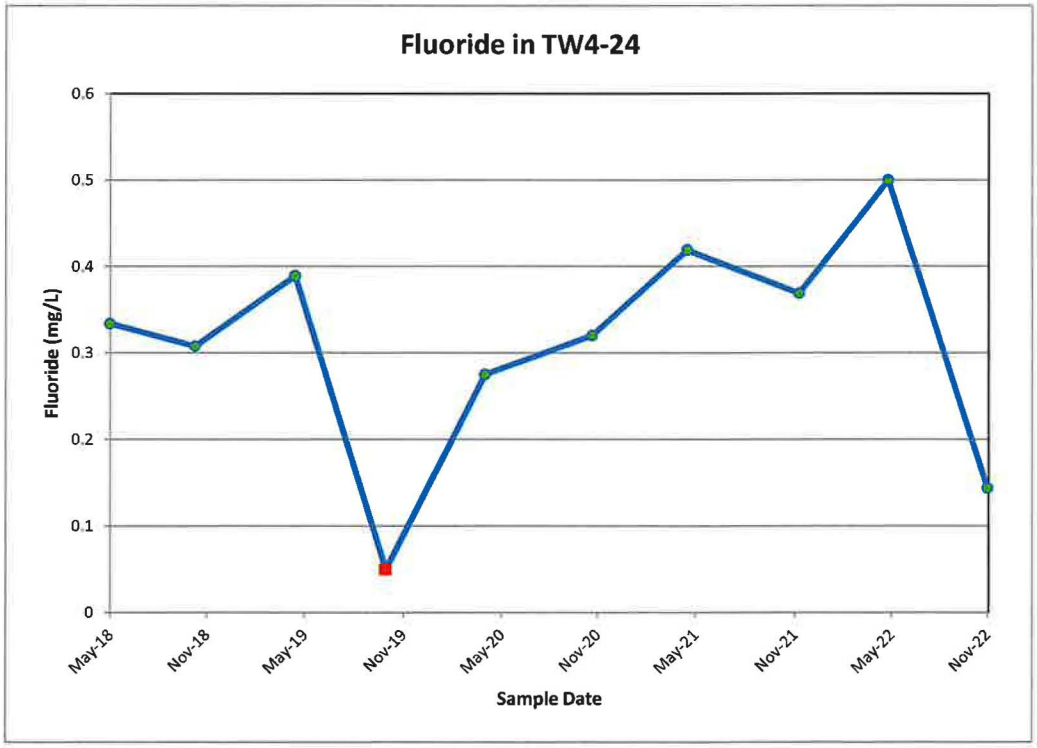
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for TW4-24





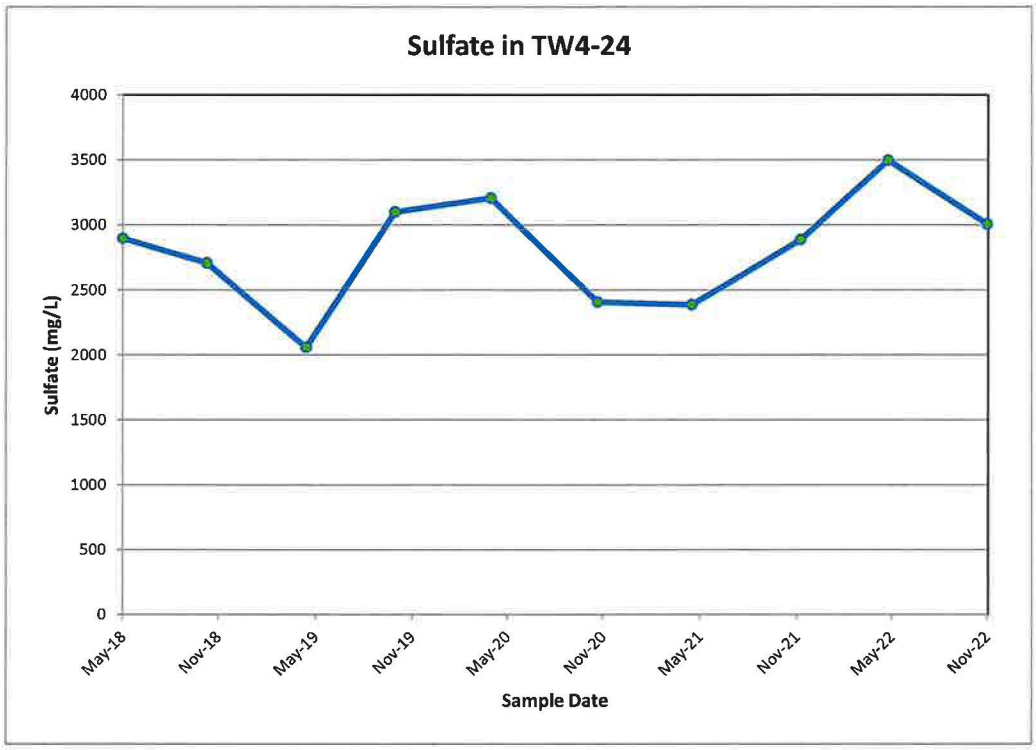
INTERA

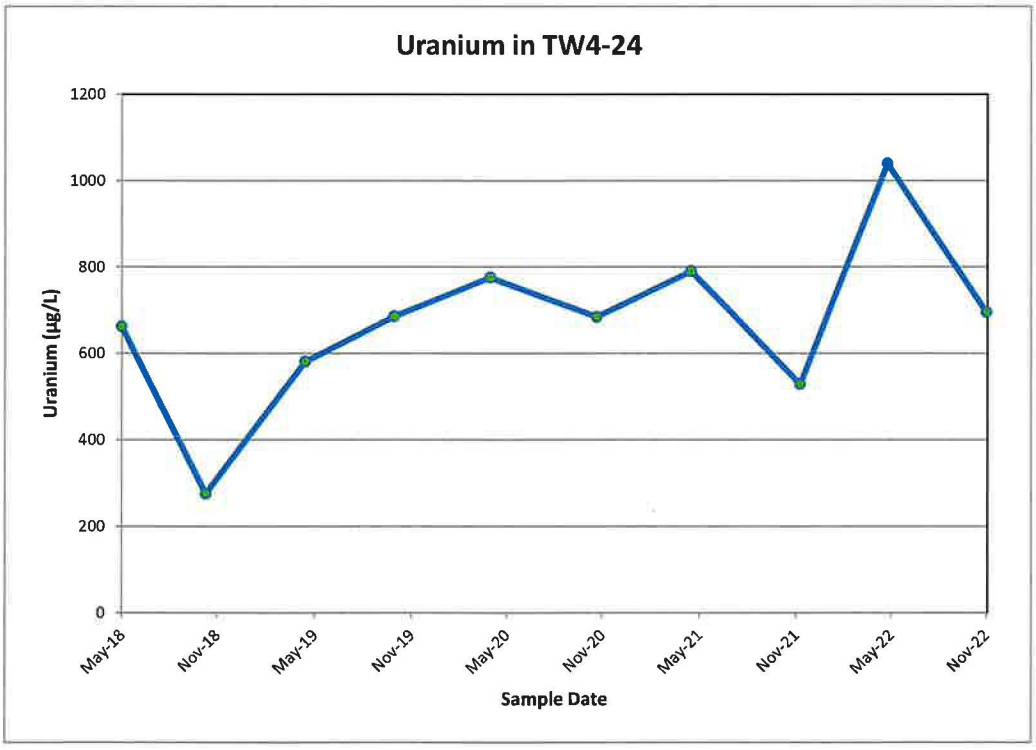
White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Time concentration plots for TW4-24





White Mesa Uranium Mill
Groundwater Monitoring
1st Quarter 2023

Detected Values

Non-Detected Values

Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, April 24, 2023 9:02 AM
To: Phillip Goble
Cc: 'Dean Henderson'; cleahy@udeq.gov; David Frydenlund; Scott Bakken; Garrin Palmer; Logan Shumway; Jordan Christine App; John Uhrie PE PhD
Subject: Transmittal of CSV Files White Mesa Mill 2023 Q1 Groundwater Monitoring
Attachments: Q1 2023 GW Analytical Data.csv; Q1 2023 DTW All Programs.csv; Q1 2023 Field Data.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for groundwater monitoring conducted at the White Mesa Mill during the first quarter of 2023, 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

Energy Fuels Resources (USA) Inc.

Kathy Weinel
Director, Regulatory Compliance

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

225 Union Blvd., Suite 600
Lakewood, CO 80228

http://www.energyfuels.com