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DRC-2020-009857

Div of Waste Management
and Radiation Control

May 5, 2020

MAY 13 2020

Sent VIA OVERNIGHT DELIVERY

Mr. Ty L. Howard
Director of Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84114-4880

**Re: Transmittal of 1st Quarter 2020 Groundwater Monitoring Report
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill**

Dear Mr. Howard:

Enclosed are two copies of the White Mesa Uranium Mill Groundwater Monitoring Report for the 1st Quarter of 2020 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs each containing a word searchable electronic copy of the report.

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

Yours very truly,

A handwritten signature in black ink, appearing to read 'Kathy Weinel'.

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Quality Assurance Manager

cc: William Paul Goranson
David C. Frydenlund
Scott Bakken
Logan Shumway
Terry Slade



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White Mesa Uranium Mill
Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

1st Quarter
(January through March)
2020

Prepared by:



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

May 5, 2020

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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 2020 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 19, 2019. 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 and Part I.E.1.d) 2)ii of the GWDP as described in previous reports.

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

During this quarter, one well was resampled. MW-11 was resampled for gross alpha minus radium and uranium (“gross alpha”) because the pH was above 2 upon receipt at the laboratory. The sample was recollected on January 28, 2020.

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 based on the GWDP which was issued March 19, 2019.

As a result of the issuance of a revised GWDP on March 19, 2019, which sets revised GWCLs, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on March 19, 2019, 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

Pursuant to the GWDP Part I.H.2, wells MW-38, MW-39 and MW-40 were installed in the first quarter 2018. The GWDP Part I.H.3 requires the completion of a background report for each of these wells after the completion of 8 quarters of sampling. Quarterly sampling of MW-38, MW-39 and MW-40 is required to commence after Director’s approval of the As-Built for MW-38, MW-39 and MW-40. The As-Built approval letter was received October 10, 2018 and quarterly sampling commenced starting fourth quarter 2018.

2.1.4 Parameters Analyzed

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

2.1.5 Groundwater Head Monitoring

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

- The groundwater monitoring wells (including general monitoring wells, quarterly and semi-annual monitoring wells, and (MW-34).
- Existing monitoring well MW-4 and the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3A, P-4 and P-5.
- Nitrate monitoring wells.

- The DR piezometers which were installed during the Southwest Hydrogeologic Investigation.
- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

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

2.2 Field Data

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

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

2.3 Laboratory Results - Quarterly Sampling

2.3.1 Copy of Laboratory Results

Analytical results are provided by two contract analytical laboratories: GEL and American West Analytical Laboratories (“AWAL”).

Table 1 lists the dates when analytical results were reported to the Quality Assurance (“QA”) Manager 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 will submit the background report for MW-38, MW-39, and MW-40 after the collection of 8 quarters of data.

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

As a result of the issuance of a revised GWDP on March 19, 2019, which sets revised GWCLs, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on March 19, 2019, 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 current 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 GWDP permit renewal.

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 19, 2019, 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 on March 19, 2019, and the effect of the issuance of the revised GWDP was to create a “clean slate” for certain constituents in a limited list of wells going forward.

This means that accelerated monitoring during this quarter was required under the revised GWDP for constituents which did not have revised GWCLs included in the current GWDP.

2.4.3 Compliance Status

Analytes that have exceeded the GWCLs for this quarter 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 19, 2019 GWDP.

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 Executive Secretary 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.

2.4.3.1 MW-28

On May 28, 2014 EFRI notified DWMRC personnel of damage to Monitoring Well 28 (“MW-28”). The damage was noted by EFRI Environmental Staff during routine, quarterly sampling activities. Upon arrival at MW-28, EFRI Environmental Staff noticed that there was evidence that a vehicle had struck the outer protective metal casing of MW-28 and it was slightly bent and leaning to the west. Inspection of the inner, 10-inch PVC protective casing and the 4-inch well casing also showed signs of damage. The concrete seal between the 10-inch outer casing and the 4-inch casing was cracked and EFRI Environmental Staff noted that the 2 inner PVC casings were likely cracked and/or broken. Upon discovery of the damage on May 28, 2014, EFRI Environmental Staff contacted the EFRI QAM. The EFRI QAM notified DWMRC in person, while at the DWMRC offices in Salt Lake City. On June 2, and June 5, 2014 Environmental Staff and Bayles Exploration repaired the well and removed the debris in the bottom of the well resulting from the damage. The Environmental Staff then over pumped the well and removed over 4 casing volumes to redevelop the well. The well has been sampled routinely since the repairs.

Several constituents in MW-28 have exceeded the GWCLs since May 2014. Because additional constituents have exceeded the GWCLs, EFRI has been instructed by DWMRC to complete a Plan and Time Schedule and a Source Assessment Report for this

well. Because a Plan and Time Schedule and Source Assessment Report will be submitted, the details (other than those required for normal reporting) regarding the out of compliance concentrations in MW-28 will no longer be included in the quarterly groundwater 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 QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Groundwater Monitoring Quality Assurance Plan ("QAP"). As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and quality control review of laboratory data methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures ("SOPs") is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

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

3.1 Field QC Samples

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

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

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

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

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

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

3.2 Adherence to Mill Sampling SOPs

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

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

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

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

MW-24 and MW-38 conformed to the QAP requirement for sampling low yield wells which includes the collection of three field parameters (pH, specific conductance ["conductivity"] and temperature) immediately prior to and immediately following sample collection. Stabilization of pH, conductivity and temperature were within the 10% RPD required by the QAP. MW-24 and MW-38 were purged to dryness after 2 casing volumes were removed and the low yield sampling procedures were used for the collection of field parameters. Stabilization of pH, conductivity and temperature were within the 10% RPD required by the QAP for well MW-24 and MW-38.

Additionally, two casing volumes were not purged from MW-26, prior to sampling because MW-26 is a continuously pumped well. If a well is continuously pumped, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample; however, if a pumping well has been out of

service for 48 hours or more, EFRI follows the purging requirements outlined in Attachment 2-3 of the QAP.

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

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-11, MW-24A 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 both the February and March monthly events. 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 except as noted in Section 4.0 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 SOP. Duplicate results were within the acceptance limits specified in the QAP except for fluoride in MW-40/MW-65. The fluoride results were greater than 20% RPD, however, the sample and duplicate results were not greater than 5 times the RL and as such are acceptable. Field duplicate results are shown in Attachment G.

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

3.4.8 Radiologics Counting Error and Duplicate Evaluation

Section 9.14 of the QAP require that gross alpha analysis be reported with an activity equal to or greater than the GWCL and shall have a counting variance that is equal to or less than 20% of the reported activity concentration. An error term may be greater than 20% of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL. The quarterly and semi-annual radiologic sample results met the counting error requirements specified in the QAP except as noted in Tab G. The results for MW-24A, MW-36, MW-38, MW-40, and MW-65 (duplicate of MW-40) 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-24A, MW-38, MW-40, and MW-65 (duplicate of MW-40)]

4 do not have GWCLs and this second level check cannot be performed. 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, semi-annual, and accelerated radiologic sample QC are provided under Tab G. The quarterly, semi-annual, and accelerated radiologic 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 QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided under Tab G. The lab QA/QC results from both GEL and AWAL 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 both the quarterly and accelerated samples were within acceptable laboratory limits for the LCS compounds as noted in Tab G.

The QAP, Section 8.1.2 requires that each analytical batch shall be accompanied by a method blank. The analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank was prepared for the analytical methods. Per the approved QAP, contamination detected in analysis of method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP states that non-conformance conditions will exist when contaminant levels in the samples(s) are not an order of magnitude greater than the blank result. The method blanks for the quarterly samples and the accelerated samples reported no detections of any analyte. Method blank results are included in Tab E and Tab F.

Laboratory duplicates are completed by the analytical laboratories as required by the analytical method specifications. Acceptance limits for laboratory duplicates are set by the laboratories. The QAP does not require the completion of laboratory duplicates or the completion of a QA assessment of them. EFRI reviews the QC data provided by the laboratories for completeness and to assess the overall quality of the data provided. Duplicate results outside of the laboratory established acceptance limits are included in Tab G. The results outside of the laboratory established acceptance limits do not affect the quality or usability of the data because the RPDs above the acceptance limits are indicative of non-homogeneity in the sample matrix. Matrix effects are applicable to the individual sample results only.

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 Bakken Digitally signed by Scott Bakken
Date: 2020.05.05 15:53:47 -06'00'

Scott A. Bakken
Senior Director Regulatory Affairs

Date

Certification:

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

Scott Bakken Digitally signed by Scott Bakken
Date: 2020.05.05 15:54:38 -06'00'

Scott A. Bakken
Senior Director Regulatory Affairs
Energy Fuels Resources (USA) Inc.

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Tables

Table 1: Summary of Well Sampling for Q1 2020

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-11	Quarterly	Quarterly	1/15/20	(2/17/2020)
MW-11 Resample	Quarterly	Quarterly	1/28/20	[2/26/2020]
MW-12	Semi-annually	Semi-annually	1/16/20	(2/17/2020)
MW-14	Quarterly	Quarterly	1/15/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-24	Semi-annually	Semi-annually	1/22/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-24A	Semi-annually	Semi-annually	1/21/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-25	Quarterly	Quarterly	1/15/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-26	Quarterly	Quarterly	1/15/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-27	Semi-annually	Semi-annually	1/16/20	(2/17/2020)
MW-28	Semi-annually	Semi-annually	1/16/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-30	Quarterly	Quarterly	1/15/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-31	Quarterly	Quarterly	1/14/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-32	Semi-annually	Semi-annually	1/14/20	(2/17/2020)
MW-35	Semi-annually	Semi-annually	1/16/20	(2/17/2020)
MW-36	Quarterly	Quarterly	1/14/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-38	Quarterly	Background	1/22/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-39	Quarterly	Background	1/20/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-40	Quarterly	Background	1/20/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
MW-65	1 per Batch	Duplicate of MW-40	1/20/20	(2/17/2020) - [2/20/2020] - [2/25/2020]
Accelerated February Monthly				
MW-11	Monthly	Accelerated	2/4/20	(2/25/2020)
MW-14	Monthly	Accelerated	2/4/20	(2/25/2020)
MW-25	Monthly	Accelerated	2/5/20	(2/25/2020)
MW-26	Monthly	Accelerated	2/4/20	(2/25/2020)
MW-30	Monthly	Accelerated	2/5/20	(2/25/2020)
MW-31	Monthly	Accelerated	2/4/20	(2/25/2020)
MW-36	Monthly	Accelerated	2/5/20	(2/25/2020)
MW-65	Monthly	Duplicate of MW-30	2/5/20	(2/25/2020)
Accelerated March Monthly				
MW-11	Monthly	Accelerated	3/10/20	4/1/2020
MW-14	Monthly	Accelerated	3/10/20	4/1/2020
MW-25	Monthly	Accelerated	3/11/20	4/1/2020
MW-26	Monthly	Accelerated	3/10/20	4/1/2020
MW-30	Monthly	Accelerated	3/11/20	4/1/2020
MW-31	Monthly	Accelerated	3/10/20	4/1/2020
MW-36	Monthly	Accelerated	3/10/20	4/1/2020
MW-65	1 per Batch	Duplicate of MW-31	3/10/20	4/1/2020

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

Date in parenthesis depicts the date that data were reported from American West Analytical Laboratories (AWAL).

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)	Manganese (ug/L)	164.67	174	Quarterly	Monthly	Q2 2018	Q3 2018 (September)
	Chloride (mg/L)	39.16	48.4	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Sulfate (mg/L)	1309	1410	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
MW-14 (Class III)	Sulfate (mg/L)	2330	2450	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Fluoride (mg/L)	0.22	0.248	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
MW-25 (Class III)	Cadmium (ug/L)	1.5	1.52	Quarterly	Monthly	Q1 2020	May 2020
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
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Methylene Chloride (ug/L)	5	9.9	Quarterly	Monthly	Q2 2010	June 2010
	Nitrogen, Ammonia as N	0.92	0.938	Quarterly	Monthly	Q1 2019	May 2019
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
	Field pH (S.U.)	6.47	6.33	Quarterly	Monthly	Q2 2018	July 2018
	Selenium (ug/L)	47.2	48.6	Quarterly	Monthly	Q1 2019	May 2019
	Uranium (ug/L)	8.32	8.57	Quarterly	Monthly	Q4 2013	March 2014
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)
	Sulfate (mg/L)	993	1150	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
MW-36 (Class III)	Sulfate (mg/L)	3146.21	3170	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Field pH (S.U.)	6.49	6.35	Quarterly	Monthly	Q1 2019	May 2019
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
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
Field pH (S.U.)	5.03	4.45	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Gross Alpha (pCi/L)	2.42	2.55	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	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-32 (Class III)	Chloride (mg/L)	35.99	36.3	Semi-Annually	Quarterly	Q2 2014 (Q1 2015)	Q2 2014
MW-35 (Class II)	Nitrogen Ammonia, as N	0.14	0.254	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)

Notes:

Highlighted text shows accelerated requirements resulting from Q1 2020 sampling event.

Pursuant to the DWMRC letter of February 24, 2020, these constituents will no longer be monitored on an accelerated schedule.

Table 3 – GWCL Exceedances for Fourth Quarter 2019 under the March 19, 2019 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in March 19, 2019 GWDP	Q2 2019 Results						Q3 2019 Results						Q4 2019 Results					
			Q2 2019 Sample Date	Q2 2019 Result	May 2019 Monthly Sample Date	May 2019 Monthly Result	June 2019 Monthly Sample Date	June 2019 Monthly Result	Q3 2019 Sample Date	Q3 2019 Result	August 2019 Monthly Sample Date	August 2019 Monthly Result	Sept. 2019 Monthly Sample Date	Sept. 2019 Monthly Result	Q4 2019 Sample Date	Q4 2019 Result	November 2019 Monthly Sample Date	November 2019 Monthly Result	December 2019 Monthly Sample Date	December 2019 Monthly Result
Required Quarterly Sampling Wells																				
MW-11 (Class II)	Chloride (mg/L)	39.16	4/24/2019	34	5/7/2019	NA	6/3/2019	NA	7/16/2019	48.4	8/5/2019	NA	9/24/2019	NA	10/15/2019	30.8	11/12/2019	39.1	12/3/2019	35.4
	Sulfate (mg/L)	1309		1160		NA		NA		1410		NA		1290		1140		1100		
	Manganese (ug/L)	164.67		181		210		210		199		202		174		185		206		167
MW-14 (Class III)	Fluoride (mg/L)	0.22	4/23/2019	<0.100	NS	NA	NS	NA	7/15/2019	0.248	NS	NA	NS	NA	10/9/2019	<0.100	11/13/2019	0.127	12/3/2019	0.120
	Sulfate (mg/L)	2330		1780		NA		NA		2450		NA		2180		2110		2120		
MW-25 (Class III)	Cadmium (ug/L)	1.5	4/10/2019	1.30	5/8/2019	1.41	6/4/2019	1.47	7/15/2019	1.23	8/6/2019	1.37	9/23/2019	1.38	10/9/2019	1.45	11/13/2019	1.36	12/4/2019	1.45
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	4/24/2019	3.00	5/7/2019	0.986	6/4/2019	3.16	7/16/2019	2.06	8/6/2019	3.10	9/24/2019	1.59	10/9/2019	2.35	11/13/2019	2.90	12/4/2019	2.32
	Chloroform (ug/L)	70		41.40		1140		778		3110		1090		1540		1710		1110		
	Chloride (mg/L)	58.31		82.0		73.0		72.6		75.2		83.5		62.1		73.8		57.7		
	Methylene Chloride (ug/L)	5		4.16		1.69		<1.00		10.7		1.12		3.35		2.95		2.64		
	Nitrogen, Ammonia as N	0.92		0.104		0.479		0.0919		0.357		0.164		0.496		0.273		0.207		
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	4/9/2019	18.5	5/7/2019	17.9	6/3/2019	15.8	7/16/2019	19.3	8/6/2019	15.8	9/24/2019	17.9	10/8/2019	18.2	11/13/2019	17.2	12/4/2019	17.8
	Chloride (mg/L)	128		138		175		165		181		190		176		180		185		
	Selenium (ug/L)	47.2		53.6		47.1		49.9		48.4		50.9		49.1		56.8		56.4		
	Uranium (ug/L)	8.32		8.62		8.15		8.88		9.03		9.39		8.12		8.69		8.99		
	Field pH (S.U.)	6.47 - 8.5		7.06		7.00		7.12		6.86		7.42		7.00		7.16		7.22		
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	4/10/2019	19.7	5/7/2019	18.9	6/3/2019	19.7	7/15/2019	19.8	8/5/2019	17.0	9/23/2019	19.5	10/9/2019	19.8	11/12/2019	18.8	12/3/2019	18.3
	Sulfate (mg/L)	993		917		NA		NA		1150		NA		1010		990		1020		
	TDS (mg/L)	2132		2080		NA		NA		2580		NA		2280		2650		2030		
	Chloride (mg/L)	143		294		346		325		374		372		365		318		343		
MW-36 (Class III)	Sulfate (mg/L)	3146.21	4/18/2019	2470	5/21/2019	NA	6/3/2019	NA	7/16/2019	3170	8/6/2019	NA	9/23/2019	NA	10/8/2019	2850	11/13/2019	2590	12/3/2019	2710
	Field pH (S.U.)	6.49 - 8.5		7.05		6.73		7.01		6.60		7.33		6.92		7.05		7.24		
Required Semi-Annual Sampling Wells																				
MW-12 (Class III)	Uranium (ug/L)	23.5	4/25/2019	23.2	NS	NA	NS	NA	7/11/2019	23.1	NS	NA	NS	NA	10/23/2019	21.6	NS	NA	NS	NA
MW-24 (Class III)	Beryllium (ug/L)	2	5/2/2019	2.83	NS	NA	NS	NA	7/18/2019	2.94	NS	NA	NS	NA	11/6/2019	3.25	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		8.24		NA		NA		8.37		NA		NA		9.31		NA		NA
	Fluoride (mg/L)	0.47		0.839		NA		NA		0.996		NA		NA		0.667		NA		NA
	Nickel (mg/L)	50		63.9		NA		NA		70.6		NA		NA		75.4		NA		NA
	Manganese (ug/L)	7507		7020		NA		NA		NA		NA		NA		7700		NA		NA
	Thallium (ug/L)	2.01		2.73		NA		NA		2.61		NA		NA		2.88		NA		NA
	Sulfate (mg/L)	2903		2790		NA		NA		NA		NA		NA		2630		NA		NA
	Field pH (S.U.)	5.03 - 8.5		4.53		NA		NA		5.03		NA		NA		5.19		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	4/23/2019	6.33	NS	NA	NS	NA	7/12/2019 8/15/2019	6.50	NS	NA	NS	NA	10/22/2019	6.27	NS	NA	NS	NA
MW-28 (Class III)	Chloride (mg/L)	105	4/24/2019	165	NS	NA	NS	NA	7/12/2019 8/16/2019	133	NS	NA	NS	NA	10/22/2019	149	NS	NA	NS	NA
	Selenium (ug/L)	11.1		12.4		NA		NA		10.6		NA		NA		16.5		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		3.7		NA		NA		NA		NA		NA		5.14		NA		NA
	Gross Alpha (pCi/L)	2.42		1.94		NA		NA		1.20		NA		NA		<1.00		NA		NA
	Uranium (ug/L)	4.9		9.60		NA		NA		7.83		NA		NA		12.4		NA		NA
MW-32 (Class III)	Chloride (mg/L)	35.39	4/9/2019	34.5	NS	NA	NS	NA	8/15/2019	35.7	NS	NA	NS	NA	10/8/2019	35.3	NS	NA	NS	NA
MW-35 (Class II)	Nitrogen, Ammonia as N	0.14	4/18/2019	0.0634	NS	NA	NS	NA	7/11/2019	0.0935	NS	NA	NS	NA	10/8/2019	<0.0500	NS	NA	NS	NA

Notes:
 NS= Not Required and Not Sampled
 NA= Not Applicable
 Exceedances are shown in yellow

Table 3 – GWCL Exceedances for First Quarter 2020 under the March 19, 2019 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in March 19, 2019 GWDP	Q1 2020 Results					
			Q1 2020 Sample Date	Q1 2020 Result	February 2020 Monthly Sample Date	February 2020 Monthly Result	March 2020 Monthly Sample Date	March 2020 Monthly Result
Required Quarterly Sampling Wells								
MW-11 (Class II)	Chloride (mg/L)	39.16	1/15/2020	38.9	2/4/2020	42.1	3/10/2020	41.0
	Sulfate (mg/L)	1309		1180		1260		1120
	Manganese (ug/L)	164.67	1/28/2020	169		227		183
MW-14 (Class III)	Fluoride (mg/L)	0.22	1/15/2020	0.128	2/4/2020	0.145	3/10/2020	<0.100
	Sulfate (mg/L)	2330		2250		2190		2150
MW-25 (Class III)	Cadmium (ug/L)	1.5	1/15/2020	1.35	2/5/2020	1.52	3/11/2020	1.41
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/15/2020	0.873	2/4/2020	0.978	3/10/2020	1.60
	Chloroform (ug/L)	70		1260		1640		1720
	Chloride (mg/L)	58.31		78.8		66.9		76.9
	Methylene Chloride (ug/L)	5		2.79		2.76		4.44
	Nitrogen, Ammonia as N	0.92		0.578		0.602		0.387
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/15/2020	16.4	2/5/2020	17.8	3/11/2020	19.0
	Chloride (mg/L)	128		182		187		182
	Selenium (ug/L)	47.2		49.7		49.9		48.1
	Uranium (ug/L)	8.32		8.88		9.06		9.50
	Field pH (S.U.)	6.47 - 8.5		7.31		7.30		7.18
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/14/2020	17.5	2/4/2020	18.0	3/10/2020	19.2
	Sulfate (mg/L)	993		1120		1150		1080
	TDS (mg/L)	2132		2220		2240		2380
	Chloride (mg/L)	143		381		370		368
MW-36 (Class III)	Sulfate (mg/L)	3146.21	1/14/2020	2660	2/5/2020	2540	3/10/2020	2890
	Field pH (S.U.)	6.49 - 8.5		7.01		7.18		7.24
Required Semi-Annual Sampling Wells								
MW-12 (Class III)	Uranium (ug/L)	23.5	1/16/2020	21.9	NS	NA	NS	NA
MW-24 (Class III)	Beryllium (ug/L)	2	1/22/2020	2.07	NS	NA	NS	NA
	Cadmium (ug/L)	6.43		7.30		NA		NA
	Fluoride (mg/L)	0.47		0.805		NA		NA
	Nickel (mg/L)	50		68.1		NA		NA
	Manganese (ug/L)	7507		7010		NA		NA
	Thallium (ug/L)	2.01		1.92		NA		NA
	Sulfate (mg/L)	2903		2960		NA		NA
	Field pH (S.U.)	5.03 - 8.5		6.01		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/16/2020	6.18	NS	NA	NS	NA
MW-28 (Class III)	Chloride (mg/L)	105	1/16/2020	151	NS	NA	NS	NA
	Selenium (ug/L)	11.1		13.4		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5		NA		NA		NA
	Gross Alpha (pCi/L)	2.42		1.79		NA		NA
	Uranium (ug/L)	4.9		7.56		NA		NA
MW-32 (Class III)	Chloride (mg/L)	35.39	1/14/2020	38.0	NS	NA	NS	NA
MW-35 (Class II)	Nitrogen, Ammonia as N	0.14	1/16/2020	0.0919	NS	NA	NS	NA

Notes:

NS= Not Required and Not Sampled

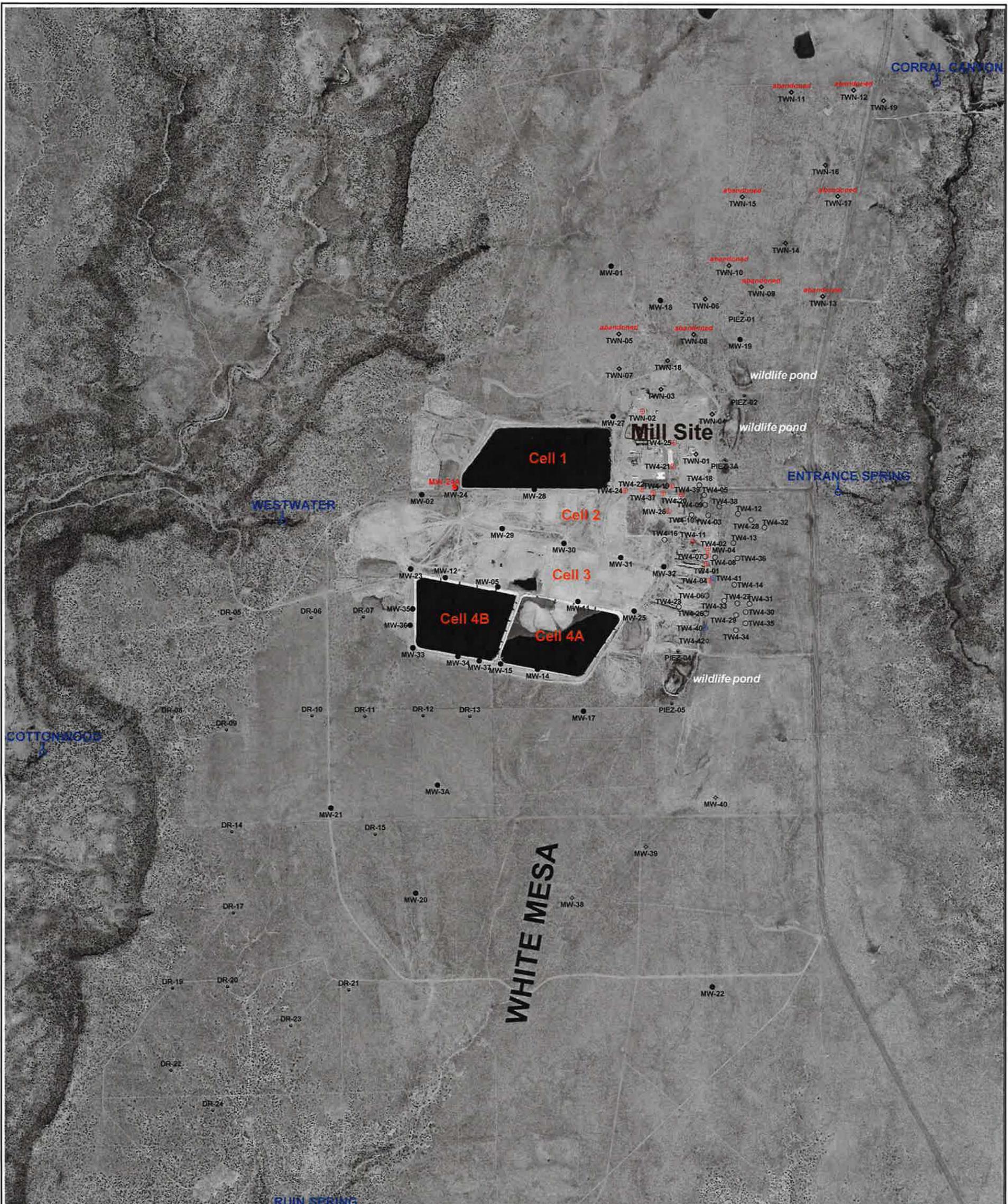
NA= Not Applicable

Exceedances are shown in yellow

Pursuant to the DWMRC letter of February 24, 2020, these constituents will no longer be monitored on an accelerated schedule. These constituents will be dropped from this report after this quarter.

Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- MW-24A perched monitoring well installed December 2019
- TW4-42 temporary perched monitoring well installed April 2019
- ⊕ TW4-40 perched chloroform pumping well installed February 2018
- ⊕ TW4-19 perched chloroform or nitrate pumping well
- MW-38 perched monitoring well installed February 2018
- MW-5 perched monitoring well
- TW4-12 temporary perched monitoring well
- ◇ TWN-7 temporary perched nitrate monitoring well
- PIEZ-1 perched piezometer

RUIN SPRING
○ seep or spring



1 mile



**HYDRO
 GEO
 CHEM, INC.**

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/Uwelloc1219.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_01152020
Purge Date & Time	1/15/2020 7:30
Sample Date & Time	1/15/2020 12:00
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.14
Calculated Casing Volumes Purge Duration (min)	268.60
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-25

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.37

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/15/2020 11:57	57.93	2890	7.72	14.13	258	5.0	6.5	
1/15/2020 11:58	58.15	2892	7.76	14.20	262	5.1	5.4	
1/15/2020 11:59	58.37	2904	7.79	14.23	265	4.8	5.8	
1/15/2020 12:00	58.59	2899	7.80	14.22	269	4.7	5.7	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	85.61
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0726. Purge began at 0730. Purged well for a total of 270 minutes. Purge ended and samples collected at 1200. Water was clear. Left site at 1210.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_01282020
Purge Date & Time	1/28/2020 7:25
Sample Date & Time	1/28/2020 11:55
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.14
Calculated Casing Volumes Purge Duration (min)	268.66
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	N/A

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

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/28/2020 11:52	57.93	2934	6.80	14.30	521	6.0	7.9	
1/28/2020 11:53	58.15	2930	6.88	14.31	494	5.9	6.0	
1/28/2020 11:54	58.37	2913	7.01	14.28	478	5.7	5.9	
1/28/2020 11:55	58.59	2916	7.08	14.30	469	5.6	5.6	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	86.95
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0720. Purge began at 0725. Purged well for a total of 270 minutes. Purge ended and sample collected at 1155. Water was clear. Left site at 1158.

Signature of Field Technician

Janner Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-12
Field Sample ID	MW-12_01162020
Purge Date & Time	1/16/2020 7:25
Sample Date & Time	1/16/2020 9:55
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	14.67
Calculated Casing Volumes Purge Duration (min)	135.23
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	-1
Previous Well Sampled	MW-14

Well Depth (ft)	130.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	107.93

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/16/2020 9:52	29.72	1080	7.08	13.44	348	0	46.9	
1/16/2020 9:53	29.94	1035	7.04	13.51	347	0	47.6	
1/16/2020 9:54	30.16	1012	7.04	13.53	345	0	48.4	
1/16/2020 9:55	30.38	1010	7.03	13.60	342	0	48.5	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	140.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Volume of water purged (gals)	30.38
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Final Depth to Water (feet)	123.12
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Name of Certified Analytical Laboratory	
AWSL	

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 0721. Purge began at 0725. Purged well for a total of 140 minutes. Purge ended and samples collected at 0955. Water was clear. Left site at 1004.

Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_01152020
Purge Date & Time	1/15/2020 12:15
Sample Date & Time	1/15/2020 15:15
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.31
Calculated Casing Volumes Purge Duration (min)	159.60
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
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)	102.18

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/15/2020 15:12	38.40	3870	6.89	14.28	270	0	1.1	
1/15/2020 15:13	38.62	3870	6.87	14.30	271	0	1.1	
1/15/2020 15:14	38.84	3869	6.86	14.25	273	0	1.0	
1/15/2020 15:15	39.06	3870	6.85	14.25	274	0	1.0	

Volume of water purged (gals)	39.06
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Final Depth to Water (feet)	102.63
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 1213. Purge began at 1215. Purged well for a total of 180 minutes. Purge ended and samples collected at 1515. Water was clear. Left site at 1525.

Signature of Field Technician

Jarvis Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_01222020
Purge Date & Time	1/21/2020 12:43
Sample Date & Time	1/22/2020 9:30

Sampling Program	
Sampling Event	2020 Q1 GW

Sampler	TH/DL
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Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	5.89
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Snowing
External Ambient Temperature (C)	2
Previous Well Sampled	MW-38

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.98

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/21/2020 12:53	5.00	4354	6.03	13.85	493	572	77.4	
1/22/2020 9:29		4398	6.06	12.89				Before
1/22/2020 9:31		4400	6.01	12.95				After

Volume of water purged (gals)	11.00
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Final Depth to Water (feet)	120.00
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.86
Volume, if well evacuated to dryness (gals)	11.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
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
Total Dissolved Solids	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 1240. Bailing began at 1243. Bailed a total of 11 gallons from well. Bailed well dry. Water was dirty brown with brown and grey sand particles. Left site at 1310. Arrived on site at 0925. Depth to water was 111.96. Samples bailed and collected at 0930. Left site at 0935.

Signature of Field Technician

Jarrett Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-24A
Field Sample ID	MW-24A_01212020
Purge Date & Time	1/21/2020 8:15
Sample Date & Time	1/21/2020 9:25

Sampling Program	
Sampling Event	2020 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	6.58
Calculated Casing Volumes Purge Duration (min)	63.29
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Snowing
External Ambient Temperature (C)	0
Previous Well Sampled	MW-40

Well Depth (ft)	122.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	111.92

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/21/2020 9:22	13.93	4302	4.94	12.30	413	6.8	81.6	
1/21/2020 9:23	14.14	4302	4.95	12.29	415	7.0	81.4	
1/21/2020 9:24	14.35	4300	4.95	12.30	417	7.3	81.4	
1/21/2020 9:25	14.56	4298	4.96	12.29	419	7.5	81.5	

Volume of water purged (gals)	14.56
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Final Depth to Water (feet)	118.25
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.208
Time to evacuate 2 Casing Volumes (min)	70.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
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
Total Dissolved Solids	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 70 minutes. Purge ended and samples collected at 0925. Water was mostly clear. Left site at 0940.

Signature of Field Technician

Danner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_01152020
Purge Date & Time	1/15/2020 7:20
Sample Date & Time	1/15/2020 10:55
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.78
Calculated Casing Volumes Purge Duration (min)	210.04
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-36

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.10

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/15/2020 10:52	46.00	3139	6.98	14.32	259	0	5.0	
1/15/2020 10:53	46.22	3136	6.98	14.36	260	0	4.9	
1/15/2020 10:54	46.43	3136	7.01	14.39	262	0	4.8	
1/15/2020 10:55	46.65	3140	7.00	14.39	264	0	4.7	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	82.05
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0717. Purge began at 0720. Purged well for a total of 215 minutes. Purge ended and samples collected at 1055. Water was clear. Left site at 1105.

Signature of Field Technician

Janice Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_01152020
Purge Date & Time	1/15/2020 8:59
Sample Date & Time	1/15/2020 9:00
Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	30.56
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	0
Previous Well Sampled	MW-11

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.53

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
1/15/2020 8:59		3478	6.76	15.53	292	0	13.7	

Volume of water purged ()	
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Final Depth to Water (feet)	98.21
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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 Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y

Comments:

Arrived on site at 0856. Samples collected at 0900. Water was clear. Left site at 0907.

Signature of Field Technician

Jurnee Holliday

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-27
Field Sample ID	MW-27_01162020
Purge Date & Time	1/16/2020 9:00
Sample Date & Time	1/16/2020 13:00
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.81
Calculated Casing Volumes Purge Duration (min)	228.70
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	0
Previous Well Sampled	MW-35

Well Depth (ft)	95.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	57.00

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
1/16/2020 12:57	51.42	1093	7.61	14.45	345	0	100.0	
1/16/2020 12:58	51.64	1101	7.57	14.20	350	0	99.6	
1/16/2020 12:59	51.86	1091	7.55	14.34	354	0	99.0	
1/16/2020 13:00	52.08	1090	7.53	14.36	355	0	99.3	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	58.40
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	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?
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0855. Purge began at 0900. Purged well for a total of 240 minutes. Purge ended and samples collected at 1300. Water was clear. Left site at 1304.

Signature of Field Technician

Janner Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-28
Field Sample ID	MW-28_01162020
Purge Date & Time	1/16/2020 10:15
Sample Date & Time	1/16/2020 14:15
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.02
Calculated Casing Volumes Purge Duration (min)	212.20
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	2
Previous Well Sampled	MW-27

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.74

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/16/2020 14:12	51.42	4036	6.71	12.55	375	0	26.3	
1/16/2020 14:13	51.64	4045	6.71	12.60	373	0	26.0	
1/16/2020 14:14	51.86	4032	6.70	12.63	371	0	25.8	
1/16/2020 14:15	52.08	4041	6.70	12.68	371	0	25.5	

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

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	77.84
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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
Gross Alpha	Y	WATER	1	250-mL HDPE	Y	HNO3	Y
Heavy Metals - U and Se only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 1012. Purge began at 1015. Purged well for a total of 240 minutes. Purge ended and samples collected at 1415. Water was clear. Left site at 1422.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_01152020
Purge Date & Time	1/15/2020 11:10
Sample Date & Time	1/15/2020 14:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.80
Calculated Casing Volumes Purge Duration (min)	210.16
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
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)	75.08

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/15/2020 14:42	46.00	2167	7.37	14.54	258	0	57.8	
1/15/2020 14:43	46.22	2174	7.34	14.56	262	0	58.0	
1/15/2020 14:44	46.43	2148	7.31	14.52	265	0	56.5	
1/15/2020 14:45	46.65	2150	7.31	14.50	270	0	56.0	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	77.50
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 1107. Purge began at 1110. Purged well for a total of 215 minutes. Purge ended and samples collected at 1445. Water was clear. Left site at 1455.

Signature of Field Technician

Jurnee Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_01142020
Purge Date & Time	1/14/2020 8:00
Sample Date & Time	1/14/2020 14:10
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.92
Calculated Casing Volumes Purge Duration (min)	367.96
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.86

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/14/2020 14:07	79.63	3061	6.80	14.50	374	0	111.0	
1/14/2020 14:08	79.85	3066	6.90	14.52	373	0	111.0	
1/14/2020 14:09	80.07	3061	6.93	14.46	372	0	109.5	
1/14/2020 14:10	80.29	3065	6.97	14.45	371	0	108.5	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	72.70
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0756. Purge began at 0800. Purged well for a total of 370 minutes. Purge ended and samples collected at 1410. Water was clear. Left site at 1422.

Signature of Field Technician

Jarvis Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_01142020
Purge Date & Time	1/14/2020 8:05
Sample Date & Time	1/14/2020 13:10

Sampling Program	
Sampling Event	2020 Q1 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	32.61
Calculated Casing Volumes Purge Duration (min)	300.62
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Clear
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-31

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.65

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
1/14/2020 13:07	65.53	3687	6.55	14.48	251	880	4.8	
1/14/2020 13:08	65.75	3691	6.58	14.27	246	865	4.6	
1/14/2020 13:09	65.96	3689	6.60	14.20	240	853	4.5	
1/14/2020 13:10	66.18	3688	6.58	14.23	240	845	4.4	

Volume of water purged (gals)	66.18
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Final Depth to Water (feet)	86.38
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	305.00
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 0804. Purge began at 0805. Purged well for a total of 305 minutes. Purge ended and samples collected at 1310. Water was murky with little bubbles surfacing. Left site at 1312.

Signature of Field Technician

Jarner Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-35
Field Sample ID	MW-35_01162020
Purge Date & Time	1/16/2020 7:30
Sample Date & Time	1/16/2020 8:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.86
Calculated Casing Volumes Purge Duration (min)	72.52
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Cloudy
External Ambient Temperature (C)	-1
Previous Well Sampled	MW-12

Well Depth (ft)	124.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	112.45

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/16/2020 8:42	15.62	3996	6.86	13.80	301	0	2.7	
1/16/2020 8:43	15.84	3991	6.85	13.76	298	0	2.7	
1/16/2020 8:44	16.05	3985	6.84	13.79	294	0	2.7	
1/16/2020 8:45	16.27	3990	6.84	13.80	292	0	2.6	

Volume of water purged (gals)	16.27
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Final Depth to Water (feet)	113.10
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Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Ammonia	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0728. Purge began at 0730. Purged well for a total of 75 minutes. Purge ended and sample collected at 0845. Water was clear. Left site at 0850.

Signature of Field Technician

Janner Holliday

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



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_01142020
Purge Date & Time	1/14/2020 13:20
Sample Date & Time	1/14/2020 14:35
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.26
Calculated Casing Volumes Purge Duration (min)	66.92
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	5
Previous Well Sampled	MW-32

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.48

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/14/2020 14:32	15.62	2221	6.92	14.18	391	0	77.0	
1/14/2020 14:33	15.84	2202	6.96	14.16	391	0	77.0	
1/14/2020 14:34	16.05	2200	6.99	14.10	392	0	77.0	
1/14/2020 14:35	16.27	2189	7.01	14.10	392	0	77.1	

Volume of water purged (gals)	16.27
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Final Depth to Water (feet)	111.21
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Name of Certified Analytical Laboratory	AWSL
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Analytical Samples Information

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

Comments:

Arrived on site at 1318. Purge began at 1320. Purged well for a total of 75 minutes. Purge ended and samples collected at 1435. Water was clear. Left site at 1445.

Signature of Field Technician

Junner Holliday

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



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-38
Field Sample ID	MW-38_01222020
Purge Date & Time	1/21/2020 12:10
Sample Date & Time	1/22/2020 8:00
Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	2.61
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Snowing
External Ambient Temperature (C)	2
Previous Well Sampled	MW-24A

Well Depth (ft)	74.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.40

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/21/2020 12:21	5.00	4314	6.16	13.86	504	53.0	81.0	
1/22/2020 7:59		4307	7.27	14.71				Before
1/22/2020 8:01		4312	7.27	14.75				After

Volume of water purged (gals)	5.00
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Final Depth to Water (feet)	74.40
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Name of Certified Analytical Laboratory	GEL
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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
General Inorganics	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs - Full Suite for GW	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Heavy Metals - Full Suite	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 1210. Started bailing well at 1215. Bailed a total of 5 gallons from well. Bailed well dry. Water started clear and got murky as bailing progressed. Left site at 1224. Arrived on site at 0755. Depth to water was 70.53. Samples bailed and collected at 0800. Left site at 0803.

Signature of Field Technician

Janner Holliday

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.91
Volume, if well evacuated to dryness (gals)	5.00



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-39
Field Sample ID	MW-39_01202020
Purge Date & Time	1/20/2020 7:45
Sample Date & Time	1/20/2020 11:25
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.22
Calculated Casing Volumes Purge Duration (min)	223.28
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-28

Well Depth (ft)	102.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	65.40

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
1/20/2020 11:22	48.17	4600	4.21	14.13	472	0	3.4	
1/20/2020 11:23	48.39	4593	4.20	14.12	482	0	3.5	
1/20/2020 11:24	48.60	4599	4.19	14.14	488	0	3.4	
1/20/2020 11:25	48.82	4600	4.19	14.14	489	0	3.4	

Volume of water purged (gals)	48.82
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Final Depth to Water (feet)	69.50
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	225.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:

Arrived on site at 0742. Purge began at 0740. Purged well for a total of 225 minutes. Purge ended and samples collected at 1125. Water was clear. Left site at 1135.

Signature of Field Technician

Janner Holliday



White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-40
Field Sample ID	MW-40_01202020
Purge Date & Time	1/20/2020 7:55
Sample Date & Time	1/20/2020 11:55
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	25.96
Calculated Casing Volumes Purge Duration (min)	239.35
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-3
Previous Well Sampled	MW-39

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.23

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
1/20/2020 11:52	51.42	3898	6.82	14.11	339	0	98.0	
1/20/2020 11:53	51.64	3893	6.85	14.10	342	0	95.1	
1/20/2020 11:54	51.86	3890	6.86	14.05	345	0	93.5	
1/20/2020 11:55	52.08	3893	6.88	14.04	346	0	93.0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	81.20
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	240.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:

Arrived on site at 0751. Purge began at 0755. Purged well for a total of 240 minutes. Purge ended and samples collected at 1155. Water was clear. Left site at 1210.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_01202020
Purge Date & Time	
Sample Date & Time	1/20/2020 11:55
Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Sampling Program	
Sampling Event	2020 Q1 GW
Sampler	TH/DL
Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	
Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
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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?
Total Dissolved Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y
Nutrients	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 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
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-40

Signature of Field Technician

Janner Holliday

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

February 2020



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_02042020
Purge Date & Time	2/4/2020 8:05
Sample Date & Time	2/4/2020 12:35

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

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
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Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-8
Previous Well Sampled	MW-31

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

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/4/2020 12:32	57.93	2971	7.51	13.88	266	210	10.1	
2/4/2020 12:33	58.15	2971	7.56	13.90	266	215	10.0	
2/4/2020 12:34	58.37	2972	7.58	13.88	267	220	9.5	
2/4/2020 12:35	58.59	2976	7.60	13.89	266	233	9.1	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	86.10
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Heavy Metals - Mn only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 0800. Purge began at 0805. Purged well for a total of 270 minutes. Purge ended and samples collected at 1235. Water was mostly clear with a bunch of tiny little bubbles surfacing. Left site at 1240.

Signature of Field Technician

Jarnez Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_02042020
Purge Date & Time	2/4/2020 12:50
Sample Date & Time	2/4/2020 15:35
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.46
Calculated Casing Volumes Purge Duration (min)	160.93
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	Clear and windy
External Ambient Temperature (C)	-4
Previous Well Sampled	MW-26

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	101.96

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
2/4/2020 15:32	35.15	3850	6.90	13.72	293	0	4.9	
2/4/2020 15:33	35.37	3851	6.88	13.77	295	0	4.8	
2/4/2020 15:34	35.58	3849	6.87	13.81	296	0	4.8	
2/4/2020 15:35	35.80	3849	6.88	13.78	298	0	4.7	

Volume of water purged (gals)	35.80
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Final Depth to Water (feet)	102.31
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	165.00
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?
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Fluoride	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 1246. Purge began at 1250. Purged well for a total of 165 minutes. Purge ended and samples collected at 1535. Water was clear. Left site at 1538.
--

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_02052020
Purge Date & Time	2/5/2020 7:10
Sample Date & Time	2/5/2020 11:10
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.85
Calculated Casing Volumes Purge Duration (min)	210.64
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-8
Previous Well Sampled	MW-14

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.00

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/5/2020 11:07	51.42	3145	7.00	14.08	359	0	9.0	
2/5/2020 11:08	51.64	3143	6.97	14.13	359	1.0	8.0	
2/5/2020 11:09	51.86	3137	6.95	14.13	360	1.1	8.0	
2/5/2020 11:10	52.08	3135	6.95	14.05	361	1.1	7.7	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	82.00
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	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?
Heavy Metals - Cd only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y

Comments:

Arrived on site at 0705. Purge began at 0710. Purged well for a total of 240 minutes. Purge ended and samples collected at 1110. Water was clear. Left site at 1113.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_02042020
Purge Date & Time	2/4/2020 9:27
Sample Date & Time	2/4/2020 9:30
Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	30.11
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-4
Previous Well Sampled	MW-11

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.21

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
2/4/2020 9:34		3404	6.88	16.34	319	0	14.3	

Volume of water purged ()	
Final Depth to Water (feet)	95.45
Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
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 - ChCl3 and MeCl2	Y	WATER	3	4oz glass jar	U	HCl (pH<2), 4 Deg C	Y
Ammonia	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0925. Samples collected at 0930. Water was clear.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_02052020
Purge Date & Time	2/5/2020 9:10
Sample Date & Time	2/5/2020 12:45

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.92
Calculated Casing Volumes Purge Duration (min)	211.24
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly

Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-7
Previous Well Sampled	MW-36

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.90

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
2/5/2020 12:42	46.00	2144	7.32	14.17	365	0	61.3	
2/5/2020 12:43	46.22	2134	7.32	14.30	367	0	60.0	
2/5/2020 12:44	46.43	2139	7.31	14.25	370	0	58.0	
2/5/2020 12:45	46.65	2139	7.30	14.24	372	0	57.2	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	77.31
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0906. Purge began at 0910. Purged well for a total of 215 minutes. Purge ended and samples collected at 1245. Water was clear. Left site at 1254.

Signature of Field Technician

Turner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_02042020
Purge Date & Time	2/4/2020 7:55
Sample Date & Time	2/4/2020 14:05
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.93
Calculated Casing Volumes Purge Duration (min)	368.02
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-8
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.85

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen	Before/After
2/4/2020 14:02	79.63	3061	7.22	13.90	277	0	113.0	
2/4/2020 14:03	79.85	3058	7.24	13.95	282	0	113.0	
2/4/2020 14:04	80.07	3063	7.26	14.00	285	0	112.8	
2/4/2020 14:05	80.29	3062	7.26	14.02	288	0	112.2	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	72.59
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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 Solids	Y	WATER	1	250-mL HDPE	U	4 Deg C	Y

Comments:

Arrived on site at 0752. Purge began at 0755. Purged well for a total of 370 minutes. Purge ended and samples collected at 1405. Water was clear. Left site at 1411.

Signature of Field Technician

Turner Holliday

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



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_02052020
Purge Date & Time	2/5/2020 7:15
Sample Date & Time	2/5/2020 8:30
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.24
Calculated Casing Volumes Purge Duration (min)	66.80
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	Partly cloudy
External Ambient Temperature (C)	-8
Previous Well Sampled	MW-25

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.50

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
2/5/2020 8:27	15.62	4830	7.20	13.87	343	0	79.0	
2/5/2020 8:28	15.84	4824	7.19	13.77	344	0	78.9	
2/5/2020 8:29	16.05	4833	7.19	13.75	345	0	78.2	
2/5/2020 8:30	16.27	4837	7.18	13.74	346	0	78.0	

Volume of water purged (gals)	16.27
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Final Depth to Water (feet)	111.25
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Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 0712. Purge began at 0715. Purged well for a total of 75 minutes. Purge ended and samples collected at 0830. Water was clear. Left site at 0835.

Signature of Field Technician

Turner Holliday

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



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_02052020
Purge Date & Time	
Sample Date & Time	2/5/2020 12:45
Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Sampling Program	
Sampling Event	February Monthly
Sampler	TH/DL
Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

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

Date/Time	Gallons Purged	Conductivity	pH	Temp	Redox	Turbidity	Dissolved Oxygen	Before/After
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Volume of water purged ()

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 - 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:

Duplicate of MW-30

Signature of Field Technician

Jurnee Holliday

Tab C2

Field Data Worksheets Accelerated Monitoring

March 2020



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_03102020
Purge Date & Time	3/10/2020 7:20
Sample Date & Time	3/10/2020 11:50

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.09
Calculated Casing Volumes Purge Duration (min)	268.12
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-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.45

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/10/2020 11:47	57.93	2896	7.46	14.12	281	49.1	7.4	
3/10/2020 11:48	58.15	2902	7.52	14.10	282	48.0	7.0	
3/10/2020 11:49	58.37	2904	7.57	14.11	283	47.0	6.9	
3/10/2020 11:50	58.59	2910	7.58	14.10	284	45.0	6.7	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	87.12
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	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?
Heavy Metals - Mn only	Y	WATER	1	250-mL HDPE	Y	HNO3 (pH<2)	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 0717. Purge began at 0720. Purged well for a total of 270 minutes. Purge ended and samples collected at 1150. Water was mostly clear with tiny little bubbles surfacing. Left site at 1154.

Signature of Field Technician

Jarner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_03102020
Purge Date & Time	3/10/2020 12:00
Sample Date & Time	3/10/2020 14:40

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.23
Calculated Casing Volumes Purge Duration (min)	158.88
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	11
Previous Well Sampled	MW-26

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	102.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/10/2020 14:37	55.76	3826	6.97	14.35	459	1.2	5.2	
3/10/2020 14:38	55.98	3823	6.94	14.23	459	1.0	5.0	
3/10/2020 14:39	56.20	3829	6.92	14.22	459	1.0	4.9	
3/10/2020 14:40	56.42	3820	6.92	14.20	459	1.0	4.9	

Volume of water purged (gals)	34.72
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Final Depth to Water (feet)	102.70
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	160.00
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?
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N
Fluoride	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 1157. Purge began at 1200. Purged well for a total of 160 minutes. Purge ended and samples collected at 1440. Water was clear. Left site at 1445.
--

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_03112020
Purge Date & Time	3/11/2020 7:35
Sample Date & Time	3/11/2020 11:35

Sampling Program	
Sampling Event	March Monthly

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

Weather Conditions	Raining
External Ambient Temperature (C)	5
Previous Well Sampled	MW-30

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.30

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/11/2020 11:32	51.42	3117	7.07	14.22	475	1.6	9.8	
3/11/2020 11:33	51.64	3115	7.05	14.22	476	1.5	8.8	
3/11/2020 11:34	51.86	3113	7.02	14.23	476	1.5	8.3	
3/11/2020 11:35	52.08	3110	7.00	14.23	477	1.4	8.0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	81.87
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	240.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:
Arrived on site at 0732. Purge began at 0735. Purged well for a total of 240 minutes. Purge ended and sample collected at 1135. Water was clear. Left site at 1139.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_03102020
Purge Date & Time	3/10/2020 8:57
Sample Date & Time	3/10/2020 9:00

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	30.18
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

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

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.11

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/10/2020 8:59		3436	6.94	16.40	310	0	16.8	

Volume of water purged ()	
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Final Depth to Water (feet)	84.96
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
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 - ChCl3 and MeCl2	Y	WATER	3	4oz glass jar	U	HCl (pH<2), 4 Deg C	Y
Ammonia	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:
Arrived on site at 0855. Samples collected at 0900. Water was clear. Left site at 0905.

Signature of Field Technician

Junee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_03112020
Purge Date & Time	3/11/2020 7:25
Sample Date & Time	3/11/2020 11:00

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.76
Calculated Casing Volumes Purge Duration (min)	209.80
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Raining
External Ambient Temperature (C)	5
Previous Well Sampled	MW-36

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.14

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/11/2020 10:57	44.91	2152	7.19	14.20	474	0	54.5	
3/11/2020 10:58	45.13	2150	7.18	14.20	474	0	54.3	
3/11/2020 10:59	45.35	2148	7.18	14.20	475	0	54.1	
3/11/2020 11:00	45.57	2146	7.18	14.21	475	0	54.0	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.20
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

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

Analytical Samples Information

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

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 1107.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_03102020
Purge Date & Time	3/10/2020 7:15
Sample Date & Time	3/10/2020 13:25

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.73
Calculated Casing Volumes Purge Duration (min)	366.22
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

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

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.15

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/10/2020 13:22	79.63	3074	7.01	14.39	313	0	110.5	
3/10/2020 13:23	79.85	3077	7.09	14.39	317	0	110.6	
3/10/2020 13:24	80.07	3077	7.13	14.40	320	0	110.5	
3/10/2020 13:25	80.29	3079	7.15	14.40	323	0	110.0	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	73.01
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0710. Purge began at 0715. Purged well for a total of 370 minutes. Purge ended and samples collected at 1325. Water was clear. Left site at 1331.
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Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_03102020
Purge Date & Time	3/10/2020 13:45
Sample Date & Time	3/10/2020 15:00

Sampling Program	
Sampling Event	March Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.10
Calculated Casing Volumes Purge Duration (min)	65.48
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	10
Previous Well Sampled	MW-14

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.72

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/10/2020 14:57	15.62	4768	7.27	14.15	463	0	77.0	
3/10/2020 14:58	15.84	4788	7.25	14.14	466	0	75.4	
3/10/2020 14:59	16.05	4791	7.25	14.11	469	0	74.9	
3/10/2020 15:00	16.27	4795	7.24	14.11	471	0	74.9	

Volume of water purged (gals)	16.27
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Final Depth to Water (feet)	111.75
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Sulfate	Y	WATER	1	250-mL HDPE	U	None	N

Comments:

Arrived on site at 1341. Purge began at 1345. Purged well for a total of 75 minutes. Purge ended and sample collected at 1500. Water was clear. Left site at 1503.
--

Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_03102020
Purge Date & Time	
Sample Date & Time	3/10/2020 13:25

Sampling Program	
Sampling Event	March Monthly

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

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

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

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

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Duplicate of MW-31

Signature of Field Technician

Turner Holliday

Tab D
Quarterly Depth to Water

Name: Deen Lyman

Date: 2/10/2020-2/13/2020

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)
2/13/2020	1331	MW-01	64.75	2/10/2020	937	MW-04	96.54	2/13/2020	1243	PIEZ-01	66.68
2/13/2020	1413	MW-02	109.63	2/10/2020	943	TW4-01	105.46	2/13/2020	1232	PIEZ-02	44.39
2/13/2020	1011	MW-03A	84.01	2/10/2020	931	TW4-02	108.12	2/13/2020	1339	PIEZ-03A	55.48
2/13/2020	1427	MW-05	108.34	2/10/2020	1241	TW4-03	62.88	2/13/2020	920	PIEZ-04	65.18
2/13/2020	1431	MW-11	85.23	2/10/2020	956	TW4-04	79.09	2/13/2020	927	PIEZ-05	64.31
2/13/2020	1423	MW-12	107.81	2/10/2020	1252	TW4-05	70.20	2/13/2020	1322	TWN-01	67.55
2/13/2020	1459	MW-14	102.04	2/10/2020	1226	TW4-06	77.44	2/13/2020	840	TWN-02	49.00
2/13/2020	1455	MW-15	105.48	2/10/2020	1230	TW4-07	83.04	2/13/2020	1345	TWN-03	42.17
2/13/2020	946	MW-17	71.82	2/10/2020	1233	TW4-08	85.87	2/13/2020	1335	TWN-04	60.53
2/13/2020	1318	MW-18	73.32	2/10/2020	1248	TW4-09	68.21	2/13/2020	1314	TWN-06	80.02
2/13/2020	1239	MW-19	65.04	2/10/2020	1255	TW4-10	67.63	2/13/2020	1325	TWN-07	82.14
2/13/2020	1046	MW-20	87.09	2/10/2020	925	TW4-11	90.02	2/13/2020	1302	TWN-14	59.80
2/13/2020	1035	MW-22	62.41	2/10/2020	1451	TW4-12	54.21	2/13/2020	1255	TWN-16	47.68
2/13/2020	1413	MW-23	113.92	2/10/2020	1448	TW4-13	55.55	2/13/2020	1329	TWN-18	61.91
2/13/2020	1359	MW-24	112.05	2/10/2020	1441	TW4-14	77.46	2/13/2020	1235	TWN-19	53.67
2/13/2020	1505	MW-25	80.05	2/10/2020	1258	TW4-16	72.00	2/13/2020	1105	DR-05	83.25
2/13/2020	917	MW-26	73.07	2/10/2020	1319	TW4-18	71.25	2/13/2020	1100	DR-06	94.16
2/13/2020	1351	MW-27	56.84	2/10/2020	1230	TW4-19	69.68	2/13/2020	1434	DR-07	92.03
2/13/2020	1405	MW-28	74.56	2/10/2020	905	TW4-20	78.88	2/13/2020	1122	DR-08	51.37
2/13/2020	724	MW-29	107.74	2/10/2020	818	TW4-21	78.30	2/13/2020	1115	DR-09	86.62
2/13/2020	907	MW-30	74.93	2/10/2020	855	TW4-22	70.95	2/13/2020	1055	DR-10	78.44
2/13/2020	901	MW-31	68.81	2/10/2020	1214	TW4-23	74.11	2/13/2020	1001	DR-11	97.98
2/13/2020	855	MW-32	80.67	2/10/2020	848	TW4-24	64.21	2/13/2020	956	DR-12	91.85
2/13/2020	1426	MW-33	DRY	2/10/2020	834	TW4-25	72.14	2/13/2020	952	DR-13	69.72
2/13/2020	1444	MW-34	107.55	2/10/2020	1223	TW4-26	71.95	2/13/2020	1133	DR-14	76.28
2/13/2020	1420	MW-35	112.36	2/10/2020	1417	TW4-27	78.65	2/13/2020	1020	DR-15	92.78
2/13/2020	1423	MW-36	110.55	2/10/2020	1455	TW4-28	47.11	2/13/2020	1143	DR-17	64.72
2/13/2020	1448	MW-37	106.43	2/10/2020	1438	TW4-29	76.94	2/13/2020	1150	DR-19	63.32
2/13/2020	1038	MW-38	70.51	2/10/2020	1425	TW4-30	74.69	2/13/2020	1147	DR-20	55.55
2/13/2020	1030	MW-39	65.05	2/10/2020	1420	TW4-31	76.28	2/13/2020	1216	DR-21	100.78
2/13/2020	936	MW-40	79.83	2/10/2020	1458	TW4-32	54.80	2/13/2020	1157	DR-22	DRY
				2/10/2020	1414	TW4-33	76.51	2/13/2020	1221	DR-23	70.51
				2/10/2020	1433	TW4-34	75.16	2/13/2020	1201	DR-24	44.40
				2/10/2020	1428	TW4-35	74.70				
				2/10/2020	1445	TW4-36	57.27				
				2/10/2020	859	TW4-37	73.68				
				2/10/2020	1244	TW4-38	58.32				
				2/10/2020	909	TW4-39	81.17				
				2/10/2020	1016	TW4-40	72.01				
				2/10/2020	950	TW4-41	76.29				
				2/10/2020	1409	TW4-42	67.87				

MW-26 = TW4-15

MW-32 = TW4-17

Comments:

Tab E

Laboratory Analytical Reports – Quarterly Sampling



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-004
Client Sample ID: MW-11_01152020
Collection Date: 1/15/2020 1200h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1315h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1251h	E200.7	20.0	85.6	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1335h	E200.7	1.00	28.2	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.0100	0.169	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1509h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1335h	E200.7	1.00	7.78	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1251h	E200.7	20.0	572	2
Thallium	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2102h	E200.8	0.000300	0.000824	
Vanadium	mg/L	1/20/2020 1017h	1/30/2020 1256h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1239h	E200.8	0.0100	< 0.0100	

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-004
Client Sample ID: MW-11_01152020
Collection Date: 1/15/2020 1200h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1410h	E350.1	0.0500	0.637	
Bicarbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	310	
Carbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		2/11/2020 1221h	SM4500-Cl-E	5.00	38.9	
Fluoride	mg/L		1/23/2020 812h	E300.0	0.200	0.233	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	-0.290	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1037h	E353.2	0.100	0.308	
Sulfate	mg/L		1/22/2020 1726h	E300.0	75.0	1,180	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		31.9	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		31.7	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	1,920	@
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		0.913	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		2,100	

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

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-004A
Client Sample ID: MW-11_01152020
Collection Date: 1/15/2020 1200h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 851h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West

Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.1	50.00	110	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.1	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.7	50.00	105	72-135	
Surr: Toluene-d8		2037-26-5	50.3	50.00	101	80-124	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 17, 2020

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_01282020	Project: DNMI00100
Sample ID: 502847001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-JAN-20 11:55	
Receive Date: 31-JAN-20	
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	+/-0.274	0.669	1.00	pCi/L			LXB3	02/14/20	1432	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			79.4	(25%-125%)

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-001
Client Sample ID: MW-12_01162020
Collection Date: 1/16/2020 955h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2052h	E200.8	0.000300	0.0219	

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Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-005
Client Sample ID: MW-14_01152020
Collection Date: 1/15/2020 1515h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1319h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.000500	0.00136	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1303h	E200.7	20.0	529	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1303h	E200.7	20.0	165	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.0100	1.85	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1519h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1343h	E200.7	1.00	13.6	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1303h	E200.7	20.0	360	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2105h	E200.8	0.000300	0.0546	
Vanadium	mg/L	1/20/2020 1017h	1/30/2020 1315h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1243h	E200.8	0.0100	0.0127	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-005
Client Sample ID: MW-14_01152020
Collection Date: 1/15/2020 1515h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1410h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	380	
Carbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 2104h	E300.0	1.00	19.8	
Fluoride	mg/L		2/5/2020 2051h	E300.0	0.100	0.128	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	0.993	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1038h	E353.2	0.100	< 0.100	
Sulfate	mg/L		1/22/2020 1816h	E300.0	150	2,250	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		54.9	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		56.0	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	3,370	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		0.947	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		3,560	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-005A
Client Sample ID: MW-14_01152020
Collection Date: 1/15/2020 1515h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1013h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.5	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.1	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	49.5	50.00	99.0	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01152020	Project: DNMI00100
Sample ID: 502102003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-JAN-20 15:15	
Receive Date: 24-JAN-20	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.253	0.657	1.00	pCi/L			LXB3	02/14/20	1426	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			79.8	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-001
Client Sample ID: MW-24_01222020
Collection Date: 1/22/2020 930h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1602h	E200.8	0.000500	0.00207	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.000500	0.00730	
Calcium	mg/L	1/24/2020 1004h	2/6/2020 1623h	E200.7	10.0	515	
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0100	0.115	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1525h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2020 1004h	2/3/2020 2028h	E200.8	0.0300	0.0698	
Lead	mg/L	1/24/2020 1004h	2/3/2020 2028h	E200.8	0.00100	0.00160	
Magnesium	mg/L	1/24/2020 1004h	2/6/2020 1623h	E200.7	10.0	199	
Manganese	mg/L	1/24/2020 1004h	2/3/2020 2001h	E200.8	0.0100	7.01	
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1756h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0200	0.0681	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1429h	E200.7	1.00	13.1	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.00500	0.00816	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2020 1004h	2/6/2020 1623h	E200.7	10.0	542	
Thallium	mg/L	1/24/2020 1004h	2/3/2020 2028h	E200.8	0.000500	0.00192	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2028h	E200.8	0.000300	0.00489	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1429h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1556h	E200.8	0.0100	0.143	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-001
Client Sample ID: MW-24_01222020
Collection Date: 1/22/2020 930h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1625h	E350.1	0.0500	0.118	
Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	10.0	
Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/28/2020 059h	E300.0	1.00	47.8	
Fluoride	mg/L		1/28/2020 059h	E300.0	0.500	0.805	
Ion Balance	%		2/6/2020 1558h	Calc.	-100	2.24	
Nitrate/Nitrite (as N)	mg/L		1/24/2020 919h	E353.2	0.100	0.332	
Sulfate	mg/L		1/27/2020 2138h	E300.0	150	2,960	
Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		63.1	
Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		66.0	
Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	4,180	
Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		0.975	
Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		4,280	

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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-001A
Client Sample ID: MW-24_01222020
Collection Date: 1/22/2020 930h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1725h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.6	50.00	111	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.2	50.00	98.3	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.7	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	50.0	50.00	100	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01222020	Project: DNMI00100
Sample ID: 502102004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 22-JAN-20 09:30	
Receive Date: 24-JAN-20	
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		4.95	+/-0.672	0.865	1.00	pCi/L			LXB3	02/14/20	1424	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			80.1	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-002
Client Sample ID: MW-24A_01212020
Collection Date: 1/21/2020 925h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1605h	E200.8	0.000500	0.00396	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.000500	0.00930	
Calcium	mg/L	1/24/2020 1004h	2/5/2020 1452h	E200.7	10.0	492	
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0100	0.138	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1528h	E200.8	0.0100	0.0122	
Iron	mg/L	1/24/2020 1004h	2/3/2020 2031h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2020 1004h	2/5/2020 1652h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2020 1004h	2/5/2020 1452h	E200.7	10.0	196	
Manganese	mg/L	1/24/2020 1004h	2/3/2020 2005h	E200.8	0.0100	7.43	
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1806h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0200	0.0650	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1432h	E200.7	1.00	12.7	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.00500	0.00887	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2020 1004h	2/5/2020 1452h	E200.7	10.0	498	
Thallium	mg/L	1/24/2020 1004h	2/5/2020 1652h	E200.8	0.000500	0.00123	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/5/2020 1652h	E200.8	0.000300	0.00543	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1432h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1559h	E200.8	0.0100	0.125	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-002
Client Sample ID: MW-24A_01212020
Collection Date: 1/21/2020 925h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1635h	E350.1	0.0500	0.174	
Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	5.20	
Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/28/2020 116h	E300.0	1.00	47.5	
Fluoride	mg/L		1/28/2020 116h	E300.0	1.00	1.41	
Ion Balance	%		2/6/2020 1558h	Calc.	-100	-3.14	
Nitrate/Nitrite (as N)	mg/L		1/24/2020 920h	E353.2	0.100	0.189	
Sulfate	mg/L		1/27/2020 2155h	E300.0	375	3,130	
Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		66.7	
Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		62.6	
Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	4,420	
Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		1.01	
Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		4,380	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-002A
Client Sample ID: MW-24A_01212020
Collection Date: 1/21/2020 925h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1745h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	47.7	50.00	95.3	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.3	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.3	80-124	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 25, 2020

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_01212020	Project: DNMI00100
Sample ID: 502102005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 21-JAN-20 09:25	
Receive Date: 24-JAN-20	
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		2.10	+/-0.532	0.917	1.00	pCi/L			LXB3	02/14/20	1424	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			74.9	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-006
Client Sample ID: MW-25_01152020
Collection Date: 1/15/2020 1055h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1322h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.000500	0.00135	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1306h	E200.7	20.0	363	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1306h	E200.7	20.0	127	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.0100	1.40	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1521h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.0100	0.0158	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1345h	E200.7	1.00	10.8	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1306h	E200.7	20.0	306	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.000500	0.000795	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2108h	E200.8	0.000300	0.00650	
Vanadium	mg/L	1/20/2020 1017h	1/30/2020 1319h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1246h	E200.8	0.0100	< 0.0100	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-006
Client Sample ID: MW-25_01152020
Collection Date: 1/15/2020 1055h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

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 Kyle F. Gross
 Laboratory Director

 Jose Rocha
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1411h	E350.1	0.0500	0.484	
Bicarbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	336	
Carbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 2121h	E300.0	1.00	34.7	
Fluoride	mg/L		1/22/2020 2318h	E300.0	0.100	0.253	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	-1.75	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1039h	E353.2	0.100	< 0.100	
Sulfate	mg/L		1/22/2020 1907h	E300.0	150	1,730	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		43.7	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		42.2	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	2,640	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		0.954	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		2,770	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-006A
Client Sample ID: MW-25_01152020
Collection Date: 1/15/2020 1055h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1033h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

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Kyle F. Gross
 Laboratory Director

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.5	50.00	99.0	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.8	50.00	106	72-135	
Surr: Toluene-d8		2037-26-5	50.1	50.00	100	80-124	

Jose Rocha
 QA Officer

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Certificate of Analysis

Report Date: February 25, 2020

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_01152020	Project: DNMI00100
Sample ID: 502102006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-JAN-20 10:55	
Receive Date: 24-JAN-20	
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	+/-0.331	0.865	1.00	pCi/L			LXB3	02/14/20	1424	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			83	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-007
Client Sample ID: MW-26_01152020
Collection Date: 1/15/2020 900h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1326h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1318h	E200.7	20.0	486	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.100	0.643	
Lead	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1318h	E200.7	20.0	163	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.0100	0.737	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1523h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1348h	E200.7	1.00	12.5	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1318h	E200.7	20.0	187	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2112h	E200.8	0.000300	0.0362	
Vanadium	mg/L	1/20/2020 1017h	1/30/2020 1322h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1250h	E200.8	0.0100	< 0.0100	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-007
Client Sample ID: MW-26_01152020
Collection Date: 1/15/2020 900h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1412h	E350.1	0.0500	0.578	
Bicarbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	342	
Carbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 2137h	E300.0	1.00	78.8	
Fluoride	mg/L		1/23/2020 902h	E300.0	0.200	0.443	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	-4.11	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1041h	E353.2	0.100	0.873	
Sulfate	mg/L		1/22/2020 1923h	E300.0	150	1,970	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		50.1	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		46.2	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	3,010	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		0.969	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		3,110	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-007A
Client Sample ID: MW-26_01152020
Collection Date: 1/15/2020 900h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1232h **Extracted:**
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,260	~

Phone: (801) 263-8686

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,800	2,500	112	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,520	2,500	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,650	2,500	106	72-135	
Surr: Toluene-d8		2037-26-5	2,540	2,500	101	80-124	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 1/20/2020 1053h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	2.79	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.5	50.00	109	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.7	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.3	50.00	105	72-135	
Surr: Toluene-d8		2037-26-5	49.3	50.00	98.7	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01152020	Project: DNMI00100
Sample ID: 502102007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-JAN-20 09:00	
Receive Date: 24-JAN-20	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		3.56	+/-0.578	0.994	1.00	pCi/L			LXB3	02/14/20	1432	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			90	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-008
Client Sample ID: MW-27_01162020
Collection Date: 1/16/2020 1300h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		1/24/2020 936h	E353.2	0.100	6.18	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-009
Client Sample ID: MW-28_01162020
Collection Date: 1/16/2020 1415h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1639h	E200.8	0.00500	0.0134	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2048h	E200.8	0.000300	0.00756	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-009
Client Sample ID: MW-28_01162020
Collection Date: 1/16/2020 1415h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		1/28/2020 240h	E300.0	2.00	151	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 25, 2020

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-28_01162020	Project: DNMI00100
Sample ID: 502102001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 16-JAN-20 14:15	
Receive Date: 24-JAN-20	
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		1.79	+/-0.293	0.691	1.00	pCi/L			LXB3	02/15/20	1908	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			75.6	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-008
Client Sample ID: MW-30_01152020
Collection Date: 1/15/2020 1445h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1329h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1320h	E200.7	20.0	281	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1320h	E200.7	20.0	77.0	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.0100	0.0102	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1529h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1351h	E200.7	1.00	7.39	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.00500	0.0497	
Silver	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1320h	E200.7	20.0	103	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1338h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2115h	E200.8	0.000300	0.00888	
Vanadium	mg/L	1/20/2020 1017h	2/4/2020 1546h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1254h	E200.8	0.0100	< 0.0100	

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 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-008
Client Sample ID: MW-30_01152020
Collection Date: 1/15/2020 1445h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

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Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1413h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	152	
Carbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 1940h	E300.0	5.00	182	
Fluoride	mg/L		1/22/2020 2351h	E300.0	0.100	0.379	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	1.86	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1150h	E353.2	0.200	16.4	
Sulfate	mg/L		1/22/2020 1940h	E300.0	37.5	753	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		24.1	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		25.0	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	1,620	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		1.07	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		1,510	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-008A
Client Sample ID: MW-30_01152020
Collection Date: 1/15/2020 1445h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1112h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.4	50.00	111	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	53.0	50.00	106	72-135	
Surr: Toluene-d8		2037-26-5	50.3	50.00	101	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01152020	Project: DNMI00100
Sample ID: 502102008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-JAN-20 14:45	
Receive Date: 24-JAN-20	
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	+/-0.233	0.673	1.00	pCi/L		LXB3	02/14/20	1426	1964624		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			85.8	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-009
Client Sample ID: MW-31_01142020
Collection Date: 1/14/2020 1410h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1332h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1322h	E200.7	20.0	367	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1322h	E200.7	20.0	170	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1531h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1353h	E200.7	1.00	8.31	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.00500	0.0926	
Silver	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1322h	E200.7	20.0	123	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1342h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2119h	E200.8	0.000300	0.0148	
Vanadium	mg/L	1/20/2020 1017h	2/4/2020 1550h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1257h	E200.8	0.0100	< 0.0100	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-009
Client Sample ID: MW-31_01142020
Collection Date: 1/14/2020 1410h
Received Date: 1/17/2020 1335h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1419h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	192	
Carbonate (as CaCO3)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 1957h	E300.0	10.0	381	
Fluoride	mg/L		1/23/2020 008h	E300.0	0.100	0.778	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	-0.428	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1053h	E353.2	0.100	17.5	
Sulfate	mg/L		1/22/2020 1957h	E300.0	75.0	1,120	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		38.2	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		37.9	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	2,220	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		0.962	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		2,300	

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Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-009A
Client Sample ID: MW-31_01142020
Collection Date: 1/14/2020 1410h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1132h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.5	50.00	113	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.1	50.00	98.1	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.9	50.00	106	72-135	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.3	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01142020	Project: DNMI00100
Sample ID: 502102009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-JAN-20 14:10	
Receive Date: 24-JAN-20	
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	+/-0.296	0.864	1.00	pCi/L			LXB3	02/14/20	1425	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			87.9	(25%-125%)								

Notes:
 Counting Uncertainty is calculated at the 68% confidence level (1-sigma).
 SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.
Column headers are defined as follows:
 DF: Dilution Factor Lc/LC: Critical Level
 DL: Detection Limit PF: Prep Factor
 MDA: Minimum Detectable Activity RL: Reporting Limit
 MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-002
Client Sample ID: MW-32_01142020
Collection Date: 1/14/2020 1310h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		1/22/2020 2030h	E300.0	1.00	38.0	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-003
Client Sample ID: MW-35_01162020
Collection Date: 1/16/2020 845h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1407h	E350.1	0.0500	0.0919	1

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-010
Client Sample ID: MW-36_01142020
Collection Date: 1/14/2020 1435h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/31/2020 846h	1/31/2020 1346h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/20/2020 1017h	2/4/2020 1325h	E200.7	20.0	455	
Chromium	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/20/2020 1017h	2/4/2020 1325h	E200.7	20.0	145	
Manganese	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/21/2020 1232h	1/21/2020 1533h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/20/2020 1017h	2/4/2020 1356h	E200.7	1.00	11.5	
Selenium	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.00500	0.235	
Silver	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/20/2020 1017h	2/4/2020 1325h	E200.7	20.0	708	
Thallium	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.000500	0.000542	
Tin	mg/L	1/20/2020 1017h	1/30/2020 1345h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/20/2020 1017h	1/30/2020 2122h	E200.8	0.000300	0.0231	
Vanadium	mg/L	1/20/2020 1017h	2/4/2020 1553h	E200.8	0.0150	< 0.0150	
Zinc	mg/L	1/31/2020 846h	1/31/2020 1301h	E200.8	0.0100	< 0.0100	

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Jose Rocha

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-010
Client Sample ID: MW-36_01142020
Collection Date: 1/14/2020 1435h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/22/2020 827h	1/22/2020 1420h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	282	
Carbonate (as CaCO ₃)	mg/L		1/20/2020 618h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/22/2020 2228h	E300.0	1.00	59.6	
Fluoride	mg/L		1/23/2020 025h	E300.0	0.100	0.146	
Ion Balance	%		2/4/2020 1700h	Calc.	-100	2.32	
Nitrate/Nitrite (as N)	mg/L		1/23/2020 1054h	E353.2	0.100	0.181	
Sulfate	mg/L		1/22/2020 2014h	E300.0	150	2,660	
Total Anions, Measured	meq/L		2/4/2020 1700h	Calc.		62.7	
Total Cations, Measured	meq/L		2/4/2020 1700h	Calc.		65.7	
Total Dissolved Solids	mg/L		1/20/2020 1240h	SM2540C	20.0	4,250	
Total Dissolved Solids Ratio, Measured/Calculated			2/4/2020 1700h	Calc.		1.01	
Total Dissolved Solids, Calculated	mg/L		2/4/2020 1700h	Calc.		4,210	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-010A
Client Sample ID: MW-36_01142020
Collection Date: 1/14/2020 1435h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 1152h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.4	50.00	98.8	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.9	50.00	104	72-135	
Surr: Toluene-d8		2037-26-5	49.0	50.00	98.1	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01142020	Project: DNMI00100
Sample ID: 502102014	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-JAN-20 14:35	
Receive Date: 24-JAN-20	
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		1.56	+/-0.418	0.853	1.00	pCi/L			LXB3	02/14/20	1425	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			79.8	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-003
Client Sample ID: MW-38_01222020
Collection Date: 1/22/2020 800h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1608h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2020 1004h	2/5/2020 1455h	E200.7	10.0	469	
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1532h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2020 1004h	2/3/2020 2035h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2020 1004h	2/3/2020 2035h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2020 1004h	2/5/2020 1455h	E200.7	10.0	182	
Manganese	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1809h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1435h	E200.7	1.00	28.3	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.00500	0.175	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2020 1004h	2/5/2020 1455h	E200.7	10.0	502	
Thallium	mg/L	1/24/2020 1004h	2/3/2020 2035h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2035h	E200.8	0.000300	0.00580	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1435h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1602h	E200.8	0.0100	< 0.0100	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-003
Client Sample ID: MW-38_01222020
Collection Date: 1/22/2020 800h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1636h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	139	
Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/28/2020 133h	E300.0	1.00	46.1	
Fluoride	mg/L		1/28/2020 133h	E300.0	0.500	0.660	
Ion Balance	%		2/6/2020 1558h	Calc.	-100	-5.93	
Nitrate/Nitrite (as N)	mg/L		1/24/2020 921h	E353.2	0.100	13.1	
Sulfate	mg/L		1/27/2020 2245h	E300.0	375	3,090	
Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		68.6	
Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		60.9	
Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	4,240	
Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		0.960	
Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		4,410	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-003A
Client Sample ID: MW-38_01222020
Collection Date: 1/22/2020 800h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1805h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross

Laboratory Director

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

Jose Rocha

QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.8	50.00	114	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.0	50.00	100	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.6	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	49.8	50.00	99.7	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01222020	Project: DNMI00100
Sample ID: 502102010	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 22-JAN-20 08:00	
Receive Date: 24-JAN-20	
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		1.11	+/-0.369	0.866	1.00	pCi/L			LXB3	02/14/20	1424	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			84.4	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-004
Client Sample ID: MW-39_01202020
Collection Date: 1/20/2020 1125h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1632h	E200.8	0.000500	0.00511	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.000500	0.00269	
Calcium	mg/L	1/24/2020 1004h	2/5/2020 1458h	E200.7	10.0	475	²
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0100	0.0676	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1535h	E200.8	0.0100	0.0296	
Iron	mg/L	1/24/2020 1004h	2/3/2020 1951h	E200.8	10.0	14.5	
Lead	mg/L	1/24/2020 1004h	2/3/2020 2038h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2020 1004h	2/5/2020 1458h	E200.7	10.0	190	²
Manganese	mg/L	1/24/2020 1004h	2/3/2020 2008h	E200.8	0.0100	2.18	²
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1811h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0200	0.0343	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1438h	E200.7	1.00	14.4	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.00500	< 0.00500	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0100	< 0.0100	¹
Sodium	mg/L	1/24/2020 1004h	2/5/2020 1458h	E200.7	10.0	476	²
Thallium	mg/L	1/24/2020 1004h	2/3/2020 2038h	E200.8	0.000500	0.00316	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2038h	E200.8	0.000300	0.0109	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1438h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1616h	E200.8	0.0100	0.238	

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

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-004
Client Sample ID: MW-39_01202020
Collection Date: 1/20/2020 1125h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
	Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1637h	E350.1	0.0500	0.258	
	Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
	Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
Phone: (801) 263-8686	Chloride	mg/L		1/28/2020 150h	E300.0	1.00	40.4	
Toll Free: (888) 263-8686	Fluoride	mg/L		1/28/2020 150h	E300.0	0.500	0.631	
Fax: (801) 263-8687	Ion Balance	%		2/6/2020 1558h	Calc.	-100	-5.17	
e-mail: awal@awal-labs.com	Nitrate/Nitrite (as N)	mg/L		1/24/2020 925h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		1/27/2020 2302h	E300.0	375	3,210	
web: www.awal-labs.com	Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		67.9	
	Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		61.2	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	4,560	
	Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		1.03	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		4,420	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-004A
Client Sample ID: MW-39_01202020
Collection Date: 1/20/2020 1125h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1825h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	48.3	50.00	96.5	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.6	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	48.9	50.00	97.9	80-124	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 25, 2020

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_01202020	Project: DNMI00100
Sample ID: 502102011	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-JAN-20 11:25	
Receive Date: 24-JAN-20	
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		5.11	+/-0.725	0.844	1.00	pCi/L			LXB3	02/14/20	1433	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments											
	EPA 903.0												
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits								
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			87.2	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-005
Client Sample ID: MW-40_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1615h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2020 1004h	2/5/2020 1525h	E200.7	10.0	446	
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1545h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2020 1004h	2/3/2020 2042h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2020 1004h	2/3/2020 2042h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2020 1004h	2/5/2020 1525h	E200.7	10.0	194	
Manganese	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0100	0.115	
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1813h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1447h	E200.7	1.00	9.53	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.00500	0.196	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2020 1004h	2/5/2020 1525h	E200.7	10.0	369	
Thallium	mg/L	1/24/2020 1004h	2/3/2020 2042h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2042h	E200.8	0.000300	0.0231	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1447h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1632h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-005
Client Sample ID: MW-40_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686 Toll Free: (888) 263-8686 Fax: (801) 263-8687 e-mail: awal@awal-labs.com web: www.awal-labs.com Kyle F. Gross Laboratory Director Jose Rocha QA Officer	Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1637h	E350.1	0.0500	< 0.0500	
	Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	352	
	Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
	Chloride	mg/L		1/28/2020 206h	E300.0	1.00	43.1	
	Fluoride	mg/L		1/28/2020 206h	E300.0	0.500	0.805	
	Ion Balance	%		2/6/2020 1558h	Calc.	-100	-5.56	
	Nitrate/Nitrite (as N)	mg/L		1/24/2020 934h	E353.2	0.100	2.59	
	Sulfate	mg/L		1/27/2020 2352h	E300.0	150	2,530	
	Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		61.0	
	Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		54.5	
	Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	3,760	
	Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		0.989	
	Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		3,800	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-005A
Client Sample ID: MW-40_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1845h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	48.9	50.00	97.8	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.3	50.00	105	72-135	
Surr: Toluene-d8		2037-26-5	50.0	50.00	100	80-124	

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Certificate of Analysis

Report Date: February 25, 2020

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_01202020	Project: DNMI00100
Sample ID: 502102012	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-JAN-20 11:55	
Receive Date: 24-JAN-20	
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		1.26	+/-0.280	0.622	1.00	pCi/L			LXB3	02/15/20	1915	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			88.9	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-006
Client Sample ID: MW-65_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	1/24/2020 1004h	2/5/2020 1619h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	1/24/2020 1004h	2/5/2020 1528h	E200.7	10.0	446	
Chromium	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0100	< 0.0100	
Copper	mg/L	1/24/2020 1004h	2/5/2020 1548h	E200.8	0.0100	< 0.0100	
Iron	mg/L	1/24/2020 1004h	2/3/2020 2045h	E200.8	0.0300	< 0.0300	
Lead	mg/L	1/24/2020 1004h	2/3/2020 2045h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	1/24/2020 1004h	2/5/2020 1528h	E200.7	10.0	194	
Manganese	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0100	0.112	
Mercury	mg/L	1/29/2020 1340h	1/29/2020 1815h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	1/24/2020 1004h	2/6/2020 1449h	E200.7	1.00	9.72	
Selenium	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.00500	0.197	
Silver	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	1/24/2020 1004h	2/5/2020 1528h	E200.7	10.0	367	
Thallium	mg/L	1/24/2020 1004h	2/3/2020 2045h	E200.8	0.000500	< 0.000500	
Tin	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.100	< 0.100	
Uranium	mg/L	1/24/2020 1004h	2/3/2020 2045h	E200.8	0.000300	0.0234	
Vanadium	mg/L	1/24/2020 1004h	2/6/2020 1449h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	1/24/2020 1004h	2/3/2020 1636h	E200.8	0.0100	< 0.0100	

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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-006
Client Sample ID: MW-65_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Analytical Results

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	1/27/2020 822h	1/27/2020 1638h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	352	
Carbonate (as CaCO ₃)	mg/L		1/24/2020 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		1/28/2020 223h	E300.0	1.00	43.1	
Fluoride	mg/L		1/28/2020 454h	E300.0	0.100	0.657	
Ion Balance	%		2/6/2020 1558h	Calc.	-100	-4.91	
Nitrate/Nitrite (as N)	mg/L		1/24/2020 935h	E353.2	0.100	2.59	
Sulfate	mg/L		1/28/2020 009h	E300.0	150	2,480	
Total Anions, Measured	meq/L		2/6/2020 1558h	Calc.		60.0	
Total Cations, Measured	meq/L		2/6/2020 1558h	Calc.		54.4	
Total Dissolved Solids	mg/L		1/24/2020 1120h	SM2540C	20.0	3,470	
Total Dissolved Solids Ratio, Measured/Calculated			2/6/2020 1558h	Calc.		0.924	
Total Dissolved Solids, Calculated	mg/L		2/6/2020 1558h	Calc.		3,760	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-006A
Client Sample ID: MW-65_01202020
Collection Date: 1/20/2020 1155h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/23/2020 1905h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.7	50.00	113	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.4	50.00	98.8	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.1	50.00	104	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.3	80-124	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 25, 2020

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_01202020	Project: DNMI00100
Sample ID: 502102013	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-JAN-20 11:55	
Receive Date: 24-JAN-20	
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		1.23	+/-0.260	0.654	1.00	pCi/L			LXB3	02/15/20	1908	1964624	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
	EPA 903.0		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			92.4	(25%-125%)

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

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

Column headers are defined as follows:

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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001383-011A
Client Sample ID: Trip Blank
Collection Date: 1/14/2020 1410h
Received Date: 1/17/2020 1335h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/20/2020 910h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross

Laboratory Director

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

Jose Rocha

QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	55.0	50.00	110	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.0	50.00	100	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.2	50.00	104	72-135	
Surr: Toluene-d8		2037-26-5	50.2	50.00	100	80-124	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Sample ID: 2001497-007A
Client Sample ID: Trip Blank
Collection Date: 1/20/2020 1125h
Received Date: 1/23/2020 1200h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 1/24/2020 922h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross

Laboratory Director

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

Jose Rocha

QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	48.6	50.00	97.3	80-152	
Surr: Dibromofluoromethane		1868-53-7	52.2	50.00	104	72-135	
Surr: Toluene-d8		2037-26-5	49.8	50.00	99.6	80-124	



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

RE: 1st Quarter Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2001383

3440 South 700 West

Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 1/17/2020 for the analyses presented in the following report.

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

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

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

**Jose G.
Rocha**
Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha,
o=American West Analytical
Laboratories, ou=UT00031,
email=jose@awal-labs.com,
c=US
Date: 2020.02.17 16:56:43
-07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001383
Date Received: 1/17/2020 1335h

Contact: Tanner Holliday

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 Salt Lake City, UT 84119

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001383-001A	MW-12_01162020	1/16/2020 955h	Aqueous	ICPMS Metals, Dissolved
2001383-002A	MW-32_01142020	1/14/2020 1310h	Aqueous	Anions, E300.0
2001383-003A	MW-35_01162020	1/16/2020 845h	Aqueous	Ammonia, Aqueous
2001383-004A	MW-11_01152020	1/15/2020 1200h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-004B	MW-11_01152020	1/15/2020 1200h	Aqueous	Anions, E300.0
2001383-004B	MW-11_01152020	1/15/2020 1200h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-004B	MW-11_01152020	1/15/2020 1200h	Aqueous	Chloride, Aqueous
2001383-004C	MW-11_01152020	1/15/2020 1200h	Aqueous	Total Dissolved Solids, A2540C
2001383-004D	MW-11_01152020	1/15/2020 1200h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-004D	MW-11_01152020	1/15/2020 1200h	Aqueous	Ammonia, Aqueous
2001383-004E	MW-11_01152020	1/15/2020 1200h	Aqueous	ICP Metals, Dissolved
2001383-004E	MW-11_01152020	1/15/2020 1200h	Aqueous	ICPMS Metals, Dissolved
2001383-004E	MW-11_01152020	1/15/2020 1200h	Aqueous	Mercury, Drinking Water Dissolved
2001383-004E	MW-11_01152020	1/15/2020 1200h	Aqueous	Ion Balance
2001383-005A	MW-14_01152020	1/15/2020 1515h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-005B	MW-14_01152020	1/15/2020 1515h	Aqueous	Anions, E300.0
2001383-005B	MW-14_01152020	1/15/2020 1515h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-005C	MW-14_01152020	1/15/2020 1515h	Aqueous	Total Dissolved Solids, A2540C
2001383-005D	MW-14_01152020	1/15/2020 1515h	Aqueous	Ammonia, Aqueous
2001383-005D	MW-14_01152020	1/15/2020 1515h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-005E	MW-14_01152020	1/15/2020 1515h	Aqueous	Ion Balance
2001383-005E	MW-14_01152020	1/15/2020 1515h	Aqueous	ICP Metals, Dissolved
2001383-005E	MW-14_01152020	1/15/2020 1515h	Aqueous	ICPMS Metals, Dissolved
2001383-005E	MW-14_01152020	1/15/2020 1515h	Aqueous	Mercury, Drinking Water Dissolved
2001383-006A	MW-25_01152020	1/15/2020 1055h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-006B	MW-25_01152020	1/15/2020 1055h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-006B	MW-25_01152020	1/15/2020 1055h	Aqueous	Anions, E300.0
2001383-006C	MW-25_01152020	1/15/2020 1055h	Aqueous	Total Dissolved Solids, A2540C
2001383-006D	MW-25_01152020	1/15/2020 1055h	Aqueous	Ammonia, Aqueous



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001383
Date Received: 1/17/2020 1335h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001383-006D	MW-25_01152020	1/15/2020 1055h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-006E	MW-25_01152020	1/15/2020 1055h	Aqueous	Ion Balance
2001383-006E	MW-25_01152020	1/15/2020 1055h	Aqueous	ICP Metals, Dissolved
2001383-006E	MW-25_01152020	1/15/2020 1055h	Aqueous	ICPMS Metals, Dissolved
2001383-006E	MW-25_01152020	1/15/2020 1055h	Aqueous	Mercury, Drinking Water Dissolved
2001383-007A	MW-26_01152020	1/15/2020 900h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-007B	MW-26_01152020	1/15/2020 900h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-007B	MW-26_01152020	1/15/2020 900h	Aqueous	Anions, E300.0
2001383-007C	MW-26_01152020	1/15/2020 900h	Aqueous	Total Dissolved Solids, A2540C
2001383-007D	MW-26_01152020	1/15/2020 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-007D	MW-26_01152020	1/15/2020 900h	Aqueous	Ammonia, Aqueous
2001383-007E	MW-26_01152020	1/15/2020 900h	Aqueous	Ion Balance
2001383-007E	MW-26_01152020	1/15/2020 900h	Aqueous	ICP Metals, Dissolved
2001383-007E	MW-26_01152020	1/15/2020 900h	Aqueous	ICPMS Metals, Dissolved
2001383-007E	MW-26_01152020	1/15/2020 900h	Aqueous	Mercury, Drinking Water Dissolved
2001383-008A	MW-30_01152020	1/15/2020 1445h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-008B	MW-30_01152020	1/15/2020 1445h	Aqueous	Anions, E300.0
2001383-008B	MW-30_01152020	1/15/2020 1445h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-008C	MW-30_01152020	1/15/2020 1445h	Aqueous	Total Dissolved Solids, A2540C
2001383-008D	MW-30_01152020	1/15/2020 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-008D	MW-30_01152020	1/15/2020 1445h	Aqueous	Ammonia, Aqueous
2001383-008E	MW-30_01152020	1/15/2020 1445h	Aqueous	Ion Balance
2001383-008E	MW-30_01152020	1/15/2020 1445h	Aqueous	ICP Metals, Dissolved
2001383-008E	MW-30_01152020	1/15/2020 1445h	Aqueous	ICPMS Metals, Dissolved
2001383-008E	MW-30_01152020	1/15/2020 1445h	Aqueous	Mercury, Drinking Water Dissolved
2001383-009A	MW-31_01142020	1/14/2020 1410h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-009B	MW-31_01142020	1/14/2020 1410h	Aqueous	Anions, E300.0
2001383-009B	MW-31_01142020	1/14/2020 1410h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-009C	MW-31_01142020	1/14/2020 1410h	Aqueous	Total Dissolved Solids, A2540C
2001383-009D	MW-31_01142020	1/14/2020 1410h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001383
Date Received: 1/17/2020 1335h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001383-009D	MW-31_01142020	1/14/2020 1410h	Aqueous	Ammonia, Aqueous
2001383-009E	MW-31_01142020	1/14/2020 1410h	Aqueous	Ion Balance
2001383-009E	MW-31_01142020	1/14/2020 1410h	Aqueous	ICP Metals, Dissolved
2001383-009E	MW-31_01142020	1/14/2020 1410h	Aqueous	ICPMS Metals, Dissolved
2001383-009E	MW-31_01142020	1/14/2020 1410h	Aqueous	Mercury, Drinking Water Dissolved
2001383-010A	MW-36_01142020	1/14/2020 1435h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001383-010B	MW-36_01142020	1/14/2020 1435h	Aqueous	Anions, E300.0
2001383-010B	MW-36_01142020	1/14/2020 1435h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001383-010C	MW-36_01142020	1/14/2020 1435h	Aqueous	Total Dissolved Solids, A2540C
2001383-010D	MW-36_01142020	1/14/2020 1435h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001383-010D	MW-36_01142020	1/14/2020 1435h	Aqueous	Ammonia, Aqueous
2001383-010E	MW-36_01142020	1/14/2020 1435h	Aqueous	Ion Balance
2001383-010E	MW-36_01142020	1/14/2020 1435h	Aqueous	ICP Metals, Dissolved
2001383-010E	MW-36_01142020	1/14/2020 1435h	Aqueous	ICPMS Metals, Dissolved
2001383-010E	MW-36_01142020	1/14/2020 1435h	Aqueous	Mercury, Drinking Water Dissolved
2001383-011A	Trip Blank	1/14/2020 1410h	Aqueous	VOA by GC/MS Method 8260D/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001383

Sample Receipt Information:

Date of Receipt: 1/17/2020
Date(s) of Collection: 1/14-1/16/2020
Sample Condition: Intact
C-O-C Discrepancies: None

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

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

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

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

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

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

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

Sample ID	Analyte	QC	Explanation
2001383-003A	Ammonia	MS/MSD	Sample matrix interference
2001383-004E	Sodium	MS/MSD	High analyte concentration

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: the RPD for Total Dissolved Solids on samples 2001383-004C was outside of the control limits due to sample non-homogeneity or sample matrix interference.

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001383

Sample Receipt Information:

Date of Receipt:	1/17/2020
Date(s) of Collection:	1/14-1/16/2020
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260D/5030C
Analysis:	Volatile Organic Compounds

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General Set Comments: Multiple target analytes were observed above reporting limits.

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

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-67561		Date Analyzed: 02/04/2020 1248h											
Test Code: 200.7-DIS		Date Prepared: 01/20/2020 1017h											
Calcium	10.1	mg/L	E200.7	0.211	1.00	10.00	0	101	85 - 115				
Magnesium	10.3	mg/L	E200.7	0.0654	1.00	10.00	0	103	85 - 115				
Potassium	10.6	mg/L	E200.7	0.246	1.00	10.00	0	106	85 - 115				
Sodium	10.3	mg/L	E200.7	0.123	1.00	10.00	0	103	85 - 115				
Lab Sample ID: LCS-67562		Date Analyzed: 01/30/2020 1253h											
Test Code: 200.8-DIS		Date Prepared: 01/20/2020 1017h											
Arsenic	0.199	mg/L	E200.8	0.000298	0.00200	0.2000	0	99.6	85 - 115				
Cadmium	0.201	mg/L	E200.8	0.0000858	0.000500	0.2000	0	101	85 - 115				
Chromium	0.195	mg/L	E200.8	0.00191	0.00200	0.2000	0	97.5	85 - 115				
Cobalt	0.193	mg/L	E200.8	0.000300	0.00400	0.2000	0	96.5	85 - 115				
Manganese	0.193	mg/L	E200.8	0.00108	0.00200	0.2000	0	96.5	85 - 115				
Nickel	0.192	mg/L	E200.8	0.00148	0.00200	0.2000	0	96.2	85 - 115				
Selenium	0.199	mg/L	E200.8	0.000574	0.00200	0.2000	0	99.7	85 - 115				
Tin	1.02	mg/L	E200.8	0.00116	0.00400	1.000	0	102	85 - 115				
Lab Sample ID: LCS-67562		Date Analyzed: 01/31/2020 1055h											
Test Code: 200.8-DIS		Date Prepared: 01/20/2020 1017h											
Uranium	0.212	mg/L	E200.8	0.000176	0.00200	0.2000	0	106	85 - 115				
Lab Sample ID: LCS-67845		Date Analyzed: 01/31/2020 1231h											
Test Code: 200.8-DIS		Date Prepared: 01/31/2020 846h											
Copper	0.186	mg/L	E200.8	0.00282	0.00200	0.2000	0	93.1	85 - 115				
Iron	0.927	mg/L	E200.8	0.0496	0.100	1.000	0	92.7	85 - 115				
Lead	0.182	mg/L	E200.8	0.000448	0.00200	0.2000	0	91.1	85 - 115				
Molybdenum	0.185	mg/L	E200.8	0.000652	0.00200	0.2000	0	92.6	85 - 115				
Silver	0.174	mg/L	E200.8	0.000232	0.00200	0.2000	0	86.8	85 - 115				
Thallium	0.174	mg/L	E200.8	0.000154	0.00200	0.2000	0	86.9	85 - 115				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-67845	Date Analyzed:	01/31/2020	1231h										
Test Code: 200.8-DIS	Date Prepared:	01/31/2020	846h										
Zinc	0.930	mg/L	E200.8	0.00418	0.00600	1.000	0	93.0	85 - 115				
Lab Sample ID: LCS-67845	Date Analyzed:	01/31/2020	1309h										
Test Code: 200.8-DIS	Date Prepared:	01/31/2020	846h										
Beryllium	0.202	mg/L	E200.8	0.000198	0.00200	0.2000	0	101	85 - 115				
Lab Sample ID: LCS-67562	Date Analyzed:	01/30/2020	1253h										
Test Code: 200.8-DIS	Date Prepared:	01/20/2020	1017h										
Vanadium	0.198	mg/L	E200.8	0.00166	0.00440	0.2000	0	98.8	85 - 115				
Lab Sample ID: LCS-67612	Date Analyzed:	01/21/2020	1506h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/21/2020	1232h										
Mercury	0.00340	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	102	85 - 115				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-67561	Date Analyzed:	02/04/2020	1246h										
Test Code:	200.7-DIS	Date Prepared:	01/20/2020	1017h									
Calcium	< 1.00	mg/L	E200.7	0.211	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0654	1.00								
Potassium	< 1.00	mg/L	E200.7	0.246	1.00								
Sodium	< 1.00	mg/L	E200.7	0.123	1.00								
Lab Sample ID: MB-67562	Date Analyzed:	01/30/2020	1249h										
Test Code:	200.8-DIS	Date Prepared:	01/20/2020	1017h									
Arsenic	< 0.00200	mg/L	E200.8	0.000298	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000858	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00191	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000300	0.00400								
Manganese	< 0.00200	mg/L	E200.8	0.00108	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00148	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000574	0.00200								
Tin	< 0.00400	mg/L	E200.8	0.00116	0.00400								
Lab Sample ID: MB-67562	Date Analyzed:	01/31/2020	1052h										
Test Code:	200.8-DIS	Date Prepared:	01/20/2020	1017h									
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Lab Sample ID: MB-67845	Date Analyzed:	01/31/2020	1228h										
Test Code:	200.8-DIS	Date Prepared:	01/31/2020	846h									
Copper	< 0.000500	mg/L	E200.8	0.000705	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.0124	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.000112	0.000500								
Molybdenum	< 0.000500	mg/L	E200.8	0.000163	0.000500								
Silver	< 0.000500	mg/L	E200.8	0.0000580	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000384	0.000500								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-67845	Date Analyzed:	01/31/2020	1228h										
Test Code:	200.8-DIS	Date Prepared:	01/31/2020	846h									
Zinc	< 0.00150	mg/L	E200.8	0.00105	0.00150								
Lab Sample ID: MB-67845	Date Analyzed:	01/31/2020	1305h										
Test Code:	200.8-DIS	Date Prepared:	01/31/2020	846h									
Beryllium	< 0.000500	mg/L	E200.8	0.0000494	0.000500								
Lab Sample ID: MB-67562	Date Analyzed:	01/30/2020	1249h										
Test Code:	200.8-DIS	Date Prepared:	01/20/2020	1017h									
Vanadium	< 0.00440	mg/L	E200.8	0.00166	0.00440								
Lab Sample ID: MB-67612	Date Analyzed:	01/21/2020	1504h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/21/2020	1232h									
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004EMS													
Date Analyzed:		02/04/2020 1258h											
Test Code:		200.7-DIS											
Date Prepared:		01/20/2020 1017h											
Calcium	96.9	mg/L	E200.7	4.22	20.0	10.00	85.6	113	70 - 130				
Sodium	589	mg/L	E200.7	2.46	20.0	10.00	572	166	70 - 130				2
Lab Sample ID: 2001383-004EMS													
Date Analyzed:		02/04/2020 1338h											
Test Code:		200.7-DIS											
Date Prepared:		01/20/2020 1017h											
Magnesium	38.6	mg/L	E200.7	0.0654	1.00	10.00	28.2	104	70 - 130				
Potassium	19.4	mg/L	E200.7	0.246	1.00	10.00	7.78	116	70 - 130				
Lab Sample ID: 2001383-004EMS													
Date Analyzed:		01/30/2020 1308h											
Test Code:		200.8-DIS											
Date Prepared:		01/20/2020 1017h											
Arsenic	0.208	mg/L	E200.8	0.000298	0.00200	0.2000	0	104	75 - 125				
Cadmium	0.202	mg/L	E200.8	0.0000858	0.000500	0.2000	0.000197	101	75 - 125				
Chromium	0.193	mg/L	E200.8	0.00191	0.00200	0.2000	0	96.7	75 - 125				
Cobalt	0.191	mg/L	E200.8	0.000300	0.00400	0.2000	0.000557	95.4	75 - 125				
Manganese	0.358	mg/L	E200.8	0.00108	0.00200	0.2000	0.169	94.7	75 - 125				
Nickel	0.193	mg/L	E200.8	0.00148	0.00200	0.2000	0	96.6	75 - 125				
Selenium	0.201	mg/L	E200.8	0.000574	0.00200	0.2000	0.00116	100	75 - 125				
Tin	1.05	mg/L	E200.8	0.00116	0.00400	1.000	0.00142	105	75 - 125				
Lab Sample ID: 2001383-001AMS													
Date Analyzed:		01/30/2020 2055h											
Test Code:		200.8-DIS											
Date Prepared:		01/20/2020 1017h											
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0.0219	97.1	75 - 125				
Lab Sample ID: 2001383-004EMS													
Date Analyzed:		01/31/2020 1059h											
Test Code:		200.8-DIS											
Date Prepared:		01/20/2020 1017h											
Uranium	0.214	mg/L	E200.8	0.000176	0.00200	0.2000	0.000824	107	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-010EMS		Date Analyzed:	01/31/2020 1323h										
Test Code: 200.8-DIS		Date Prepared:	01/31/2020 846h										
Copper	0.193	mg/L	E200.8	0.00282	0.00200	0.2000	0	96.6	75 - 125				
Iron	0.968	mg/L	E200.8	0.0496	0.100	1.000	0	96.8	75 - 125				
Lead	0.192	mg/L	E200.8	0.000448	0.00200	0.2000	0	96.1	75 - 125				
Molybdenum	0.216	mg/L	E200.8	0.000652	0.00200	0.2000	0.00065	108	75 - 125				
Silver	0.180	mg/L	E200.8	0.000232	0.00200	0.2000	0	90.1	75 - 125				
Thallium	0.185	mg/L	E200.8	0.000154	0.00200	0.2000	0.000542	92.2	75 - 125				
Zinc	1.06	mg/L	E200.8	0.00418	0.00600	1.000	0.00186	106	75 - 125				
Lab Sample ID: 2001383-010EMS		Date Analyzed:	01/31/2020 1349h										
Test Code: 200.8-DIS		Date Prepared:	01/31/2020 846h										
Beryllium	0.221	mg/L	E200.8	0.000198	0.00200	0.2000	0	111	75 - 125				
Lab Sample ID: 2001383-004EMS		Date Analyzed:	01/30/2020 1308h										
Test Code: 200.8-DIS		Date Prepared:	01/20/2020 1017h										
Vanadium	0.199	mg/L	E200.8	0.00166	0.00440	0.2000	0	99.6	75 - 125				
Lab Sample ID: 2001383-004EMS		Date Analyzed:	01/21/2020 1515h										
Test Code: HG-DW-DIS-245.1		Date Prepared:	01/21/2020 1232h										
Mercury	0.00316	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	94.8	85 - 115				

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004EMSD Date Analyzed: 02/04/2020 1301h													
Test Code: 200.7-DIS Date Prepared: 01/20/2020 1017h													
Calcium	96.9	mg/L	E200.7	4.22	20.0	10.00	85.6	113	70 - 130	96.9	0.0302	20	
Sodium	592	mg/L	E200.7	2.46	20.0	10.00	572	199	70 - 130	589	0.565	20	2
Lab Sample ID: 2001383-004EMSD Date Analyzed: 02/04/2020 1340h													
Test Code: 200.7-DIS Date Prepared: 01/20/2020 1017h													
Magnesium	38.4	mg/L	E200.7	0.0654	1.00	10.00	28.2	102	70 - 130	38.6	0.559	20	
Potassium	19.3	mg/L	E200.7	0.246	1.00	10.00	7.78	115	70 - 130	19.4	0.532	20	
Lab Sample ID: 2001383-004EMSD Date Analyzed: 01/30/2020 1311h													
Test Code: 200.8-DIS Date Prepared: 01/20/2020 1017h													
Arsenic	0.210	mg/L	E200.8	0.000298	0.00200	0.2000	0	105	75 - 125	0.208	0.997	20	
Cadmium	0.202	mg/L	E200.8	0.0000858	0.000500	0.2000	0.000197	101	75 - 125	0.202	0.445	20	
Chromium	0.197	mg/L	E200.8	0.00191	0.00200	0.2000	0	98.6	75 - 125	0.193	1.92	20	
Cobalt	0.197	mg/L	E200.8	0.000300	0.00400	0.2000	0.000557	98.0	75 - 125	0.191	2.72	20	
Manganese	0.367	mg/L	E200.8	0.00108	0.00200	0.2000	0.169	99.0	75 - 125	0.358	2.35	20	
Nickel	0.195	mg/L	E200.8	0.00148	0.00200	0.2000	0	97.4	75 - 125	0.193	0.833	20	
Selenium	0.199	mg/L	E200.8	0.000574	0.00200	0.2000	0.00116	99.1	75 - 125	0.201	0.915	20	
Tin	1.06	mg/L	E200.8	0.00116	0.00400	1.000	0.00142	106	75 - 125	1.05	0.949	20	
Lab Sample ID: 2001383-001AMSD Date Analyzed: 01/30/2020 2058h													
Test Code: 200.8-DIS Date Prepared: 01/20/2020 1017h													
Uranium	0.213	mg/L	E200.8	0.000176	0.00200	0.2000	0.0219	95.7	75 - 125	0.216	1.28	20	
Lab Sample ID: 2001383-004EMSD Date Analyzed: 01/31/2020 1102h													
Test Code: 200.8-DIS Date Prepared: 01/20/2020 1017h													
Uranium	0.207	mg/L	E200.8	0.000176	0.00200	0.2000	0.000824	103	75 - 125	0.214	3.37	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-010EMSD		Date Analyzed:	01/31/2020 1327h										
Test Code: 200.8-DIS		Date Prepared:	01/31/2020 846h										
Copper	0.206	mg/L	E200.8	0.00282	0.00200	0.2000	0	103	75 - 125	0.193	6.38	20	
Iron	1.02	mg/L	E200.8	0.0496	0.100	1.000	0	102	75 - 125	0.968	5.03	20	
Lead	0.195	mg/L	E200.8	0.000448	0.00200	0.2000	0	97.6	75 - 125	0.192	1.57	20	
Molybdenum	0.221	mg/L	E200.8	0.000652	0.00200	0.2000	0.00065	110	75 - 125	0.216	2.36	20	
Silver	0.183	mg/L	E200.8	0.000232	0.00200	0.2000	0	91.5	75 - 125	0.18	1.52	20	
Thallium	0.190	mg/L	E200.8	0.000154	0.00200	0.2000	0.000542	94.9	75 - 125	0.185	2.88	20	
Zinc	1.08	mg/L	E200.8	0.00418	0.00600	1.000	0.00186	108	75 - 125	1.06	2.22	20	
Lab Sample ID: 2001383-010EMSD		Date Analyzed:	01/31/2020 1353h										
Test Code: 200.8-DIS		Date Prepared:	01/31/2020 846h										
Beryllium	0.226	mg/L	E200.8	0.000198	0.00200	0.2000	0	113	75 - 125	0.221	2.28	20	
Lab Sample ID: 2001383-004EMSD		Date Analyzed:	01/30/2020 1311h										
Test Code: 200.8-DIS		Date Prepared:	01/20/2020 1017h										
Vanadium	0.205	mg/L	E200.8	0.00166	0.00440	0.2000	0	102	75 - 125	0.199	2.75	20	
Lab Sample ID: 2001383-004EMSD		Date Analyzed:	01/21/2020 1517h										
Test Code: HG-DW-DIS-245.1		Date Prepared:	01/21/2020 1232h										
Mercury	0.00338	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	102	85 - 115	0.00316	6.83	20	

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004CDUP Date Analyzed: 01/20/2020 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,020	mg/L	SM2540C	16.0	20.0					1920	5.48	5	@

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R134946 Date Analyzed: 01/23/2020 756h													
Test Code: 300.0-W													
Chloride	5.04	mg/L	E300.0	0.0386	0.100	5.000	0	101	90 - 110				
Fluoride	5.10	mg/L	E300.0	0.0240	0.100	5.000	0	102	90 - 110				
Sulfate	5.07	mg/L	E300.0	0.174	0.750	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R135530 Date Analyzed: 02/05/2020 1048h													
Test Code: 300.0-W													
Fluoride	5.22	mg/L	E300.0	0.0240	0.100	5.000	0	104	90 - 110				
Lab Sample ID: LCS-R134734 Date Analyzed: 01/20/2020 618h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	250	mg/L	SM2320B	0.781	1.00	250.0	0	99.8	90 - 110				
Lab Sample ID: LCS-R135602 Date Analyzed: 02/11/2020 1205h													
Test Code: CL-W-4500CLE													
Chloride	10.1	mg/L	SM4500-Cl-E	1.06	5.00	10.00	0	101	90 - 110				
Lab Sample ID: LCS-67628 Date Analyzed: 01/22/2020 1407h													
Test Code: NH3-W-350.1 Date Prepared: 01/22/2020 827h													
Ammonia (as N)	9.64	mg/L	E350.1	0.0492	0.0500	10.00	0	96.4	90 - 110				
Lab Sample ID: LCS-R134902 Date Analyzed: 01/23/2020 1031h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00494	0.0100	1.000	0	102	90 - 110				
Lab Sample ID: LCS-R134828 Date Analyzed: 01/20/2020 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	186	mg/L	SM2540C	8.00	10.0	205.0	0	90.7	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: LCSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCSD-R135602 Date Analyzed: 02/11/2020 1206h													
Test Code: CL-W-4500CLE													
Chloride	9.63	mg/L	SM4500-Cl-E	1.06	5.00	10.00	0	96.3	90 - 110	10.1	5.07	10	
Lab Sample ID: LCSD-R134828 Date Analyzed: 01/20/2020 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	206	mg/L	SM2540C	8.00	10.0	205.0	0	100	80 - 120	186	10.2	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R134946		Date Analyzed: 01/22/2020 1546h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.174	0.750								
Lab Sample ID: MB-R135530		Date Analyzed: 02/05/2020 1031h											
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Lab Sample ID: MB-R134734		Date Analyzed: 01/20/2020 618h											
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.781	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.781	1.00								
Lab Sample ID: MB-R135602		Date Analyzed: 02/11/2020 1204h											
Test Code: CL-W-4500CLE													
Chloride	< 5.00	mg/L	SM4500-Cl-E	1.06	5.00								
Lab Sample ID: MB-67628		Date Analyzed: 01/22/2020 1406h											
Test Code: NH3-W-350.1		Date Prepared: 01/22/2020 827h											
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0492	0.0500								
Lab Sample ID: MB-R134902		Date Analyzed: 01/23/2020 1030h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00494	0.0100								
Lab Sample ID: MB-R134828		Date Analyzed: 01/20/2020 1240h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								



American West
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004BMS Date Analyzed: 01/22/2020 1743h													
Test Code: 300.0-W													
Chloride	1,050	mg/L	E300.0	7.72	20.0	1,000	40.2	101	90 - 110				
Fluoride	1,020	mg/L	E300.0	4.80	20.0	1,000	0	102	90 - 110				
Sulfate	2,220	mg/L	E300.0	34.8	150	1,000	1180	104	90 - 110				
Lab Sample ID: 2001383-008BMS Date Analyzed: 01/20/2020 618h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	248	mg/L	SM2320B	0.781	1.00	100.0	152	96.0	80 - 120				
Lab Sample ID: 2001383-002AMS Date Analyzed: 02/11/2020 1215h													
Test Code: CL-W-4500CLE													
Chloride	46.5	mg/L	SM4500-Cl-E	1.06	5.00	10.00	37.5	90.0	90 - 110				
Lab Sample ID: 2001383-003AMS Date Analyzed: 01/22/2020 1408h													
Test Code: NH3-W-350.1 Date Prepared: 01/22/2020 827h													
Ammonia (as N)	12.8	mg/L	E350.1	0.0492	0.0500	10.00	0.0919	127	90 - 110				
Lab Sample ID: 2001383-008DMS Date Analyzed: 01/23/2020 1151h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	37.2	mg/L	E353.2	0.0988	0.200	20.00	16.4	104	90 - 110				

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004BMSD Date Analyzed: 01/22/2020 1800h													
Test Code: 300.0-W													
Chloride	1,050	mg/L	E300.0	7.72	20.0	1,000	40.2	101	90 - 110	1050	0.0578	20	
Fluoride	1,020	mg/L	E300.0	4.80	20.0	1,000	0	102	90 - 110	1020	0.112	20	
Sulfate	2,210	mg/L	E300.0	34.8	150	1,000	1180	103	90 - 110	2220	0.481	20	
Lab Sample ID: 2001383-008BMSD Date Analyzed: 01/20/2020 618h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	250	mg/L	SM2320B	0.781	1.00	100.0	152	98.0	80 - 120	248	0.803	10	
Lab Sample ID: 2001383-002AMSD Date Analyzed: 02/11/2020 1220h													
Test Code: CL-W-4500CLE													
Chloride	47.6	mg/L	SM4500-Cl-E	1.06	5.00	10.00	37.5	101	90 - 110	46.5	2.28	10	
Lab Sample ID: 2001383-003AMSD Date Analyzed: 01/22/2020 1409h													
Test Code: NH3-W-350.1 Date Prepared: 01/22/2020 827h													
Ammonia (as N)	12.8	mg/L	E350.1	0.0492	0.0500	10.00	0.0919	127	90 - 110	12.8	0	10	1
Lab Sample ID: 2001383-008DMSD Date Analyzed: 01/23/2020 1152h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	37.1	mg/L	E353.2	0.0988	0.200	20.00	16.4	104	90 - 110	37.2	0.296	10	

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012020A Date Analyzed: 01/20/2020 811h													
Test Code: 8260D-W-DEN100													
2-Butanone	24.2	µg/L	SW8260D	1.31	20.0	20.00	0	121	74 - 236				
Acetone	23.2	µg/L	SW8260D	2.87	20.0	20.00	0	116	70 - 350				
Benzene	22.3	µg/L	SW8260D	0.147	1.00	20.00	0	112	82 - 132				
Carbon tetrachloride	21.8	µg/L	SW8260D	0.262	1.00	20.00	0	109	77 - 143				
Chloroform	22.8	µg/L	SW8260D	0.166	1.00	20.00	0	114	85 - 124				
Chloromethane	21.1	µg/L	SW8260D	0.832	1.00	20.00	0	105	30 - 149				
Methylene chloride	24.3	µg/L	SW8260D	0.448	1.00	20.00	0	121	65 - 154				
Naphthalene	18.1	µg/L	SW8260D	0.704	1.00	20.00	0	90.5	55 - 128				
Tetrahydrofuran	19.7	µg/L	SW8260D	0.436	1.00	20.00	0	98.4	59 - 135				
Toluene	21.1	µg/L	SW8260D	0.177	1.00	20.00	0	105	69 - 129				
Xylenes, Total	64.1	µg/L	SW8260D	0.253	1.00	60.00	0	107	66 - 124				
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260D			50.00		105	80 - 136				
Surr: 4-Bromofluorobenzene	48.8	µg/L	SW8260D			50.00		97.6	85 - 121				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	50.2	µg/L	SW8260D			50.00		100	81 - 123				



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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012020A		Date Analyzed: 01/20/2020 831h											
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.31	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.87	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.448	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	0.704	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.436	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.177	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.253	1.00								
Surr: 1,2-Dichloroethane-d4	55.2	µg/L	SW8260D			50.00		110	80 - 136				
Surr: 4-Bromofluorobenzene	52.5	µg/L	SW8260D			50.00		105	85 - 121				
Surr: Dibromofluoromethane	53.0	µg/L	SW8260D			50.00		106	78 - 132				
Surr: Toluene-d8	51.4	µg/L	SW8260D			50.00		103	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001383
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004AMS		Date Analyzed: 01/20/2020 933h											
Test Code: 8260D-W-DEN100													
2-Butanone	20.8	µg/L	SW8260D	1.31	20.0	20.00	0	104	74 - 236				
Acetone	19.6	µg/L	SW8260D	2.87	20.0	20.00	0	97.9	70 - 350				
Benzene	23.3	µg/L	SW8260D	0.147	1.00	20.00	0	116	82 - 132				
Carbon tetrachloride	22.5	µg/L	SW8260D	0.262	1.00	20.00	0	113	77 - 143				
Chloroform	23.4	µg/L	SW8260D	0.166	1.00	20.00	0	117	85 - 124				
Chloromethane	19.9	µg/L	SW8260D	0.832	1.00	20.00	0	99.7	30 - 149				
Methylene chloride	24.8	µg/L	SW8260D	0.448	1.00	20.00	0	124	65 - 154				
Naphthalene	18.2	µg/L	SW8260D	0.704	1.00	20.00	0	90.8	55 - 128				
Tetrahydrofuran	17.6	µg/L	SW8260D	0.436	1.00	20.00	0	88.0	59 - 135				
Toluene	22.3	µg/L	SW8260D	0.177	1.00	20.00	0	112	69 - 129				
Xylenes, Total	67.4	µg/L	SW8260D	0.253	1.00	60.00	0	112	66 - 124				
Surr: 1,2-Dichloroethane-d4	52.0	µg/L	SW8260D			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260D			50.00		99.0	85 - 121				
Surr: Dibromofluoromethane	50.1	µg/L	SW8260D			50.00		100	78 - 132				
Surr: Toluene-d8	50.2	µg/L	SW8260D			50.00		100	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001383

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001383-004AMSD		Date Analyzed: 01/20/2020 953h											
Test Code: 8260D-W-DEN100													
2-Butanone	24.2	µg/L	SW8260D	1.31	20.0	20.00	0	121	74 - 236	20.8	14.9	35	
Acetone	23.2	µg/L	SW8260D	2.87	20.0	20.00	0	116	70 - 350	19.6	16.9	35	
Benzene	24.4	µg/L	SW8260D	0.147	1.00	20.00	0	122	82 - 132	23.3	4.95	35	
Carbon tetrachloride	22.8	µg/L	SW8260D	0.262	1.00	20.00	0	114	77 - 143	22.5	1.41	35	
Chloroform	23.8	µg/L	SW8260D	0.166	1.00	20.00	0	119	85 - 124	23.4	1.44	35	
Chloromethane	23.2	µg/L	SW8260D	0.832	1.00	20.00	0	116	30 - 149	19.9	15.2	35	
Methylene chloride	26.3	µg/L	SW8260D	0.448	1.00	20.00	0	132	65 - 154	24.8	5.87	35	
Naphthalene	20.4	µg/L	SW8260D	0.704	1.00	20.00	0	102	55 - 128	18.2	11.4	35	
Tetrahydrofuran	22.6	µg/L	SW8260D	0.436	1.00	20.00	0	113	59 - 135	17.6	24.6	35	
Toluene	23.0	µg/L	SW8260D	0.177	1.00	20.00	0	115	69 - 129	22.3	3.00	35	
Xylenes, Total	70.3	µg/L	SW8260D	0.253	1.00	60.00	0	117	66 - 124	67.4	4.24	35	
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	49.6	µg/L	SW8260D			50.00		99.2	85 - 121				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	50.2	µg/L	SW8260D			50.00		100	81 - 123				

WORK ORDER Summary

Work Order: **2001383** Page 1 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: 1st Quarter Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com, tholliday@energyfuels.com;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001383-001A	MW-12_01162020	1/16/2020 0955h	1/17/2020 1335h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
2001383-002A	MW-32_01142020	1/14/2020 1310h	1/17/2020 1335h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
2001383-003A	MW-35_01162020	1/16/2020 0845h	1/17/2020 1335h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001383-004A	MW-11_01152020	1/15/2020 1200h	1/17/2020 1335h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001383-004B				300.0-W <i>2 SEL Analytes: F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001383-004C				CL-W-4500CLE		<input type="checkbox"/>	df - wc	
				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001383-004D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001383-004E				200.7-DIS <i>4 SEL Analytes: CA MG K NA</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	

WORK ORDER Summary

Work Order: **2001383** Page 2 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001383-004E	MW-11_01152020	1/15/2020 1200h	1/17/2020 1335h	IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
2001383-005A	MW-14_01152020	1/15/2020 1515h	1/17/2020 1335h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001383-005B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001383-005C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001383-005D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001383-005E				200.7-DIS <i>4 SEL Analytes: CA MG K NA</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
2001383-006A	MW-25_01152020	1/15/2020 1055h	1/17/2020 1335h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001383-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001383-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001383-006D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

WORK ORDER Summary

Work Order: **2001383** Page 3 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
2001383-006D	MW-25_01152020	1/15/2020 1055h	1/17/2020 1335h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1	
				<i>1 SEL Analytes: NO3NO2N</i>					
2001383-006E				200.7-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>4 SEL Analytes: CA MG K NA</i>					
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				200.8-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>					
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met		
				<i>1 SEL Analytes: HG</i>					
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				IONBALANCE		<input checked="" type="checkbox"/>	df-met		
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>					
2001383-007A	MW-26_01152020	1/15/2020 0900h	1/17/2020 1335h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3	
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>					
2001383-007B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1	
				<i>3 SEL Analytes: CL F SO4</i>					
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc		
				<i>2 SEL Analytes: ALKB ALKC</i>					
2001383-007C				TDS-W-2540C		<input checked="" type="checkbox"/>	df - tds		
				<i>1 SEL Analytes: TDS</i>					
2001383-007D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NH3N</i>					
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>					
2001383-007E				200.7-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>4 SEL Analytes: CA MG K NA</i>					
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				200.8-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>					
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met		
				<i>1 SEL Analytes: HG</i>					
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				IONBALANCE		<input checked="" type="checkbox"/>	df-met		
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>					

WORK ORDER Summary

Work Order: **2001383** Page 4 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001383-008A	MW-30_01152020	1/15/2020 1445h	1/17/2020 1335h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2001383-008B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
2001383-008C				TDS-W-2540C		<input checked="" type="checkbox"/>	df - tds	
				<i>1 SEL Analytes: TDS</i>				
2001383-008D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
2001383-008E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>4 SEL Analytes: CA MG K NA</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
2001383-009A	MW-31_01142020	1/14/2020 1410h	1/17/2020 1335h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2001383-009B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
2001383-009C				TDS-W-2540C		<input checked="" type="checkbox"/>	df - tds	
				<i>1 SEL Analytes: TDS</i>				
2001383-009D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				

WORK ORDER Summary

Work Order: **2001383** Page 5 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001383-009E	MW-31_01142020	1/14/2020 1410h	1/17/2020 1335h	200.7-DIS <i>4 SEL Analytes: CA MG K NA</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
2001383-010A	MW-36_01142020	1/14/2020 1435h	1/17/2020 1335h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001383-010B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001383-010C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001383-010D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001383-010E				200.7-DIS <i>4 SEL Analytes: CA MG K NA</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>18 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
2001383-011A	Trip Blank	1/14/2020 1410h	1/17/2020 1335h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3

WORK ORDER Summary

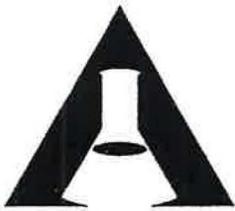
Work Order: **2001383** Page 6 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 1/31/2020

AWAL Use Only - Close Hold Times

Test Code	# Samps	Min. days left
CL-W-4500CLE	1	-4.92



**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

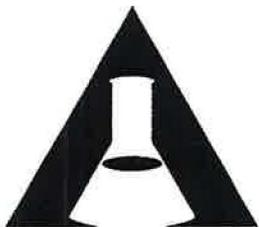
All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

2001383
 AWAL Lab Sample Set #
 Page 1 of 2

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; KWeinek@energyfuels.com**
 Project Name: **1st Quarter Ground Water 2020**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:											Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:												
3		Standard																								
Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	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)	Include EDD:		For Compliance With:		Known Hazards & Sample Comments		Laboratory Use Only			
																	LOCUS UPLOAD EXCEL		Field Filtered For: Dissolved Metals		<input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:		Shipped or hand delivered Ambient or Chilled Temperature _____ °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 Unbroken on Outer Package Y N Present on Sample Y N Unbroken on Sample Y N Discrepancies Between Sample Labels and COC Record? Y N	
1																										
2	MW-12_01162020	1/16/2020	955	1 W				X										X								
3																										
4																										
5																										
6	MW-32_01142020	1/14/2020	1310	1 W		X																				
7	MW-35_01162020	1/16/2020	845	1 W																						
8																										
9																										
10																										
11																										
12																										

Relinquished by: <i>Tanner Holliday</i> Signature	Date: 1/16/2020 Time:	Received by: _____ Signature	Date: _____ Time:	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list. * see pg 2
Print Name: Tanner Holliday Time: 1130	Received by: <i>Elena Haywood</i> Signature	Date: 1-17-2020 Time: 1335		
Relinquished by: _____ Signature	Date: _____ Time:	Received by: _____ Signature	Date: _____ Time:	
Print Name: _____ Time:	Received by: _____ Signature	Date: _____ Time:		



**American West
Analytical Laboratories**

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 www.awal-labs.com

CHAIN OF CUSTODY

2001283

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 2 of 2

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Garrin Palmer**
 Phone #: **(435) 678-2221** Cell #:
gpalmer@energyfuels.com; KWeinel@energyfuels.com;
dturk@energyfuels.com
 Project Name: **1st Quarter Ground Water 2020**
 Project #:
 PO #:
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:									
3		Standard													
# of Containers Sample Matrix NO2/NO3 (953.2) NH3 (4500G or 350.1) FI, 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)	<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL		<input checked="" type="checkbox"/> Field Filtered For: Dissolved Metals		Laboratory Use Only Samples Were: uPS 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature 1.3 °C 4 Received Broken/Leaking (Improperly Sealed) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5 Properly Preserved Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Checked at bench Y <input type="checkbox"/> N <input type="checkbox"/> 6 Received Within Holding Times Y <input checked="" type="checkbox"/> N <input type="checkbox"/>										
	For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:		Known Hazards & Sample Comments		COC Tape Was: 1 Present on Outer Package Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 2 Unbroken on Outer Package Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 3 Present on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 4 Unbroken on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA Discrepancies Between Sample Labels and COC Record? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>										
	MW-11_01152020	1/15/2020	1200	7	W	x	x	x	x	x	x	x	x	x	
	MW-14_01152020	1/15/2020	1515	7	W	x	x	x	x	x	x	x	x	x	
	MW-25_01152020	1/15/2020	1055	7	W	x	x	x	x	x	x	x	x	x	
	MW-26_01152020	1/15/2020	900	7	W	x	x	x	x	x	x	x	x	x	
	MW-30_01152020	1/15/2020	1445	7	W	x	x	x	x	x	x	x	x	x	
	MW-31_01142020	1/14/2020	1410	7	W	x	x	x	x	x	x	x	x	x	
	MW-36_01142020	1/14/2020	1435	7	W	x	x	x	x	x	x	x	x	x	* see notes
	Trip Blank	1/14/2020	1410	3	W										

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 1/15/2020	Received by: Signature <i>Stacey Hayward</i>	Date: 1-17-2020	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list. * metals needed additional acid added.
Print Name: Tanner Holliday	Time: 1130	Print Name: Stacey Hayward	Time: 1325	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	

Lab Set ID: 2001383

pH Lot #: 6179

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10								
Ammonia	pH <2 H ₂ SO ₄			Yes															
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	Yes			Yes	Yes	Yes	Yes	Yes	Yes	*								
NO ₂ /NO ₃	pH <2 H ₂ SO ₄				Yes														
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO ₄																		
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																		

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

Frequency: All samples requiring preservation

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



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

RE: 1st Quarter Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2001497

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 1/23/2020 for the analyses presented in the following report.

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

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

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

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

**Jose G.
Rocha**

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha,
o=American West Analytical
Laboratories, ou=UT00031,
email=jose@awal-labs.com,
c=US
Date: 2020.02.17 16:52:42
-07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001497
Date Received: 1/23/2020 1200h

Contact: Tanner Holliday

3440 South 700 West
 Salt Lake City, UT 84119

Phone: (801) 263-8686

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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001497-001A	MW-24_01222020	1/22/2020 930h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-001B	MW-24_01222020	1/22/2020 930h	Aqueous	Anions, E300.0
2001497-001B	MW-24_01222020	1/22/2020 930h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-001C	MW-24_01222020	1/22/2020 930h	Aqueous	Total Dissolved Solids, A2540C
2001497-001D	MW-24_01222020	1/22/2020 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-001D	MW-24_01222020	1/22/2020 930h	Aqueous	Ammonia, Aqueous
2001497-001E	MW-24_01222020	1/22/2020 930h	Aqueous	ICPMS Metals, Dissolved
2001497-001E	MW-24_01222020	1/22/2020 930h	Aqueous	Mercury, Drinking Water Dissolved
2001497-001E	MW-24_01222020	1/22/2020 930h	Aqueous	ICP Metals, Dissolved
2001497-001E	MW-24_01222020	1/22/2020 930h	Aqueous	Ion Balance
2001497-002A	MW-24A_01212020	1/21/2020 925h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-002B	MW-24A_01212020	1/21/2020 925h	Aqueous	Anions, E300.0
2001497-002B	MW-24A_01212020	1/21/2020 925h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-002C	MW-24A_01212020	1/21/2020 925h	Aqueous	Total Dissolved Solids, A2540C
2001497-002D	MW-24A_01212020	1/21/2020 925h	Aqueous	Ammonia, Aqueous
2001497-002D	MW-24A_01212020	1/21/2020 925h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-002E	MW-24A_01212020	1/21/2020 925h	Aqueous	ICPMS Metals, Dissolved
2001497-002E	MW-24A_01212020	1/21/2020 925h	Aqueous	Mercury, Drinking Water Dissolved
2001497-002E	MW-24A_01212020	1/21/2020 925h	Aqueous	Ion Balance
2001497-002E	MW-24A_01212020	1/21/2020 925h	Aqueous	ICP Metals, Dissolved
2001497-003A	MW-38_01222020	1/22/2020 800h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-003B	MW-38_01222020	1/22/2020 800h	Aqueous	Anions, E300.0
2001497-003B	MW-38_01222020	1/22/2020 800h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-003C	MW-38_01222020	1/22/2020 800h	Aqueous	Total Dissolved Solids, A2540C
2001497-003D	MW-38_01222020	1/22/2020 800h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-003D	MW-38_01222020	1/22/2020 800h	Aqueous	Ammonia, Aqueous
2001497-003E	MW-38_01222020	1/22/2020 800h	Aqueous	Ion Balance
2001497-003E	MW-38_01222020	1/22/2020 800h	Aqueous	ICP Metals, Dissolved
2001497-003E	MW-38_01222020	1/22/2020 800h	Aqueous	ICPMS Metals, Dissolved



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001497
Date Received: 1/23/2020 1200h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001497-003E	MW-38_01222020	1/22/2020 800h	Aqueous	Mercury, Drinking Water Dissolved
2001497-004A	MW-39_01202020	1/20/2020 1125h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-004B	MW-39_01202020	1/20/2020 1125h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-004B	MW-39_01202020	1/20/2020 1125h	Aqueous	Anions, E300.0
2001497-004C	MW-39_01202020	1/20/2020 1125h	Aqueous	Total Dissolved Solids, A2540C
2001497-004D	MW-39_01202020	1/20/2020 1125h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-004D	MW-39_01202020	1/20/2020 1125h	Aqueous	Ammonia, Aqueous
2001497-004E	MW-39_01202020	1/20/2020 1125h	Aqueous	Mercury, Drinking Water Dissolved
2001497-004E	MW-39_01202020	1/20/2020 1125h	Aqueous	Ion Balance
2001497-004E	MW-39_01202020	1/20/2020 1125h	Aqueous	ICP Metals, Dissolved
2001497-004E	MW-39_01202020	1/20/2020 1125h	Aqueous	ICPMS Metals, Dissolved
2001497-005A	MW-40_01202020	1/20/2020 1155h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-005B	MW-40_01202020	1/20/2020 1155h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-005B	MW-40_01202020	1/20/2020 1155h	Aqueous	Anions, E300.0
2001497-005C	MW-40_01202020	1/20/2020 1155h	Aqueous	Total Dissolved Solids, A2540C
2001497-005D	MW-40_01202020	1/20/2020 1155h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-005D	MW-40_01202020	1/20/2020 1155h	Aqueous	Ammonia, Aqueous
2001497-005E	MW-40_01202020	1/20/2020 1155h	Aqueous	ICPMS Metals, Dissolved
2001497-005E	MW-40_01202020	1/20/2020 1155h	Aqueous	ICP Metals, Dissolved
2001497-005E	MW-40_01202020	1/20/2020 1155h	Aqueous	Ion Balance
2001497-005E	MW-40_01202020	1/20/2020 1155h	Aqueous	Mercury, Drinking Water Dissolved
2001497-006A	MW-65_01202020	1/20/2020 1155h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-006B	MW-65_01202020	1/20/2020 1155h	Aqueous	Anions, E300.0
2001497-006B	MW-65_01202020	1/20/2020 1155h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2001497-006C	MW-65_01202020	1/20/2020 1155h	Aqueous	Total Dissolved Solids, A2540C
2001497-006D	MW-65_01202020	1/20/2020 1155h	Aqueous	Ammonia, Aqueous
2001497-006D	MW-65_01202020	1/20/2020 1155h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-006E	MW-65_01202020	1/20/2020 1155h	Aqueous	Mercury, Drinking Water Dissolved
2001497-006E	MW-65_01202020	1/20/2020 1155h	Aqueous	ICPMS Metals, Dissolved

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



Client: Energy Fuels Resources, Inc.
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001497
Date Received: 1/23/2020 1200h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2001497-006E	MW-65_01202020	1/20/2020 1155h	Aqueous	Ion Balance
2001497-006E	MW-65_01202020	1/20/2020 1155h	Aqueous	ICP Metals, Dissolved
2001497-007A	Trip Blank	1/20/2020 1125h	Aqueous	VOA by GC/MS Method 8260D/5030C
2001497-008A	MW-27_01162020	1/16/2020 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
2001497-009A	MW-28_01162020	1/16/2020 1415h	Aqueous	Anions, E300.0
2001497-009B	MW-28_01162020	1/16/2020 1415h	Aqueous	ICPMS Metals, Dissolved

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001497

Sample Receipt Information:

Date of Receipt: 1/23/2020
Date(s) of Collection: 1/16-1/22/2020
Sample Condition: Intact
C-O-C Discrepancies: None

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

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

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

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

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

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

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

Sample ID	Analyte	QC	Explanation
2001497-001D	Ammonia	MS/MSD	Sample matrix interference
2001497-004E	Calcium	MS/MSD	High analyte concentration
2001497-004E	Magnesium	MS/MSD	High analyte concentration
2001497-004E	Manganese	MSD	High analyte concentration
2001497-004E	Sodium	MS/MSD	High analyte concentration
2001497-004E	Silver	MS/MSD	Sample matrix interference

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

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 1st Quarter Ground Water 2020
Lab Set ID: 2001497

Sample Receipt Information:

Date of Receipt: 1/23/2020
Date(s) of Collection: 1/16-1/22/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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General Set Comments: No target analytes were observed above reporting limits.

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

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-67686		Date Analyzed: 02/05/2020 1446h											
Test Code: 200.7-DIS		Date Prepared: 01/24/2020 1004h											
Calcium	9.52	mg/L	E200.7	0.211	1.00	10.00	0	95.2	85 - 115				
Magnesium	9.87	mg/L	E200.7	0.0654	1.00	10.00	0	98.7	85 - 115				
Sodium	10.2	mg/L	E200.7	0.123	1.00	10.00	0	102	85 - 115				
Lab Sample ID: LCS-67686		Date Analyzed: 02/06/2020 1427h											
Test Code: 200.7-DIS		Date Prepared: 01/24/2020 1004h											
Potassium	10.4	mg/L	E200.7	0.246	1.00	10.00	0	104	85 - 115				
Vanadium	0.204	mg/L	E200.7	0.00252	0.00500	0.2000	0	102	85 - 115				
Lab Sample ID: LCS-67687		Date Analyzed: 02/03/2020 1539h											
Test Code: 200.8-DIS		Date Prepared: 01/24/2020 1004h											
Arsenic	0.201	mg/L	E200.8	0.000298	0.00200	0.2000	0	101	85 - 115				
Beryllium	0.199	mg/L	E200.8	0.000198	0.00200	0.2000	0	99.7	85 - 115				
Cadmium	0.195	mg/L	E200.8	0.0000742	0.000500	0.2000	0	97.4	85 - 115				
Chromium	0.199	mg/L	E200.8	0.00191	0.00200	0.2000	0	99.5	85 - 115				
Cobalt	0.201	mg/L	E200.8	0.000300	0.00400	0.2000	0	100	85 - 115				
Iron	0.968	mg/L	E200.8	0.0328	0.100	1.000	0	96.8	85 - 115				
Lead	0.193	mg/L	E200.8	0.000448	0.00200	0.2000	0	96.3	85 - 115				
Manganese	0.196	mg/L	E200.8	0.000766	0.00200	0.2000	0	98.1	85 - 115				
Molybdenum	0.200	mg/L	E200.8	0.000652	0.00200	0.2000	0	99.8	85 - 115				
Nickel	0.203	mg/L	E200.8	0.000728	0.00200	0.2000	0	102	85 - 115				
Selenium	0.226	mg/L	E200.8	0.000508	0.00200	0.2000	0	113	85 - 115				
Silver	0.187	mg/L	E200.8	0.000232	0.00200	0.2000	0	93.5	85 - 115				
Thallium	0.192	mg/L	E200.8	0.000390	0.00200	0.2000	0	95.8	85 - 115				
Tin	1.02	mg/L	E200.8	0.00115	0.00400	1.000	0	102	85 - 115				
Uranium	0.205	mg/L	E200.8	0.000176	0.00200	0.2000	0	103	85 - 115				
Zinc	1.02	mg/L	E200.8	0.00418	0.00600	1.000	0	102	85 - 115				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-67687	Date Analyzed: 02/05/2020 1522h												
Test Code: 200.8-DIS	Date Prepared: 01/24/2020 1004h												
Copper	0.199	mg/L	E200.8	0.00166	0.00200	0.2000	0	99.5	85 - 115				
Lab Sample ID: LCS-67810	Date Analyzed: 01/29/2020 1750h												
Test Code: HG-DW-DIS-245.1	Date Prepared: 01/29/2020 1340h												
Mercury	0.00332	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	99.6	85 - 115				



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Kyle F. Gross
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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-67686	Date Analyzed:		02/05/2020 1444h										
Test Code:	Date Prepared:		01/24/2020 1004h										
Calcium	< 1.00	mg/L	E200.7	0.211	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0654	1.00								
Sodium	< 1.00	mg/L	E200.7	0.123	1.00								
Lab Sample ID: MB-67686	Date Analyzed:		02/06/2020 1424h										
Test Code:	Date Prepared:		01/24/2020 1004h										
Potassium	< 1.00	mg/L	E200.7	0.246	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00252	0.00500								
Lab Sample ID: MB-67687	Date Analyzed:		02/03/2020 1536h										
Test Code:	Date Prepared:		01/24/2020 1004h										
Arsenic	< 0.000200	mg/L	E200.8	0.0000298	0.000200								
Beryllium	< 0.000200	mg/L	E200.8	0.0000198	0.000200								
Cadmium	< 0.0000500	mg/L	E200.8	0.00000742	0.0000500								
Chromium	< 0.000200	mg/L	E200.8	0.000191	0.000200								
Cobalt	< 0.000400	mg/L	E200.8	0.0000300	0.000400								
Iron	< 0.0100	mg/L	E200.8	0.00328	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000448	0.000200								
Manganese	< 0.000200	mg/L	E200.8	0.0000766	0.000200								
Molybdenum	< 0.000200	mg/L	E200.8	0.0000652	0.000200								
Nickel	< 0.000200	mg/L	E200.8	0.0000728	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.0000508	0.000200								
Silver	< 0.000200	mg/L	E200.8	0.0000232	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.0000390	0.000200								
Tin	< 0.000400	mg/L	E200.8	0.000115	0.000400								
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Zinc	< 0.000600	mg/L	E200.8	0.000418	0.000600								



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-FILTER-67677	Date Analyzed:	02/03/2020	1542h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2020	1004h									
Arsenic	< 0.00200	mg/L	E200.8	0.000298	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000742	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00191	0.00200								
Lead	< 0.00200	mg/L	E200.8	0.000448	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000508	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000232	0.00200								
Lab Sample ID: MB-67687	Date Analyzed:	02/05/2020	1518h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2020	1004h									
Copper	< 0.000500	mg/L	E200.8	0.000414	0.000500								
Lab Sample ID: MB-67810	Date Analyzed:	01/29/2020	1748h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/29/2020	1340h									
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								
Lab Sample ID: MB-FILTER-67677	Date Analyzed:	01/29/2020	1828h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/29/2020	1340h									
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004EMS													
Date Analyzed:		02/05/2020 1520h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2020 1004h											
Calcium	459	mg/L	E200.7	2.11	10.0	10.00	475	-169	70 - 130				2
Magnesium	205	mg/L	E200.7	0.654	10.0	10.00	190	153	70 - 130				2
Sodium	610	mg/L	E200.7	1.23	10.0	10.00	476	1,340	70 - 130				2
Lab Sample ID: 2001497-004EMS													
Date Analyzed:		02/06/2020 1441h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2020 1004h											
Potassium	25.1	mg/L	E200.7	0.246	1.00	10.00	14.4	107	70 - 130				
Vanadium	0.205	mg/L	E200.7	0.00252	0.00500	0.2000	0	102	70 - 130				
Lab Sample ID: 2001497-004EMS													
Date Analyzed:		02/03/2020 1626h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2020 1004h											
Arsenic	0.215	mg/L	E200.8	0.000298	0.00200	0.2000	0.00256	106	75 - 125				
Beryllium	0.203	mg/L	E200.8	0.000198	0.00200	0.2000	0.00511	98.8	75 - 125				
Cadmium	0.201	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00269	98.9	75 - 125				
Chromium	0.196	mg/L	E200.8	0.00191	0.00200	0.2000	0	97.9	75 - 125				
Cobalt	0.261	mg/L	E200.8	0.000300	0.00400	0.2000	0.0676	96.8	75 - 125				
Lead	0.188	mg/L	E200.8	0.000448	0.00200	0.2000	0.000477	93.9	75 - 125				
Molybdenum	0.213	mg/L	E200.8	0.000652	0.00200	0.2000	0	106	75 - 125				
Nickel	0.233	mg/L	E200.8	0.000728	0.00200	0.2000	0.0343	99.2	75 - 125				
Selenium	0.239	mg/L	E200.8	0.000508	0.00200	0.2000	0.00328	118	75 - 125				
Silver	0.126	mg/L	E200.8	0.000232	0.00200	0.2000	0	62.8	75 - 125				
Thallium	0.190	mg/L	E200.8	0.000390	0.00200	0.2000	0.00316	93.2	75 - 125				
Tin	1.04	mg/L	E200.8	0.00115	0.00400	1.000	0	104	75 - 125				
Uranium	0.215	mg/L	E200.8	0.000176	0.00200	0.2000	0.0109	102	75 - 125				
Zinc	1.27	mg/L	E200.8	0.00418	0.00600	1.000	0.238	103	75 - 125				



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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004EMS	Date Analyzed:	02/03/2020	1954h										
Test Code: 200.8-DIS	Date Prepared:	01/24/2020	1004h										
Iron	15.4	mg/L	E200.8	3.28	10.0	1.000	14.5	89.9	75 - 125				
Lab Sample ID: 2001497-004EMS	Date Analyzed:	02/03/2020	2011h										
Test Code: 200.8-DIS	Date Prepared:	01/24/2020	1004h										
Manganese	2.35	mg/L	E200.8	0.00153	0.00400	0.2000	2.18	82.5	75 - 125				
Lab Sample ID: 2001497-004EMS	Date Analyzed:	02/05/2020	1538h										
Test Code: 200.8-DIS	Date Prepared:	01/24/2020	1004h										
Copper	0.220	mg/L	E200.8	0.00166	0.00200	0.2000	0.0296	95.4	75 - 125				
Lab Sample ID: 2001497-001EMS	Date Analyzed:	01/29/2020	1802h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	01/29/2020	1340h										
Mercury	0.00328	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	98.5	85 - 115				

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

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001497
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004EMSD													
Date Analyzed:		02/05/2020 1522h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2020 1004h											
Calcium	457	mg/L	E200.7	2.11	10.0	10.00	475	-180	70 - 130	459	0.242	20	2
Magnesium	210	mg/L	E200.7	0.654	10.0	10.00	190	199	70 - 130	205	2.23	20	2
Sodium	571	mg/L	E200.7	1.23	10.0	10.00	476	951	70 - 130	610	6.66	20	2
Lab Sample ID: 2001497-004EMSD													
Date Analyzed:		02/06/2020 1444h											
Test Code:		200.7-DIS											
Date Prepared:		01/24/2020 1004h											
Potassium	25.3	mg/L	E200.7	0.246	1.00	10.00	14.4	109	70 - 130	25.1	0.581	20	
Vanadium	0.205	mg/L	E200.7	0.00252	0.00500	0.2000	0	103	70 - 130	0.205	0.128	20	
Lab Sample ID: 2001497-004EMSD													
Date Analyzed:		02/03/2020 1629h											
Test Code:		200.8-DIS											
Date Prepared:		01/24/2020 1004h											
Arsenic	0.212	mg/L	E200.8	0.000298	0.00200	0.2000	0.00256	105	75 - 125	0.215	1.28	20	
Beryllium	0.204	mg/L	E200.8	0.000198	0.00200	0.2000	0.00511	99.6	75 - 125	0.203	0.879	20	
Cadmium	0.199	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00269	98.0	75 - 125	0.201	0.907	20	
Chromium	0.194	mg/L	E200.8	0.00191	0.00200	0.2000	0	97.1	75 - 125	0.196	0.894	20	
Cobalt	0.260	mg/L	E200.8	0.000300	0.00400	0.2000	0.0676	96.1	75 - 125	0.261	0.562	20	
Lead	0.188	mg/L	E200.8	0.000448	0.00200	0.2000	0.000477	93.8	75 - 125	0.188	0.0224	20	
Molybdenum	0.211	mg/L	E200.8	0.000652	0.00200	0.2000	0	106	75 - 125	0.213	0.794	20	
Nickel	0.231	mg/L	E200.8	0.000728	0.00200	0.2000	0.0343	98.1	75 - 125	0.233	0.947	20	
Selenium	0.241	mg/L	E200.8	0.000508	0.00200	0.2000	0.00328	119	75 - 125	0.239	0.635	20	
Silver	0.125	mg/L	E200.8	0.000232	0.00200	0.2000	0	62.3	75 - 125	0.126	0.680	20	
Thallium	0.190	mg/L	E200.8	0.000390	0.00200	0.2000	0.00316	93.3	75 - 125	0.19	0.0903	20	
Tin	1.03	mg/L	E200.8	0.00115	0.00400	1.000	0	103	75 - 125	1.04	0.576	20	
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0.0109	102	75 - 125	0.215	0.250	20	
Zinc	1.28	mg/L	E200.8	0.00418	0.00600	1.000	0.238	105	75 - 125	1.27	1.18	20	



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004EMSD	Date Analyzed:	02/03/2020	1958h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2020	1004h									
Iron	15.4	mg/L	E200.8	3.28	10.0	1.000	14.5	89.7	75 - 125	15.4	0.0162	20	
Lab Sample ID: 2001497-004EMSD	Date Analyzed:	02/03/2020	2015h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2020	1004h									
Manganese	2.30	mg/L	E200.8	0.00153	0.00400	0.2000	2.18	58.3	75 - 125	2.35	2.08	20	²
Lab Sample ID: 2001497-004EMSD	Date Analyzed:	02/05/2020	1541h										
Test Code:	200.8-DIS	Date Prepared:	01/24/2020	1004h									
Copper	0.217	mg/L	E200.8	0.00166	0.00200	0.2000	0.0296	93.5	75 - 125	0.22	1.71	20	
Lab Sample ID: 2001497-001EMSD	Date Analyzed:	01/29/2020	1804h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	01/29/2020	1340h									
Mercury	0.00328	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	98.4	85 - 115	0.00328	0.102	20	

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

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



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-001CDUP		Date Analyzed: 01/24/2020 1120h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	4,270	mg/L	SM2540C	16.0	20.0					4180	2.18	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R135163													
Date Analyzed: 01/27/2020 1620h													
Test Code: 300.0-W													
Chloride	5.31	mg/L	E300.0	0.0386	0.100	5.000	0	106	90 - 110				
Fluoride	5.32	mg/L	E300.0	0.0240	0.100	5.000	0	106	90 - 110				
Sulfate	5.41	mg/L	E300.0	0.174	0.750	5.000	0	108	90 - 110				
Lab Sample ID: LCS-R134944													
Date Analyzed: 01/24/2020 600h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	250	mg/L	SM2320B	0.369	1.00	250.0	0	99.8	90 - 110				
Lab Sample ID: LCS-67718													
Date Analyzed: 01/27/2020 1624h													
Test Code: NH3-W-350.1													
Date Prepared: 01/27/2020 822h													
Ammonia (as N)	9.84	mg/L	E350.1	0.0492	0.0500	10.00	0	98.4	90 - 110				
Lab Sample ID: LCS-R134955													
Date Analyzed: 01/24/2020 917h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00494	0.0100	1.000	0	105	90 - 110				
Lab Sample ID: LCS-R135047													
Date Analyzed: 01/24/2020 1120h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	196	mg/L	SM2540C	8.00	10.0	205.0	0	95.6	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001497
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R135163 Date Analyzed: 01/27/2020 1604h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.174	0.750								
Lab Sample ID: MB-R134944 Date Analyzed: 01/24/2020 600h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.369	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.369	1.00								
Lab Sample ID: MB-67718 Date Analyzed: 01/27/2020 1624h													
Test Code: NH3-W-350.1 Date Prepared: 01/27/2020 822h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0492	0.0500								
Lab Sample ID: MB-R134955 Date Analyzed: 01/24/2020 914h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00494	0.0100								
Lab Sample ID: MB-R135047 Date Analyzed: 01/24/2020 1120h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								



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Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004BMS		Date Analyzed: 01/27/2020 2319h											
Test Code: 300.0-W													
Chloride	5,270	mg/L	E300.0	38.6	100	5,000	40.4	105	90 - 110				
Fluoride	5,240	mg/L	E300.0	24.0	100	5,000	0	105	90 - 110				
Sulfate	8,600	mg/L	E300.0	174	750	5,000	3210	108	90 - 110				
Lab Sample ID: 2001497-001BMS		Date Analyzed: 01/24/2020 600h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	59.6	mg/L	SM2320B	0.369	1.00	50.00	10	99.2	80 - 120				
Lab Sample ID: 2001497-001DMS		Date Analyzed: 01/27/2020 1633h											
Test Code: NH3-W-350.1		Date Prepared: 01/27/2020 822h											
Ammonia (as N)	13.2	mg/L	E350.1	0.0492	0.0500	10.00	0.119	131	90 - 110				
Lab Sample ID: 2001497-003DMS		Date Analyzed: 01/24/2020 1012h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	35.1	mg/L	E353.2	0.0988	0.200	20.00	13.1	110	90 - 110				

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-004BMSD		Date Analyzed: 01/27/2020 2336h											
Test Code: 300.0-W													
Chloride	5,260	mg/L	E300.0	38.6	100	5,000	40.4	104	90 - 110	5270	0.185	20	
Fluoride	5,230	mg/L	E300.0	24.0	100	5,000	0	105	90 - 110	5240	0.173	20	
Sulfate	8,640	mg/L	E300.0	174	750	5,000	3210	109	90 - 110	8600	0.438	20	
Lab Sample ID: 2001497-001BMSD		Date Analyzed: 01/24/2020 600h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	59.8	mg/L	SM2320B	0.369	1.00	50.00	10	99.6	80 - 120	59.6	0.335	10	
Lab Sample ID: 2001497-001DMSD		Date Analyzed: 01/27/2020 1634h											
Test Code: NH3-W-350.1		Date Prepared: 01/27/2020 822h											
Ammonia (as N)	13.9	mg/L	E350.1	0.0492	0.0500	10.00	0.119	137	90 - 110	13.2	4.80	10	1
Lab Sample ID: 2001497-003DMSD		Date Analyzed: 01/24/2020 1013h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	35.0	mg/L	E353.2	0.0988	0.200	20.00	13.1	110	90 - 110	35.1	0.342	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012320A Date Analyzed: 01/23/2020 1307h													
Test Code: 8260D-W-DEN100													
2-Butanone	21.9	µg/L	SW8260D	1.31	20.0	20.00	0	110	74 - 236				
Acetone	22.1	µg/L	SW8260D	2.87	20.0	20.00	0	110	70 - 350				
Benzene	22.4	µg/L	SW8260D	0.147	1.00	20.00	0	112	82 - 132				
Carbon tetrachloride	21.5	µg/L	SW8260D	0.262	1.00	20.00	0	108	77 - 143				
Chloroform	22.2	µg/L	SW8260D	0.166	1.00	20.00	0	111	85 - 124				
Chloromethane	20.4	µg/L	SW8260D	0.832	1.00	20.00	0	102	30 - 149				
Methylene chloride	24.6	µg/L	SW8260D	0.448	1.00	20.00	0	123	65 - 154				
Naphthalene	19.2	µg/L	SW8260D	0.704	1.00	20.00	0	95.8	55 - 128				
Tetrahydrofuran	20.6	µg/L	SW8260D	0.436	1.00	20.00	0	103	59 - 135				
Toluene	21.1	µg/L	SW8260D	0.177	1.00	20.00	0	105	69 - 129				
Xylenes, Total	63.2	µg/L	SW8260D	0.253	1.00	60.00	0	105	66 - 124				
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	47.5	µg/L	SW8260D			50.00		95.0	85 - 121				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	49.4	µg/L	SW8260D			50.00		98.7	81 - 123				

Lab Sample ID: LCS VOC-1 012420A Date Analyzed: 01/24/2020 803h													
Test Code: 8260D-W-DEN100													
2-Butanone	24.9	µg/L	SW8260D	1.31	20.0	20.00	0	124	74 - 236				
Acetone	31.6	µg/L	SW8260D	2.87	20.0	20.00	0	158	70 - 350				
Benzene	20.7	µg/L	SW8260D	0.147	1.00	20.00	0	104	82 - 132				
Carbon tetrachloride	19.8	µg/L	SW8260D	0.262	1.00	20.00	0	99.2	77 - 143				
Chloroform	21.8	µg/L	SW8260D	0.166	1.00	20.00	0	109	85 - 124				
Chloromethane	17.6	µg/L	SW8260D	0.832	1.00	20.00	0	87.9	30 - 149				
Methylene chloride	23.9	µg/L	SW8260D	0.448	1.00	20.00	0	120	65 - 154				
Naphthalene	18.4	µg/L	SW8260D	0.704	1.00	20.00	0	92.0	55 - 128				
Tetrahydrofuran	20.4	µg/L	SW8260D	0.436	1.00	20.00	0	102	59 - 135				
Toluene	19.4	µg/L	SW8260D	0.177	1.00	20.00	0	96.8	69 - 129				



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001497
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012420A		Date Analyzed: 01/24/2020 803h											
Test Code: 8260D-W-DEN100													
Xylenes, Total	58.4	µg/L	SW8260D	0.253	1.00	60.00	0	97.4	66 - 124				
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260D			50.00		107	80 - 136				
Surr: 4-Bromofluorobenzene	45.5	µg/L	SW8260D			50.00		90.9	85 - 121				
Surr: Dibromofluoromethane	50.3	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	48.3	µg/L	SW8260D			50.00		96.7	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012320A		Date Analyzed: 01/23/2020 1327h											
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.31	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.87	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.448	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	0.704	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.436	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.177	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.253	1.00								
Surr: 1,2-Dichloroethane-d4	55.5	µg/L	SW8260D			50.00		111	80 - 136				
Surr: 4-Bromofluorobenzene	47.5	µg/L	SW8260D			50.00		95.0	85 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260D			50.00		104	78 - 132				
Surr: Toluene-d8	49.1	µg/L	SW8260D			50.00		98.2	81 - 123				

Lab Sample ID: MB VOC-1 012420A		Date Analyzed: 01/24/2020 823h											
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.31	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.87	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.448	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	0.704	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.436	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.177	1.00								



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012420A		Date Analyzed: 01/24/2020 823h											
Test Code: 8260D-W-DEN100													
Xylenes, Total	< 1.00	µg/L	SW8260D	0.253	1.00								
Surr: 1,2-Dichloroethane-d4	56.8	µg/L	SW8260D			50.00		114	80 - 136				
Surr: 4-Bromofluorobenzene	48.8	µg/L	SW8260D			50.00		97.6	85 - 121				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260D			50.00		106	78 - 132				
Surr: Toluene-d8	49.7	µg/L	SW8260D			50.00		99.3	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2001497
Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-001AMS		Date Analyzed: 01/24/2020 842h											
Test Code: 8260D-W-DEN100													
2-Butanone	20.3	µg/L	SW8260D	1.31	20.0	20.00	0	101	74 - 236				
Acetone	20.2	µg/L	SW8260D	2.87	20.0	20.00	0	101	70 - 350				
Benzene	19.7	µg/L	SW8260D	0.147	1.00	20.00	0	98.4	82 - 132				
Carbon tetrachloride	19.5	µg/L	SW8260D	0.262	1.00	20.00	0	97.6	77 - 143				
Chloroform	20.1	µg/L	SW8260D	0.166	1.00	20.00	0	101	85 - 124				
Chloromethane	18.1	µg/L	SW8260D	0.832	1.00	20.00	0	90.3	30 - 149				
Methylene chloride	22.2	µg/L	SW8260D	0.448	1.00	20.00	0	111	65 - 154				
Naphthalene	15.9	µg/L	SW8260D	0.704	1.00	20.00	0	79.6	55 - 128				
Tetrahydrofuran	19.8	µg/L	SW8260D	0.436	1.00	20.00	0	99.1	59 - 135				
Toluene	18.6	µg/L	SW8260D	0.177	1.00	20.00	0	93.3	69 - 129				
Xylenes, Total	56.2	µg/L	SW8260D	0.253	1.00	60.00	0	93.7	66 - 124				
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260D			50.00		107	80 - 136				
Surr: 4-Bromofluorobenzene	46.6	µg/L	SW8260D			50.00		93.2	85 - 121				
Surr: Dibromofluoromethane	50.9	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	48.8	µg/L	SW8260D			50.00		97.7	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2001497

Project: 1st Quarter Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2001497-001AMSD		Date Analyzed: 01/24/2020 902h											
Test Code: 8260D-W-DEN100													
2-Butanone	21.3	µg/L	SW8260D	1.31	20.0	20.00	0	106	74 - 236	20.3	4.86	35	
Acetone	20.8	µg/L	SW8260D	2.87	20.0	20.00	0	104	70 - 350	20.2	2.73	35	
Benzene	21.7	µg/L	SW8260D	0.147	1.00	20.00	0	108	82 - 132	19.7	9.71	35	
Carbon tetrachloride	21.9	µg/L	SW8260D	0.262	1.00	20.00	0	110	77 - 143	19.5	11.6	35	
Chloroform	22.5	µg/L	SW8260D	0.166	1.00	20.00	0	112	85 - 124	20.1	11.0	35	
Chloromethane	18.3	µg/L	SW8260D	0.832	1.00	20.00	0	91.5	30 - 149	18.1	1.32	35	
Methylene chloride	24.2	µg/L	SW8260D	0.448	1.00	20.00	0	121	65 - 154	22.2	8.65	35	
Naphthalene	18.6	µg/L	SW8260D	0.704	1.00	20.00	0	93.0	55 - 128	15.9	15.5	35	
Tetrahydrofuran	20.7	µg/L	SW8260D	0.436	1.00	20.00	0	103	59 - 135	19.8	4.20	35	
Toluene	20.8	µg/L	SW8260D	0.177	1.00	20.00	0	104	69 - 129	18.7	10.7	35	
Xylenes, Total	63.3	µg/L	SW8260D	0.253	1.00	60.00	0	106	66 - 124	56.2	11.9	35	
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	47.0	µg/L	SW8260D			50.00		94.0	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	48.9	µg/L	SW8260D			50.00		97.7	81 - 123				

WORK ORDER Summary

Work Order: **2001497** Page 1 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 2/6/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: 1st Quarter Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD.;
Samples for metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001497-001A	MW-24_01222020	1/22/2020 0930h	1/23/2020 1200h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2001497-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
2001497-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	df - tds	
				<i>1 SEL Analytes: TDS</i>				
2001497-001D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
2001497-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
2001497-002A	MW-24A_01212020	1/21/2020 0925h	1/23/2020 1200h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2001497-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				

WORK ORDER Summary

Work Order: **2001497** Page 2 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 2/6/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
2001497-002C	MW-24A_01212020	1/21/2020 0925h	1/23/2020 1200h	TDS-W-2540C	Aqueous	<input checked="" type="checkbox"/>	df - tds	1	
				<i>1 SEL Analytes: TDS</i>					
2001497-002D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NH3N</i>					
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>					
2001497-002E				200.7-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>5 SEL Analytes: CA MG K NA V</i>					
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				200.8-DIS		<input checked="" type="checkbox"/>	df-met		
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>					
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met		
	HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met					
	<i>1 SEL Analytes: HG</i>								
	HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met					
	IONBALANCE		<input checked="" type="checkbox"/>	df-met					
	<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>								
2001497-003A	MW-38_01222020	1/22/2020 0800h	1/23/2020 1200h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3	
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>					
2001497-003B				300.0-W		<input checked="" type="checkbox"/>	df - wc		1
				<i>3 SEL Analytes: CL F SO4</i>					
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc		
				<i>2 SEL Analytes: ALKB ALKC</i>					
2001497-003C				TDS-W-2540C		<input checked="" type="checkbox"/>	df - tds		
				<i>1 SEL Analytes: TDS</i>					
2001497-003D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NH3N</i>					
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>					
2001497-003E	200.7-DIS		<input checked="" type="checkbox"/>	df-met					
	<i>5 SEL Analytes: CA MG K NA V</i>								
	200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met					
	200.8-DIS		<input checked="" type="checkbox"/>	df-met					
	<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>								
	200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met					

WORK ORDER Summary

Client: Energy Fuels Resources, Inc.

Due Date: 2/6/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001497-003E	MW-38_01222020	1/22/2020 0800h	1/23/2020 1200h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				HG-DW-DIS-PR <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
2001497-004A	MW-39_01202020	1/20/2020 1125h	1/23/2020 1200h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001497-004B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001497-004C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001497-004D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001497-004E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
2001497-005A	MW-40_01202020	1/20/2020 1155h	1/23/2020 1200h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001497-005B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001497-005C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	

WORK ORDER Summary

Work Order: **2001497** Page 4 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 2/6/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2001497-005D	MW-40_01202020	1/20/2020 1155h	1/23/2020 1200h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001497-005E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
2001497-006A	MW-65_01202020	1/20/2020 1155h	1/23/2020 1200h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2001497-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
2001497-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	df - tds	
2001497-006D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2001497-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	

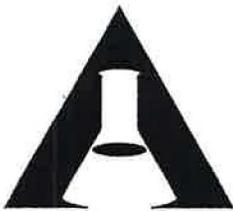
WORK ORDER Summary

Work Order: **2001497**

Client: Energy Fuels Resources, Inc.

Due Date: 2/6/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage			
2001497-006E	MW-65_01202020	1/20/2020 1155h	1/23/2020 1200h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1		
				IONBALANCE		<input checked="" type="checkbox"/>	df-met			
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc						
2001497-007A	Trip Blank	1/20/2020 1125h	1/23/2020 1200h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3		
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4						
2001497-008A	MW-27_01162020	1/16/2020 1300h	1/23/2020 1200h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	DF-NO2/NO3	1		
1 SEL Analytes: NO3NO2N										
2001497-009A	MW-28_01162020	1/16/2020 1415h	1/23/2020 1200h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	DF-Cl	1		
1 SEL Analytes: CL										
2001497-009B				200.8-DIS		<input checked="" type="checkbox"/>	DF-Metals			
				2 SEL Analytes: SE U						
				200.8-DIS-PR		<input type="checkbox"/>	DF-Metals			



**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.

200/499

AWAL Lab Sample Set #
 Page 2 of 2

QC Level: 3	Turn Around Time: Standard	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
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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 2020**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO ₂ /NO ₃ (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)	F1 (4500 or 300.0)	Dissolved Beryllium (200.7/200.8)	Ammonia (350.1)	Dissolved Nickel (200.7/200.8)	Known Hazards & Sample Comments	
																		For Compliance With:
1																		
2																		
3																		
4	MW-27_01162020	1/16/2020	1300	1	W	X												
5	MW-28_01162020	1/16/2020	1415	2	W		X	X	X									
6																		
7																		
8																		
9																		
10																		
11																		
12																		

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

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

Laboratory Use Only

Samples Were: WAS
 Shipped or hand delivered
 Ambient or Chilled
 Temperature: 0.3 °C

Received Broken/Leaking (Improperly Sealed)
 Y N

Properly Preserved
 Y N

Unpacked at bench
 Y N NA

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: <u>Tanner Holliday</u> Signature	Date: 1/22/2020 Time:	Received by: <u>Elwan Hay</u> Signature	Date: 1-23-2020 Time: 1200	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1130	Print Name: Elwan Hay		
Relinquished by: _____ Signature	Date: _____ Time:	Received by: _____ Signature	Date: _____ Time:	
Print Name: _____		Print Name: _____		
Relinquished by: _____ Signature	Date: _____ Time:	Received by: _____ Signature	Date: _____ Time:	
Print Name: _____		Print Name: _____		

Lab Set ID: 2001497

pH Lot #: 6179

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	8	9										
Ammonia	pH <2 H ₂ SO ₄	Yes	Yes	Yes	Yes	Yes	Yes												
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	Yes	Yes	Yes	Yes	Yes	Yes		Yes										
NO ₂ /NO ₃	pH <2 H ₂ SO ₄	Yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO ₄																		
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																		

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

Frequency: All samples requiring preservation

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



February 25, 2020

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

Re: White Mesa Mill GW
Work Order: 502102

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 24, 2020. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This package was revised to correct the sample ID for 502102014 to MW-36_01142020.

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 502102**

This package was revised to correct the sample ID for 502102014 to MW-36_01142020.

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 502102**

February 25, 2020

Laboratory Identification:

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

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 24, 2020 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
502102001	MW-28_01162020
502102002	MW-11_01152020
502102003	MW-14_01152020
502102004	MW-24_01222020
502102005	MW-24A_01212020
502102006	MW-25_01152020
502102007	MW-26_01152020
502102008	MW-30_01152020
502102009	MW-31_01142020
502102010	MW-38_01222020
502102011	MW-39_01202020
502102012	MW-40_01202020
502102013	MW-65_01202020
502102014	MW-36_01142020

Case Narrative:

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

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

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

Julie Robinson
Project Manager

502102



CHAIN OF CUSTODY

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

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
Q1 Ground Water 2019	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-28_01162020	1/16/2020	1415	Gross Alpha
MW-11_01152020	1/15/2020	1200	Gross Alpha <i>Client will resubmit. Jan 1/24/2020</i>
MW-14_01152020	1/15/2020	1515	Gross Alpha
MW-24_01222020	1/22/2020	930	Gross Alpha
MW-24A_01212020	1/21/2020	925	Gross Alpha
MW-25_01152020	1/15/2020	1055	Gross Alpha
MW-26_01152020	1/15/2020	900	Gross Alpha
MW-30_01152020	1/15/2020	1445	Gross Alpha
MW-31_01142020	1/14/2020	1410	Gross Alpha
MW-38_01222020	1/22/2020	800	Gross Alpha
MW-39_01202020	1/20/2020	1125	Gross Alpha
MW-40_01202020	1/20/2020	1155	Gross Alpha
MW-65_01202020	1/20/2020	1155	Gross Alpha
MW-36_01142020	1/14/2020	1435	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i> Tanner Holliday	Date/Time 1/22/2020 1130	Received By:(Signature) <i>[Signature]</i>	Date/Time <i>1/22/2020</i> 1135
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

Subject: RE: Energy Fuels COC
From: "N. Tanner Holliday" <tholliday@energyfuels.com>
Date: 1/24/2020, 10:09 AM
To: Julie Robinson <Julie.Robinson@gel.com>

Yes Julie it should be 2020. That was my mistake. Thanks for catching it.

Energy Fuels Resources (USA) Inc.

N. Tanner Holliday
Environmental Tech

t: 435-678-2221 | f: 435-678-2224
6425 S. Highway 191
Blanding, UT 84511

<http://www.energyfuels.com>

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From: Julie Robinson [mailto:Julie.Robinson@gel.com]
Sent: Friday, January 24, 2020 7:56 AM
To: Kathy Weinel; N. Tanner Holliday
Subject: Energy Fuels COC

Caution: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Kathy,

I was checking to see if the attached COC should be for Q1 Ground Water 2020 instead of Q1 Ground Water 2019.

Thanks - Julie

--
Julie Robinson
Project Manager



2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Direct: 843.769.7393 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: julie.robinson@gel.com | Website: www.gel.com
Analytical Testing

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<http://www.gellaboratories.com>

GEL Laboratories LLC – Login Review Report

Report Date: 25-FEB-20

Work Order: 502102

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GEL Work Order/SDG: 502102 Q1 Ground Water 2020
 Client SDG: 502102
 Project Manager: Julie Robinson
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 21-FEB-20
 Package Due Date: 19-FEB-20
 EDD Due Date: 21-FEB-20
 Due Date: 21-FEB-20
 JAR1

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

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
502102001	MW-28_01162020		16-JAN-20 14:15	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102002	MW-11_01152020		15-JAN-20 12:00	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102003	MW-14_01152020		15-JAN-20 15:15	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102004	MW-24_01222020		22-JAN-20 09:30	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102005	MW-24A_01212020		21-JAN-20 09:25	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102006	MW-25_01152020		15-JAN-20 10:55	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102007	MW-26_01152020		15-JAN-20 09:00	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102008	MW-30_01152020		15-JAN-20 14:45	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102009	MW-31_01142020		14-JAN-20 14:10	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102010	MW-38_01222020		22-JAN-20 08:00	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102011	MW-39_01202020		20-JAN-20 11:25	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102012	MW-40_01202020		20-JAN-20 11:55	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102013	MW-65_01202020		20-JAN-20 11:55	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		
502102014	MW-36_01142020		14-JAN-20 14:35	24-JAN-20 09:35	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-28_01162020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-11_01152020							
-003 MW-14_01152020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-24_01222020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-24A_01212020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-25_01152020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-26_01152020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-30_01152020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-009 MW-31_01142020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-010 MW-38_01222020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-011 MW-39_01202020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

GEL Laboratories LLC – Login Review Report

Report Date: 25-FEB-20

Work Order: 502102

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-012 MW-40_01202020	REVW	Liquid GFPC, Total Alpha Radium,	Gross Alpha
-013 MW-65_01202020	REVW	Liquid GFPC, Total Alpha Radium,	Gross Alpha
-014 MW-36_01142020	REVW	Liquid GFPC, Total Alpha Radium,	Gross Alpha

Product: GFCTORAL Workdef ID: 1458614 In Product Group? No Group Name: Group Reference:
 Method: EPA 903.0 Path: Drinking Water (903.0 or 9315)
 Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha
 Samples: 001, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014 Moisture Correction: "As Received"
 Parmname Check: All parmnames scheduled properly

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

Action	Product Name	Description	Samples
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Contingent Tests

Login Requirements:

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

List of current GEL Certifications as of 25 February 2020

State	Certification
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	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-20-16
Utah NELAP	SC000122019-30
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 502102**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

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

Analytical Batch: 1964624

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
502102001	MW-28_01162020
502102003	MW-14_01152020
502102004	MW-24_01222020
502102005	MW-24A_01212020
502102006	MW-25_01152020
502102007	MW-26_01152020
502102008	MW-30_01152020
502102009	MW-31_01142020
502102010	MW-38_01222020
502102011	MW-39_01202020
502102012	MW-40_01202020
502102013	MW-65_01202020
502102014	MW-36_01142020
1204488227	Method Blank (MB)
1204488228	502102012(MW-40_01202020) Sample Duplicate (DUP)
1204488229	502102012(MW-40_01202020) Matrix Spike (MS)
1204488230	502102012(MW-40_01202020) Matrix Spike Duplicate (MSD)
1204488231	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 1204488229 (MW-40_01202020MS) and 1204488231 (LCS) were recounted due to high recovery. The recounts are reported. Samples 502102001 (MW-28_01162020) and 502102005 (MW-24A_01212020) were recounted to decrease uncertainty. The recounts are reported. Samples 1204488228 (MW-40_01202020DUP) and 502102012 (MW-40_01202020) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 502102 GEL Work Order: 502102

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: 25 FEB 2020

Title: Group Leader

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 25, 2020

Page 1 of

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

Workorder: 502102

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1964624										
QC1204488228	502102012	DUP									
Gross Radium Alpha		1.26		1.25	pCi/L	0.877		(0% - 100%)	LXB3	02/15/20	19:1
	Uncertainty	+/-0.280		+/-0.286							
QC1204488231	LCS										
Gross Radium Alpha	554			443	pCi/L		79.8	(75%-125%)		02/15/20	19:1
	Uncertainty			+/-5.97							
QC1204488227	MB										
Gross Radium Alpha			U	0.469	pCi/L					02/14/20	14:3
	Uncertainty			+/-0.264							
QC1204488229	502102012	MS									
Gross Radium Alpha	4490	1.26		4890	pCi/L		109	(75%-125%)		02/15/20	19:1
	Uncertainty	+/-0.280		+/-66.6							
QC1204488230	502102012	MSD									
Gross Radium Alpha	4490	1.26		4940	pCi/L	0.979	110	(0%-20%)		02/14/20	14:2
	Uncertainty	+/-0.280		+/-68.4							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).
The Qualifiers in this report are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 502102

Page 2 of

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
M		Matrix Related Failure								
N/A		RPD or %Recovery limits do not apply.								
N1		See case narrative								
ND		Analyte concentration is not detected above the detection limit								
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the CRDL.								
UI		Gamma Spectroscopy--Uncertain identification								
UJ		Gamma Spectroscopy--Uncertain identification								
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Y		QC Samples were not spiked with this compound								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
h		Preparation or preservation holding time was exceeded								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
 ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.
 For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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



February 26, 2020

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

Re: White Mesa Mill GW
Work Order: 502847

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2020. 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,

Samuel Hogan for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 502847**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 502847**

February 26, 2020

Laboratory Identification:

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

Summary:

Sample receipt: The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on January 31, 2020 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

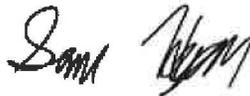
Sample Identification: The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
502847001	MW-11_01282020

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.



Samuel Hogan for
Julie Robinson
Project Manager



Client: <u>DNMI</u>		SDG/AR/COC/Work Order:	
Received By: <u>AgA</u>		Date Received: <u>1/31/20</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground <u>(UPS)</u> Field Services Courier Other <u>1Z 187 Y4V 02 9027 1599</u>	
Suspected Hazard Information		Yes	No
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria		Yes	NA
Comments/Qualifiers (Required for Non-Conforming Items)			
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice <u>(None)</u> Other: *all temperatures are recorded in Celsius TEMP: <u>21°</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>LR4-16</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
			Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):			

GEL Laboratories LLC – Login Review Report

Report Date: 19-FEB-20

Work Order: 502847

Page 1 of 2

GEL Work Order/SDG: 502847 Q1 Ground Water 2020
 Client SDG: 502847
 Project Manager: Julie Robinson
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 28-FEB-20
 Package Due Date: 26-FEB-20
 EDD Due Date: 28-FEB-20
 Due Date: 28-FEB-20
 SH2

Collector: C
 Prelogin #: 202001103956
 Project Workdef ID: 1294356
 SDG Status: Closed
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
502847001	MW-11_01282020		28-JAN-20 11:55	31-JAN-20 09:45	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-11_01282020	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

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

Parmname Check: All parmnames scheduled properly

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

Action	Product Name	Description	Samples
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Contingent Tests

Login Requirements:

Requirement	Include?	Comments
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GEL Laboratories LLC – Login Review Report

Report Date: 19-FEB-20

Work Order: 502847

Page 2 of 2

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

List of current GEL Certifications as of 19 February 2020

State	Certification
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 (A133904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-19-15
Utah NELAP	SC000122019-30
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 502847**

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 903.0
Analytical Procedure: GL-RAD-A-044 REV# 10
Analytical Batch: 1964624

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
502847001	MW-11_01282020
1204488227	Method Blank (MB)
1204488228	502102012(MW-40_01202020) Sample Duplicate (DUP)
1204488229	502102012(MW-40_01202020) Matrix Spike (MS)
1204488230	502102012(MW-40_01202020) Matrix Spike Duplicate (MSD)
1204488231	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 1204488229 (MW-40_01202020MS) and 1204488231 (LCS) were recounted due to high recovery. The recounts are reported. Sample 502847001 (MW-11_01282020) was recounted to decrease uncertainty. The recount is reported. Sample 1204488228 (MW-40_01202020DUP) was recounted due to high relative percent difference/relative error ratio. The recount is reported.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 502847 GEL Work Order: 502847

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: 20 FEB 2020

Title: Group Leader

GEL LABORATORIES LLC

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QC Summary

Report Date: February 17, 2020

Page 1 of

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

Contact: Ms. Kathy Weinel

Workorder: 502847

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1964624										
QC1204488228	502102012	DUP									
Gross Radium Alpha		1.26		1.25	pCi/L	0.877		(0% - 100%)	LXB3	02/15/20	19:1
	Uncertainty	+/-0.280		+/-0.286							
QC1204488231	LCS										
Gross Radium Alpha	554			443	pCi/L		79.8	(75%-125%)		02/15/20	19:1
	Uncertainty			+/-5.97							
QC1204488227	MB										
Gross Radium Alpha			U	0.469	pCi/L					02/14/20	14:3
	Uncertainty			+/-0.264							
QC1204488229	502102012	MS									
Gross Radium Alpha	4490	1.26		4890	pCi/L		109	(75%-125%)		02/15/20	19:1
	Uncertainty	+/-0.280		+/-66.6							
QC1204488230	502102012	MSD									
Gross Radium Alpha	4490	1.26		4940	pCi/L	0.979	110	(0%-20%)		02/14/20	14:2
	Uncertainty	+/-0.280		+/-68.4							

Notes:

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

The Qualifiers in this report are defined as follows:

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

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QC Summary

Workorder: 502847

Page 2 of

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
M		Matrix Related Failure									
N/A		RPD or %Recovery limits do not apply.									
NI		See case narrative									
ND		Analyte concentration is not detected above the detection limit									
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the CRDL.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		QC Samples were not spiked with this compound									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h		Preparation or preservation holding time was exceeded									

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

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

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

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

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

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

February 2020



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-001
Client Sample ID: MW-11_02042020
Collection Date: 2/4/2020 1235h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	2/11/2020 945h	2/11/2020 1355h	E200.8	0.0100	0.227	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-001
Client Sample ID: MW-11_02042020
Collection Date: 2/4/2020 1235h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/13/2020 1920h	E300.0	1.00	42.1	
Sulfate	mg/L		2/13/2020 1559h	E300.0	75.0	1,260	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-002
Client Sample ID: MW-14_02042020
Collection Date: 2/4/2020 1535h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Fluoride	mg/L		2/17/2020 2336h	E300.0	0.100	0.145	
Sulfate	mg/L		2/13/2020 1616h	E300.0	375	2,190	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-003
Client Sample ID: MW-25_02052020
Collection Date: 2/5/2020 1110h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	2/11/2020 945h	2/11/2020 1426h	E200.8	0.000500	0.00152	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-004
Client Sample ID: MW-26_02042020
Collection Date: 2/4/2020 930h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	2/13/2020 810h	2/13/2020 1306h	E350.1	0.0500	0.602	1
Chloride	mg/L		2/13/2020 1936h	E300.0	1.00	66.9	
Nitrate/Nitrite (as N)	mg/L		2/7/2020 1633h	E353.2	0.100	0.978	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-004A
Client Sample ID: MW-26_02042020
Collection Date: 2/4/2020 930h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/10/2020 919h **Extracted:**
Units: µg/L **Dilution Factor:** 20 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,640	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	1,060	1,000	106	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	972	1,000	97.2	80-152	
Surr: Dibromofluoromethane		1868-53-7	1,050	1,000	105	72-135	
Surr: Toluene-d8		2037-26-5	1,020	1,000	102	80-124	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 2/7/2020 1507h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	2.76	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.4	50.00	98.8	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.6	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	50.6	50.00	101	80-124	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-005
Client Sample ID: MW-30_02052020
Collection Date: 2/5/2020 1245h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	2/11/2020 945h	2/11/2020 1456h	E200.8	0.00500	0.0499	
Uranium	mg/L	2/11/2020 945h	2/11/2020 2109h	E200.8	0.000300	0.00906	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-005
Client Sample ID: MW-30_02052020
Collection Date: 2/5/2020 1245h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/13/2020 1953h	E300.0	2.00	187	
Nitrate/Nitrite (as N)	mg/L		2/7/2020 1644h	E353.2	0.100	17.8	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-006
Client Sample ID: MW-31_02042020
Collection Date: 2/4/2020 1405h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/13/2020 1706h	E300.0	10.0	370	
Nitrate/Nitrite (as N)	mg/L		2/7/2020 1645h	E353.2	0.100	18.0	
Sulfate	mg/L		2/13/2020 1706h	E300.0	75.0	1,150	
Total Dissolved Solids	mg/L		2/7/2020 1150h	SM2540C	20.0	2,240	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-007
Client Sample ID: MW-36_02052020
Collection Date: 2/5/2020 830h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Sulfate	mg/L		2/13/2020 1756h	E300.0	375	2,540	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-008
Client Sample ID: MW-65_02052020
Collection Date: 2/5/2020 1245h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	2/11/2020 945h	2/11/2020 1459h	E200.8	0.00500	0.0495	
Uranium	mg/L	2/11/2020 945h	2/11/2020 2112h	E200.8	0.000300	0.00897	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-008
Client Sample ID: MW-65_02052020
Collection Date: 2/5/2020 1245h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/13/2020 2010h	E300.0	2.00	184	
Nitrate/Nitrite (as N)	mg/L		2/7/2020 1651h	E353.2	0.200	18.3	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Sample ID: 2002134-009A
Client Sample ID: Trip Blank
Collection Date: 2/4/2020 930h
Received Date: 2/7/2020 1022h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 2/7/2020 1447h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	49.2	50.00	98.3	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.7	50.00	99.4	72-135	
Surr: Toluene-d8		2037-26-5	51.3	50.00	103	80-124	

Kyle F. Gross

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Jose Rocha

QA Officer



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

RE: February Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2002134

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American West Analytical Laboratories received sample(s) on 2/7/2020 for the analyses presented in the following report.

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

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

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=UT00031, email=jose@awal-labs.com, c=US
	Date: 2020.02.25 10:18:23 -07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: February Ground Water 2020
Lab Set ID: 2002134
Date Received: 2/7/2020 1022h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2002134-001A	MW-11_02042020	2/4/2020 1235h	Aqueous	Anions, E300.0
2002134-001B	MW-11_02042020	2/4/2020 1235h	Aqueous	ICPMS Metals, Dissolved
2002134-002A	MW-14_02042020	2/4/2020 1535h	Aqueous	Anions, E300.0
2002134-003A	MW-25_02052020	2/5/2020 1110h	Aqueous	ICPMS Metals, Dissolved
2002134-004A	MW-26_02042020	2/4/2020 930h	Aqueous	VOA by GC/MS Method 8260D/5030C
2002134-004B	MW-26_02042020	2/4/2020 930h	Aqueous	Anions, E300.0
2002134-004C	MW-26_02042020	2/4/2020 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
2002134-004C	MW-26_02042020	2/4/2020 930h	Aqueous	Ammonia, Aqueous
2002134-005A	MW-30_02052020	2/5/2020 1245h	Aqueous	Anions, E300.0
2002134-005B	MW-30_02052020	2/5/2020 1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
2002134-005C	MW-30_02052020	2/5/2020 1245h	Aqueous	ICPMS Metals, Dissolved
2002134-006A	MW-31_02042020	2/4/2020 1405h	Aqueous	Anions, E300.0
2002134-006B	MW-31_02042020	2/4/2020 1405h	Aqueous	Nitrite/Nitrate (as N), E353.2
2002134-006C	MW-31_02042020	2/4/2020 1405h	Aqueous	Total Dissolved Solids, A2540C
2002134-007A	MW-36_02052020	2/5/2020 830h	Aqueous	Anions, E300.0
2002134-008A	MW-65_02052020	2/5/2020 1245h	Aqueous	Anions, E300.0
2002134-008B	MW-65_02052020	2/5/2020 1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
2002134-008C	MW-65_02052020	2/5/2020 1245h	Aqueous	ICPMS Metals, Dissolved
2002134-009A	Trip Blank	2/4/2020 930h	Aqueous	VOA by GC/MS Method 8260D/5030C

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Kyle F. Gross
 Laboratory Director

 Jose Rocha
 QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: February Ground Water 2020
Lab Set ID: 2002134

Sample Receipt Information:

Date of Receipt: 2/7/2020
Date(s) of Collection: 2/4/2020-2/5/2020
Sample Condition: Intact
C-O-C Discrepancies: None

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

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

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

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

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

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

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

Sample ID	Analyte	QC	Explanation
2002134-004C	Ammonia	MS/MSD	Sample matrix interference

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

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: February Ground Water 2020
Lab Set ID: 2002134

Sample Receipt Information:

Date of Receipt: 2/7/2020
Date(s) of Collection: 2/4/2020-2/5/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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General Set Comments: Multiple target analytes were observed above reporting limits.

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

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2002134

Project: February Ground Water 2020

Contact: Tanner Holliday

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-68004	Date Analyzed:		02/11/2020 1347h										
Test Code:	Date Prepared:		200.8-DIS 02/11/2020 945h										
Cadmium	0.197	mg/L	E200.8	0.0000742	0.000500	0.2000	0	98.7	85 - 115				
Manganese	0.202	mg/L	E200.8	0.000766	0.00200	0.2000	0	101	85 - 115				
Uranium	0.206	mg/L	E200.8	0.000176	0.00200	0.2000	0	103	85 - 115				
Lab Sample ID: LCS-68004	Date Analyzed:		02/11/2020 1441h										
Test Code:	Date Prepared:		200.8-DIS 02/11/2020 945h										
Selenium	0.192	mg/L	E200.8	0.000508	0.00200	0.2000	0	96.2	85 - 115				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-68004	Date Analyzed:		02/11/2020 1343h										
Test Code:	Date Prepared:		200.8-DIS 02/11/2020 945h										
Cadmium	< 0.0000500	mg/L	E200.8	0.00000742	0.0000500								
Manganese	< 0.000200	mg/L	E200.8	0.0000766	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Lab Sample ID: MB-68004	Date Analyzed:		02/11/2020 1437h										
Test Code:	Date Prepared:		200.8-DIS 02/11/2020 945h										
Selenium	< 0.00200	mg/L	E200.8	0.000508	0.00200								



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-001BMS	Date Analyzed: 02/11/2020 1404h												
Test Code: 200.8-DIS	Date Prepared: 02/11/2020 945h												
Cadmium	0.202	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000193	101	75 - 125				
Manganese	0.427	mg/L	E200.8	0.000766	0.00200	0.2000	0.227	99.7	75 - 125				
Uranium	0.213	mg/L	E200.8	0.000176	0.00200	0.2000	0.00137	106	75 - 125				
Lab Sample ID: 2002134-001BMS	Date Analyzed: 02/11/2020 1448h												
Test Code: 200.8-DIS	Date Prepared: 02/11/2020 945h												
Selenium	0.204	mg/L	E200.8	0.000508	0.00200	0.2000	0.00271	101	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-001BMSD		Date Analyzed: 02/11/2020 1407h											
Test Code: 200.8-DIS		Date Prepared: 02/11/2020 945h											
Cadmium	0.208	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000193	104	75 - 125	0.202	2.55	20	
Manganese	0.436	mg/L	E200.8	0.000766	0.00200	0.2000	0.227	105	75 - 125	0.427	2.31	20	
Uranium	0.217	mg/L	E200.8	0.000176	0.00200	0.2000	0.00137	108	75 - 125	0.213	1.86	20	
Lab Sample ID: 2002134-001BMSD		Date Analyzed: 02/11/2020 1452h											
Test Code: 200.8-DIS		Date Prepared: 02/11/2020 945h											
Selenium	0.203	mg/L	E200.8	0.000508	0.00200	0.2000	0.00271	100	75 - 125	0.204	0.663	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-006CDUP													
Date Analyzed: 02/07/2020 1150h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,270	mg/L	SM2540C	16.0	20.0					2240	1.06	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2002134

Project: February Ground Water 2020

Contact: Tanner Holliday

Dept: WC

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R135726		Date Analyzed: 02/13/2020 1040h											
Test Code: 300.0-W													
Chloride	5.06	mg/L	E300.0	0.0565	0.100	5.000	0	101	90 - 110				
Sulfate	5.29	mg/L	E300.0	0.136	0.750	5.000	0	106	90 - 110				
Lab Sample ID: LCS-R135845		Date Analyzed: 02/17/2020 1316h											
Test Code: 300.0-W													
Fluoride	5.25	mg/L	E300.0	0.0240	0.100	5.000	0	105	90 - 110				
Lab Sample ID: LCS-68068		Date Analyzed: 02/13/2020 1302h											
Test Code: NH3-W-350.1		Date Prepared: 02/13/2020 810h											
Ammonia (as N)	9.55	mg/L	E350.1	0.0473	0.0500	10.00	0	95.5	90 - 110				
Lab Sample ID: LCS-R135502		Date Analyzed: 02/07/2020 1626h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00494	0.0100	1.000	0	102	90 - 110				
Lab Sample ID: LCS-R135545		Date Analyzed: 02/07/2020 1150h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	198	mg/L	SM2540C	8.00	10.0	205.0	0	96.6	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R135726													
Date Analyzed: 02/13/2020 1058h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0565	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.136	0.750								
Lab Sample ID: MB-R135845													
Date Analyzed: 02/17/2020 1259h													
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Lab Sample ID: MB-68068													
Date Analyzed: 02/13/2020 1302h													
Test Code: NH3-W-350.1													
Date Prepared: 02/13/2020 810h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								
Lab Sample ID: MB-R135502													
Date Analyzed: 02/07/2020 1623h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00494	0.0100								
Lab Sample ID: MB-R135545													
Date Analyzed: 02/07/2020 1150h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-006AMS		Date Analyzed: 02/13/2020 1722h											
Test Code: 300.0-W													
Chloride	1,350	mg/L	E300.0	11.3	20.0	1,000	370	98.2	90 - 110				
Sulfate	2,120	mg/L	E300.0	27.2	150	1,000	1150	97.7	90 - 110				
Lab Sample ID: 2002134-004CMS		Date Analyzed: 02/13/2020 1306h											
Test Code: NH3-W-350.1		Date Prepared: 02/13/2020 810h											
Ammonia (as N)	12.7	mg/L	E350.1	0.0473	0.0500	10.00	0.602	121	90 - 110				1
Lab Sample ID: 2002134-004CMS		Date Analyzed: 02/07/2020 1634h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.34	mg/L	E353.2	0.0247	0.0500	5.000	0.978	107	90 - 110				

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-006AMSD Date Analyzed: 02/13/2020 1739h													
Test Code: 300.0-W													
Chloride	1,360	mg/L	E300.0	11.3	20.0	1,000	370	99.3	90 - 110	1350	0.757	20	
Sulfate	2,140	mg/L	E300.0	27.2	150	1,000	1150	98.9	90 - 110	2120	0.551	20	
Lab Sample ID: 2002134-004CMSD Date Analyzed: 02/13/2020 1307h													
Test Code: NH3-W-350.1 Date Prepared: 02/13/2020 810h													
Ammonia (as N)	12.6	mg/L	E350.1	0.0473	0.0500	10.00	0.602	120	90 - 110	12.7	1.34	10	1
Lab Sample ID: 2002134-004CMSD Date Analyzed: 02/07/2020 1642h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.26	mg/L	E353.2	0.0247	0.0500	5.000	0.978	106	90 - 110	6.34	1.35	10	

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2002134

Project: February Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 020720A		Date Analyzed: 02/07/2020 949h											
Test Code: 8260D-W-DEN100													
Chloroform	20.6	µg/L	SW8260D	0.166	1.00	20.00	0	103	85 - 124				
Methylene chloride	24.3	µg/L	SW8260D	0.381	1.00	20.00	0	121	65 - 154				
Surr: 1,2-Dichloroethane-d4	50.0	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	45.8	µg/L	SW8260D			50.00		91.5	85 - 121				
Surr: Dibromofluoromethane	50.3	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	50.3	µg/L	SW8260D			50.00		101	81 - 123				
Lab Sample ID: LCS VOC-1 021020A		Date Analyzed: 02/10/2020 839h											
Test Code: 8260D-W-DEN100													
Chloroform	21.7	µg/L	SW8260D	0.166	1.00	20.00	0	109	85 - 124				
Surr: 1,2-Dichloroethane-d4	50.8	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	47.5	µg/L	SW8260D			50.00		95.0	85 - 121				
Surr: Dibromofluoromethane	50.9	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	51.8	µg/L	SW8260D			50.00		104	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2002134

Project: February Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 020720A		Date Analyzed: 02/07/2020 929h											
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.381	1.00								
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260D			50.00		100	85 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260D			50.00		104	78 - 132				
Surr: Toluene-d8	51.8	µg/L	SW8260D			50.00		104	81 - 123				
Lab Sample ID: MB VOC-1 021020A		Date Analyzed: 02/10/2020 859h											
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260D			50.00		107	80 - 136				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260D			50.00		106	78 - 132				
Surr: Toluene-d8	51.3	µg/L	SW8260D			50.00		103	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2002134
Project: February Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-004AMS		Date Analyzed: 02/10/2020 939h											
Test Code: 8260D-W-DEN100													
Chloroform	2,060	µg/L	SW8260D	3.32	20.0	400.0	1640	107	85 - 124				
Surr: 1,2-Dichloroethane-d4	990	µg/L	SW8260D			1,000		99.0	80 - 136				
Surr: 4-Bromofluorobenzene	910	µg/L	SW8260D			1,000		91.0	85 - 121				
Surr: Dibromofluoromethane	996	µg/L	SW8260D			1,000		99.6	78 - 132				
Surr: Toluene-d8	999	µg/L	SW8260D			1,000		99.9	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2002134

Project: February Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2002134-004AMSD		Date Analyzed: 02/10/2020 959h											
Test Code: 8260D-W-DEN100													
Chloroform	1,980	µg/L	SW8260D	3.32	20.0	400.0	1640	86.8	85 - 124	2060	3.91	35	
Surr: 1,2-Dichloroethane-d4	987	µg/L	SW8260D			1,000		98.7	80 - 136				
Surr: 4-Bromofluorobenzene	927	µg/L	SW8260D			1,000		92.7	85 - 121				
Surr: Dibromofluoromethane	1,000	µg/L	SW8260D			1,000		100	78 - 132				
Surr: Toluene-d8	980	µg/L	SW8260D			1,000		98.0	81 - 123				

WORK ORDER Summary

Work Order: **2002134** Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 2/21/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: February Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; Metals samples were field filtered;

KL

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2002134-001A	MW-11_02042020	2/4/2020 1235h	2/7/2020 1022h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
2002134-001B				200.8-DIS <i>1 SEL Analytes: MN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
2002134-002A	MW-14_02042020	2/4/2020 1535h	2/7/2020 1022h	300.0-W <i>2 SEL Analytes: F SO4</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
2002134-003A	MW-25_02052020	2/5/2020 1110h	2/7/2020 1022h	200.8-DIS <i>1 SEL Analytes: CD</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
2002134-004A	MW-26_02042020	2/4/2020 0930h	2/7/2020 1022h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
2002134-004B				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - wc	1
2002134-004C				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2002134-005A	MW-30_02052020	2/5/2020 1245h	2/7/2020 1022h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
2002134-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
2002134-005C				200.8-DIS <i>2 SEL Analytes: SE U</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
2002134-006A	MW-31_02042020	2/4/2020 1405h	2/7/2020 1022h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1

WORK ORDER Summary

Work Order: **2002134** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 2/21/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2002134-006B	MW-31_02042020	2/4/2020 1405h	2/7/2020 1022h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
				1 SEL Analytes: NO3NO2N				
2002134-006C				TDS-W-2540C		<input checked="" type="checkbox"/>	WW-TDS	
				1 SEL Analytes: TDS				
2002134-007A	MW-36_02052020	2/5/2020 0830h	2/7/2020 1022h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: SO4				
2002134-008A	MW-65_02052020	2/5/2020 1245h	2/7/2020 1022h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
2002134-008B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2002134-008C				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				2 SEL Analytes: SE U				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
2002134-009A	Trip Blank	2/4/2020 0930h	2/7/2020 1022h	8260D-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4				

Lab Set ID: 2002134
 pH Lot #: 6179

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	3	4	5	6	8												
Ammonia	pH <2 H ₂ SO ₄			Yes															
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	Yes	Yes		Yes		Yes												
NO ₂ /NO ₃	pH <2 H ₂ SO ₄			Yes	Yes	Yes	Yes												
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO ₄																		
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																		

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

Frequency: All samples requiring preservation

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

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

March 2020



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: March Ground Water 2020
Lab Sample ID: 2003334-001
Client Sample ID: MW-11_03102020
Collection Date: 3/10/2020 1150h
Received Date: 3/13/2020 1010h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	3/19/2020 1110h	3/25/2020 1658h	E200.8	0.0100	0.183	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-001

Client Sample ID: MW-11_03102020

Collection Date: 3/10/2020 1150h

Received Date: 3/13/2020 1010h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		3/19/2020 1449h	E300.0	1.00	41.0	
Sulfate	mg/L		3/19/2020 1004h	E300.0	75.0	1,120	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: March Ground Water 2020
Lab Sample ID: 2003334-002
Client Sample ID: MW-14_03102020
Collection Date: 3/10/2020 1440h
Received Date: 3/13/2020 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Fluoride	mg/L		3/19/2020 1506h	E300.0	0.100	< 0.100	
Sulfate	mg/L		3/19/2020 1021h	E300.0	150	2,150	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-003

Client Sample ID: MW-25_03112020

Collection Date: 3/11/2020 1135h

Received Date: 3/13/2020 1010h

Analytical Results

DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Cadmium	mg/L	3/19/2020 1110h	3/25/2020 1712h	E200.8	0.000500	0.00141	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: March Ground Water 2020
Lab Sample ID: 2003334-004
Client Sample ID: MW-26_03102020
Collection Date: 3/10/2020 900h
Received Date: 3/13/2020 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	3/20/2020 1051h	3/20/2020 1501h	E350.1	0.0500	0.387	
Chloride	mg/L		3/19/2020 1539h	E300.0	1.00	76.9	
Nitrate/Nitrite (as N)	mg/L		3/13/2020 1139h	E353.2	0.100	1.60	

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-004C

Client Sample ID: MW-26_03102020

Collection Date: 3/10/2020 900h

Received Date: 3/13/2020 1010h

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 3/13/2020 1247h

Extracted:

Units: µg/L

Dilution Factor: 100

Method: SW8260D

3440 South 700 West
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	1,720	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	5,420	5,000	108	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	5,030	5,000	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	4,880	5,000	97.6	72-135	
Surr: Toluene-d8		2037-26-5	4,960	5,000	99.2	80-124	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 3/13/2020 1213h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

web: www.awal-labs.com

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	4.44	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.8	50.00	110	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	50.2	50.00	100	80-124	

The reporting limits were raised due to high analyte concentrations.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-005

Client Sample ID: MW-30_03112020

Collection Date: 3/11/2020 1100h

Received Date: 3/13/2020 1010h

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	3/19/2020 1110h	3/25/2020 1724h	E200.8	0.00500	0.0481	
Uranium	mg/L	3/19/2020 1110h	3/26/2020 1700h	E200.8	0.000300	0.00950	

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Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: March Ground Water 2020
Lab Sample ID: 2003334-005
Client Sample ID: MW-30_03112020
Collection Date: 3/11/2020 1100h
Received Date: 3/13/2020 1010h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/19/2020 1556h	E300.0	2.00	182	
Nitrate/Nitrite (as N)	mg/L		3/13/2020 1146h	E353.2	0.200	19.0	

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Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-006

Client Sample ID: MW-31_03102020

Collection Date: 3/10/2020 1325h

Received Date: 3/13/2020 1010h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/19/2020 1037h	E300.0	10.0	368	
Nitrate/Nitrite (as N)	mg/L		3/13/2020 1144h	E353.2	0.500	19.2	
Sulfate	mg/L		3/19/2020 1037h	E300.0	75.0	1,080	
Total Dissolved Solids	mg/L		3/16/2020 1400h	SM2540C	20.0	2,380	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: March Ground Water 2020
Lab Sample ID: 2003334-007
Client Sample ID: MW-36_03102020
Collection Date: 3/10/2020 1500h
Received Date: 3/13/2020 1010h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Sulfate	mg/L		3/19/2020 1128h	E300.0	150	2,890	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-008

Client Sample ID: MW-65_03102020

Collection Date: 3/10/2020 1325h

Received Date: 3/13/2020 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/19/2020 1144h	E300.0	20.0	386	
Nitrate/Nitrite (as N)	mg/L		3/13/2020 1145h	E353.2	0.100	18.7	
Sulfate	mg/L		3/19/2020 1144h	E300.0	150	1,160	
Total Dissolved Solids	mg/L		3/16/2020 1400h	SM2540C	20.0	2,490	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Project: March Ground Water 2020

Lab Sample ID: 2003334-009A

Client Sample ID: Trip Blank

Collection Date: 3/10/2020 900h

Received Date: 3/13/2020 1010h

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 3/13/2020 1154h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.3	50.00	109	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.4	50.00	98.8	72-135	
Surr: Toluene-d8		2037-26-5	50.8	50.00	102	80-124	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



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

RE: March Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2003334

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 3/13/2020 for the analyses presented in the following report.

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

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

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=UT00031, email=jose@awal-labs.com, c=US Date: 2020.04.01 14:42:55 -06'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: March Ground Water 2020
Lab Set ID: 2003334
Date Received: 3/13/2020 1010h

Contact: Tanner Holliday

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2003334-001A	MW-11_03102020	3/10/2020 1150h	Aqueous	Anions, E300.0
2003334-001B	MW-11_03102020	3/10/2020 1150h	Aqueous	ICPMS Metals, Dissolved
2003334-002A	MW-14_03102020	3/10/2020 1440h	Aqueous	Anions, E300.0
2003334-003A	MW-25_03112020	3/11/2020 1135h	Aqueous	ICPMS Metals, Dissolved
2003334-004A	MW-26_03102020	3/10/2020 900h	Aqueous	Anions, E300.0
2003334-004B	MW-26_03102020	3/10/2020 900h	Aqueous	Ammonia, Aqueous
2003334-004B	MW-26_03102020	3/10/2020 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
2003334-004C	MW-26_03102020	3/10/2020 900h	Aqueous	VOA by GC/MS Method 8260D/5030C
2003334-005A	MW-30_03112020	3/11/2020 1100h	Aqueous	Anions, E300.0
2003334-005B	MW-30_03112020	3/11/2020 1100h	Aqueous	ICPMS Metals, Dissolved
2003334-005C	MW-30_03112020	3/11/2020 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
2003334-006A	MW-31_03102020	3/10/2020 1325h	Aqueous	Anions, E300.0
2003334-006B	MW-31_03102020	3/10/2020 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
2003334-006C	MW-31_03102020	3/10/2020 1325h	Aqueous	Total Dissolved Solids, A2540C
2003334-007A	MW-36_03102020	3/10/2020 1500h	Aqueous	Anions, E300.0
2003334-008A	MW-65_03102020	3/10/2020 1325h	Aqueous	Anions, E300.0
2003334-008B	MW-65_03102020	3/10/2020 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
2003334-008C	MW-65_03102020	3/10/2020 1325h	Aqueous	Total Dissolved Solids, A2540C
2003334-009A	Trip Blank	3/10/2020 900h	Aqueous	VOA by GC/MS Method 8260D/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: March Ground Water 2020
Lab Set ID: 2003334

Sample Receipt Information:

3440 South 700 West
Salt Lake City, UT 84119

Date of Receipt: 3/13/2020
Date(s) of Collection: 3/10-3/11/2020
Sample Condition: Intact
C-O-C Discrepancies: None

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e-mail: awal@awal-labs.com

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

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

web: www.awal-labs.com

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

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

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

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: March Ground Water 2020
Lab Set ID: 2003334

Sample Receipt Information:

3440 South 700 West
Salt Lake City, UT 84119

Date of Receipt: 3/13/2020
Date(s) of Collection: 3/10-3/11/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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General Set Comments: Multiple target analytes were observed above reporting limits.

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

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-68733	Date Analyzed: 03/25/2020 1655h												
Test Code: 200.8-DIS	Date Prepared: 03/19/2020 1110h												
Cadmium	0.189	mg/L	E200.8	0.0000742	0.000500	0.2000	0	94.4	85 - 115				
Manganese	0.197	mg/L	E200.8	0.000766	0.00200	0.2000	0	98.7	85 - 115				
Selenium	0.188	mg/L	E200.8	0.000508	0.00200	0.2000	0	94.1	85 - 115				
Uranium	0.209	mg/L	E200.8	0.000176	0.00200	0.2000	0	104	85 - 115				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-68733	Date Analyzed: 03/25/2020 1652h												
Test Code: 200.8-DIS	Date Prepared: 03/19/2020 1110h												
Cadmium	< 0.0000500	mg/L	E200.8	0.00000742	0.0000500								
Manganese	< 0.000200	mg/L	E200.8	0.0000766	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.0000508	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-001BMS	Date Analyzed: 03/25/2020 1706h												
Test Code: 200.8-DIS	Date Prepared: 03/19/2020 1110h												
Cadmium	0.184	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000125	91.9	75 - 125				
Manganese	0.369	mg/L	E200.8	0.000766	0.00200	0.2000	0.183	93.0	75 - 125				
Selenium	0.190	mg/L	E200.8	0.000508	0.00200	0.2000	0.00185	93.9	75 - 125				
Uranium	0.205	mg/L	E200.8	0.000176	0.00200	0.2000	0.00108	102	75 - 125				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-001BMSD	Date Analyzed: 03/25/2020 1709h												
Test Code: 200.8-DIS	Date Prepared: 03/19/2020 1110h												
Cadmium	0.188	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000125	93.9	75 - 125	0.184	2.08	20	
Manganese	0.371	mg/L	E200.8	0.000766	0.00200	0.2000	0.183	94.3	75 - 125	0.369	0.698	20	
Selenium	0.190	mg/L	E200.8	0.000508	0.00200	0.2000	0.00185	94.0	75 - 125	0.19	0.0994	20	
Uranium	0.206	mg/L	E200.8	0.000176	0.00200	0.2000	0.00108	102	75 - 125	0.205	0.543	20	



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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-006CDUP		Date Analyzed: 03/16/2020 1400h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,350	mg/L	SM2540C	16.0	20.0					2380	1.35	5	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R136772		Date Analyzed: 03/18/2020 2007h											
Test Code: 300.0-W													
Chloride	4.89	mg/L	E300.0	0.0565	0.100	5.000	0	97.8	90 - 110				
Fluoride	4.94	mg/L	E300.0	0.0240	0.100	5.000	0	98.9	90 - 110				
Sulfate	4.76	mg/L	E300.0	0.136	0.750	5.000	0	95.1	90 - 110				
Lab Sample ID: LCS-68750		Date Analyzed: 03/20/2020 1500h											
Test Code: NH3-W-350.1		Date Prepared: 03/20/2020 1051h											
Ammonia (as N)	1.96	mg/L	E350.1	0.0473	0.0500	2.000	0	98.2	90 - 110				
Lab Sample ID: LCS-R136617		Date Analyzed: 03/13/2020 954h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00494	0.0100	1.000	0	103	90 - 110				
Lab Sample ID: LCS-R136709		Date Analyzed: 03/16/2020 1400h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	200	mg/L	SM2540C	8.00	10.0	205.0	0	97.6	80 - 120				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R136772													
Date Analyzed: 03/18/2020 1950h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0565	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.136	0.750								
Lab Sample ID: MB-68750													
Date Analyzed: 03/20/2020 1459h													
Test Code: NH3-W-350.1													
Date Prepared: 03/20/2020 1051h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								
Lab Sample ID: MB-R136617													
Date Analyzed: 03/13/2020 952h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00494	0.0100								
Lab Sample ID: MB-R136709													
Date Analyzed: 03/16/2020 1400h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-006AMS		Date Analyzed: 03/19/2020 1054h											
Test Code: 300.0-W													
Chloride	1,340	mg/L	E300.0	11.3	20.0	1,000	368	97.0	90 - 110				
Fluoride	973	mg/L	E300.0	4.80	20.0	1,000	0	97.3	90 - 110				
Sulfate	2,090	mg/L	E300.0	27.2	150	1,000	1080	101	90 - 110				
Lab Sample ID: 2003334-004BMS		Date Analyzed: 03/20/2020 1501h											
Test Code: NH3-W-350.1		Date Prepared: 03/20/2020 1051h											
Ammonia (as N)	2.30	mg/L	E350.1	0.0473	0.0500	2.000	0.387	95.7	90 - 110				
Lab Sample ID: 2003334-004BMS		Date Analyzed: 03/13/2020 1140h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.81	mg/L	E353.2	0.0247	0.0500	5.000	1.6	104	90 - 110				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-006AMSD Date Analyzed: 03/19/2020 1111h													
Test Code: 300.0-W													
Chloride	1,380	mg/L	E300.0	11.3	20.0	1,000	368	101	90 - 110	1340	3.19	20	
Fluoride	1,020	mg/L	E300.0	4.80	20.0	1,000	0	102	90 - 110	973	4.79	20	
Sulfate	2,110	mg/L	E300.0	27.2	150	1,000	1080	103	90 - 110	2090	0.968	20	
Lab Sample ID: 2003334-004BMSD Date Analyzed: 03/20/2020 1502h													
Test Code: NH3-W-350.1 Date Prepared: 03/20/2020 1051h													
Ammonia (as N)	2.24	mg/L	E350.1	0.0473	0.0500	2,000	0.387	92.4	90 - 110	2.3	2.91	10	
Lab Sample ID: 2003334-004BMSD Date Analyzed: 03/13/2020 1141h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.83	mg/L	E353.2	0.0247	0.0500	5,000	1.6	105	90 - 110	6.81	0.264	10	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 031320A Date Analyzed: 03/13/2020 755h													
Test Code: 8260D-W-DEN100													
Chloroform	20.2	µg/L	SW8260D	0.166	1.00	20.00	0	101	85 - 124				
Methylene chloride	21.7	µg/L	SW8260D	0.381	1.00	20.00	0	109	65 - 154				
Surr: 1,2-Dichloroethane-d4	53.3	µg/L	SW8260D			50.00		107	80 - 136				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260D			50.00		96.4	85 - 121				
Surr: Dibromofluoromethane	49.4	µg/L	SW8260D			50.00		98.8	78 - 132				
Surr: Toluene-d8	49.4	µg/L	SW8260D			50.00		98.8	81 - 123				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2003334

Project: March Ground Water 2020

Contact: Tanner Holliday

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 031320A		Date Analyzed: 03/13/2020 815h											
Test Code: 8260D-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.381	1.00								
Surr: 1,2-Dichloroethane-d4	54.3	µg/L	SW8260D			50.00		109	80 - 136				
Surr: 4-Bromofluorobenzene	51.4	µg/L	SW8260D			50.00		103	85 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260D			50.00		99.2	78 - 132				
Surr: Toluene-d8	50.8	µg/L	SW8260D			50.00		102	81 - 123				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-004CMS													
Date Analyzed: 03/13/2020 1307h													
Test Code: 8260D-W-DEN100													
Chloroform	3,610	µg/L	SW8260D	16.6	100	2,000	1720	94.6	85 - 124				
Methylene chloride	2,080	µg/L	SW8260D	38.1	100	2,000	4.44	104	65 - 154				
Surr: 1,2-Dichloroethane-d4	5,380	µg/L	SW8260D			5,000		108	80 - 136				
Surr: 4-Bromofluorobenzene	4,790	µg/L	SW8260D			5,000		95.9	85 - 121				
Surr: Dibromofluoromethane	4,980	µg/L	SW8260D			5,000		99.7	78 - 132				
Surr: Toluene-d8	4,980	µg/L	SW8260D			5,000		99.5	81 - 123				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2003334
Project: March Ground Water 2020

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2003334-004CMSD		Date Analyzed: 03/13/2020 1326h											
Test Code: 8260D-W-DEN100													
Chloroform	3,570	µg/L	SW8260D	16.6	100	2,000	1720	92.7	85 - 124	3610	1.09	35	
Methylene chloride	2,040	µg/L	SW8260D	38.1	100	2,000	4.44	102	65 - 154	2080	1.75	35	
Surr: 1,2-Dichloroethane-d4	5,360	µg/L	SW8260D			5,000		107	80 - 136				
Surr: 4-Bromofluorobenzene	4,850	µg/L	SW8260D			5,000		97.0	85 - 121				
Surr: Dibromofluoromethane	4,960	µg/L	SW8260D			5,000		99.2	78 - 132				
Surr: Toluene-d8	4,890	µg/L	SW8260D			5,000		97.9	81 - 123				

American West Analytical Laboratories

Rpt Emailed:

UL
Denison

WORK ORDER Summary

Work Order: **2003334**

Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 3/27/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: March Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; Do not use "*R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2003334-001A	MW-11_03102020	3/10/2020 1150h	3/13/2020 1010h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	df - wc	1
2003334-001B				200.8-DIS <i>1 SEL Analytes: MN</i>		df-met	
				200.8-DIS-PR		df-met	
2003334-002A	MW-14_03102020	3/10/2020 1440h	3/13/2020 1010h	300.0-W <i>2 SEL Analytes: F SO4</i>	Aqueous	DF-WC	1
2003334-003A	MW-25_03112020	3/11/2020 1135h	3/13/2020 1010h	200.8-DIS <i>1 SEL Analytes: CD</i>	Aqueous	DF-Metals	1
				200.8-DIS-PR		DF-Metals	
2003334-004A	MW-26_03102020	3/10/2020 0900h	3/13/2020 1010h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	DF-WC	1
2003334-004B				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		DF-NH3	
				NH3-W-PR		DF-NH3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		DF-NH3	
2003334-004C				8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>		VOCFridge	3
2003334-005A	MW-30_03112020	3/11/2020 1100h	3/13/2020 1010h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	DF-WC	1
2003334-005B				200.8-DIS <i>2 SEL Analytes: SE U</i>		DF-Metals	
				200.8-DIS-PR		DF-Metals	
2003334-005C				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		DF-NO2/NO3	
2003334-006A	MW-31_03102020	3/10/2020 1325h	3/13/2020 1010h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	DF-WC	1

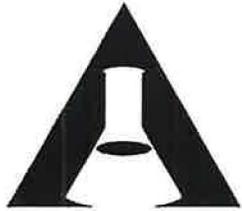
WORK ORDER Summary

Work Order: **2003334** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 3/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2003334-006B	MW-31_03102020	3/10/2020 1325h	3/13/2020 1010h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	DF-NO2/NO3	1
2003334-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	DF-tds	
2003334-007A	MW-36_03102020	3/10/2020 1500h	3/13/2020 1010h	300.0-W <i>1 SEL Analytes: SO4</i>	Aqueous	<input checked="" type="checkbox"/>	DF-WC	1
2003334-008A	MW-65_03102020	3/10/2020 1325h	3/13/2020 1010h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	<input checked="" type="checkbox"/>	DF-WC	1
2003334-008B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	DF-NO2/NO3	
2003334-008C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	DF-tds	
2003334-009A	Trip Blank	3/10/2020 0900h	3/13/2020 1010h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3



**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.

2023334

AWAL Lab Sample Set #
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #:
 Email: **tholliday@energyfuels.com; kweinel@energyfuels.com;**
 Project Name: **March Ground Water 2020**
 Project #:
 PO #:
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:	
3		Standard					
Laboratory Use Only							
Samples Were:							
1 Shipped or hand delivered							
2 Ambient or Chilled							
3 Temperature				1.1 °C			
4 Received Broken/Leaking (Improperly Sealed)						Y N	
5 Properly Preserved						Y N	
6 Checked at bench						Y N	
7 Received Within Holding Times						Y N	
8 Present on Outer Package						Y N NA	
9 Unbroken on Outer Package						Y N NA	
10 Present on Sample						Y N NA	
11 Unbroken on Sample						Y N NA	
12 Discrepancies Between Sample Labels and COC Record?						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)	Fluoride (4500-F.C or 300.0)	SO4 (4500 or 300.0)	Ammonia as N (350.1)	VOCs Chloroform, Dichloromethane, (3260C)	Known Hazards & Sample Comments
MW-11_03102020	3/10/2020	1150	2	W		X	X									
MW-14_03102020	3/10/2020	1440	1	W								X	X			
MW-25_03112020	3/11/2020	1135	1	W					X							
MW-26_03102020	3/10/2020	900	5	W	X		X							X	X	
MW-30_03112020	3/11/2020	1100	3	W	X		X		X		X					
MW-31_03102020	3/10/2020	1325	3	W	X		X	X					X			
MW-36_03102020	3/10/2020	1500	1	W									X			
MW-65_03102020	3/10/2020	1325	3	W	X		X	X					X			
Trip Blank	3/10/2020	0900	3	W											X	

Relinquished by: <i>Tanner Holliday</i> Signature	Date: 3/12/20 Time: 1030	Received by: <i>[Signature]</i> Signature	Date: 3/13/24 Time: 1010	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Date: 3/12/20 Time: 1030	Received by: <i>[Signature]</i> Signature	Date: 3/13/24 Time: 1010	
Relinquished by: <i>[Signature]</i> Signature	Date: <i>[Date]</i> Time: <i>[Time]</i>	Received by: <i>[Signature]</i> Signature	Date: <i>[Date]</i> Time: <i>[Time]</i>	
Print Name: <i>[Name]</i>	Date: <i>[Date]</i> Time: <i>[Time]</i>	Received by: <i>[Signature]</i> Signature	Date: <i>[Date]</i> Time: <i>[Time]</i>	

Lab Set ID: 2003334
 pH Lot #: 6179

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	3	4	5	6	8											
Ammonia	pH <2 H ₂ SO ₄			Yes														
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO ₃	Yes	Yes		Yes													
NO ₂ /NO ₃	pH <2 H ₂ SO ₄			Yes	Yes	Yes	Yes											
O & G	pH <2 HCL																	
Phenols	pH <2 H ₂ SO ₄																	
Sulfide	pH >9 NaOH, Zn Acetate																	
TKN	pH <2 H ₂ SO ₄																	
T PO ₄	pH <2 H ₂ SO ₄																	
Cr VI+	pH >9 (NH ₄) ₂ SO ₄																	

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

Frequency: All samples requiring preservation

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

Tab G

Quality Assurance and Data Validation Tables

G-1A: 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	29.14	58.59	58.28	okay	2904	2899	0.17	7.79	7.80	0.13	14.23	14.22	0.07	265	269	1.50	4.8	4.7	2.11	5.8	5.7	1.74
MW-11	29.14	58.59	58.28	okay	2913	2916	0.10	7.01	7.08	0.99	14.28	14.30	0.14	478	469	1.90	5.7	5.6	1.77	5.9	5.6	5.22
MW-12	14.67	30.38	29.34	okay	1012	1010	0.20	7.04	7.03	0.14	13.53	13.60	0.52	345	342	0.87	0	0	0.00	48.4	48.5	0.21
MW-14	17.31	39.06	34.62	okay	3869	3870	0.03	6.86	6.85	0.15	14.25	14.25	0.00	273	274	0.37	0	0	0.00	1.0	1.0	0.00
MW-24	5.89	11.00	11.78	Pumped Dry	4398	4400	0.05	6.06	6.01	0.83	12.89	12.95	0.46	NM	NC	NC	NM	NC	NM	NC	NC	NC
MW-24A	6.58	14.56	13.16	okay	4300	4298	0.05	4.95	4.96	0.20	12.30	12.29	0.08	417	419	0.48	7.3	7.5	2.70	81.4	81.5	0.12
MW-25	22.78	46.65	45.56	okay	3136	3140	0.13	7.01	7.00	0.14	14.39	14.39	0.00	262	264	0.76	0	0	0.00	4.8	4.7	2.11
MW-26	NA	Continuously Pumped well	--		3478		NC	6.76		NC	15.53		NC	292		NC	0		NC	13.7		NC
MW-27	24.81	52.08	49.62	okay	1091	1090	0.09	7.55	7.53	0.27	14.34	14.36	0.14	354	355	0.28	0	0	0.00	99.0	99.3	0.30
MW-28	23.02	52.08	46.04	okay	4032	4041	0.22	6.70	6.70	0.00	12.63	12.68	0.40	371	371	0.00	0	0	0.00	25.8	25.5	1.17
MW-30	22.80	46.65	45.6	okay	2148	2150	0.09	7.31	7.31	0.00	14.52	14.50	0.14	265	270	1.87	0	0	0.00	56.5	56.0	0.89
MW-31	39.92	80.29	79.84	okay	3061	3065	0.13	6.93	6.97	0.58	14.46	14.45	0.07	372	371	0.27	0	0	0.00	109.5	108.5	0.92
MW-32	32.61	66.18	65.22	okay	3689	3688	0.03	6.60	6.58	0.30	14.20	14.23	0.21	240	240	0.00	853	845	0.94	4.5	4.4	2.25
MW-35	7.86	16.27	15.72	okay	3985	3990	0.13	6.84	6.84	0.00	13.79	13.80	0.07	294	292	0.68	0	0	0.00	2.7	2.6	3.77
MW-36	7.26	16.27	14.52	okay	2200	2189	0.50	6.99	7.01	0.29	14.10	14.10	0.00	392	392	0.00	0	0	0.00	77.0	77.1	0.13
MW-38	2.61	5.00	5.22	Pumped Dry	4307	4312	0.12	7.27	7.27	0.00	14.71	14.75	0.27	NM	NC	NC	NM	NC	NM	NC	NC	NC
MW-39	24.22	48.82	48.44	okay	4599	4600	0.02	4.19	4.19	0.00	14.14	14.14	0.00	488	489	0.20	0	0	0.00	3.4	3.4	0.00
MW-40	25.96	52.08	51.92	okay	3890	3893	0.08	6.86	6.88	0.29	14.05	14.04	0.07	345	346	0.29	0	0	0.00	93.5	93.0	0.54

MW-26 is a continually pumped well.

MW-24, 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: 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	29.14	58.59	58.28	okay	2972	2976	0.13	7.58	7.60	0.26	13.88	13.89	0.07	267	266	0.38	220	233	5.74	9.5	9.1	4.30
MW-14	17.46	35.80	34.92	okay	3849	3849	0.00	6.87	6.88	0.15	13.81	13.78	0.22	296	298	0.67	0	0	0.00	4.8	4.7	2.11
MW-25	22.85	52.08	45.7	okay	3137	3135	0.06	6.95	6.95	0.00	14.13	14.05	0.57	360	361	0.28	1.1	1.1	0.00	8.0	7.7	3.82
MW-26	NA	Continuously Pumped well	--		3404		NC	6.88		NC	16.34		NC	319		NC	0		NC	14.3		NC
MW-30	22.92	46.65	45.84	okay	2139	2139	0.00	7.31	7.30	0.14	14.25	14.24	0.07	370	372	0.54	0	0	0.00	58.0	57.2	1.39
MW-31	39.93	80.29	79.86	okay	3063	3062	0.03	7.26	7.26	0.00	14.00	14.02	0.14	285	288	1.05	0	0	0.00	112.8	112.2	0.53
MW-36	7.24	16.27	14.48	okay	4833	4837	0.08	7.19	7.18	0.14	13.75	13.74	0.07	345	346	0.29	0	0	0.00	78.2	78.0	0.26
March																						
MW-11	29.09	58.59	58.18	okay	2904	2910	0.21	7.57	7.58	0.13	14.11	14.10	0.07	283	284	0.35	47.0	45.0	4.35	6.9	6.7	2.94
MW-14	17.23	34.72	34.46	okay	3829	3820	0.24	6.92	6.92	0.00	14.22	14.20	0.14	459	459	0.00	1.0	1.0	0.00	4.9	4.9	0.00
MW-25	22.65	52.08	45.3	okay	3113	3110	0.10	7.02	7.00	0.29	14.23	14.23	0.00	476	477	0.21	1.5	1.4	6.90	8.3	8.0	3.68
MW-26	NA	Continuously Pumped well	--		3436		NC	6.94		NC	16.40		NC	310		NC	0		NC	16.8		NC
MW-30	22.76	45.57	45.52	okay	2148	2146	0.09	7.18	7.18	0.00	14.20	14.21	0.07	475	475	0.00	0	0	0.00	54.1	54.0	0.19
MW-31	39.73	80.29	79.46	okay	3077	3079	0.06	7.13	7.15	0.28	14.40	14.40	0.00	320	323	0.93	0	0	0.00	110.5	110.0	0.45
MW-36	7.10	16.27	14.2	okay	4791	4795	0.08	7.25	7.24	0.14	14.11	14.11	0.00	469	471	0.43	0	0	0.00	74.9	74.9	0.00

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
MW-11	2-Butanone	1/15/2020	1/20/2020	5	14	OK
MW-11	Acetone	1/15/2020	1/20/2020	5	14	OK
MW-11	Ammonia (as N)	1/15/2020	1/22/2020	7	28	OK
MW-11	Arsenic	1/15/2020	1/30/2020	15	180	OK
MW-11	Benzene	1/15/2020	1/20/2020	5	14	OK
MW-11	Beryllium	1/15/2020	1/31/2020	16	180	OK
MW-11	Bicarbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-11	Cadmium	1/15/2020	1/30/2020	15	180	OK
MW-11	Calcium	1/15/2020	2/4/2020	20	180	OK
MW-11	Carbon tetrachloride	1/15/2020	1/20/2020	5	14	OK
MW-11	Carbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-11	Chloride	1/15/2020	2/11/2020	27	28	OK
MW-11	Chloroform	1/15/2020	1/20/2020	5	14	OK
MW-11	Chloromethane	1/15/2020	1/20/2020	5	14	OK
MW-11	Chromium	1/15/2020	1/30/2020	15	180	OK
MW-11	Cobalt	1/15/2020	1/30/2020	15	180	OK
MW-11	Copper	1/15/2020	1/31/2020	16	180	OK
MW-11	Fluoride	1/15/2020	1/23/2020	8	28	OK
MW-11	Iron	1/15/2020	1/31/2020	16	180	OK
MW-11	Lead	1/15/2020	1/31/2020	16	180	OK
MW-11	Magnesium	1/15/2020	2/4/2020	20	180	OK
MW-11	Manganese	1/15/2020	1/30/2020	15	180	OK
MW-11	Mercury	1/15/2020	1/21/2020	6	180	OK
MW-11	Methylene chloride	1/15/2020	1/20/2020	5	14	OK
MW-11	Molybdenum	1/15/2020	1/31/2020	16	180	OK
MW-11	Naphthalene	1/15/2020	1/20/2020	5	14	OK
MW-11	Nickel	1/15/2020	1/30/2020	15	180	OK
MW-11	Nitrate/Nitrite (as N)	1/15/2020	1/23/2020	8	28	OK
MW-11	Potassium	1/15/2020	2/4/2020	20	180	OK
MW-11	Selenium	1/15/2020	1/30/2020	15	180	OK
MW-11	Silver	1/15/2020	1/31/2020	16	180	OK
MW-11	Sodium	1/15/2020	2/4/2020	20	180	OK
MW-11	Sulfate	1/15/2020	1/22/2020	7	28	OK
MW-11	Tetrahydrofuran	1/15/2020	1/20/2020	5	14	OK
MW-11	Thallium	1/15/2020	1/31/2020	16	180	OK
MW-11	Tin	1/15/2020	1/30/2020	15	180	OK
MW-11	Toluene	1/15/2020	1/20/2020	5	14	OK
MW-11	Total Dissolved Solids	1/15/2020	1/20/2020	5	7	OK
MW-11	Uranium	1/15/2020	1/30/2020	15	180	OK
MW-11	Vanadium	1/15/2020	1/30/2020	15	180	OK
MW-11	Xylenes, Total	1/15/2020	1/20/2020	5	14	OK
MW-11	Zinc	1/15/2020	1/31/2020	16	180	OK
MW-11	Gross Radium Alpha	1/28/2020	2/14/2020	17	180	OK
MW-12	Uranium	1/16/2020	1/30/2020	14	180	OK
MW-14	2-Butanone	1/15/2020	1/20/2020	5	14	OK
MW-14	Acetone	1/15/2020	1/20/2020	5	14	OK
MW-14	Ammonia (as N)	1/15/2020	1/22/2020	7	28	OK
MW-14	Arsenic	1/15/2020	1/30/2020	15	180	OK
MW-14	Benzene	1/15/2020	1/20/2020	5	14	OK
MW-14	Beryllium	1/15/2020	1/31/2020	16	180	OK
MW-14	Bicarbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-14	Cadmium	1/15/2020	1/30/2020	15	180	OK
MW-14	Calcium	1/15/2020	2/4/2020	20	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-14	Carbon tetrachloride	1/15/2020	1/20/2020	5	14	OK
MW-14	Carbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-14	Chloride	1/15/2020	1/22/2020	7	28	OK
MW-14	Chloroform	1/15/2020	1/20/2020	5	14	OK
MW-14	Chloromethane	1/15/2020	1/20/2020	5	14	OK
MW-14	Chromium	1/15/2020	1/30/2020	15	180	OK
MW-14	Cobalt	1/15/2020	1/30/2020	15	180	OK
MW-14	Copper	1/15/2020	1/31/2020	16	180	OK
MW-14	Fluoride	1/15/2020	2/5/2020	21	28	OK
MW-14	Gross Radium Alpha	1/15/2020	2/14/2020	30	180	OK
MW-14	Iron	1/15/2020	1/31/2020	16	180	OK
MW-14	Lead	1/15/2020	1/31/2020	16	180	OK
MW-14	Magnesium	1/15/2020	2/4/2020	20	180	OK
MW-14	Manganese	1/15/2020	1/30/2020	15	180	OK
MW-14	Mercury	1/15/2020	1/21/2020	6	180	OK
MW-14	Methylene chloride	1/15/2020	1/20/2020	5	14	OK
MW-14	Molybdenum	1/15/2020	1/31/2020	16	180	OK
MW-14	Naphthalene	1/15/2020	1/20/2020	5	14	OK
MW-14	Nickel	1/15/2020	1/30/2020	15	180	OK
MW-14	Nitrate/Nitrite (as N)	1/15/2020	1/23/2020	8	28	OK
MW-14	Potassium	1/15/2020	2/4/2020	20	180	OK
MW-14	Selenium	1/15/2020	1/30/2020	15	180	OK
MW-14	Silver	1/15/2020	1/31/2020	16	180	OK
MW-14	Sodium	1/15/2020	2/4/2020	20	180	OK
MW-14	Sulfate	1/15/2020	1/22/2020	7	28	OK
MW-14	Tetrahydrofuran	1/15/2020	1/20/2020	5	14	OK
MW-14	Thallium	1/15/2020	1/31/2020	16	180	OK
MW-14	Tin	1/15/2020	1/30/2020	15	180	OK
MW-14	Toluene	1/15/2020	1/20/2020	5	14	OK
MW-14	Total Dissolved Solids	1/15/2020	1/20/2020	5	7	OK
MW-14	Uranium	1/15/2020	1/30/2020	15	180	OK
MW-14	Vanadium	1/15/2020	1/30/2020	15	180	OK
MW-14	Xylenes, Total	1/15/2020	1/20/2020	5	14	OK
MW-14	Zinc	1/15/2020	1/31/2020	16	180	OK
MW-24	2-Butanone	1/22/2020	1/23/2020	1	14	OK
MW-24	Acetone	1/22/2020	1/23/2020	1	14	OK
MW-24	Ammonia (as N)	1/22/2020	1/27/2020	5	28	OK
MW-24	Arsenic	1/22/2020	2/3/2020	12	180	OK
MW-24	Benzene	1/22/2020	1/23/2020	1	14	OK
MW-24	Beryllium	1/22/2020	2/5/2020	14	180	OK
MW-24	Bicarbonate (as CaCO3)	1/22/2020	1/24/2020	2	14	OK
MW-24	Cadmium	1/22/2020	2/3/2020	12	180	OK
MW-24	Calcium	1/22/2020	2/6/2020	15	180	OK
MW-24	Carbon tetrachloride	1/22/2020	1/23/2020	1	14	OK
MW-24	Carbonate (as CaCO3)	1/22/2020	1/24/2020	2	14	OK
MW-24	Chloride	1/22/2020	1/28/2020	6	28	OK
MW-24	Chloroform	1/22/2020	1/23/2020	1	14	OK
MW-24	Chloromethane	1/22/2020	1/23/2020	1	14	OK
MW-24	Chromium	1/22/2020	2/3/2020	12	180	OK
MW-24	Cobalt	1/22/2020	2/3/2020	12	180	OK
MW-24	Copper	1/22/2020	2/5/2020	14	180	OK
MW-24	Fluoride	1/22/2020	1/28/2020	6	28	OK
MW-24	Gross Radium Alpha	1/22/2020	2/14/2020	23	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-24	Iron	1/22/2020	2/3/2020	12	180	OK
MW-24	Lead	1/22/2020	2/3/2020	12	180	OK
MW-24	Magnesium	1/22/2020	2/6/2020	15	180	OK
MW-24	Manganese	1/22/2020	2/3/2020	12	180	OK
MW-24	Mercury	1/22/2020	1/29/2020	7	180	OK
MW-24	Methylene chloride	1/22/2020	1/23/2020	1	14	OK
MW-24	Molybdenum	1/22/2020	2/3/2020	12	180	OK
MW-24	Naphthalene	1/22/2020	1/23/2020	1	14	OK
MW-24	Nickel	1/22/2020	2/3/2020	12	180	OK
MW-24	Nitrate/Nitrite (as N)	1/22/2020	1/24/2020	2	28	OK
MW-24	Potassium	1/22/2020	2/6/2020	15	180	OK
MW-24	Selenium	1/22/2020	2/3/2020	12	180	OK
MW-24	Silver	1/22/2020	2/3/2020	12	180	OK
MW-24	Sodium	1/22/2020	2/6/2020	15	180	OK
MW-24	Sulfate	1/22/2020	1/27/2020	5	28	OK
MW-24	Tetrahydrofuran	1/22/2020	1/23/2020	1	14	OK
MW-24	Thallium	1/22/2020	2/3/2020	12	180	OK
MW-24	Tin	1/22/2020	2/3/2020	12	180	OK
MW-24	Toluene	1/22/2020	1/23/2020	1	14	OK
MW-24	Total Dissolved Solids	1/22/2020	1/24/2020	2	7	OK
MW-24	Uranium	1/22/2020	2/3/2020	12	180	OK
MW-24	Vanadium	1/22/2020	2/6/2020	15	180	OK
MW-24	Xylenes, Total	1/22/2020	1/23/2020	1	14	OK
MW-24	Zinc	1/22/2020	2/3/2020	12	180	OK
MW-24A	2-Butanone	1/21/2020	1/23/2020	2	14	OK
MW-24A	Acetone	1/21/2020	1/23/2020	2	14	OK
MW-24A	Ammonia (as N)	1/21/2020	1/27/2020	6	28	OK
MW-24A	Arsenic	1/21/2020	2/3/2020	13	180	OK
MW-24A	Benzene	1/21/2020	1/23/2020	2	14	OK
MW-24A	Beryllium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Bicarbonate (as CaCO3)	1/21/2020	1/24/2020	3	14	OK
MW-24A	Cadmium	1/21/2020	2/3/2020	13	180	OK
MW-24A	Calcium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Carbon tetrachloride	1/21/2020	1/23/2020	2	14	OK
MW-24A	Carbonate (as CaCO3)	1/21/2020	1/24/2020	3	14	OK
MW-24A	Chloride	1/21/2020	1/28/2020	7	28	OK
MW-24A	Chloroform	1/21/2020	1/23/2020	2	14	OK
MW-24A	Chloromethane	1/21/2020	1/23/2020	2	14	OK
MW-24A	Chromium	1/21/2020	2/3/2020	13	180	OK
MW-24A	Cobalt	1/21/2020	2/3/2020	13	180	OK
MW-24A	Copper	1/21/2020	2/5/2020	15	180	OK
MW-24A	Fluoride	1/21/2020	1/28/2020	7	28	OK
MW-24A	Gross Radium Alpha	1/21/2020	2/14/2020	24	180	OK
MW-24A	Iron	1/21/2020	2/3/2020	13	180	OK
MW-24A	Lead	1/21/2020	2/5/2020	15	180	OK
MW-24A	Magnesium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Manganese	1/21/2020	2/3/2020	13	180	OK
MW-24A	Mercury	1/21/2020	1/29/2020	8	180	OK
MW-24A	Methylene chloride	1/21/2020	1/23/2020	2	14	OK
MW-24A	Molybdenum	1/21/2020	2/3/2020	13	180	OK
MW-24A	Naphthalene	1/21/2020	1/23/2020	2	14	OK
MW-24A	Nickel	1/21/2020	2/3/2020	13	180	OK
MW-24A	Nitrate/Nitrite (as N)	1/21/2020	1/24/2020	3	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-24A	Potassium	1/21/2020	2/6/2020	16	180	OK
MW-24A	Selenium	1/21/2020	2/3/2020	13	180	OK
MW-24A	Silver	1/21/2020	2/3/2020	13	180	OK
MW-24A	Sodium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Sulfate	1/21/2020	1/27/2020	6	28	OK
MW-24A	Tetrahydrofuran	1/21/2020	1/23/2020	2	14	OK
MW-24A	Thallium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Tin	1/21/2020	2/3/2020	13	180	OK
MW-24A	Toluene	1/21/2020	1/23/2020	2	14	OK
MW-24A	Total Dissolved Solids	1/21/2020	1/24/2020	3	7	OK
MW-24A	Uranium	1/21/2020	2/5/2020	15	180	OK
MW-24A	Vanadium	1/21/2020	2/6/2020	16	180	OK
MW-24A	Xylenes, Total	1/21/2020	1/23/2020	2	14	OK
MW-24A	Zinc	1/21/2020	2/3/2020	13	180	OK
MW-25	2-Butanone	1/15/2020	1/20/2020	5	14	OK
MW-25	Acetone	1/15/2020	1/20/2020	5	14	OK
MW-25	Ammonia (as N)	1/15/2020	1/22/2020	7	28	OK
MW-25	Arsenic	1/15/2020	1/30/2020	15	180	OK
MW-25	Benzene	1/15/2020	1/20/2020	5	14	OK
MW-25	Beryllium	1/15/2020	1/31/2020	16	180	OK
MW-25	Bicarbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-25	Cadmium	1/15/2020	1/30/2020	15	180	OK
MW-25	Calcium	1/15/2020	2/4/2020	20	180	OK
MW-25	Carbon tetrachloride	1/15/2020	1/20/2020	5	14	OK
MW-25	Carbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-25	Chloride	1/15/2020	1/22/2020	7	28	OK
MW-25	Chloroform	1/15/2020	1/20/2020	5	14	OK
MW-25	Chloromethane	1/15/2020	1/20/2020	5	14	OK
MW-25	Chromium	1/15/2020	1/30/2020	15	180	OK
MW-25	Cobalt	1/15/2020	1/30/2020	15	180	OK
MW-25	Copper	1/15/2020	1/31/2020	16	180	OK
MW-25	Fluoride	1/15/2020	1/22/2020	7	28	OK
MW-25	Gross Radium Alpha	1/15/2020	2/14/2020	30	180	OK
MW-25	Iron	1/15/2020	1/31/2020	16	180	OK
MW-25	Lead	1/15/2020	1/31/2020	16	180	OK
MW-25	Magnesium	1/15/2020	2/4/2020	20	180	OK
MW-25	Manganese	1/15/2020	1/30/2020	15	180	OK
MW-25	Mercury	1/15/2020	1/21/2020	6	180	OK
MW-25	Methylene chloride	1/15/2020	1/20/2020	5	14	OK
MW-25	Molybdenum	1/15/2020	1/31/2020	16	180	OK
MW-25	Naphthalene	1/15/2020	1/20/2020	5	14	OK
MW-25	Nickel	1/15/2020	1/30/2020	15	180	OK
MW-25	Nitrate/Nitrite (as N)	1/15/2020	1/23/2020	8	28	OK
MW-25	Potassium	1/15/2020	2/4/2020	20	180	OK
MW-25	Selenium	1/15/2020	1/30/2020	15	180	OK
MW-25	Silver	1/15/2020	1/31/2020	16	180	OK
MW-25	Sodium	1/15/2020	2/4/2020	20	180	OK
MW-25	Sulfate	1/15/2020	1/22/2020	7	28	OK
MW-25	Tetrahydrofuran	1/15/2020	1/20/2020	5	14	OK
MW-25	Thallium	1/15/2020	1/31/2020	16	180	OK
MW-25	Tin	1/15/2020	1/30/2020	15	180	OK
MW-25	Toluene	1/15/2020	1/20/2020	5	14	OK
MW-25	Total Dissolved Solids	1/15/2020	1/20/2020	5	7	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Uranium	1/15/2020	1/30/2020	15	180	OK
MW-25	Vanadium	1/15/2020	1/30/2020	15	180	OK
MW-25	Xylenes, Total	1/15/2020	1/20/2020	5	14	OK
MW-25	Zinc	1/15/2020	1/31/2020	16	180	OK
MW-26	2-Butanone	1/15/2020	1/20/2020	5	14	OK
MW-26	Acetone	1/15/2020	1/20/2020	5	14	OK
MW-26	Ammonia (as N)	1/15/2020	1/22/2020	7	28	OK
MW-26	Arsenic	1/15/2020	1/30/2020	15	180	OK
MW-26	Benzene	1/15/2020	1/20/2020	5	14	OK
MW-26	Beryllium	1/15/2020	1/31/2020	16	180	OK
MW-26	Bicarbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-26	Cadmium	1/15/2020	1/30/2020	15	180	OK
MW-26	Calcium	1/15/2020	2/4/2020	20	180	OK
MW-26	Carbon tetrachloride	1/15/2020	1/20/2020	5	14	OK
MW-26	Carbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-26	Chloride	1/15/2020	1/22/2020	7	28	OK
MW-26	Chloroform	1/15/2020	1/20/2020	5	14	OK
MW-26	Chloromethane	1/15/2020	1/20/2020	5	14	OK
MW-26	Chromium	1/15/2020	1/30/2020	15	180	OK
MW-26	Cobalt	1/15/2020	1/30/2020	15	180	OK
MW-26	Copper	1/15/2020	1/31/2020	16	180	OK
MW-26	Fluoride	1/15/2020	1/23/2020	8	28	OK
MW-26	Gross Radium Alpha	1/15/2020	2/14/2020	30	180	OK
MW-26	Iron	1/15/2020	1/30/2020	15	180	OK
MW-26	Lead	1/15/2020	1/31/2020	16	180	OK
MW-26	Magnesium	1/15/2020	2/4/2020	20	180	OK
MW-26	Manganese	1/15/2020	1/30/2020	15	180	OK
MW-26	Mercury	1/15/2020	1/21/2020	6	180	OK
MW-26	Methylene chloride	1/15/2020	1/20/2020	5	14	OK
MW-26	Molybdenum	1/15/2020	1/31/2020	16	180	OK
MW-26	Naphthalene	1/15/2020	1/20/2020	5	14	OK
MW-26	Nickel	1/15/2020	1/30/2020	15	180	OK
MW-26	Nitrate/Nitrite (as N)	1/15/2020	1/23/2020	8	28	OK
MW-26	Potassium	1/15/2020	2/4/2020	20	180	OK
MW-26	Selenium	1/15/2020	1/30/2020	15	180	OK
MW-26	Silver	1/15/2020	1/31/2020	16	180	OK
MW-26	Sodium	1/15/2020	2/4/2020	20	180	OK
MW-26	Sulfate	1/15/2020	1/22/2020	7	28	OK
MW-26	Tetrahydrofuran	1/15/2020	1/20/2020	5	14	OK
MW-26	Thallium	1/15/2020	1/31/2020	16	180	OK
MW-26	Tin	1/15/2020	1/30/2020	15	180	OK
MW-26	Toluene	1/15/2020	1/20/2020	5	14	OK
MW-26	Total Dissolved Solids	1/15/2020	1/20/2020	5	7	OK
MW-26	Uranium	1/15/2020	1/30/2020	15	180	OK
MW-26	Vanadium	1/15/2020	1/30/2020	15	180	OK
MW-26	Xylenes, Total	1/15/2020	1/20/2020	5	14	OK
MW-26	Zinc	1/15/2020	1/31/2020	16	180	OK
MW-27	Nitrate/Nitrite (as N)	1/16/2020	1/24/2020	8	28	OK
MW-28	Chloride	1/16/2020	1/28/2020	12	28	OK
MW-28	Gross Radium Alpha	1/16/2020	2/15/2020	30	180	OK
MW-28	Selenium	1/16/2020	2/3/2020	18	180	OK
MW-28	Uranium	1/16/2020	2/3/2020	18	180	OK
MW-30	2-Butanone	1/15/2020	1/20/2020	5	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-30	Acetone	1/15/2020	1/20/2020	5	14	OK
MW-30	Ammonia (as N)	1/15/2020	1/22/2020	7	28	OK
MW-30	Arsenic	1/15/2020	1/30/2020	15	180	OK
MW-30	Benzene	1/15/2020	1/20/2020	5	14	OK
MW-30	Beryllium	1/15/2020	1/31/2020	16	180	OK
MW-30	Bicarbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-30	Cadmium	1/15/2020	1/30/2020	15	180	OK
MW-30	Calcium	1/15/2020	2/4/2020	20	180	OK
MW-30	Carbon tetrachloride	1/15/2020	1/20/2020	5	14	OK
MW-30	Carbonate (as CaCO3)	1/15/2020	1/20/2020	5	14	OK
MW-30	Chloride	1/15/2020	1/22/2020	7	28	OK
MW-30	Chloroform	1/15/2020	1/20/2020	5	14	OK
MW-30	Chloromethane	1/15/2020	1/20/2020	5	14	OK
MW-30	Chromium	1/15/2020	1/30/2020	15	180	OK
MW-30	Cobalt	1/15/2020	1/30/2020	15	180	OK
MW-30	Copper	1/15/2020	1/31/2020	16	180	OK
MW-30	Fluoride	1/15/2020	1/22/2020	7	28	OK
MW-30	Gross Radium Alpha	1/15/2020	2/14/2020	30	180	OK
MW-30	Iron	1/15/2020	1/31/2020	16	180	OK
MW-30	Lead	1/15/2020	1/31/2020	16	180	OK
MW-30	Magnesium	1/15/2020	2/4/2020	20	180	OK
MW-30	Manganese	1/15/2020	1/30/2020	15	180	OK
MW-30	Mercury	1/15/2020	1/21/2020	6	180	OK
MW-30	Methylene chloride	1/15/2020	1/20/2020	5	14	OK
MW-30	Molybdenum	1/15/2020	1/31/2020	16	180	OK
MW-30	Naphthalene	1/15/2020	1/20/2020	5	14	OK
MW-30	Nickel	1/15/2020	1/30/2020	15	180	OK
MW-30	Nitrate/Nitrite (as N)	1/15/2020	1/23/2020	8	28	OK
MW-30	Potassium	1/15/2020	2/4/2020	20	180	OK
MW-30	Selenium	1/15/2020	1/30/2020	15	180	OK
MW-30	Silver	1/15/2020	1/31/2020	16	180	OK
MW-30	Sodium	1/15/2020	2/4/2020	20	180	OK
MW-30	Sulfate	1/15/2020	1/22/2020	7	28	OK
MW-30	Tetrahydrofuran	1/15/2020	1/20/2020	5	14	OK
MW-30	Thallium	1/15/2020	1/31/2020	16	180	OK
MW-30	Tin	1/15/2020	1/30/2020	15	180	OK
MW-30	Toluene	1/15/2020	1/20/2020	5	14	OK
MW-30	Total Dissolved Solids	1/15/2020	1/20/2020	5	7	OK
MW-30	Uranium	1/15/2020	1/30/2020	15	180	OK
MW-30	Vanadium	1/15/2020	2/4/2020	20	180	OK
MW-30	Xylenes, Total	1/15/2020	1/20/2020	5	14	OK
MW-30	Zinc	1/15/2020	1/31/2020	16	180	OK
MW-31	2-Butanone	1/14/2020	1/20/2020	6	14	OK
MW-31	Acetone	1/14/2020	1/20/2020	6	14	OK
MW-31	Ammonia (as N)	1/14/2020	1/22/2020	8	28	OK
MW-31	Arsenic	1/14/2020	1/30/2020	16	180	OK
MW-31	Benzene	1/14/2020	1/20/2020	6	14	OK
MW-31	Beryllium	1/14/2020	1/31/2020	17	180	OK
MW-31	Bicarbonate (as CaCO3)	1/14/2020	1/20/2020	6	14	OK
MW-31	Cadmium	1/14/2020	1/30/2020	16	180	OK
MW-31	Calcium	1/14/2020	2/4/2020	21	180	OK
MW-31	Carbon tetrachloride	1/14/2020	1/20/2020	6	14	OK
MW-31	Carbonate (as CaCO3)	1/14/2020	1/20/2020	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	Chloride	1/14/2020	1/22/2020	8	28	OK
MW-31	Chloroform	1/14/2020	1/20/2020	6	14	OK
MW-31	Chloromethane	1/14/2020	1/20/2020	6	14	OK
MW-31	Chromium	1/14/2020	1/30/2020	16	180	OK
MW-31	Cobalt	1/14/2020	1/30/2020	16	180	OK
MW-31	Copper	1/14/2020	1/31/2020	17	180	OK
MW-31	Fluoride	1/14/2020	1/23/2020	9	28	OK
MW-31	Gross Radium Alpha	1/14/2020	2/14/2020	31	180	OK
MW-31	Iron	1/14/2020	1/31/2020	17	180	OK
MW-31	Lead	1/14/2020	1/31/2020	17	180	OK
MW-31	Magnesium	1/14/2020	2/4/2020	21	180	OK
MW-31	Manganese	1/14/2020	1/30/2020	16	180	OK
MW-31	Mercury	1/14/2020	1/21/2020	7	180	OK
MW-31	Methylene chloride	1/14/2020	1/20/2020	6	14	OK
MW-31	Molybdenum	1/14/2020	1/31/2020	17	180	OK
MW-31	Naphthalene	1/14/2020	1/20/2020	6	14	OK
MW-31	Nickel	1/14/2020	1/30/2020	16	180	OK
MW-31	Nitrate/Nitrite (as N)	1/14/2020	1/23/2020	9	28	OK
MW-31	Potassium	1/14/2020	2/4/2020	21	180	OK
MW-31	Selenium	1/14/2020	1/30/2020	16	180	OK
MW-31	Silver	1/14/2020	1/31/2020	17	180	OK
MW-31	Sodium	1/14/2020	2/4/2020	21	180	OK
MW-31	Sulfate	1/14/2020	1/22/2020	8	28	OK
MW-31	Tetrahydrofuran	1/14/2020	1/20/2020	6	14	OK
MW-31	Thallium	1/14/2020	1/31/2020	17	180	OK
MW-31	Tin	1/14/2020	1/30/2020	16	180	OK
MW-31	Toluene	1/14/2020	1/20/2020	6	14	OK
MW-31	Total Dissolved Solids	1/14/2020	1/20/2020	6	7	OK
MW-31	Uranium	1/14/2020	1/30/2020	16	180	OK
MW-31	Vanadium	1/14/2020	2/4/2020	21	180	OK
MW-31	Xylenes, Total	1/14/2020	1/20/2020	6	14	OK
MW-31	Zinc	1/14/2020	1/31/2020	17	180	OK
MW-32	Chloride	1/14/2020	1/22/2020	8	28	OK
MW-35	Ammonia (as N)	1/16/2020	1/22/2020	6	28	OK
MW-36	2-Butanone	1/14/2020	1/20/2020	6	14	OK
MW-36	Acetone	1/14/2020	1/20/2020	6	14	OK
MW-36	Ammonia (as N)	1/14/2020	1/22/2020	8	28	OK
MW-36	Arsenic	1/14/2020	1/30/2020	16	180	OK
MW-36	Benzene	1/14/2020	1/20/2020	6	14	OK
MW-36	Beryllium	1/14/2020	1/31/2020	17	180	OK
MW-36	Bicarbonate (as CaCO3)	1/14/2020	1/20/2020	6	14	OK
MW-36	Cadmium	1/14/2020	1/30/2020	16	180	OK
MW-36	Calcium	1/14/2020	2/4/2020	21	180	OK
MW-36	Carbon tetrachloride	1/14/2020	1/20/2020	6	14	OK
MW-36	Carbonate (as CaCO3)	1/14/2020	1/20/2020	6	14	OK
MW-36	Chloride	1/14/2020	1/22/2020	8	28	OK
MW-36	Chloroform	1/14/2020	1/20/2020	6	14	OK
MW-36	Chloromethane	1/14/2020	1/20/2020	6	14	OK
MW-36	Chromium	1/14/2020	1/30/2020	16	180	OK
MW-36	Cobalt	1/14/2020	1/30/2020	16	180	OK
MW-36	Copper	1/14/2020	1/31/2020	17	180	OK
MW-36	Fluoride	1/14/2020	1/23/2020	9	28	OK
MW-36	Gross Radium Alpha	1/14/2020	2/14/2020	31	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-36	Iron	1/14/2020	1/31/2020	17	180	OK
MW-36	Lead	1/14/2020	1/31/2020	17	180	OK
MW-36	Magnesium	1/14/2020	2/4/2020	21	180	OK
MW-36	Manganese	1/14/2020	1/30/2020	16	180	OK
MW-36	Mercury	1/14/2020	1/21/2020	7	180	OK
MW-36	Methylene chloride	1/14/2020	1/20/2020	6	14	OK
MW-36	Molybdenum	1/14/2020	1/31/2020	17	180	OK
MW-36	Naphthalene	1/14/2020	1/20/2020	6	14	OK
MW-36	Nickel	1/14/2020	1/30/2020	16	180	OK
MW-36	Nitrate/Nitrite (as N)	1/14/2020	1/23/2020	9	28	OK
MW-36	Potassium	1/14/2020	2/4/2020	21	180	OK
MW-36	Selenium	1/14/2020	1/30/2020	16	180	OK
MW-36	Silver	1/14/2020	1/31/2020	17	180	OK
MW-36	Sodium	1/14/2020	2/4/2020	21	180	OK
MW-36	Sulfate	1/14/2020	1/22/2020	8	28	OK
MW-36	Tetrahydrofuran	1/14/2020	1/20/2020	6	14	OK
MW-36	Thallium	1/14/2020	1/31/2020	17	180	OK
MW-36	Tin	1/14/2020	1/30/2020	16	180	OK
MW-36	Toluene	1/14/2020	1/20/2020	6	14	OK
MW-36	Total Dissolved Solids	1/14/2020	1/20/2020	6	7	OK
MW-36	Uranium	1/14/2020	1/30/2020	16	180	OK
MW-36	Vanadium	1/14/2020	2/4/2020	21	180	OK
MW-36	Xylenes, Total	1/14/2020	1/20/2020	6	14	OK
MW-36	Zinc	1/14/2020	1/31/2020	17	180	OK
MW-38	2-Butanone	1/22/2020	1/23/2020	1	14	OK
MW-38	Acetone	1/22/2020	1/23/2020	1	14	OK
MW-38	Ammonia (as N)	1/22/2020	1/27/2020	5	28	OK
MW-38	Arsenic	1/22/2020	2/3/2020	12	180	OK
MW-38	Benzene	1/22/2020	1/23/2020	1	14	OK
MW-38	Beryllium	1/22/2020	2/5/2020	14	180	OK
MW-38	Bicarbonate (as CaCO3)	1/22/2020	1/24/2020	2	14	OK
MW-38	Cadmium	1/22/2020	2/3/2020	12	180	OK
MW-38	Calcium	1/22/2020	2/5/2020	14	180	OK
MW-38	Carbon tetrachloride	1/22/2020	1/23/2020	1	14	OK
MW-38	Carbonate (as CaCO3)	1/22/2020	1/24/2020	2	14	OK
MW-38	Chloride	1/22/2020	1/28/2020	6	28	OK
MW-38	Chloroform	1/22/2020	1/23/2020	1	14	OK
MW-38	Chloromethane	1/22/2020	1/23/2020	1	14	OK
MW-38	Chromium	1/22/2020	2/3/2020	12	180	OK
MW-38	Cobalt	1/22/2020	2/3/2020	12	180	OK
MW-38	Copper	1/22/2020	2/5/2020	14	180	OK
MW-38	Fluoride	1/22/2020	1/28/2020	6	28	OK
MW-38	Gross Radium Alpha	1/22/2020	2/14/2020	23	180	OK
MW-38	Iron	1/22/2020	2/3/2020	12	180	OK
MW-38	Lead	1/22/2020	2/3/2020	12	180	OK
MW-38	Magnesium	1/22/2020	2/5/2020	14	180	OK
MW-38	Manganese	1/22/2020	2/3/2020	12	180	OK
MW-38	Mercury	1/22/2020	1/29/2020	7	180	OK
MW-38	Methylene chloride	1/22/2020	1/23/2020	1	14	OK
MW-38	Molybdenum	1/22/2020	2/3/2020	12	180	OK
MW-38	Naphthalene	1/22/2020	1/23/2020	1	14	OK
MW-38	Nickel	1/22/2020	2/3/2020	12	180	OK
MW-38	Nitrate/Nitrite (as N)	1/22/2020	1/24/2020	2	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-38	Potassium	1/22/2020	2/6/2020	15	180	OK
MW-38	Selenium	1/22/2020	2/3/2020	12	180	OK
MW-38	Silver	1/22/2020	2/3/2020	12	180	OK
MW-38	Sodium	1/22/2020	2/5/2020	14	180	OK
MW-38	Sulfate	1/22/2020	1/27/2020	5	28	OK
MW-38	Tetrahydrofuran	1/22/2020	1/23/2020	1	14	OK
MW-38	Thallium	1/22/2020	2/3/2020	12	180	OK
MW-38	Tin	1/22/2020	2/3/2020	12	180	OK
MW-38	Toluene	1/22/2020	1/23/2020	1	14	OK
MW-38	Total Dissolved Solids	1/22/2020	1/24/2020	2	7	OK
MW-38	Uranium	1/22/2020	2/3/2020	12	180	OK
MW-38	Vanadium	1/22/2020	2/6/2020	15	180	OK
MW-38	Xylenes, Total	1/22/2020	1/23/2020	1	14	OK
MW-38	Zinc	1/22/2020	2/3/2020	12	180	OK
MW-39	2-Butanone	1/20/2020	1/23/2020	3	14	OK
MW-39	Acetone	1/20/2020	1/23/2020	3	14	OK
MW-39	Ammonia (as N)	1/20/2020	1/27/2020	7	28	OK
MW-39	Arsenic	1/20/2020	2/3/2020	14	180	OK
MW-39	Benzene	1/20/2020	1/23/2020	3	14	OK
MW-39	Beryllium	1/20/2020	2/5/2020	16	180	OK
MW-39	Bicarbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-39	Cadmium	1/20/2020	2/3/2020	14	180	OK
MW-39	Calcium	1/20/2020	2/5/2020	16	180	OK
MW-39	Carbon tetrachloride	1/20/2020	1/23/2020	3	14	OK
MW-39	Carbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-39	Chloride	1/20/2020	1/28/2020	8	28	OK
MW-39	Chloroform	1/20/2020	1/23/2020	3	14	OK
MW-39	Chloromethane	1/20/2020	1/23/2020	3	14	OK
MW-39	Chromium	1/20/2020	2/3/2020	14	180	OK
MW-39	Cobalt	1/20/2020	2/3/2020	14	180	OK
MW-39	Copper	1/20/2020	2/5/2020	16	180	OK
MW-39	Fluoride	1/20/2020	1/28/2020	8	28	OK
MW-39	Gross Radium Alpha	1/20/2020	2/14/2020	25	180	OK
MW-39	Iron	1/20/2020	2/3/2020	14	180	OK
MW-39	Lead	1/20/2020	2/3/2020	14	180	OK
MW-39	Magnesium	1/20/2020	2/5/2020	16	180	OK
MW-39	Manganese	1/20/2020	2/3/2020	14	180	OK
MW-39	Mercury	1/20/2020	1/29/2020	9	180	OK
MW-39	Methylene chloride	1/20/2020	1/23/2020	3	14	OK
MW-39	Molybdenum	1/20/2020	2/3/2020	14	180	OK
MW-39	Naphthalene	1/20/2020	1/23/2020	3	14	OK
MW-39	Nickel	1/20/2020	2/3/2020	14	180	OK
MW-39	Nitrate/Nitrite (as N)	1/20/2020	1/24/2020	4	28	OK
MW-39	Potassium	1/20/2020	2/6/2020	17	180	OK
MW-39	Selenium	1/20/2020	2/3/2020	14	180	OK
MW-39	Silver	1/20/2020	2/3/2020	14	180	OK
MW-39	Sodium	1/20/2020	2/5/2020	16	180	OK
MW-39	Sulfate	1/20/2020	1/27/2020	7	28	OK
MW-39	Tetrahydrofuran	1/20/2020	1/23/2020	3	14	OK
MW-39	Thallium	1/20/2020	2/3/2020	14	180	OK
MW-39	Tin	1/20/2020	2/3/2020	14	180	OK
MW-39	Toluene	1/20/2020	1/23/2020	3	14	OK
MW-39	Total Dissolved Solids	1/20/2020	1/24/2020	4	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-39	Uranium	1/20/2020	2/3/2020	14	180	OK
MW-39	Vanadium	1/20/2020	2/6/2020	17	180	OK
MW-39	Xylenes, Total	1/20/2020	1/23/2020	3	14	OK
MW-39	Zinc	1/20/2020	2/3/2020	14	180	OK
MW-40	2-Butanone	1/20/2020	1/23/2020	3	14	OK
MW-40	Acetone	1/20/2020	1/23/2020	3	14	OK
MW-40	Ammonia (as N)	1/20/2020	1/27/2020	7	28	OK
MW-40	Arsenic	1/20/2020	2/3/2020	14	180	OK
MW-40	Benzene	1/20/2020	1/23/2020	3	14	OK
MW-40	Beryllium	1/20/2020	2/5/2020	16	180	OK
MW-40	Bicarbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-40	Cadmium	1/20/2020	2/3/2020	14	180	OK
MW-40	Calcium	1/20/2020	2/5/2020	16	180	OK
MW-40	Carbon tetrachloride	1/20/2020	1/23/2020	3	14	OK
MW-40	Carbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-40	Chloride	1/20/2020	1/28/2020	8	28	OK
MW-40	Chloroform	1/20/2020	1/23/2020	3	14	OK
MW-40	Chloromethane	1/20/2020	1/23/2020	3	14	OK
MW-40	Chromium	1/20/2020	2/3/2020	14	180	OK
MW-40	Cobalt	1/20/2020	2/3/2020	14	180	OK
MW-40	Copper	1/20/2020	2/5/2020	16	180	OK
MW-40	Fluoride	1/20/2020	1/28/2020	8	28	OK
MW-40	Gross Radium Alpha	1/20/2020	2/15/2020	26	180	OK
MW-40	Iron	1/20/2020	2/3/2020	14	180	OK
MW-40	Lead	1/20/2020	2/3/2020	14	180	OK
MW-40	Magnesium	1/20/2020	2/5/2020	16	180	OK
MW-40	Manganese	1/20/2020	2/3/2020	14	180	OK
MW-40	Mercury	1/20/2020	1/29/2020	9	180	OK
MW-40	Methylene chloride	1/20/2020	1/23/2020	3	14	OK
MW-40	Molybdenum	1/20/2020	2/3/2020	14	180	OK
MW-40	Naphthalene	1/20/2020	1/23/2020	3	14	OK
MW-40	Nickel	1/20/2020	2/3/2020	14	180	OK
MW-40	Nitrate/Nitrite (as N)	1/20/2020	1/24/2020	4	28	OK
MW-40	Potassium	1/20/2020	2/6/2020	17	180	OK
MW-40	Selenium	1/20/2020	2/3/2020	14	180	OK
MW-40	Silver	1/20/2020	2/3/2020	14	180	OK
MW-40	Sodium	1/20/2020	2/5/2020	16	180	OK
MW-40	Sulfate	1/20/2020	1/27/2020	7	28	OK
MW-40	Tetrahydrofuran	1/20/2020	1/23/2020	3	14	OK
MW-40	Thallium	1/20/2020	2/3/2020	14	180	OK
MW-40	Tin	1/20/2020	2/3/2020	14	180	OK
MW-40	Toluene	1/20/2020	1/23/2020	3	14	OK
MW-40	Total Dissolved Solids	1/20/2020	1/24/2020	4	7	OK
MW-40	Uranium	1/20/2020	2/3/2020	14	180	OK
MW-40	Vanadium	1/20/2020	2/6/2020	17	180	OK
MW-40	Xylenes, Total	1/20/2020	1/23/2020	3	14	OK
MW-40	Zinc	1/20/2020	2/3/2020	14	180	OK
MW-65	2-Butanone	1/20/2020	1/23/2020	3	14	OK
MW-65	Acetone	1/20/2020	1/23/2020	3	14	OK
MW-65	Ammonia (as N)	1/20/2020	1/27/2020	7	28	OK
MW-65	Arsenic	1/20/2020	2/3/2020	14	180	OK
MW-65	Benzene	1/20/2020	1/23/2020	3	14	OK
MW-65	Beryllium	1/20/2020	2/5/2020	16	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Bicarbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-65	Cadmium	1/20/2020	2/3/2020	14	180	OK
MW-65	Calcium	1/20/2020	2/5/2020	16	180	OK
MW-65	Carbon tetrachloride	1/20/2020	1/23/2020	3	14	OK
MW-65	Carbonate (as CaCO3)	1/20/2020	1/24/2020	4	14	OK
MW-65	Chloride	1/20/2020	1/28/2020	8	28	OK
MW-65	Chloroform	1/20/2020	1/23/2020	3	14	OK
MW-65	Chloromethane	1/20/2020	1/23/2020	3	14	OK
MW-65	Chromium	1/20/2020	2/3/2020	14	180	OK
MW-65	Cobalt	1/20/2020	2/3/2020	14	180	OK
MW-65	Copper	1/20/2020	2/5/2020	16	180	OK
MW-65	Fluoride	1/20/2020	1/28/2020	8	28	OK
MW-65	Gross Radium Alpha	1/20/2020	2/15/2020	26	180	OK
MW-65	Iron	1/20/2020	2/3/2020	14	180	OK
MW-65	Lead	1/20/2020	2/3/2020	14	180	OK
MW-65	Magnesium	1/20/2020	2/5/2020	16	180	OK
MW-65	Manganese	1/20/2020	2/3/2020	14	180	OK
MW-65	Mercury	1/20/2020	1/29/2020	9	180	OK
MW-65	Methylene chloride	1/20/2020	1/23/2020	3	14	OK
MW-65	Molybdenum	1/20/2020	2/3/2020	14	180	OK
MW-65	Naphthalene	1/20/2020	1/23/2020	3	14	OK
MW-65	Nickel	1/20/2020	2/3/2020	14	180	OK
MW-65	Nitrate/Nitrite (as N)	1/20/2020	1/24/2020	4	28	OK
MW-65	Potassium	1/20/2020	2/6/2020	17	180	OK
MW-65	Selenium	1/20/2020	2/3/2020	14	180	OK
MW-65	Silver	1/20/2020	2/3/2020	14	180	OK
MW-65	Sodium	1/20/2020	2/5/2020	16	180	OK
MW-65	Sulfate	1/20/2020	1/28/2020	8	28	OK
MW-65	Tetrahydrofuran	1/20/2020	1/23/2020	3	14	OK
MW-65	Thallium	1/20/2020	2/3/2020	14	180	OK
MW-65	Tin	1/20/2020	2/3/2020	14	180	OK
MW-65	Toluene	1/20/2020	1/23/2020	3	14	OK
MW-65	Total Dissolved Solids	1/20/2020	1/24/2020	4	7	OK
MW-65	Uranium	1/20/2020	2/3/2020	14	180	OK
MW-65	Vanadium	1/20/2020	2/6/2020	17	180	OK
MW-65	Xylenes, Total	1/20/2020	1/23/2020	3	14	OK
MW-65	Zinc	1/20/2020	2/3/2020	14	180	OK
Trip Blank	Toluene	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Tetrahydrofuran	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Xylenes, Total	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Carbon tetrachloride	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Acetone	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Chloroform	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Benzene	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Chloromethane	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Methylene chloride	1/14/2020	1/20/2020	6	14	OK
Trip Blank	2-Butanone	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Naphthalene	1/14/2020	1/20/2020	6	14	OK
Trip Blank	Toluene	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Tetrahydrofuran	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Xylenes, Total	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Carbon tetrachloride	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Acetone	1/20/2020	1/24/2020	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
Trip Blank	Chloroform	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Benzene	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Chloromethane	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Methylene chloride	1/20/2020	1/24/2020	4	14	OK
Trip Blank	2-Butanone	1/20/2020	1/24/2020	4	14	OK
Trip Blank	Naphthalene	1/20/2020	1/24/2020	4	14	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
MW-11	Sulfate	2/4/2020	2/13/2020	9	28	OK
MW-11	Chloride	2/4/2020	2/13/2020	9	28	OK
MW-11	Manganese	2/4/2020	2/11/2020	7	180	OK
MW-11	Sulfate	3/10/2020	3/19/2020	9	28	OK
MW-11	Chloride	3/10/2020	3/19/2020	9	28	OK
MW-11	Manganese	3/10/2020	3/25/2020	15	180	OK
MW-14	Sulfate	2/4/2020	2/13/2020	9	28	OK
MW-14	Fluoride	2/4/2020	2/17/2020	13	27	OK
MW-14	Sulfate	3/10/2020	3/19/2020	9	28	OK
MW-14	Fluoride	3/10/2020	3/19/2020	9	27	OK
MW-25	Cadmium	2/5/2020	2/11/2020	6	180	OK
MW-25	Cadmium	3/11/2020	3/25/2020	14	180	OK
MW-26	Chloride	2/4/2020	2/13/2020	9	28	OK
MW-26	Chloroform	2/4/2020	2/10/2020	6	14	OK
MW-26	Methylene chloride	2/4/2020	2/7/2020	3	14	OK
MW-26	Ammonia (as N)	2/4/2020	2/13/2020	9	28	OK
MW-26	Nitrate/Nitrite (as N)	2/4/2020	2/7/2020	3	28	OK
MW-26	Chloride	2/19/2020	3/3/2020	13	28	OK
MW-26	Carbon tetrachloride	2/19/2020	2/24/2020	5	14	OK
MW-26	Chloroform	2/19/2020	2/25/2020	6	14	OK
MW-26	Chloromethane	2/19/2020	2/24/2020	5	14	OK
MW-26	Methylene chloride	2/19/2020	2/24/2020	5	14	OK
MW-26	Nitrate/Nitrite (as N)	2/19/2020	2/21/2020	2	28	OK
MW-26	Chloride	3/10/2020	3/19/2020	9	28	OK
MW-26	Chloroform	3/10/2020	3/13/2020	3	14	OK
MW-26	Methylene chloride	3/10/2020	3/13/2020	3	14	OK
MW-26	Ammonia (as N)	3/10/2020	3/20/2020	10	28	OK
MW-26	Nitrate/Nitrite (as N)	3/10/2020	3/13/2020	3	28	OK
MW-30	Chloride	2/5/2020	2/13/2020	8	28	OK
MW-30	Uranium	2/5/2020	2/11/2020	6	180	OK
MW-30	Selenium	2/5/2020	2/11/2020	6	180	OK
MW-30	Nitrate/Nitrite (as N)	2/5/2020	2/7/2020	2	28	OK
MW-30	Chloride	3/11/2020	3/19/2020	8	28	OK
MW-30	Uranium	3/11/2020	3/26/2020	15	180	OK
MW-30	Selenium	3/11/2020	3/25/2020	14	180	OK
MW-30	Nitrate/Nitrite (as N)	3/11/2020	3/13/2020	2	28	OK
MW-31	Sulfate	2/4/2020	2/13/2020	9	28	OK
MW-31	Chloride	2/4/2020	2/13/2020	9	28	OK
MW-31	Nitrate/Nitrite (as N)	2/4/2020	2/7/2020	3	28	OK
MW-31	Total Dissolved Solids	2/4/2020	2/7/2020	3	7	OK
MW-31	Sulfate	3/10/2020	3/19/2020	9	28	OK
MW-31	Chloride	3/10/2020	3/19/2020	9	28	OK
MW-31	Nitrate/Nitrite (as N)	3/10/2020	3/13/2020	3	28	OK
MW-31	Total Dissolved Solids	3/10/2020	3/16/2020	6	7	OK
MW-36	Sulfate	2/5/2020	2/13/2020	8	28	OK
MW-36	Sulfate	3/10/2020	3/19/2020	9	28	OK
MW-65	Chloride	2/5/2020	2/13/2020	8	28	OK
MW-65	Uranium	2/5/2020	2/11/2020	6	180	OK
MW-65	Selenium	2/5/2020	2/11/2020	6	180	OK
MW-65	Nitrate/Nitrite (as N)	2/5/2020	2/7/2020	2	28	OK
MW-65	Sulfate	3/10/2020	3/19/2020	9	28	OK
MW-65	Chloride	3/10/2020	3/19/2020	9	28	OK
MW-65	Nitrate/Nitrite (as N)	3/10/2020	3/13/2020	3	28	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
MW-65	Total Dissolved Solids	3/10/2020	3/16/2020	6	7	OK
Trip Blank	Chloroform	2/4/2020	2/7/2020	3	14	OK
Trip Blank	Methylene chloride	2/4/2020	2/7/2020	3	14	OK
Trip Blank	Chloroform	3/10/2020	3/13/2020	3	14	OK
Trip Blank	Methylene chloride	3/10/2020	3/10/2020	0	14	OK

G-3A: Quarterly Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 502102	MW-14, MW-24, MW-24A, MW-25, MW-26, MW-28, MW-30, MW-31, MW-36, MW-38, MW-39, MW-40, MW-65	NA
GEL 502847	MW-11 Resample	NA
AWAL 2001383	MW-11, MW-12, MW-14, MW-25, MW-26, MW-30, MW-31, MW-32, MW-35, MW-36, Trip Blank	1.3 °C
AWAL 2001497	MW-24, MW-24A, MW-27, MW-28, MW-38, MW-39, MW-40, MW-65, Trip Blank	0.3 °C

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

G-3B: Accelerated Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
AWAL 2002134 - February	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-65, Trip Blank	2.1 °C
AWAL 2003334 - March	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-36, MW-65, Trip Blank	1.1 °C

G-4A: Quarterly Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 and E200.8
Gross Alpha	E900.0 or E900.1 or E903.0	E903.0
VOCs	SW8260B or SW8260C or SW8260D	SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	SM4500-Cl-E and 300.0
Fluoride	A4500-F C or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C
Carbonate as CO ₃ , Bicarbonate as HCO ₃	A2320 B	A2320 B
Mercury	E245.1 or E200.7 or E200.8	E245.1
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

G-4B: Accelerated Sample Analytical Method Check

Parameter	QAP Method	Method Used by Lab
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 or E200.8
VOCs	SW8260B or SW8260C or SW8260D	SW8260D
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Fluoride	A4500-F C or E300.0	A4500-F C
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
MW-11	2-Butanone	20	ug/L	U	1	20	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-11	Arsenic	5	ug/L	U	20	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-11	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-11	Calcium	20	mg/L		20	0.5	OK
MW-11	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-11	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-11	Chloride	5	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	20	25	OK
MW-11	Cobalt	10	ug/L	U	20	10	OK
MW-11	Copper	10	ug/L	U	5	10	OK
MW-11	Fluoride	0.2	mg/L		2	0.1	OK
MW-11	Iron	30	ug/L	U	5	30	OK
MW-11	Lead	1	ug/L	U	5	1	OK
MW-11	Magnesium	1	mg/L		1	0.5	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Mercury	0.5	ug/L	U	1	0.5	OK
MW-11	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Molybdenum	10	ug/L	U	5	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	20	20	OK
MW-11	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-11	Potassium	1	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L	U	20	5	OK
MW-11	Silver	10	ug/L	U	5	10	OK
MW-11	Sodium	20	mg/L		20	0.5	OK
MW-11	Sulfate	75	mg/L		100	1	OK
MW-11	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-11	Thallium	0.5	ug/L	U	5	0.5	OK
MW-11	Tin	100	ug/L	U	20	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Uranium	0.3	ug/L		2	0.3	OK
MW-11	Vanadium	15	ug/L	U	20	15	OK
MW-11	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L	U	5	10	OK
MW-11	Gross Radium Alpha	0.669	pCi/L	U	1	1	OK
MW-12	Uranium	0.3	ug/L		2	0.3	OK
MW-14	2-Butanone	20	ug/L	U	1	20	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-14	Arsenic	5	ug/L	U	20	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-14	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		20	0.5	OK
MW-14	Calcium	20	mg/L		20	0.5	OK
MW-14	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-14	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-14	Chloride	1	mg/L		5	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	20	25	OK
MW-14	Cobalt	10	ug/L	U	20	10	OK
MW-14	Copper	10	ug/L	U	5	10	OK
MW-14	Fluoride	0.1	mg/L		1	0.1	OK
MW-14	Gross Radium Alpha	0.657	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	5	30	OK
MW-14	Lead	1	ug/L	U	5	1	OK
MW-14	Magnesium	20	mg/L		20	0.5	OK
MW-14	Manganese	10	ug/L		20	10	OK
MW-14	Mercury	0.5	ug/L	U	1	0.5	OK
MW-14	Methylene chloride	1	ug/L	U	1	1	OK
MW-14	Molybdenum	10	ug/L	U	5	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	20	20	OK
MW-14	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-14	Potassium	1	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	20	5	OK
MW-14	Silver	10	ug/L	U	5	10	OK
MW-14	Sodium	20	mg/L		20	0.5	OK
MW-14	Sulfate	150	mg/L		200	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	5	0.5	OK
MW-14	Tin	100	ug/L	U	20	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		2	10	OK
MW-14	Uranium	0.3	ug/L		2	0.3	OK
MW-14	Vanadium	15	ug/L	U	20	15	OK
MW-14	Xylenes, Total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		5	10	OK
MW-24	2-Butanone	20	ug/L	U	1	20	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-24	Arsenic	5	ug/L	U	20	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	0.5	ug/L		5	0.5	OK
MW-24	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-24	Cadmium	0.5	ug/L		20	0.5	OK
MW-24	Calcium	10	mg/L		10	0.5	OK
MW-24	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-24	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-24	Chloride	1	mg/L		5	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	20	25	OK
MW-24	Cobalt	10	ug/L		20	10	OK
MW-24	Copper	10	ug/L	U	20	10	OK
MW-24	Fluoride	0.5	mg/L		5	0.1	OK
MW-24	Gross Radium Alpha	0.865	pCi/L		1	1	OK
MW-24	Iron	30	ug/L		2	30	OK
MW-24	Lead	1	ug/L		2	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-24	Magnesium	10	mg/L		10	0.5	OK
MW-24	Manganese	10	ug/L		100	10	OK
MW-24	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24	Methylene chloride	1	ug/L	U	1	1	OK
MW-24	Molybdenum	10	ug/L	U	20	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L		20	20	OK
MW-24	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-24	Potassium	1	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L		20	5	OK
MW-24	Silver	10	ug/L	U	20	10	OK
MW-24	Sodium	10	mg/L		10	0.5	OK
MW-24	Sulfate	150	mg/L		200	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		2	0.5	OK
MW-24	Tin	100	ug/L	U	20	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24	Uranium	0.3	ug/L		2	0.3	OK
MW-24	Vanadium	15	ug/L	U	1	15	OK
MW-24	Xylenes, Total	1	ug/L	U	1	1	OK
MW-24	Zinc	10	ug/L		20	10	OK
MW-24A	2-Butanone	20	ug/L	U	1	20	OK
MW-24A	Acetone	20	ug/L	U	1	20	OK
MW-24A	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-24A	Arsenic	5	ug/L	U	20	5	OK
MW-24A	Benzene	1	ug/L	U	1	1	OK
MW-24A	Beryllium	0.5	ug/L		5	0.5	OK
MW-24A	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-24A	Cadmium	0.5	ug/L		20	0.5	OK
MW-24A	Calcium	10	mg/L		10	0.5	OK
MW-24A	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-24A	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-24A	Chloride	1	mg/L		10	1	OK
MW-24A	Chloroform	1	ug/L	U	1	1	OK
MW-24A	Chloromethane	1	ug/L	U	1	1	OK
MW-24A	Chromium	25	ug/L	U	20	25	OK
MW-24A	Cobalt	10	ug/L		20	10	OK
MW-24A	Copper	10	ug/L		20	10	OK
MW-24A	Fluoride	1	mg/L		10	0.1	OK
MW-24A	Gross Radium Alpha	0.917	pCi/L		1	1	OK
MW-24A	Iron	30	ug/L	U	2	30	OK
MW-24A	Lead	1	ug/L	U	2	1	OK
MW-24A	Magnesium	10	mg/L		10	0.5	OK
MW-24A	Manganese	10	ug/L		100	10	OK
MW-24A	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24A	Methylene chloride	1	ug/L	U	1	1	OK
MW-24A	Molybdenum	10	ug/L	U	20	10	OK
MW-24A	Naphthalene	1	ug/L	U	1	1	OK
MW-24A	Nickel	20	ug/L		20	20	OK
MW-24A	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-24A	Potassium	1	mg/L		1	0.5	OK
MW-24A	Selenium	5	ug/L		20	5	OK
MW-24A	Silver	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-24A	Sodium	10	mg/L		10	0.5	OK
MW-24A	Sulfate	375	mg/L		500	1	OK
MW-24A	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24A	Thallium	0.5	ug/L		2	0.5	OK
MW-24A	Tin	100	ug/L	U	20	100	OK
MW-24A	Toluene	1	ug/L	U	1	1	OK
MW-24A	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24A	Uranium	0.3	ug/L		2	0.3	OK
MW-24A	Vanadium	15	ug/L	U	1	15	OK
MW-24A	Xylenes, Total	1	ug/L	U	1	1	OK
MW-24A	Zinc	10	ug/L		20	10	OK
MW-25	2-Butanone	20	ug/L	U	1	20	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-25	Arsenic	5	ug/L	U	20	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-25	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Calcium	20	mg/L		20	0.5	OK
MW-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-25	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-25	Chloride	1	mg/L		5	1	OK
MW-25	Chloroform	1	ug/L	U	1	1	OK
MW-25	Chloromethane	1	ug/L	U	1	1	OK
MW-25	Chromium	25	ug/L	U	20	25	OK
MW-25	Cobalt	10	ug/L	U	20	10	OK
MW-25	Copper	10	ug/L	U	5	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.865	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	5	30	OK
MW-25	Lead	1	ug/L	U	5	1	OK
MW-25	Magnesium	20	mg/L		20	0.5	OK
MW-25	Manganese	10	ug/L		20	10	OK
MW-25	Mercury	0.5	ug/L	U	1	0.5	OK
MW-25	Methylene chloride	1	ug/L	U	1	1	OK
MW-25	Molybdenum	10	ug/L		5	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	20	20	OK
MW-25	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-25	Potassium	1	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	20	5	OK
MW-25	Silver	10	ug/L	U	5	10	OK
MW-25	Sodium	20	mg/L		20	0.5	OK
MW-25	Sulfate	150	mg/L		200	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		5	0.5	OK
MW-25	Tin	100	ug/L	U	20	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-25	Vanadium	15	ug/L	U	20	15	OK
MW-25	Xylenes, Total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	5	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	2-Butanone	20	ug/L	U	1	20	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-26	Arsenic	5	ug/L	U	20	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-26	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-26	Calcium	20	mg/L		20	0.5	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Chloroform	50	ug/L		50	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	20	25	OK
MW-26	Cobalt	10	ug/L	U	20	10	OK
MW-26	Copper	10	ug/L	U	5	10	OK
MW-26	Fluoride	0.2	mg/L		2	0.1	OK
MW-26	Gross Radium Alpha	0.994	pCi/L		1	1	OK
MW-26	Iron	100	ug/L		20	30	OK
MW-26	Lead	1	ug/L	U	5	1	OK
MW-26	Magnesium	20	mg/L		20	0.5	OK
MW-26	Manganese	10	ug/L		20	10	OK
MW-26	Mercury	0.5	ug/L	U	1	0.5	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Molybdenum	10	ug/L	U	5	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	20	20	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		2	0.1	OK
MW-26	Potassium	1	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L	U	20	5	OK
MW-26	Silver	10	ug/L	U	5	10	OK
MW-26	Sodium	20	mg/L		20	0.5	OK
MW-26	Sulfate	150	mg/L		200	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-26	Thallium	0.5	ug/L	U	5	0.5	OK
MW-26	Tin	100	ug/L	U	20	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Vanadium	15	ug/L	U	20	15	OK
MW-26	Xylenes, Total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	5	10	OK
MW-27	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-28	Chloride	2	mg/L		20	1	OK
MW-28	Gross Radium Alpha	0.691	pCi/L		1	1	OK
MW-28	Selenium	5	ug/L		20	5	OK
MW-28	Uranium	0.3	ug/L		2	0.3	OK
MW-30	2-Butanone	20	ug/L	U	1	20	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-30	Arsenic	5	ug/L	U	20	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	5	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-30	Calcium	20	mg/L		20	0.5	OK
MW-30	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-30	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-30	Chloride	5	mg/L		50	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	20	25	OK
MW-30	Cobalt	10	ug/L	U	20	10	OK
MW-30	Copper	10	ug/L	U	5	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.673	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	5	30	OK
MW-30	Lead	1	ug/L	U	5	1	OK
MW-30	Magnesium	20	mg/L		20	0.5	OK
MW-30	Manganese	10	ug/L		20	10	OK
MW-30	Mercury	0.5	ug/L	U	1	0.5	OK
MW-30	Methylene chloride	1	ug/L	U	1	1	OK
MW-30	Molybdenum	10	ug/L	U	5	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	20	20	OK
MW-30	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
MW-30	Potassium	1	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Silver	10	ug/L	U	5	10	OK
MW-30	Sodium	20	mg/L		20	0.5	OK
MW-30	Sulfate	37.5	mg/L		50	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	5	0.5	OK
MW-30	Tin	100	ug/L	U	20	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Vanadium	15	ug/L	U	20	15	OK
MW-30	Xylenes, Total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	5	10	OK
MW-31	2-Butanone	20	ug/L	U	1	20	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-31	Arsenic	5	ug/L	U	20	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-31	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-31	Calcium	20	mg/L		20	0.5	OK
MW-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-31	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-31	Chloride	10	mg/L		100	1	OK
MW-31	Chloroform	1	ug/L	U	1	1	OK
MW-31	Chloromethane	1	ug/L	U	1	1	OK
MW-31	Chromium	25	ug/L	U	20	25	OK
MW-31	Cobalt	10	ug/L	U	20	10	OK
MW-31	Copper	10	ug/L	U	5	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-31	Fluoride	0.1	mg/L		1	0.1	OK
MW-31	Gross Radium Alpha	0.864	pCi/L	U	1	1	OK
MW-31	Iron	30	ug/L	U	5	30	OK
MW-31	Lead	1	ug/L	U	5	1	OK
MW-31	Magnesium	20	mg/L		20	0.5	OK
MW-31	Manganese	10	ug/L	U	20	10	OK
MW-31	Mercury	0.5	ug/L	U	1	0.5	OK
MW-31	Methylene chloride	1	ug/L	U	1	1	OK
MW-31	Molybdenum	10	ug/L	U	5	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	20	20	OK
MW-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-31	Potassium	1	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Silver	10	ug/L	U	5	10	OK
MW-31	Sodium	20	mg/L		20	0.5	OK
MW-31	Sulfate	75	mg/L		100	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	5	0.5	OK
MW-31	Tin	100	ug/L	U	20	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Vanadium	15	ug/L	U	20	15	OK
MW-31	Xylenes, Total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	5	10	OK
MW-32	Chloride	1	mg/L		5	1	OK
MW-35	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-36	2-Butanone	20	ug/L	U	1	20	OK
MW-36	Acetone	20	ug/L	U	1	20	OK
MW-36	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-36	Arsenic	5	ug/L	U	20	5	OK
MW-36	Benzene	1	ug/L	U	1	1	OK
MW-36	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-36	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-36	Calcium	20	mg/L		20	0.5	OK
MW-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-36	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-36	Chloride	1	mg/L		5	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	20	25	OK
MW-36	Cobalt	10	ug/L	U	20	10	OK
MW-36	Copper	10	ug/L	U	5	10	OK
MW-36	Fluoride	0.1	mg/L		1	0.1	OK
MW-36	Gross Radium Alpha	0.853	pCi/L		1	1	OK
MW-36	Iron	30	ug/L	U	5	30	OK
MW-36	Lead	1	ug/L	U	5	1	OK
MW-36	Magnesium	20	mg/L		20	0.5	OK
MW-36	Manganese	10	ug/L	U	20	10	OK
MW-36	Mercury	0.5	ug/L	U	1	0.5	OK
MW-36	Methylene chloride	1	ug/L	U	1	1	OK
MW-36	Molybdenum	10	ug/L	U	5	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	20	20	OK
MW-36	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-36	Potassium	1	mg/L		1	0.5	OK
MW-36	Selenium	5	ug/L		20	5	OK
MW-36	Silver	10	ug/L	U	5	10	OK
MW-36	Sodium	20	mg/L		20	0.5	OK
MW-36	Sulfate	150	mg/L		200	1	OK
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		5	0.5	OK
MW-36	Tin	100	ug/L	U	20	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Uranium	0.3	ug/L		2	0.3	OK
MW-36	Vanadium	15	ug/L	U	20	15	OK
MW-36	Xylenes, Total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	5	10	OK
MW-38	2-Butanone	20	ug/L	U	1	20	OK
MW-38	Acetone	20	ug/L	U	1	20	OK
MW-38	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-38	Arsenic	5	ug/L	U	20	5	OK
MW-38	Benzene	1	ug/L	U	1	1	OK
MW-38	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-38	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-38	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-38	Calcium	10	mg/L		10	0.5	OK
MW-38	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-38	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-38	Chloride	1	mg/L		5	1	OK
MW-38	Chloroform	1	ug/L	U	1	1	OK
MW-38	Chloromethane	1	ug/L	U	1	1	OK
MW-38	Chromium	25	ug/L	U	20	25	OK
MW-38	Cobalt	10	ug/L	U	20	10	OK
MW-38	Copper	10	ug/L	U	20	10	OK
MW-38	Fluoride	0.5	mg/L		5	0.1	OK
MW-38	Gross Radium Alpha	0.866	pCi/L		1	1	OK
MW-38	Iron	30	ug/L	U	2	30	OK
MW-38	Lead	1	ug/L	U	2	1	OK
MW-38	Magnesium	10	mg/L		10	0.5	OK
MW-38	Manganese	10	ug/L	U	20	10	OK
MW-38	Mercury	0.5	ug/L	U	1	0.5	OK
MW-38	Methylene chloride	1	ug/L	U	1	1	OK
MW-38	Molybdenum	10	ug/L	U	20	10	OK
MW-38	Naphthalene	1	ug/L	U	1	1	OK
MW-38	Nickel	20	ug/L	U	20	20	OK
MW-38	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-38	Potassium	1	mg/L		1	0.5	OK
MW-38	Selenium	5	ug/L		20	5	OK
MW-38	Silver	10	ug/L	U	20	10	OK
MW-38	Sodium	10	mg/L		10	0.5	OK
MW-38	Sulfate	375	mg/L		500	1	OK
MW-38	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-38	Thallium	0.5	ug/L	U	2	0.5	OK
MW-38	Tin	100	ug/L	U	20	100	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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		2	0.3	OK
MW-38	Vanadium	15	ug/L	U	1	15	OK
MW-38	Xylenes, Total	1	ug/L	U	1	1	OK
MW-38	Zinc	10	ug/L	U	20	10	OK
MW-39	2-Butanone	20	ug/L	U	1	20	OK
MW-39	Acetone	20	ug/L	U	1	20	OK
MW-39	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-39	Arsenic	5	ug/L	U	20	5	OK
MW-39	Benzene	1	ug/L	U	1	1	OK
MW-39	Beryllium	0.5	ug/L		5	0.5	OK
MW-39	Bicarbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-39	Cadmium	0.5	ug/L		20	0.5	OK
MW-39	Calcium	10	mg/L		10	0.5	OK
MW-39	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-39	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-39	Chloride	1	mg/L		5	1	OK
MW-39	Chloroform	1	ug/L	U	1	1	OK
MW-39	Chloromethane	1	ug/L	U	1	1	OK
MW-39	Chromium	25	ug/L	U	20	25	OK
MW-39	Cobalt	10	ug/L		20	10	OK
MW-39	Copper	10	ug/L		20	10	OK
MW-39	Fluoride	0.5	mg/L		5	0.1	OK
MW-39	Gross Radium Alpha	0.844	pCi/L		1	1	OK
MW-39	Iron	10000	ug/L		2000	30	OK
MW-39	Lead	1	ug/L	U	2	1	OK
MW-39	Magnesium	10	mg/L		10	0.5	OK
MW-39	Manganese	10	ug/L		40	10	OK
MW-39	Mercury	0.5	ug/L	U	1	0.5	OK
MW-39	Methylene chloride	1	ug/L	U	1	1	OK
MW-39	Molybdenum	10	ug/L	U	20	10	OK
MW-39	Naphthalene	1	ug/L	U	1	1	OK
MW-39	Nickel	20	ug/L		20	20	OK
MW-39	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-39	Potassium	1	mg/L		1	0.5	OK
MW-39	Selenium	5	ug/L	U	20	5	OK
MW-39	Silver	10	ug/L	U	20	10	OK
MW-39	Sodium	10	mg/L		10	0.5	OK
MW-39	Sulfate	375	mg/L		500	1	OK
MW-39	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-39	Thallium	0.5	ug/L		2	0.5	OK
MW-39	Tin	100	ug/L	U	20	100	OK
MW-39	Toluene	1	ug/L	U	1	1	OK
MW-39	Total Dissolved Solids	20	MG/L		2	10	OK
MW-39	Uranium	0.3	ug/L		2	0.3	OK
MW-39	Vanadium	15	ug/L	U	1	15	OK
MW-39	Xylenes, Total	1	ug/L	U	1	1	OK
MW-39	Zinc	10	ug/L		20	10	OK
MW-40	2-Butanone	20	ug/L	U	1	20	OK
MW-40	Acetone	20	ug/L	U	1	20	OK
MW-40	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-40	Arsenic	5	ug/L	U	20	5	OK
MW-40	Benzene	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-40	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-40	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-40	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-40	Calcium	10	mg/L		10	0.5	OK
MW-40	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-40	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-40	Chloride	1	mg/L		5	1	OK
MW-40	Chloroform	1	ug/L	U	1	1	OK
MW-40	Chloromethane	1	ug/L	U	1	1	OK
MW-40	Chromium	25	ug/L	U	20	25	OK
MW-40	Cobalt	10	ug/L	U	20	10	OK
MW-40	Copper	10	ug/L	U	20	10	OK
MW-40	Fluoride	0.5	mg/L		5	0.1	OK
MW-40	Gross Radium Alpha	0.622	pCi/L		1	1	OK
MW-40	Iron	30	ug/L	U	2	30	OK
MW-40	Lead	1	ug/L	U	2	1	OK
MW-40	Magnesium	10	mg/L		10	0.5	OK
MW-40	Manganese	10	ug/L		20	10	OK
MW-40	Mercury	0.5	ug/L	U	1	0.5	OK
MW-40	Methylene chloride	1	ug/L	U	1	1	OK
MW-40	Molybdenum	10	ug/L	U	20	10	OK
MW-40	Naphthalene	1	ug/L	U	1	1	OK
MW-40	Nickel	20	ug/L	U	20	20	OK
MW-40	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	OK
MW-40	Potassium	1	mg/L		1	0.5	OK
MW-40	Selenium	5	ug/L		20	5	OK
MW-40	Silver	10	ug/L	U	20	10	OK
MW-40	Sodium	10	mg/L		10	0.5	OK
MW-40	Sulfate	150	mg/L		200	1	OK
MW-40	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-40	Thallium	0.5	ug/L	U	2	0.5	OK
MW-40	Tin	100	ug/L	U	20	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		2	0.3	OK
MW-40	Vanadium	15	ug/L	U	1	15	OK
MW-40	Xylenes, Total	1	ug/L	U	1	1	OK
MW-40	Zinc	10	ug/L	U	20	10	OK
MW-65	2-Butanone	20	ug/L	U	1	20	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-65	Arsenic	5	ug/L	U	20	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-65	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-65	Calcium	10	mg/L		10	0.5	OK
MW-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-65	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-65	Chloride	1	mg/L		10	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	20	25	OK
MW-65	Cobalt	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-65	Copper	10	ug/L	U	20	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.654	pCi/L		1	1	OK
MW-65	Iron	30	ug/L	U	2	30	OK
MW-65	Lead	1	ug/L	U	2	1	OK
MW-65	Magnesium	10	mg/L		10	0.5	OK
MW-65	Manganese	10	ug/L		20	10	OK
MW-65	Mercury	0.5	ug/L	U	1	0.5	OK
MW-65	Methylene chloride	1	ug/L	U	1	1	OK
MW-65	Molybdenum	10	ug/L	U	20	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	20	20	OK
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-65	Potassium	1	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Silver	10	ug/L	U	20	10	OK
MW-65	Sodium	10	mg/L		10	0.5	OK
MW-65	Sulfate	150	mg/L		200	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L	U	2	0.5	OK
MW-65	Tin	100	ug/L	U	20	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Vanadium	15	ug/L	U	1	15	OK
MW-65	Xylenes, Total	1	ug/L	U	1	1	OK
MW-65	Zinc	10	ug/L	U	20	10	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	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	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Sulfate	75	mg/L		100	1	OK
MW-11	Chloride	1	mg/L		10	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Sulfate	75	mg/L		100	1	OK
MW-11	Chloride	1	mg/L		5	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-14	Sulfate	375	mg/L		500	1	OK
MW-14	Fluoride	0.1	mg/L		1	0.1	OK
MW-14	Sulfate	150	mg/L		200	1	OK
MW-14	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Chloroform	20	ug/L		20	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	OK
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloroform	20	ug/L		20	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Methylene chloride	1	ug/L	U	1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	OK
MW-30	Chloride	2	mg/L		20	1	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-30	Chloride	2	mg/L		20	1	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
MW-31	Sulfate	75	mg/L		100	1	OK
MW-31	Chloride	10	mg/L		100	1	OK
MW-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Sulfate	75	mg/L		100	1	OK
MW-31	Chloride	10	mg/L		100	1	OK
MW-31	Nitrate/Nitrite (as N)	0.5	mg/L		50	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Sulfate	375	mg/L		500	1	OK
MW-36	Sulfate	150	mg/L		200	1	OK
MW-65	Chloride	2	mg/L		20	1	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-65	Sulfate	150	mg/L		200	1	OK
MW-65	Chloride	20	mg/L		200	1	OK
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-65	Total Dissolved Solids	20	MG/L		10	10	OK

G-6A: Quarterly Sample Trip Blank Evaluation

Lab Report	Constituent	Result
AWAL 2001383	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
AWAL 2001497	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
AWAL 2002134	2/4/2020	AWAL
AWAL 2003334	3/10/2020	AWAL

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

Constituent	MW-40 01/20/2020	MW-65 01/20/2020	%RPD
Bicarbonate as CaCO3 (mg/L)	352	352	0.00
Calcium (mg/L)	446	446	0.00
Chloride (mg/L)	43.1	43.1	0.00
Fluoride (mg/L)	0.805	0.657	20.25
Magnesium (mg/L)	194	194	0.00
Manganese (mg/L)	0.115	0.112	2.64
Nitrate + Nitrite (as N) (mg/L)	2.59	2.59	0.00
Potassium (mg/L)	9.53	9.72	1.97
Selenium (mg/L)	0.196	0.197	0.51
Sodium (mg/L)	369	367	0.54
Sulfate (mg/L)	2530	2480	2.00
TDS (mg/L)	3760	3470	8.02
Uranium (mg/L)	0.0231	0.0234	1.29
Radiologic Duplicate Tests			
Gross Alpha minus Rn & U*	1.26	1.23	0.08
Gross Alpha minus Rn & U Precision (±)	0.280	0.260	
* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.			
Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.			

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

Constituent	MW-30 2/5/20	MW-65 2/5/20	%RPD*
Nitrate + Nitrite (as N) (mg/L)	17.8	18.3	2.77
Selenium (mg/L)	0.0499	0.0495	0.80
Uranium (mg/L)	0.00906	0.00897	1.00
Chloride (mg/L)	187	184	1.62
Constituent	MW-31 3/10/20	MW-65 3/10/20	%RPD
Nitrate + Nitrite (as N)	19.2	18.7	2.64
Sulfate (mg/L)	1080	1160	7.14
Total Dissolved Solids (mg/L)	2380	2490	4.52
Chloride (mg/L)	368	386	4.77

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 Resample	1.00 U	0.274	NC	3.75	NC
MW-14	1.00 U	0.253	NC	7.5	NC
MW-24	4.95	0.672	Y	7.5	N/A
MW-24A	2.10	0.532	N	-	-
MW-25	1.00 U	0.331	NC	7.5	NC
MW-26	3.56	0.578	Y	4.69	N/A
MW-28	1.79	0.293	Y	2.42	N/A
MW-30	1.00 U	0.233	NC	3.75	NC
MW-31	1.00 U	0.296	NC	7.5	NC
MW-36	1.56	0.418	N	7.5	Y
MW-38	1.11	0.369	N	-	-
MW-39	5.11	0.725	Y	-	-
MW-40	1.26	0.280	N	-	-
MW-65	1.23	0.260	N	-	-

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: Radiologies Counting Error for Accelerated Samples

There are no accelerated samples collected for Gross Alpha.

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
2001383	MW-11	Sodium*	NC	NC	70-130	NC	20
2001383	MW-35	Ammonia as (N)	127	127	90-110	0.00	10
2001497	MW-39	Calcium*	NC	NC	70-130	NC	20
2001497	MW-39	Magnesium*	NC	NC	70-130	NC	20
2001497	MW-39	Sodium*	NC	NC	70-130	NC	20
2001497	MW-39	Silver	62.8	62.3	75-125	0.68	20
2001497	MW-39	Manganese	82.5	58.3	75-125	2.08	20
2001497	MW-24	Ammonia as (N)	131	137	90-110	4.80	10

* 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.

Method Blank Detections

All Method Blanks for the quarter were non-detect.

Laboratory Control Sample

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

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
2001383	MW-11	Total Dissolved Solids	2020	1920	5.48	5

G-9B: Accelerated Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS % REC	MSD % REC	REC Range	RPD %	RPD Range %
2002134 - February Accelerated	MW-26	Ammonia (as N)	121	120	90-110	1.34	10

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicates were within acceptance limits for the quarter.

Method Blank Detections

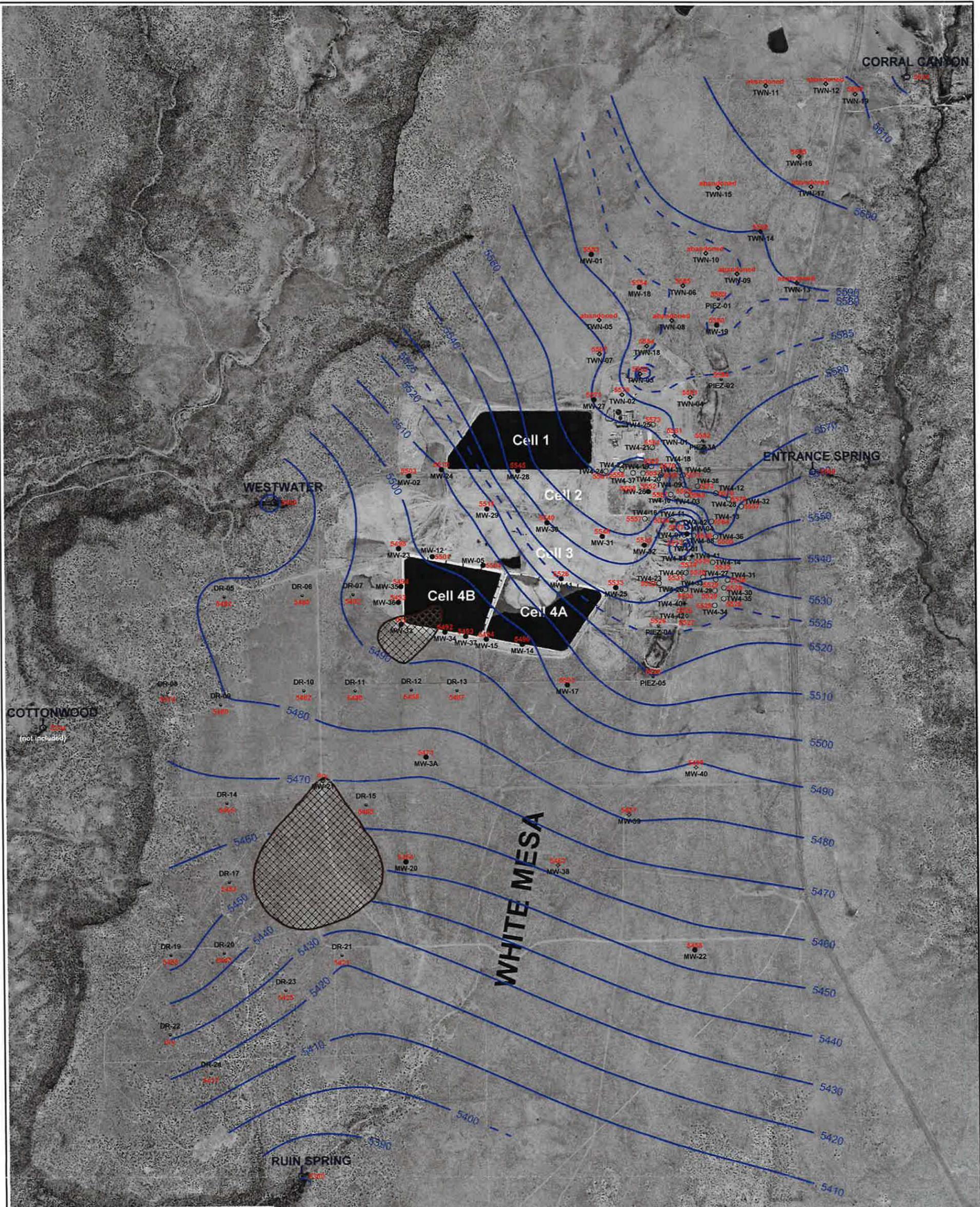
All Method Blanks for the quarter were non-detect.

Laboratory Control Sample

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

Tab H

Kriged Current Quarterly Groundwater Contour Map



EXPLANATION

-  estimated dry area
- TW4-42**
 5527
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
- TW4-40**
 5526
temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- MW-5**
 5504
perched monitoring well showing elevation in feet amsl
- TW4-12**
 5570
temporary perched monitoring well showing elevation in feet amsl
- TWN-7**
 5567
temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 5589
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, TW4-20, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-1, TW4-2 and TW4-11 water levels are below the base of the Burro Canyon Formation



**HYDRO
GEO
CHEM, INC.**

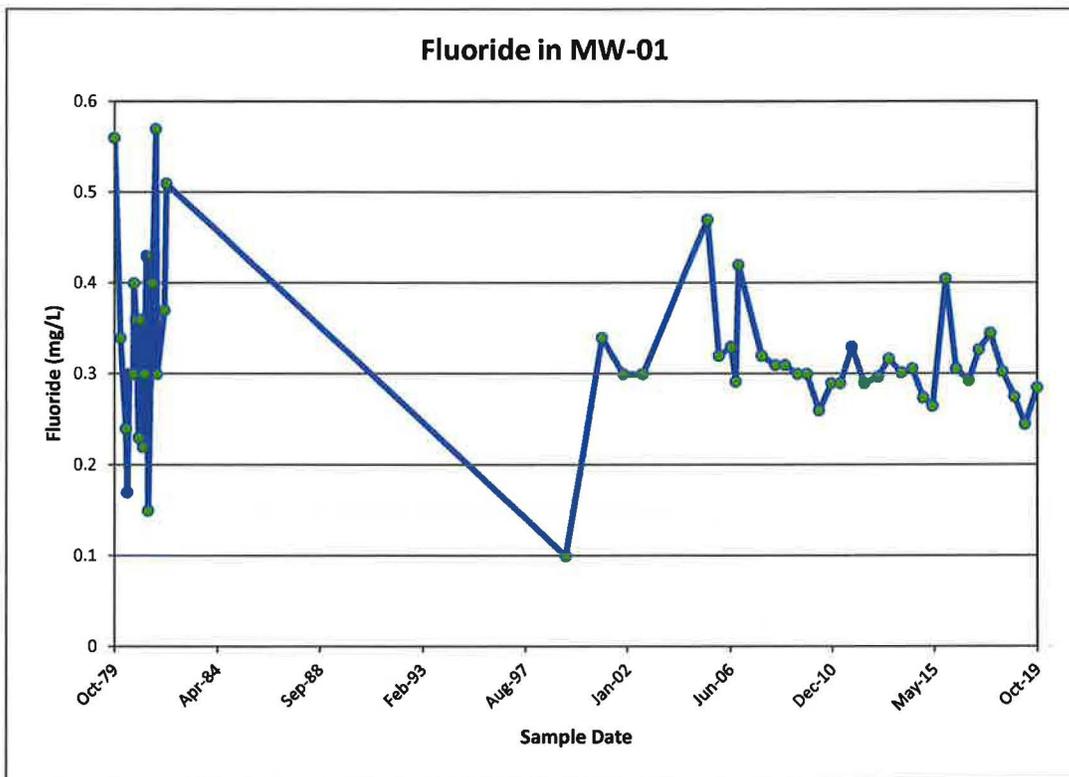
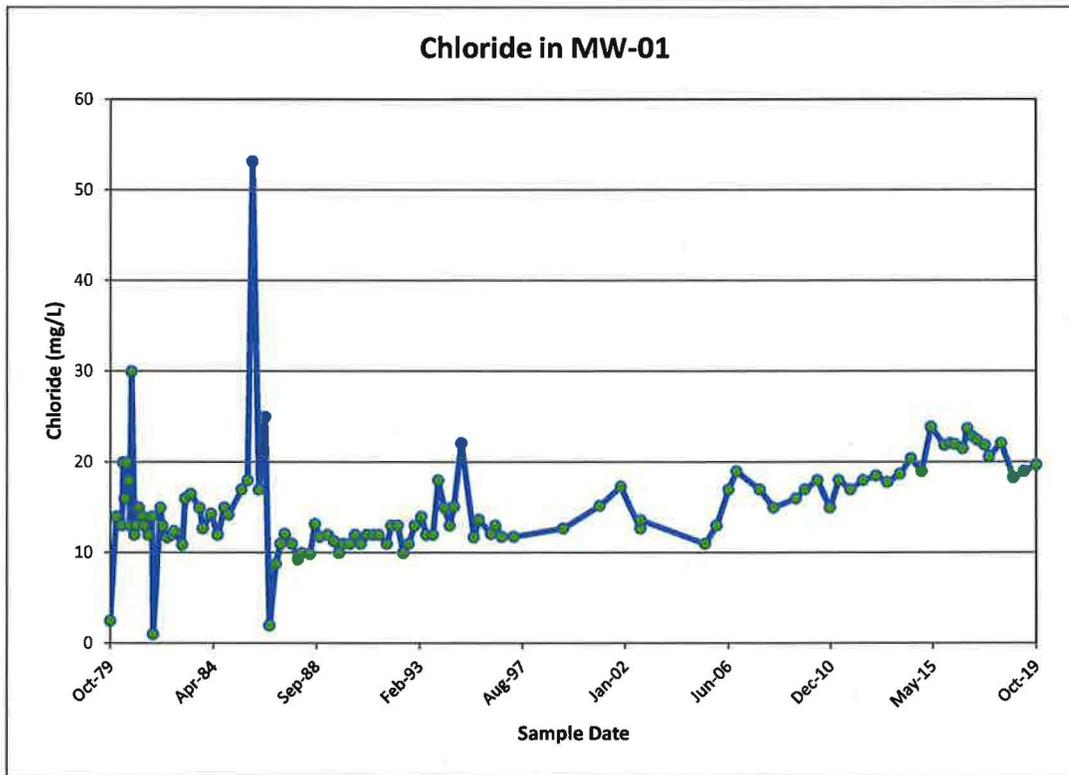
**KRIGED 1st QUARTER, 2020 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
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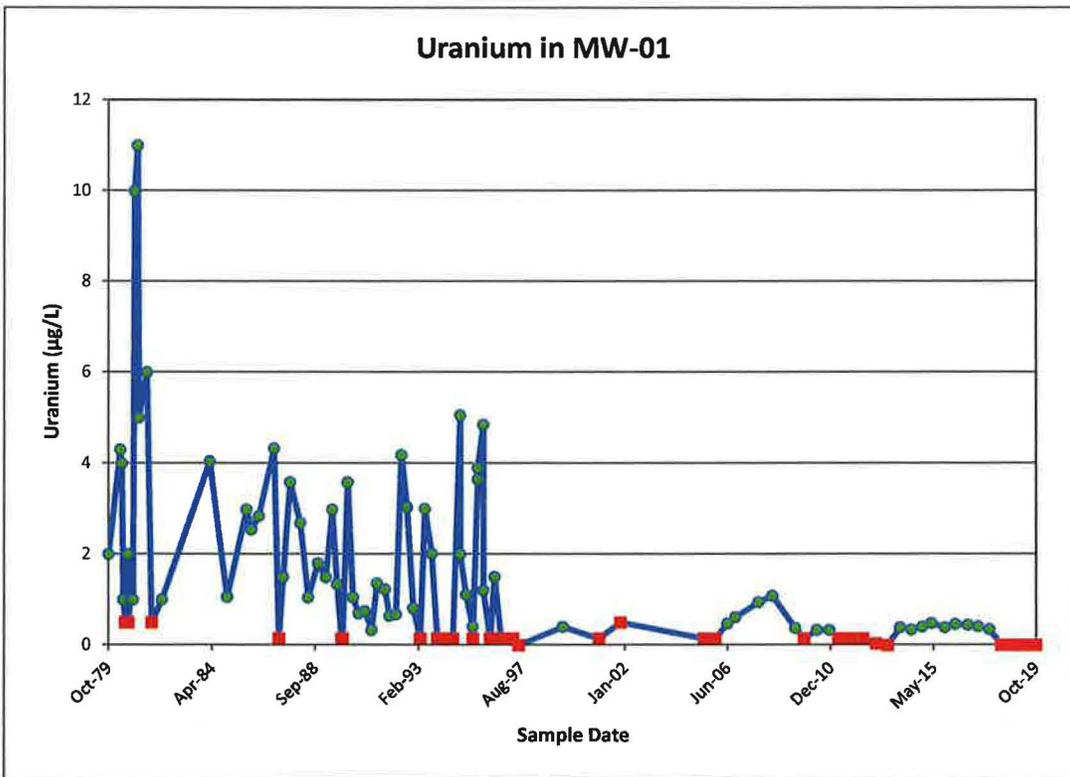
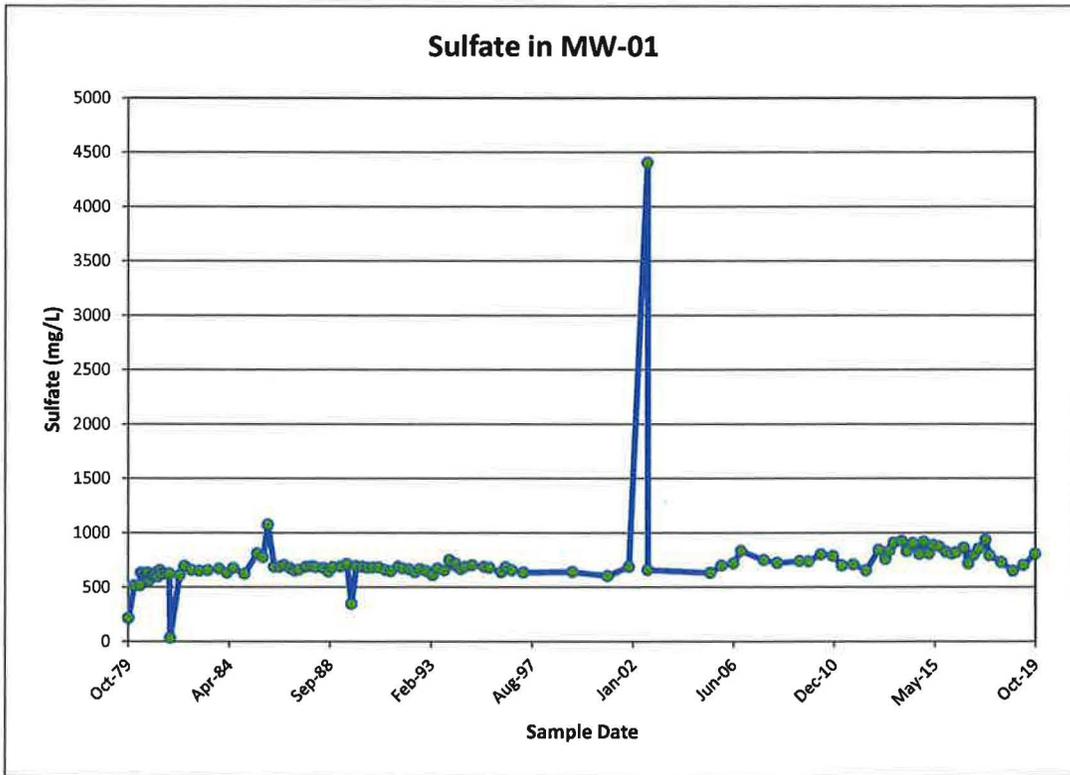
Tab I

Groundwater Time Concentration Plots

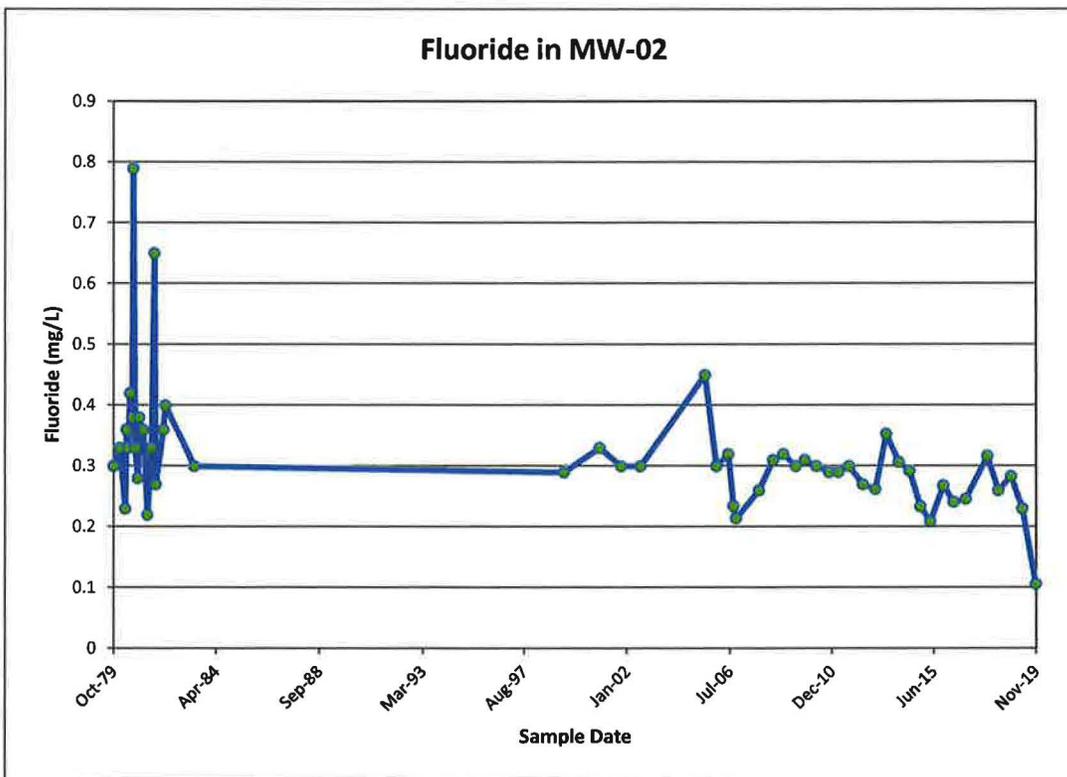
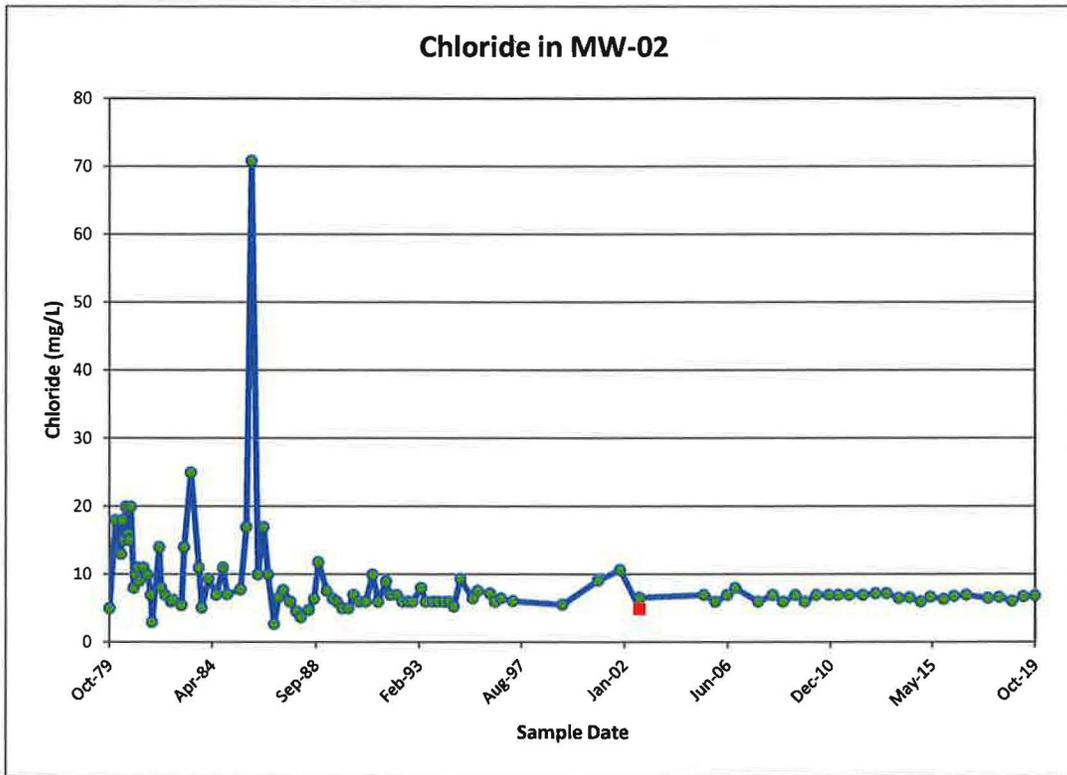
Time concentration plots for MW-01



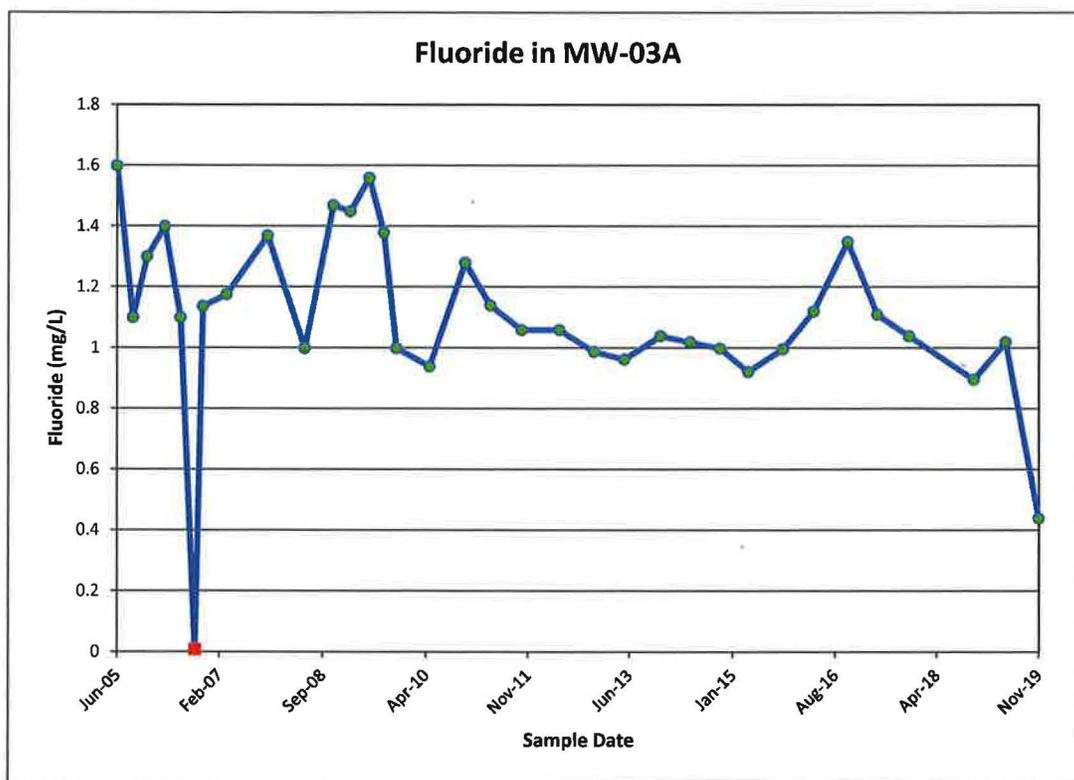
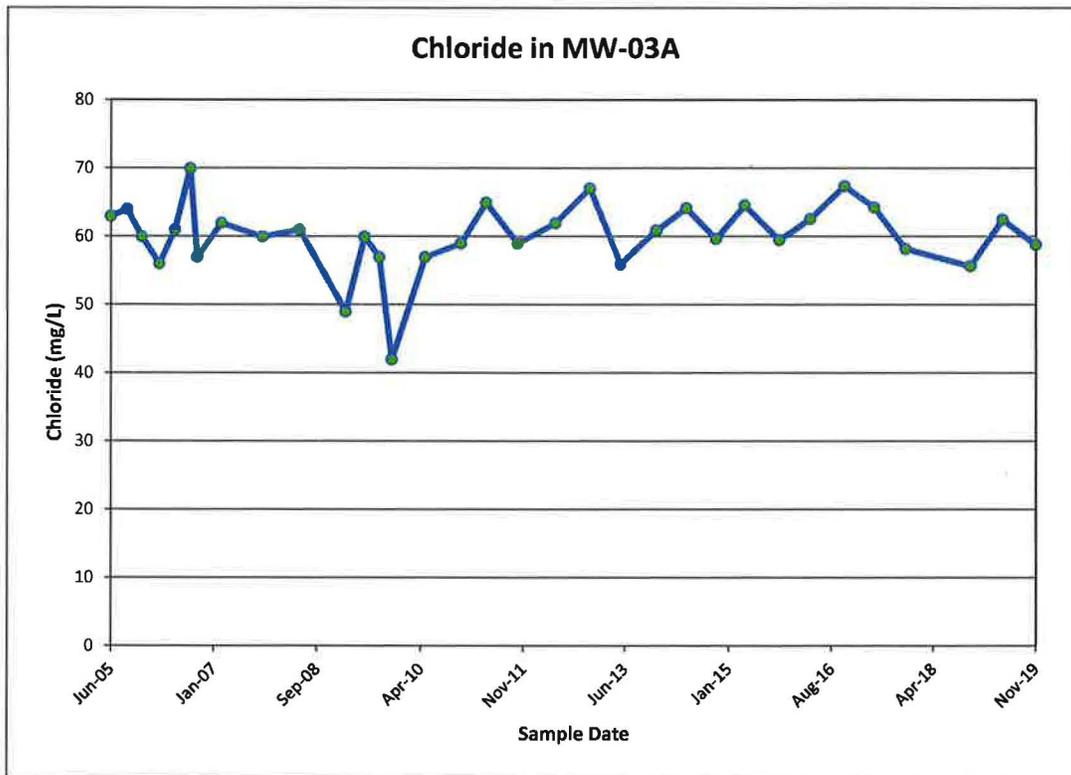
Time concentration plots for MW-01



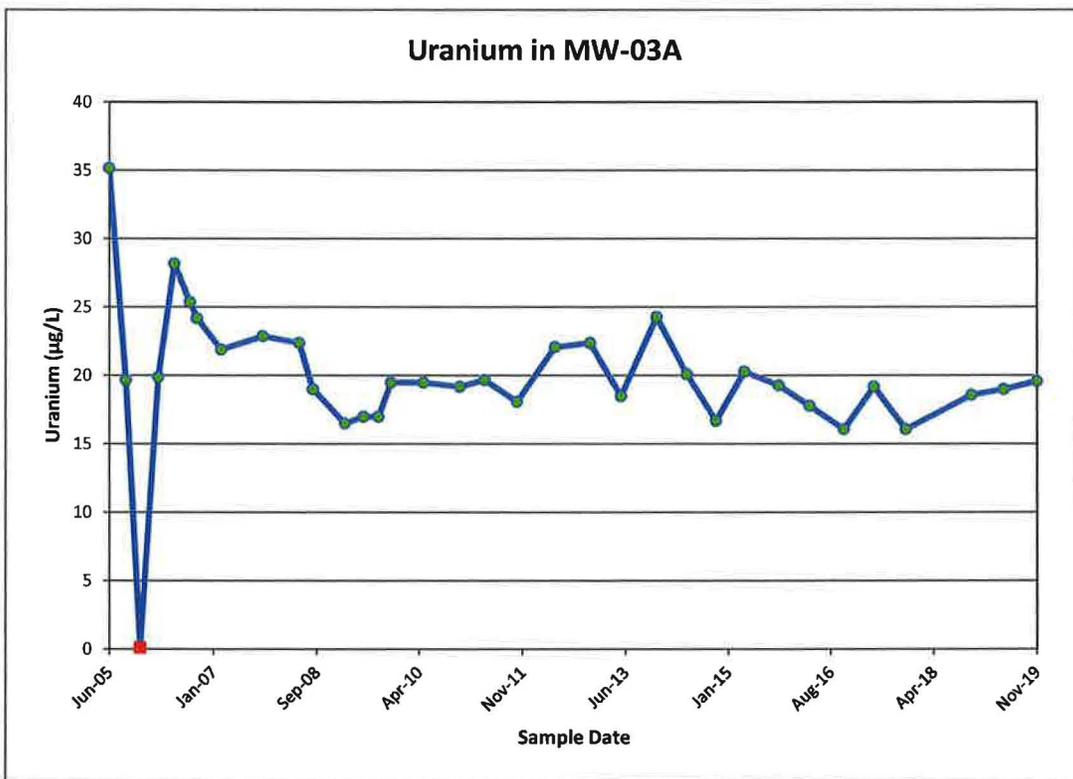
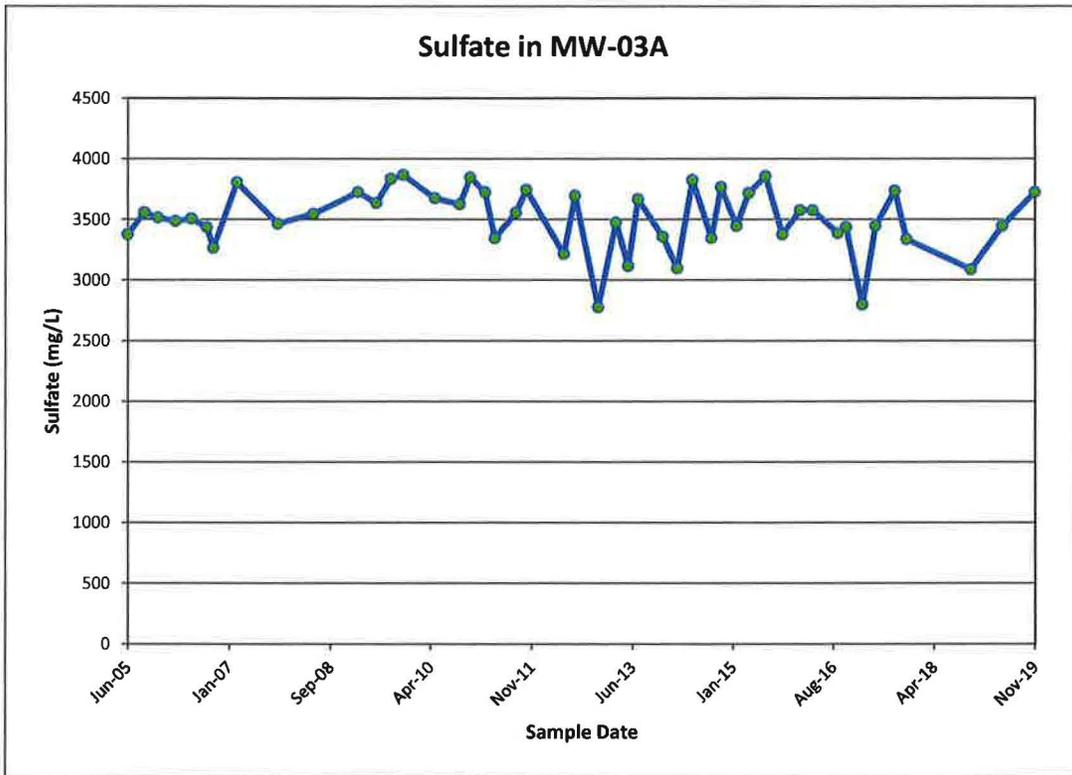
Time concentration plots for MW-02



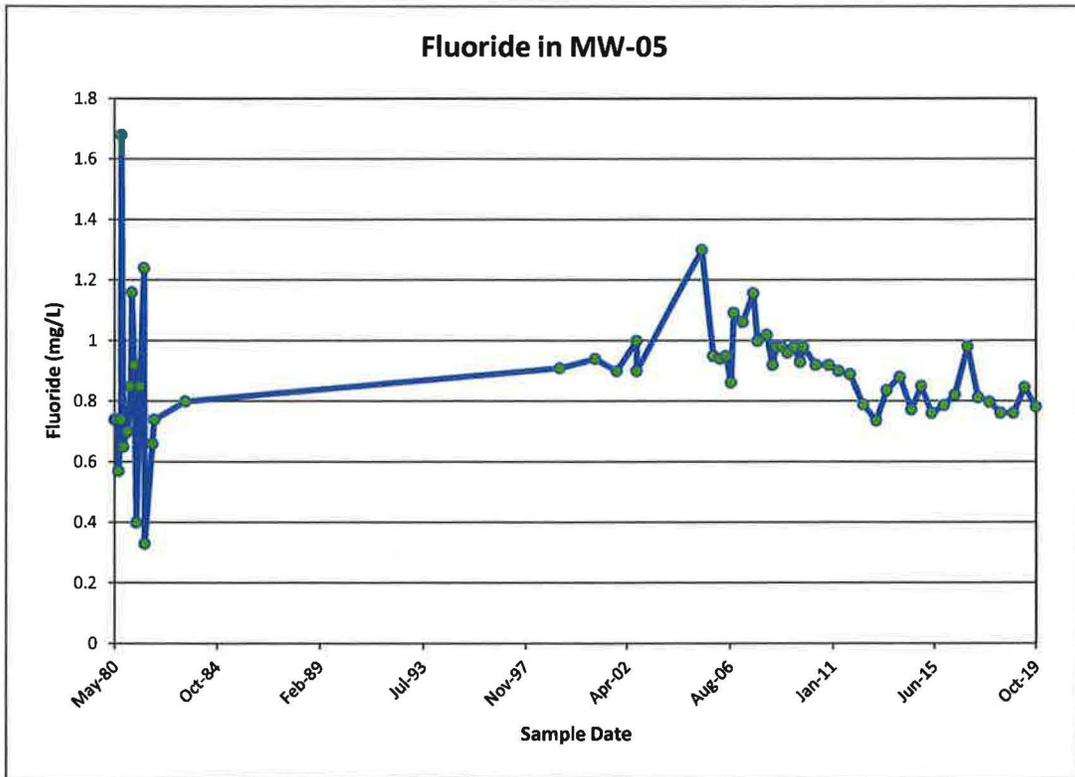
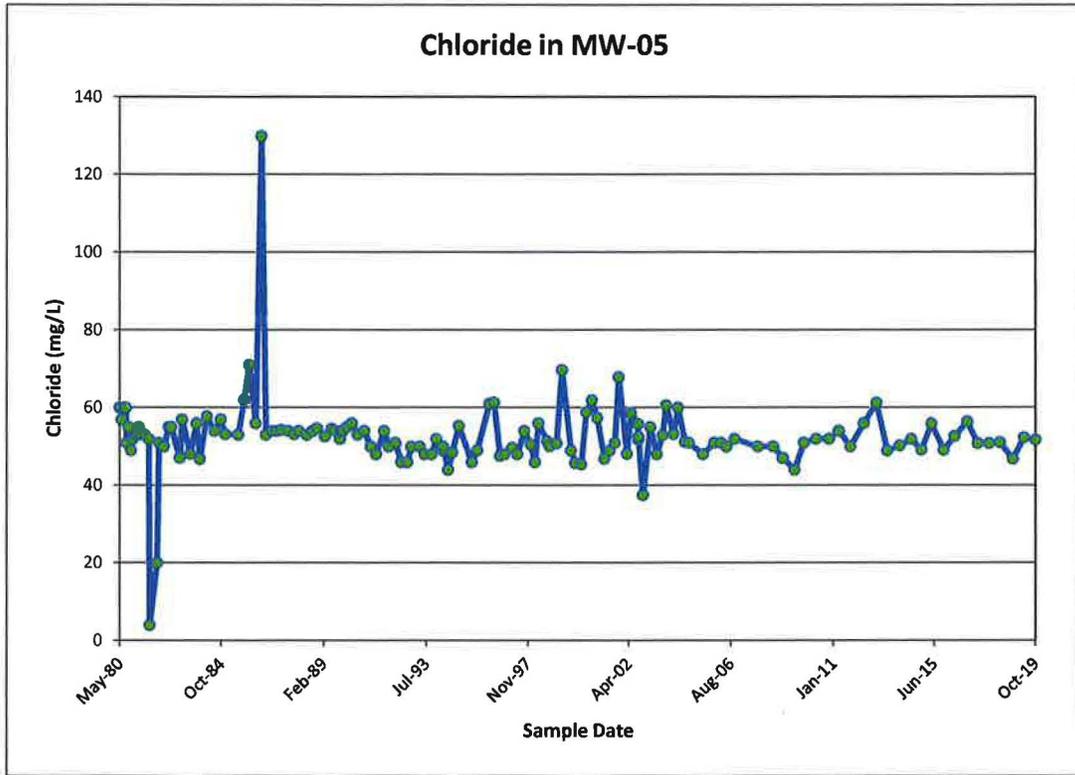
Time concentration plots for MW-03A



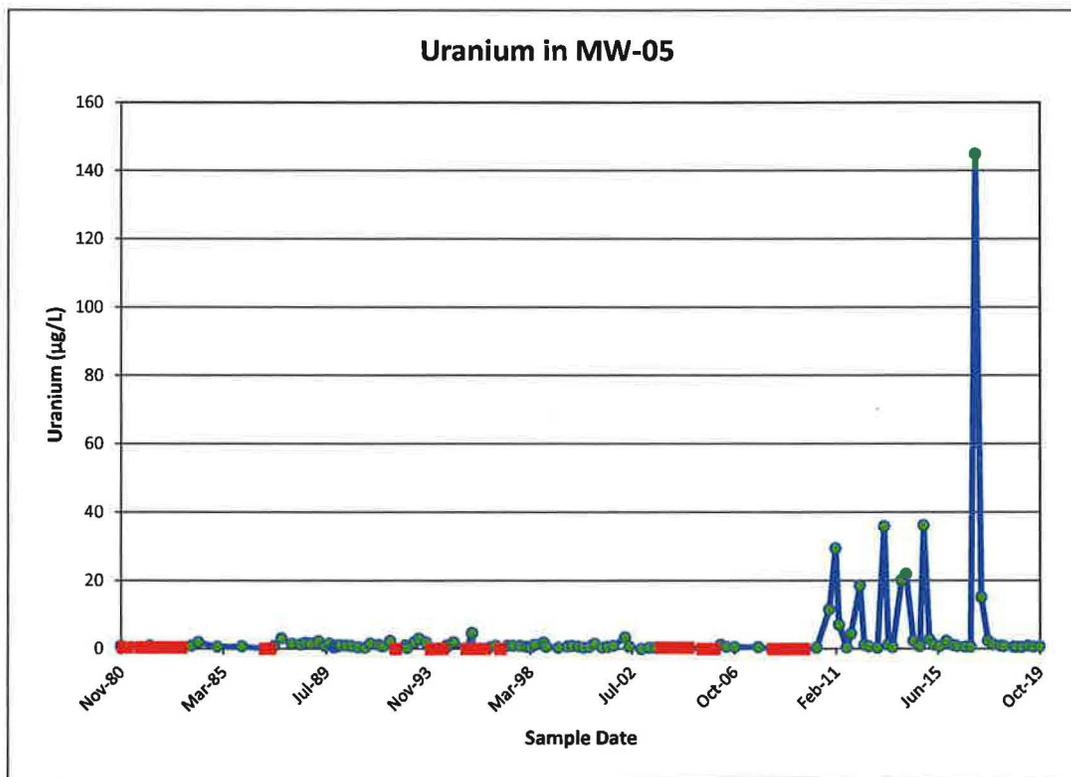
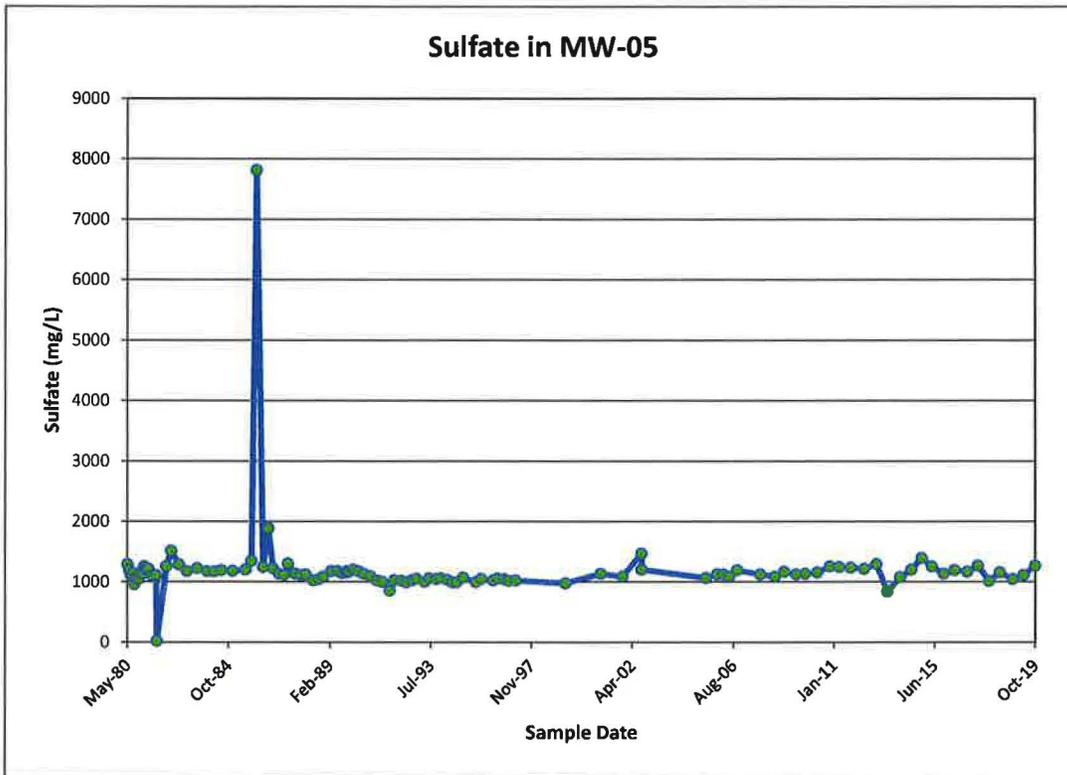
Time concentration plots for MW-03A



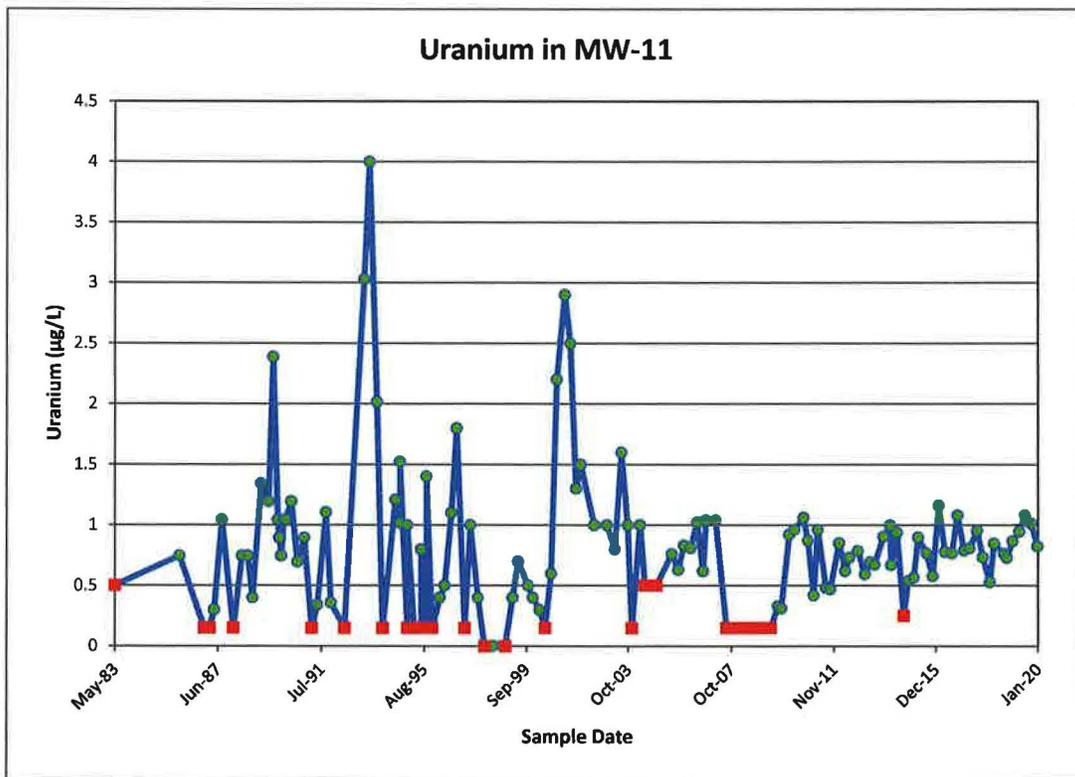
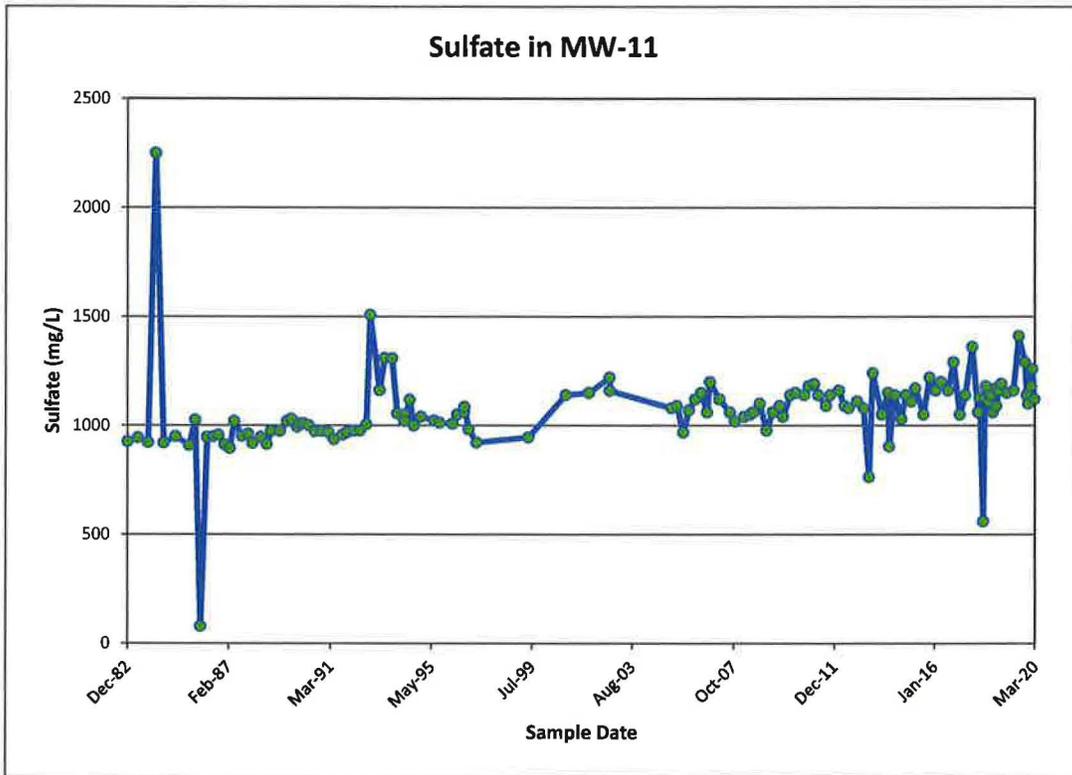
Time concentration plots for MW-05



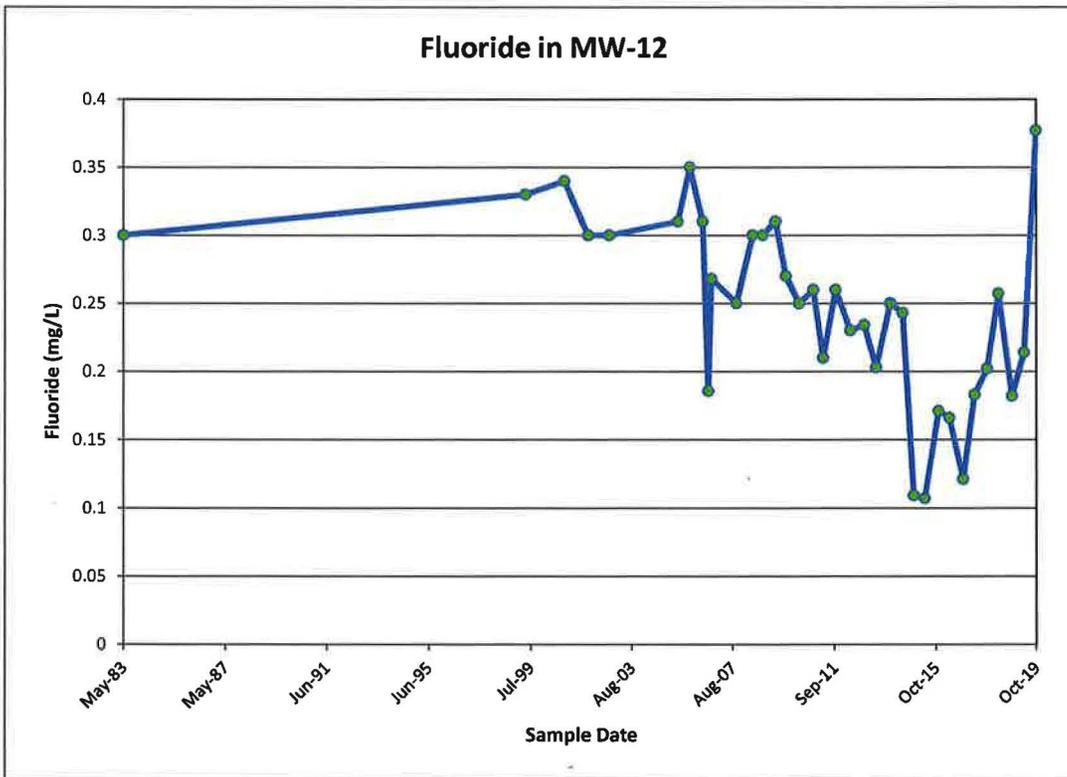
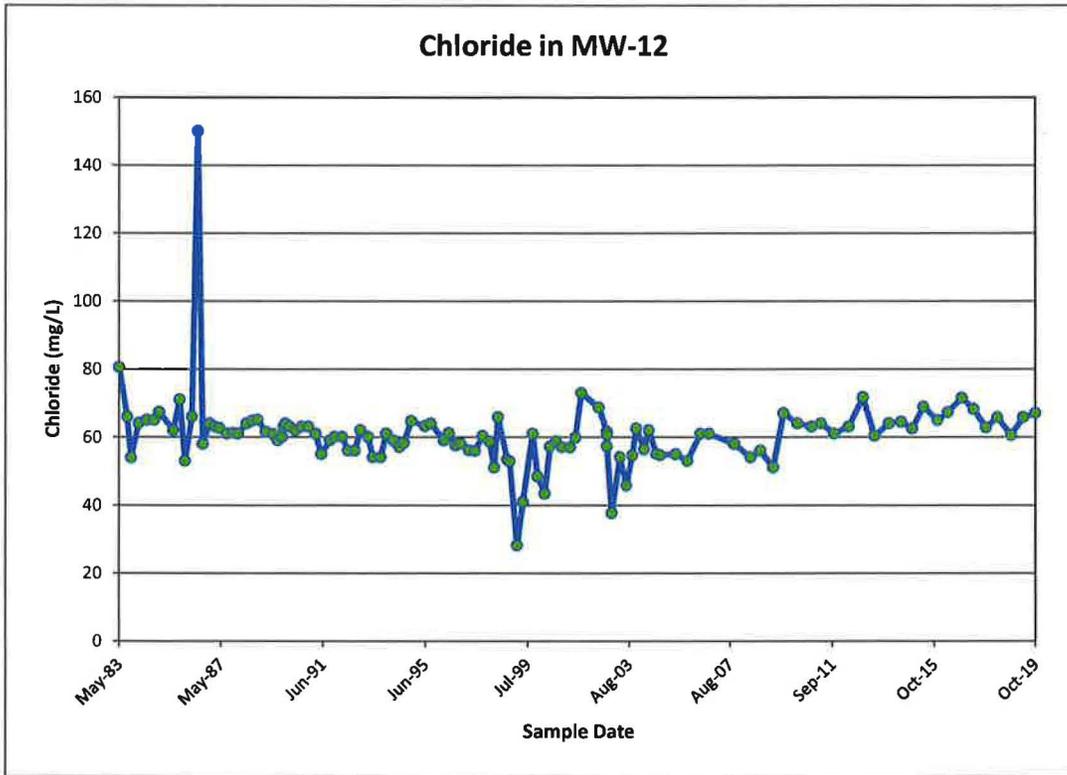
Time concentration plots for MW-05



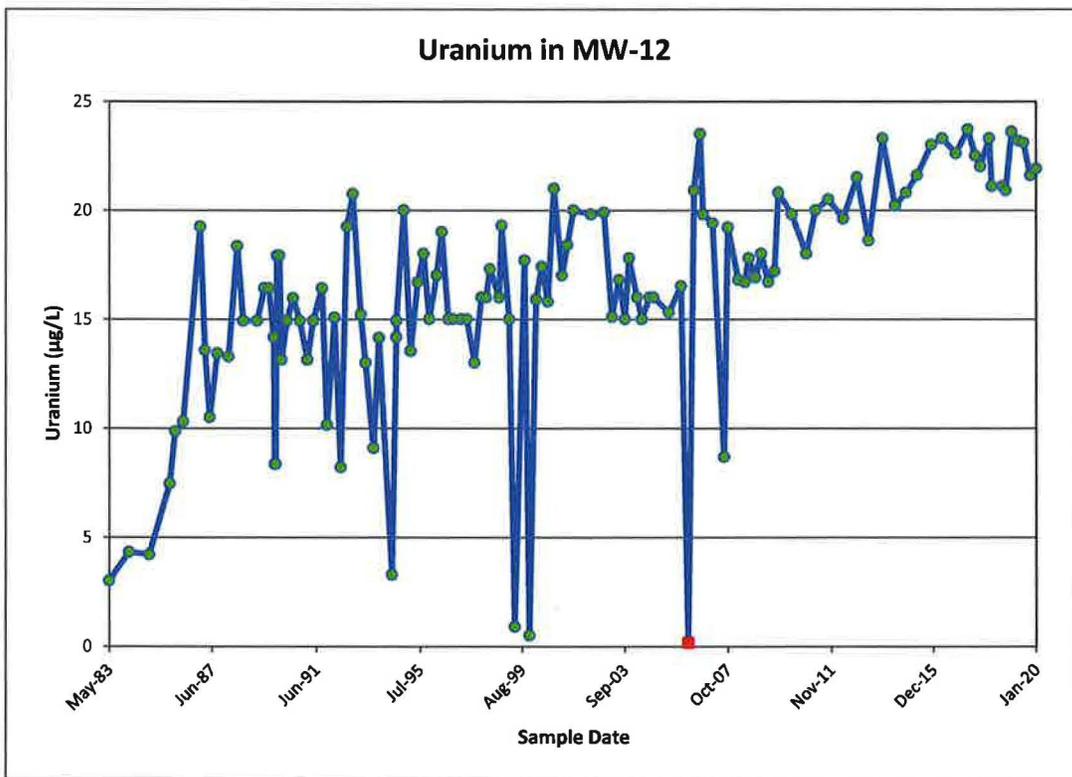
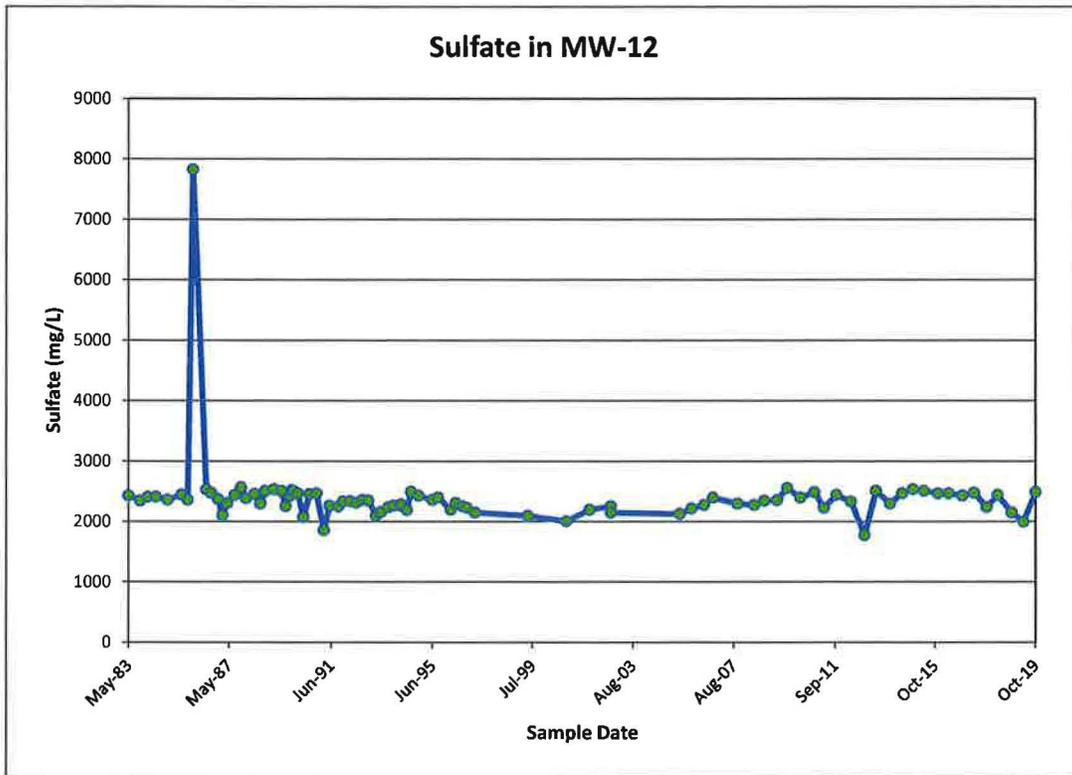
Time concentration plots for MW-11



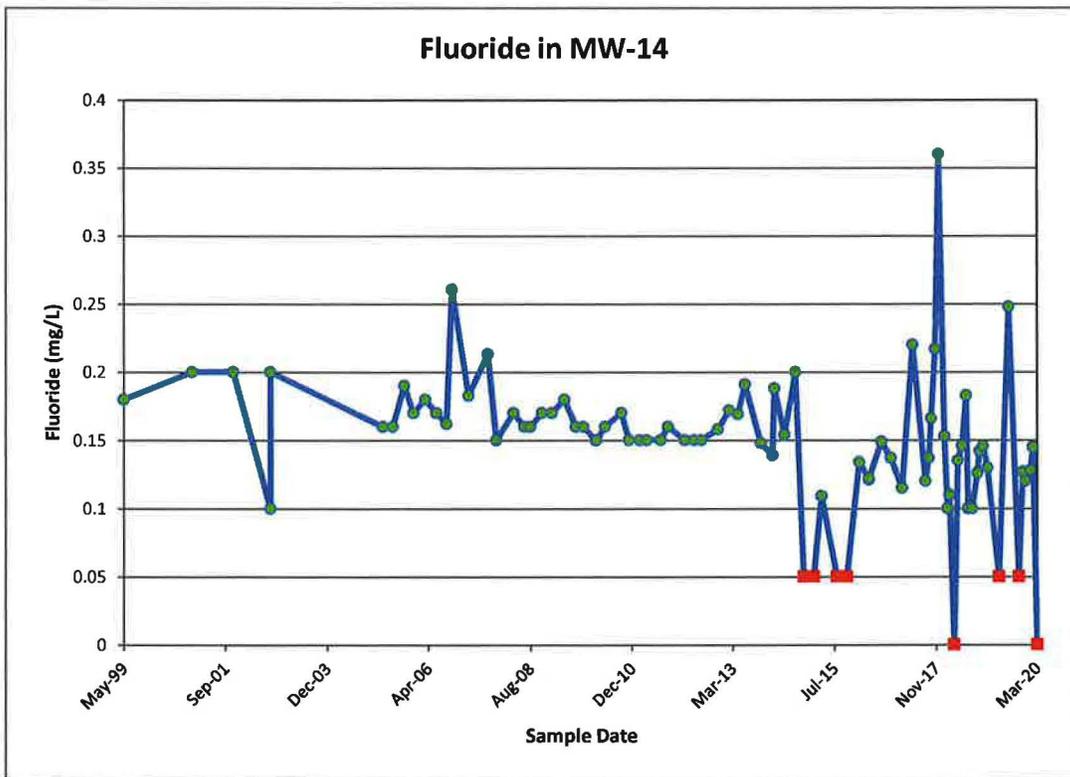
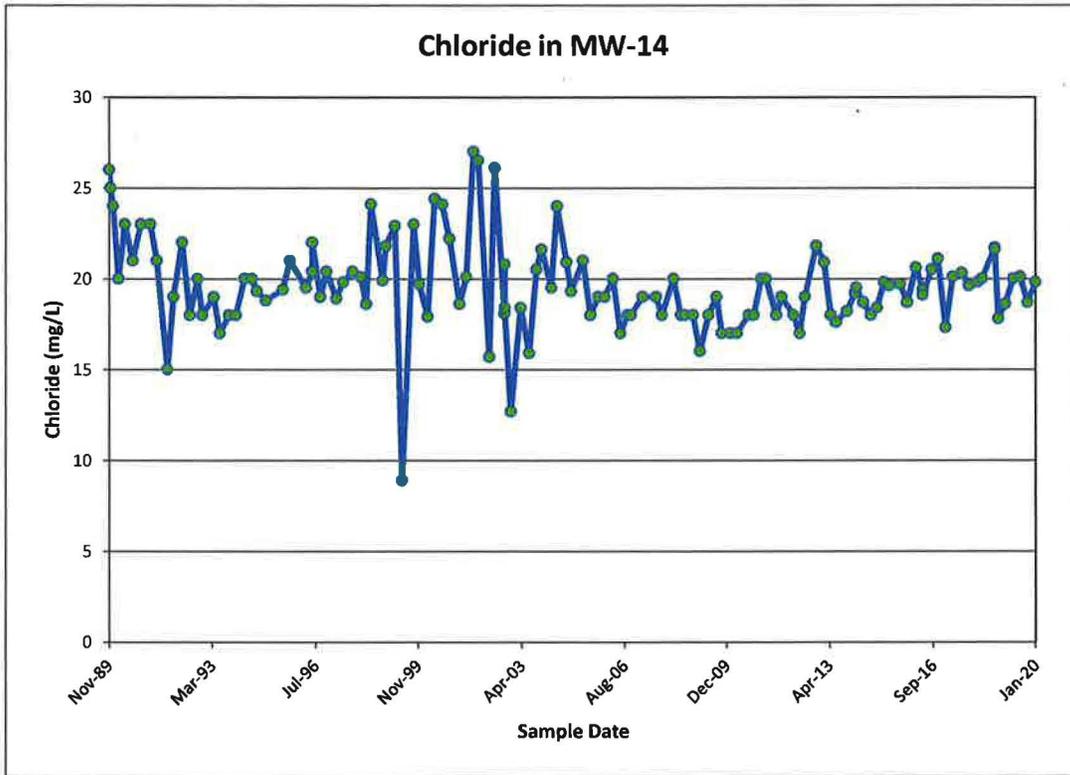
Time concentration plots for MW-12



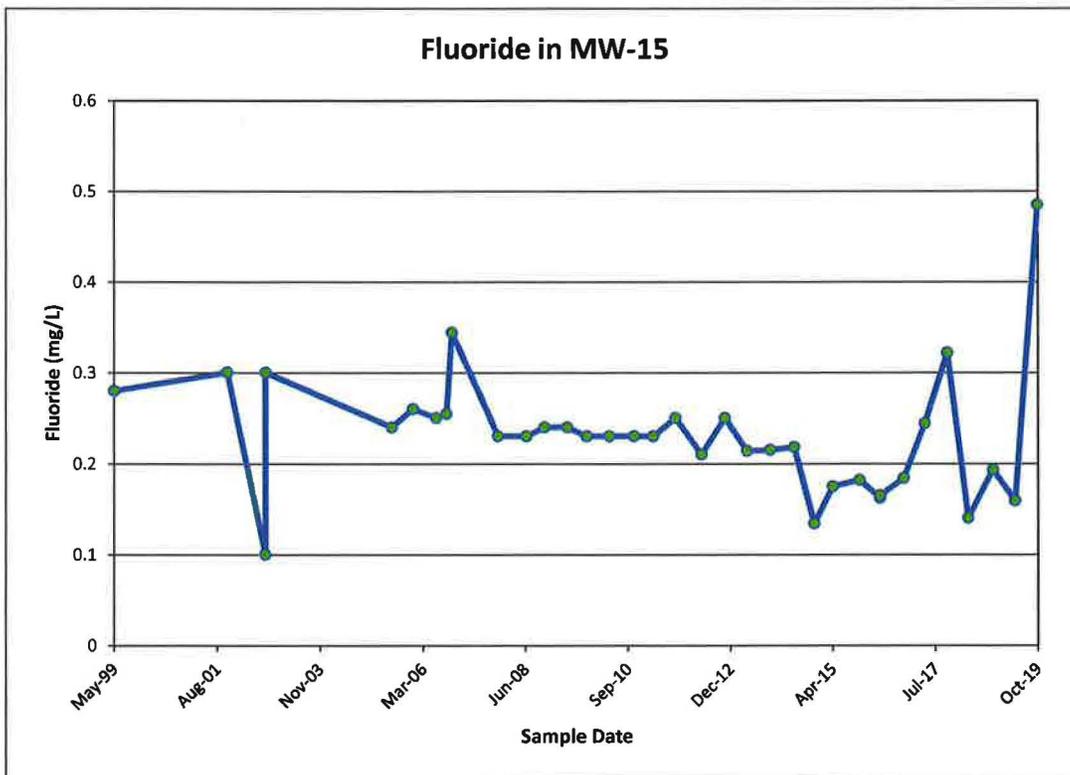
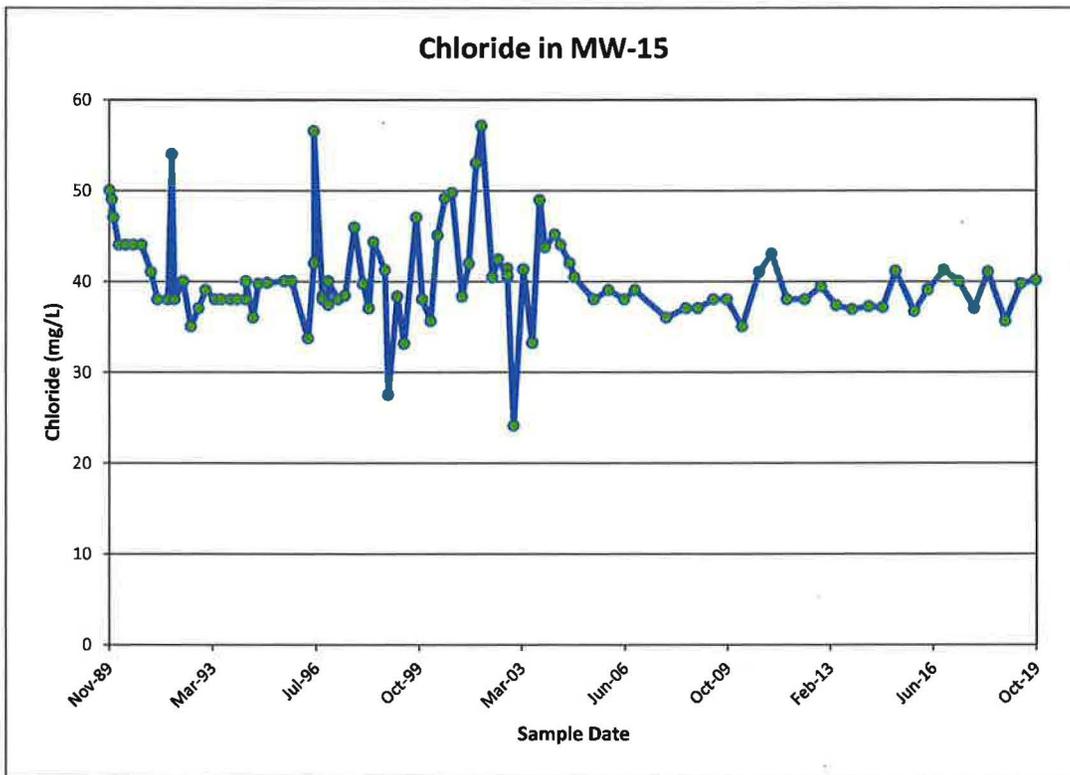
Time concentration plots for MW-12



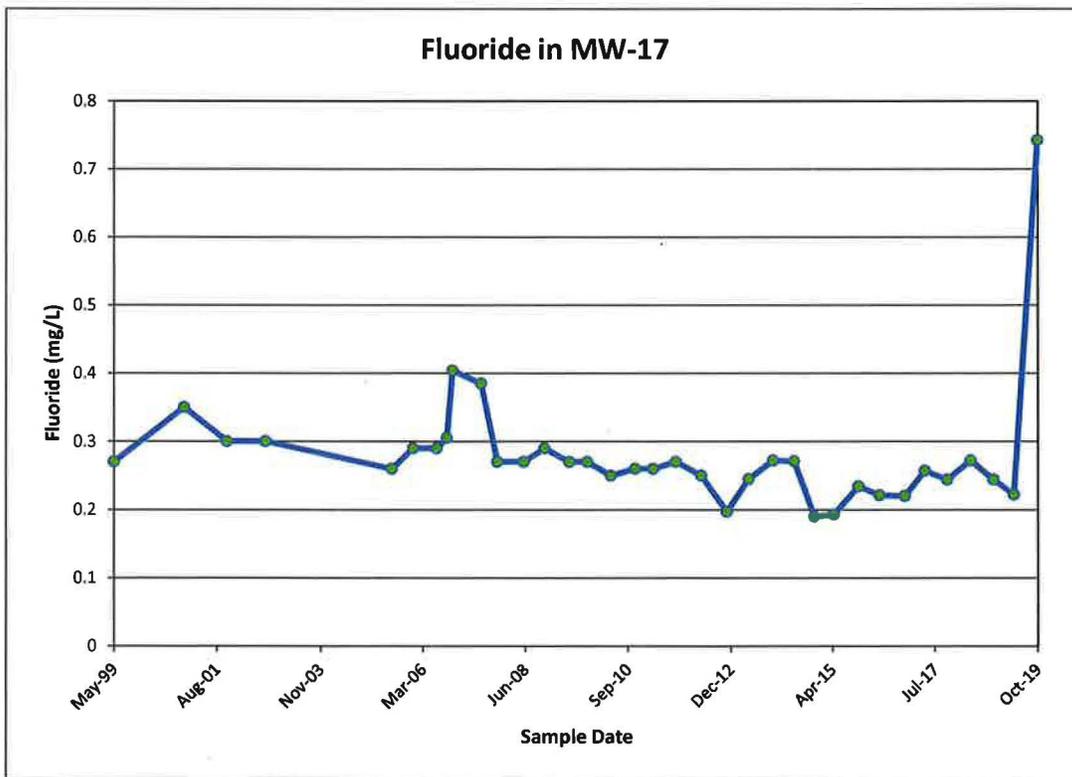
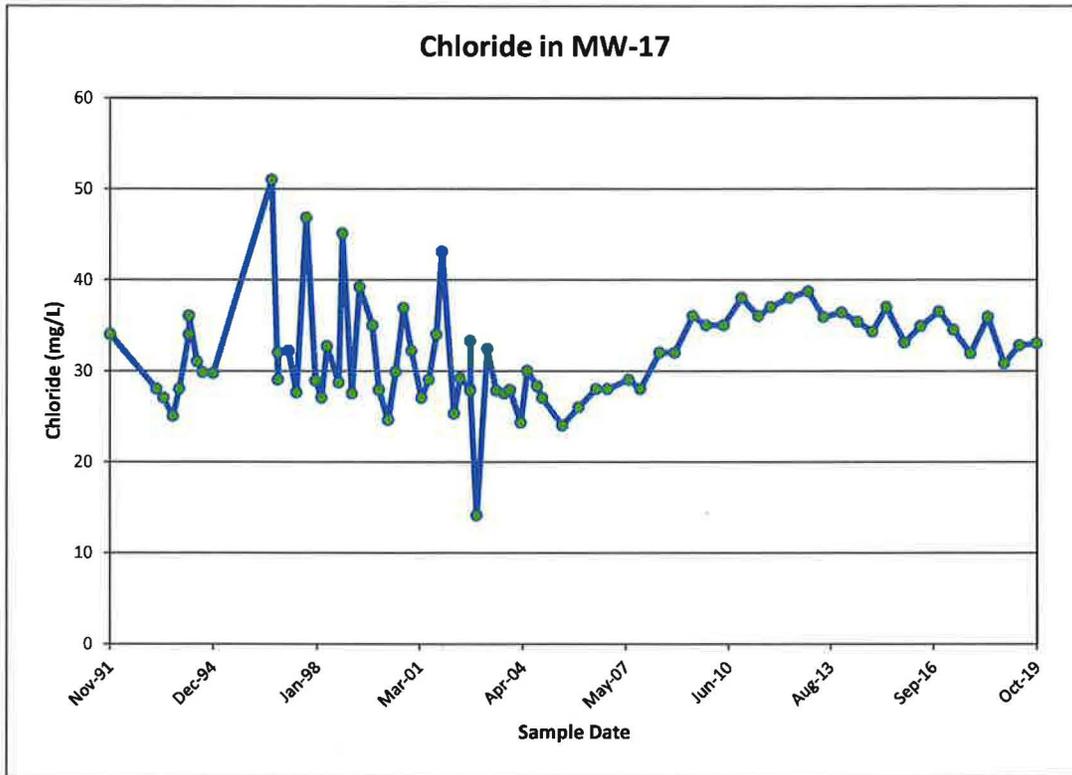
Time concentration plots for MW-14



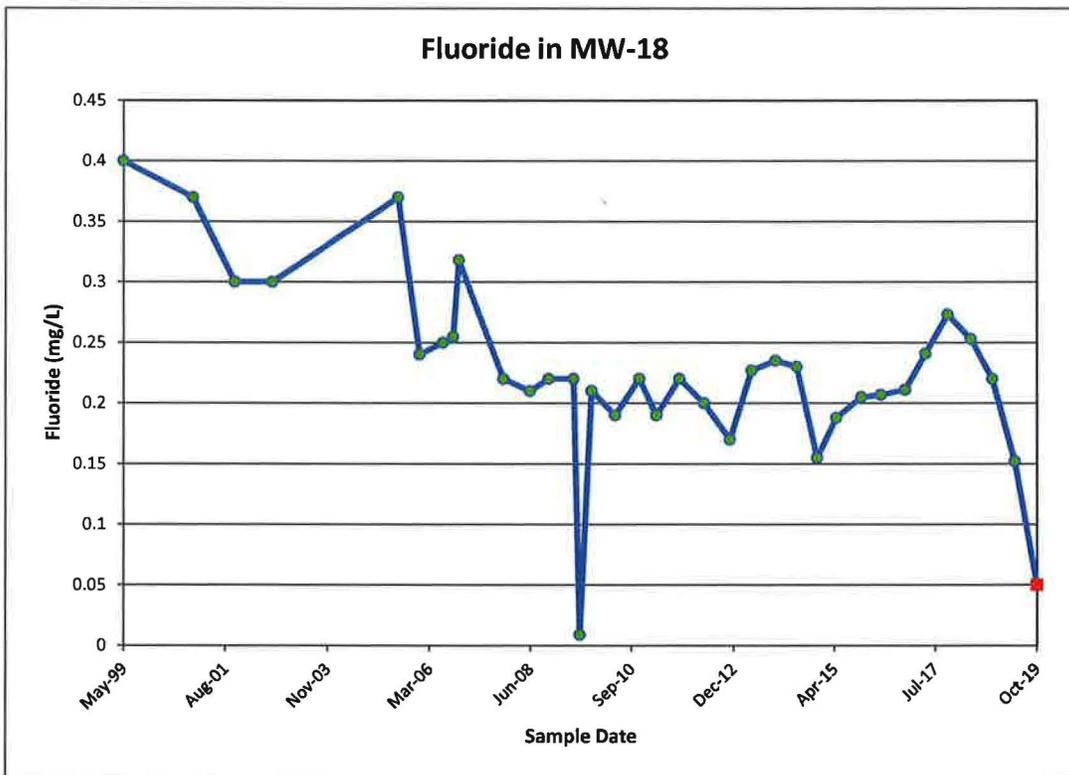
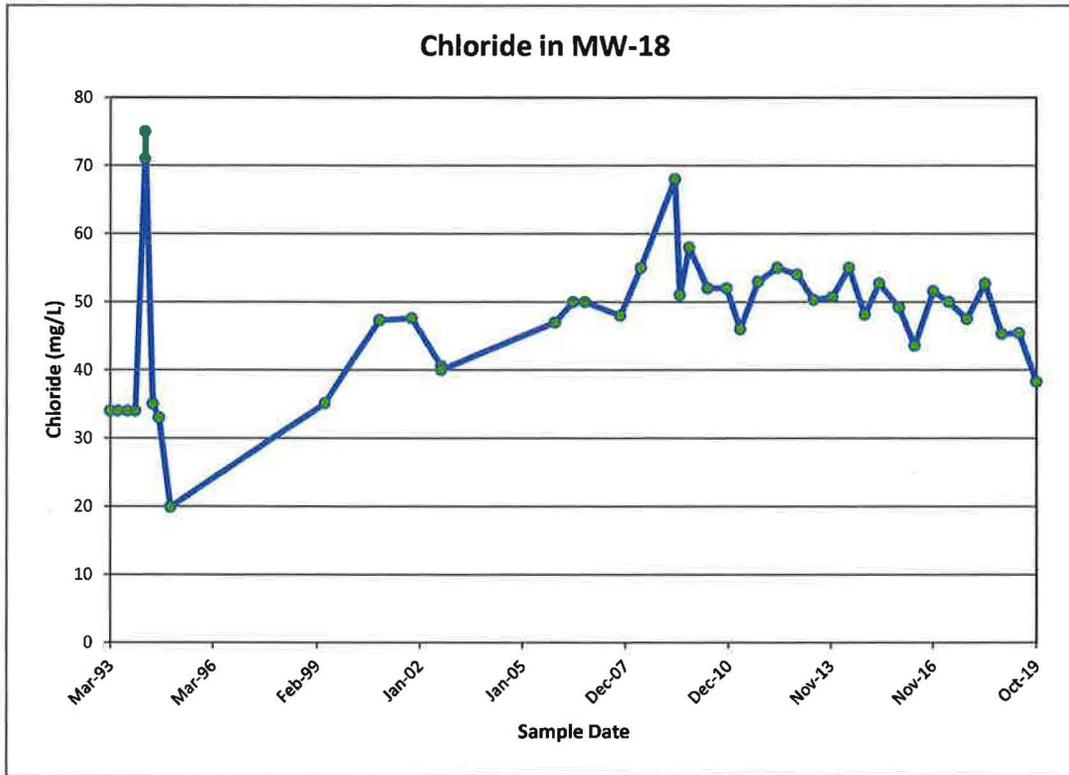
Time concentration plots for MW-15



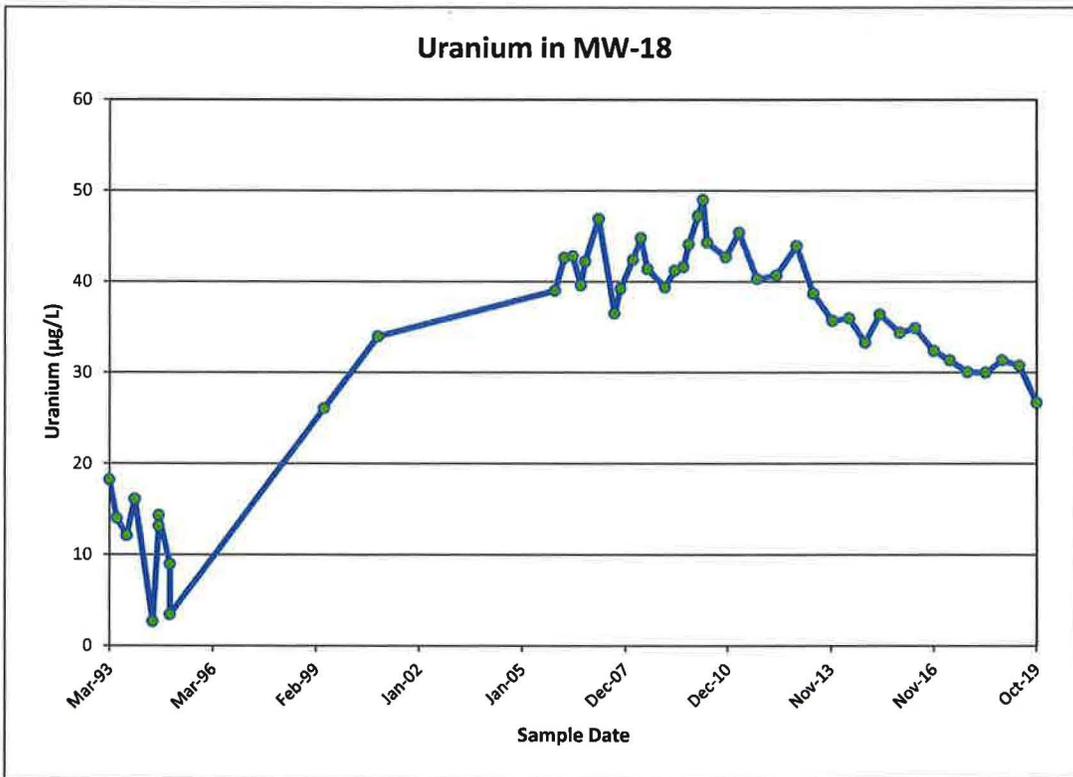
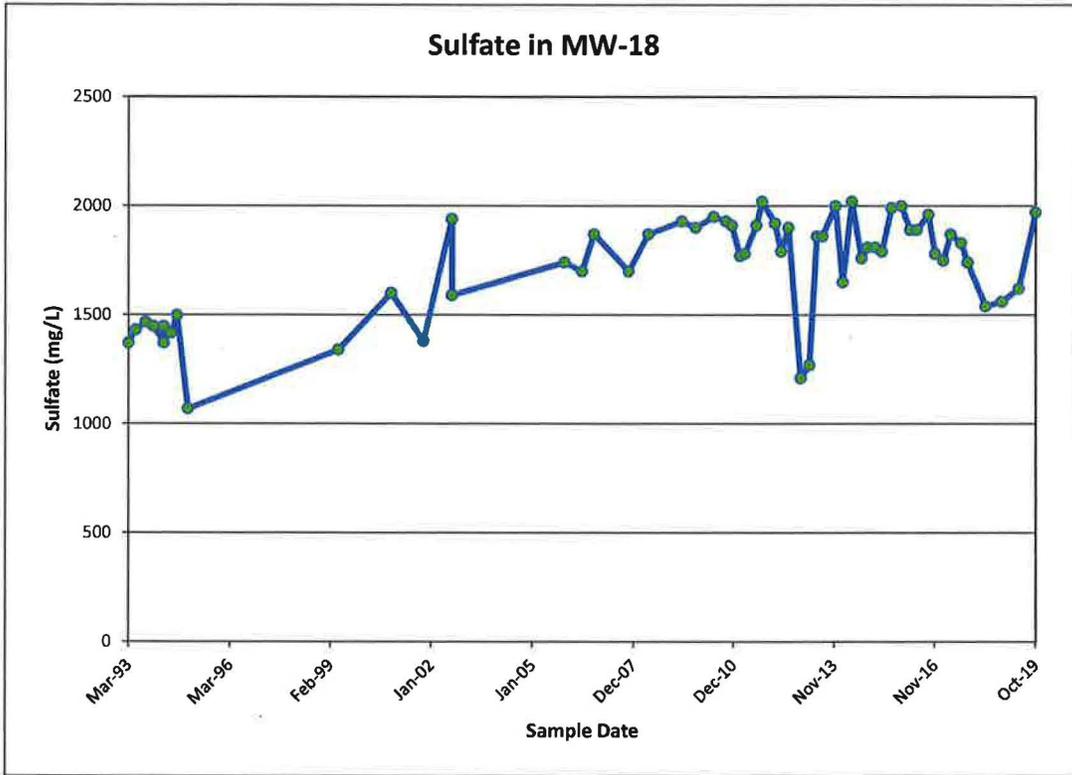
Time concentration plots for MW-17



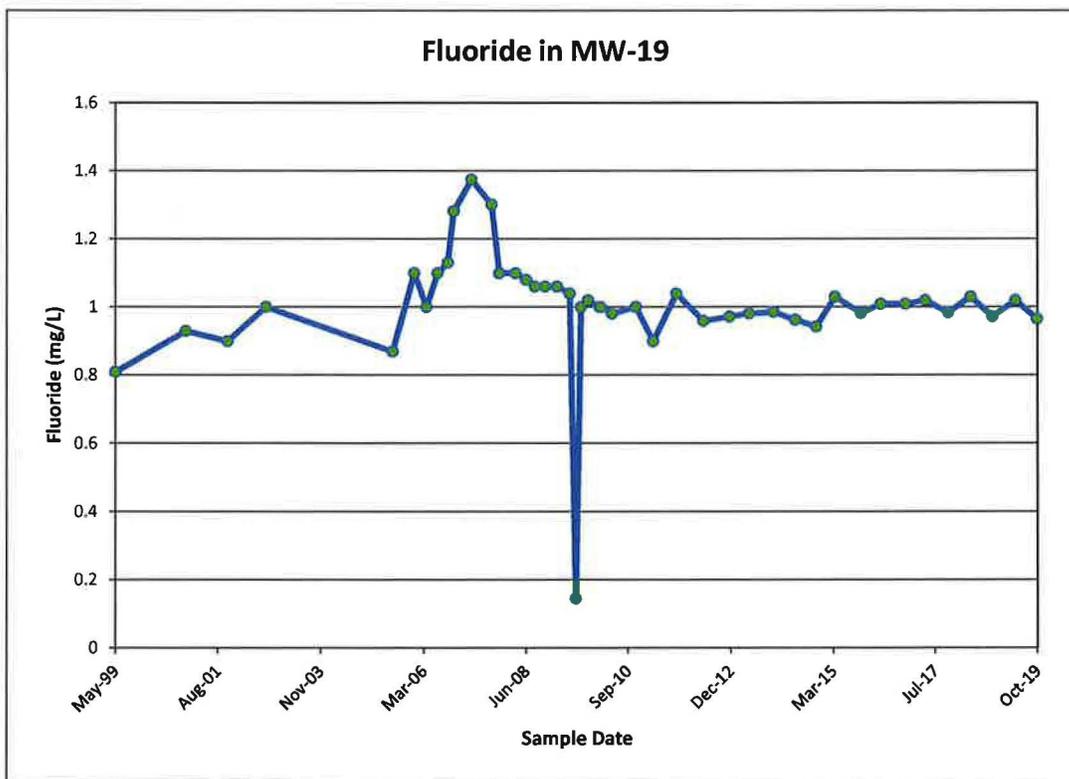
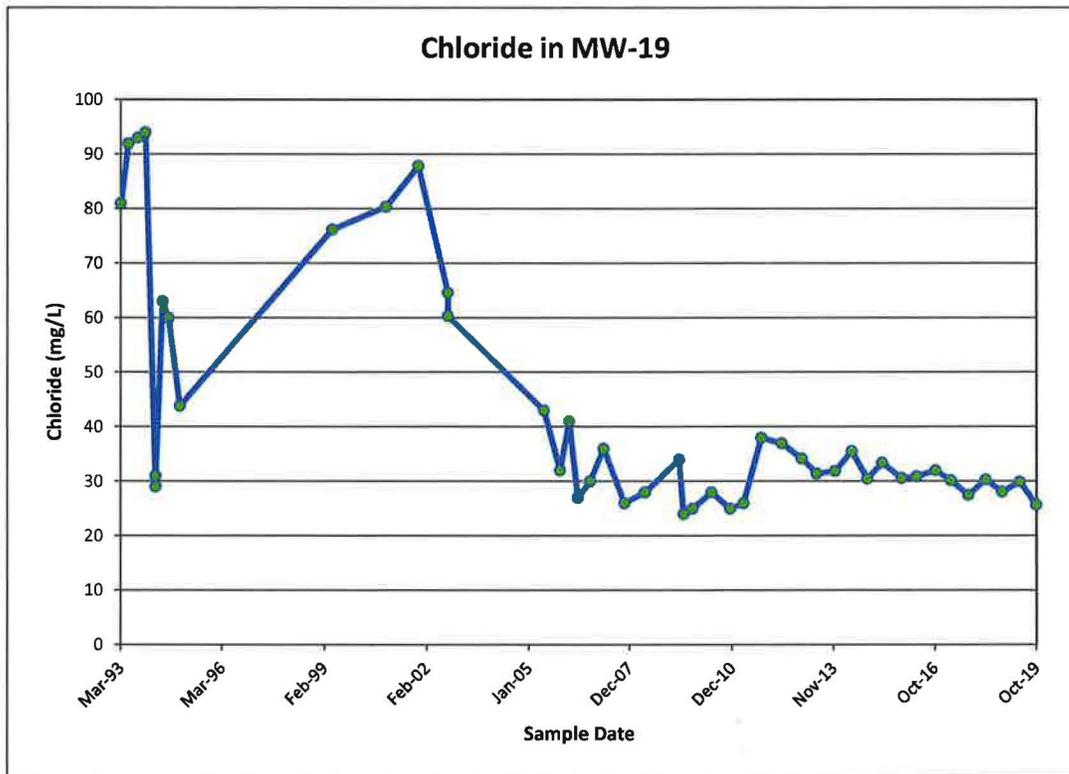
Time concentration plots for MW-18



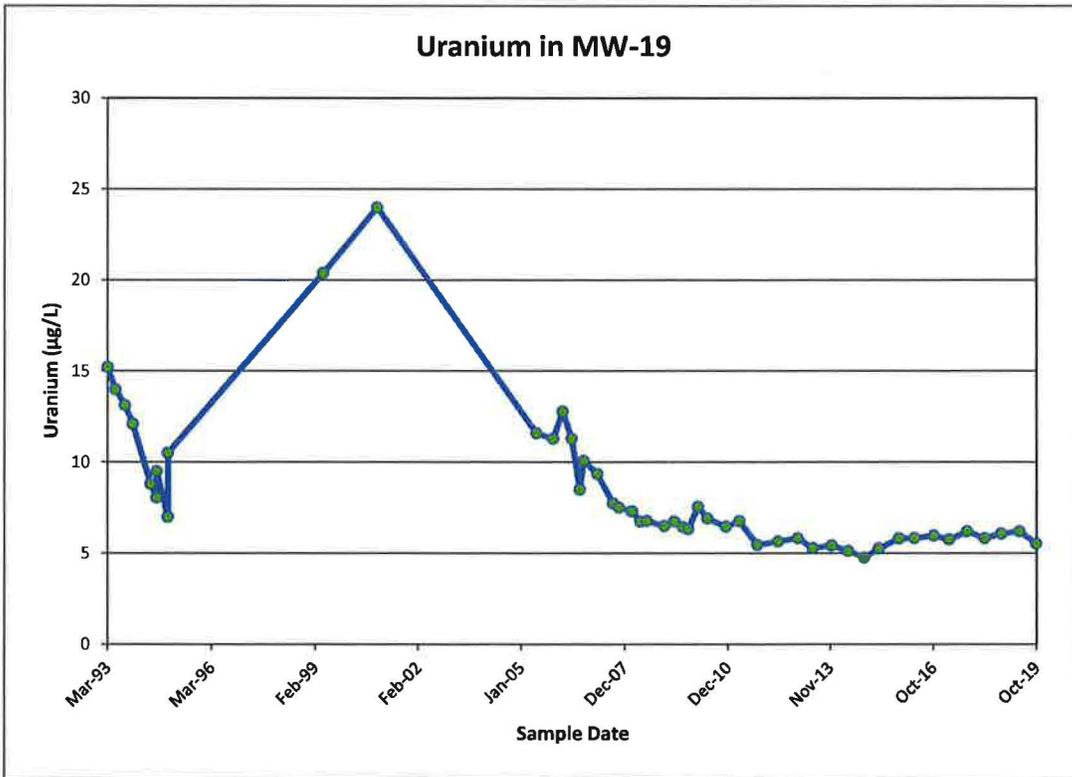
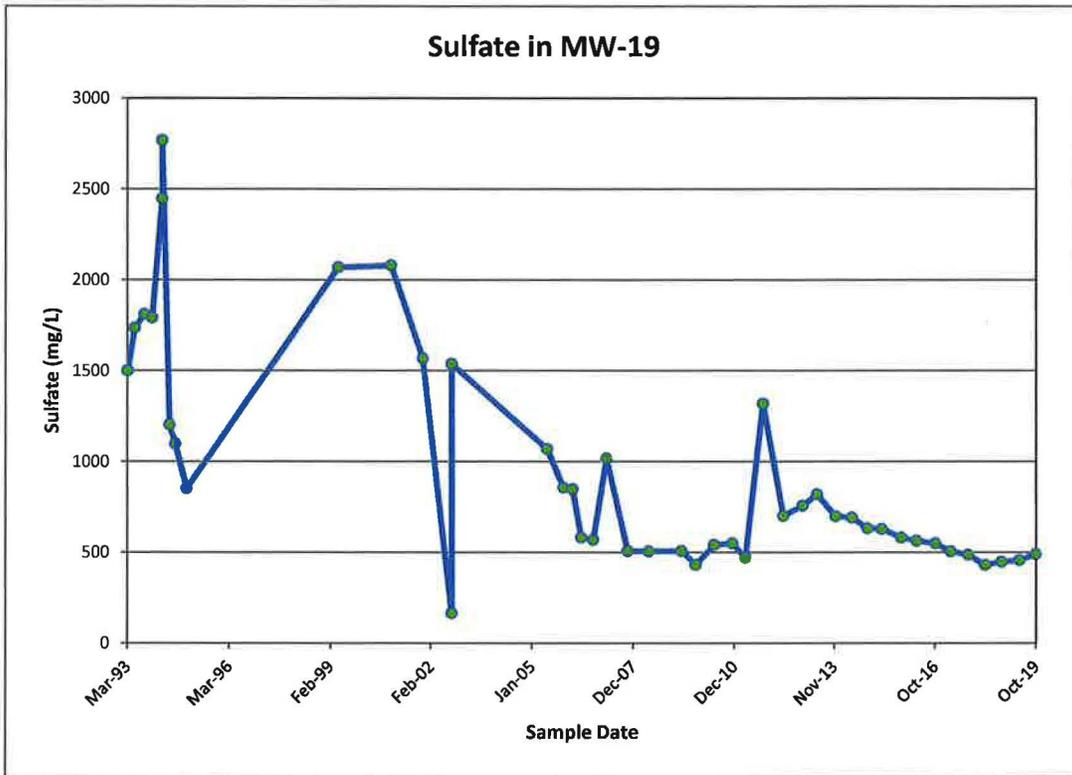
Time concentration plots for MW-18



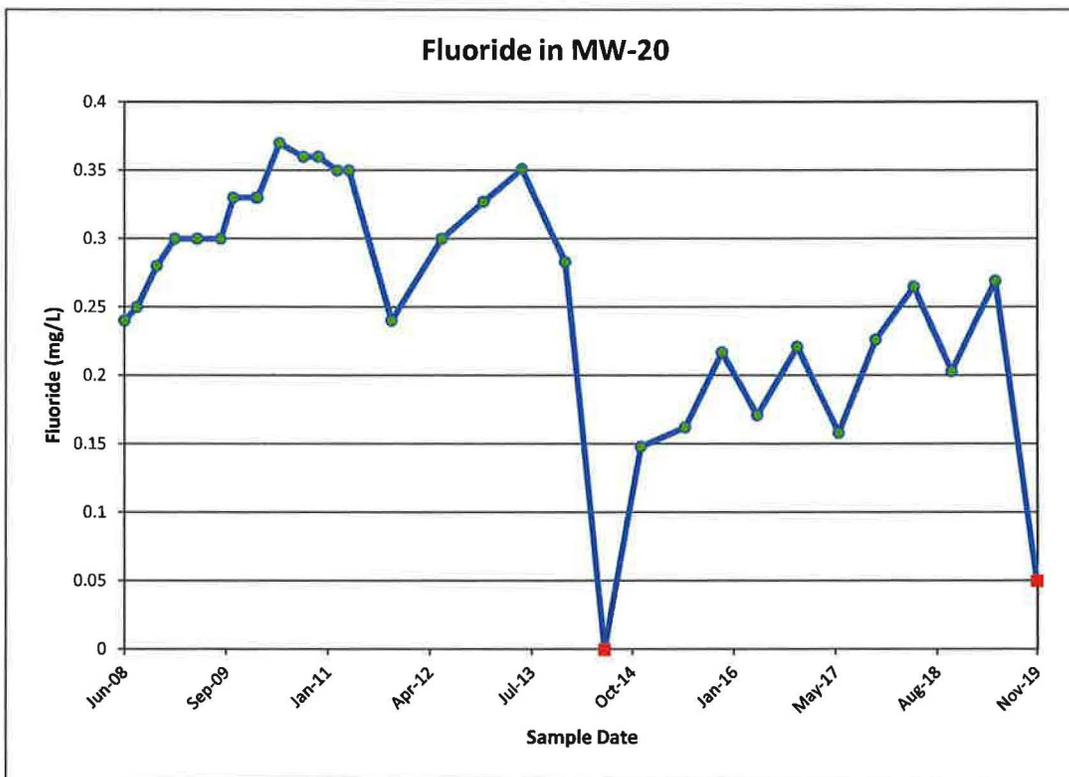
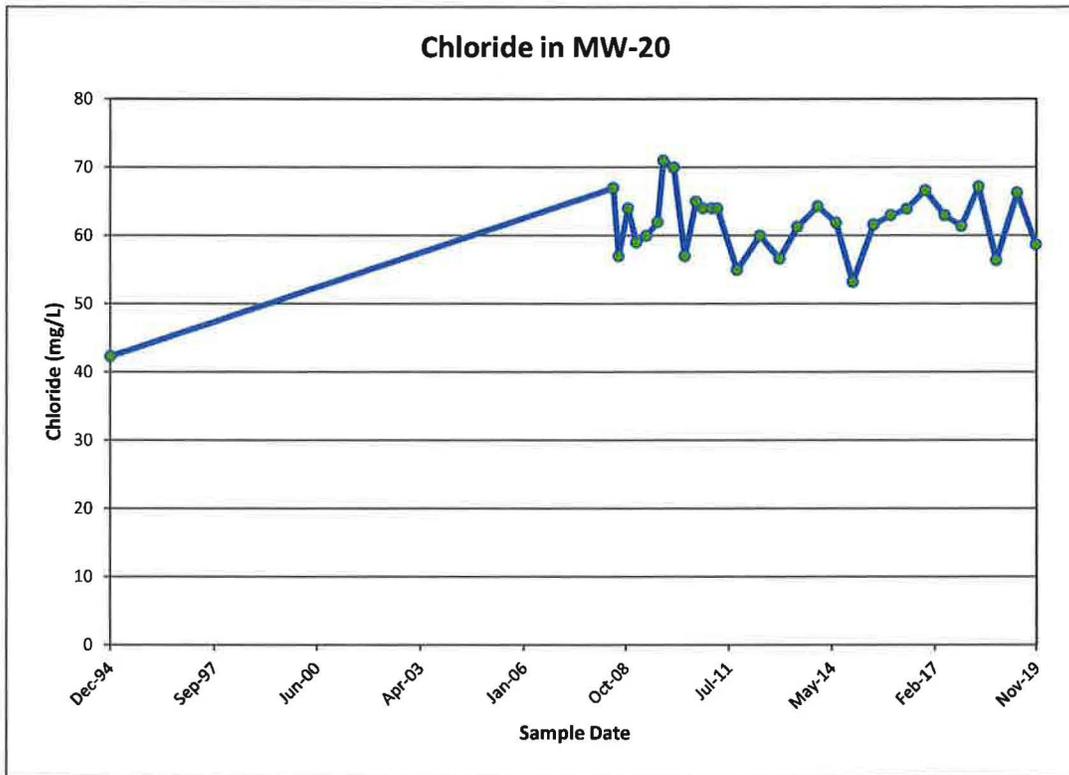
Time concentration plots for MW-19



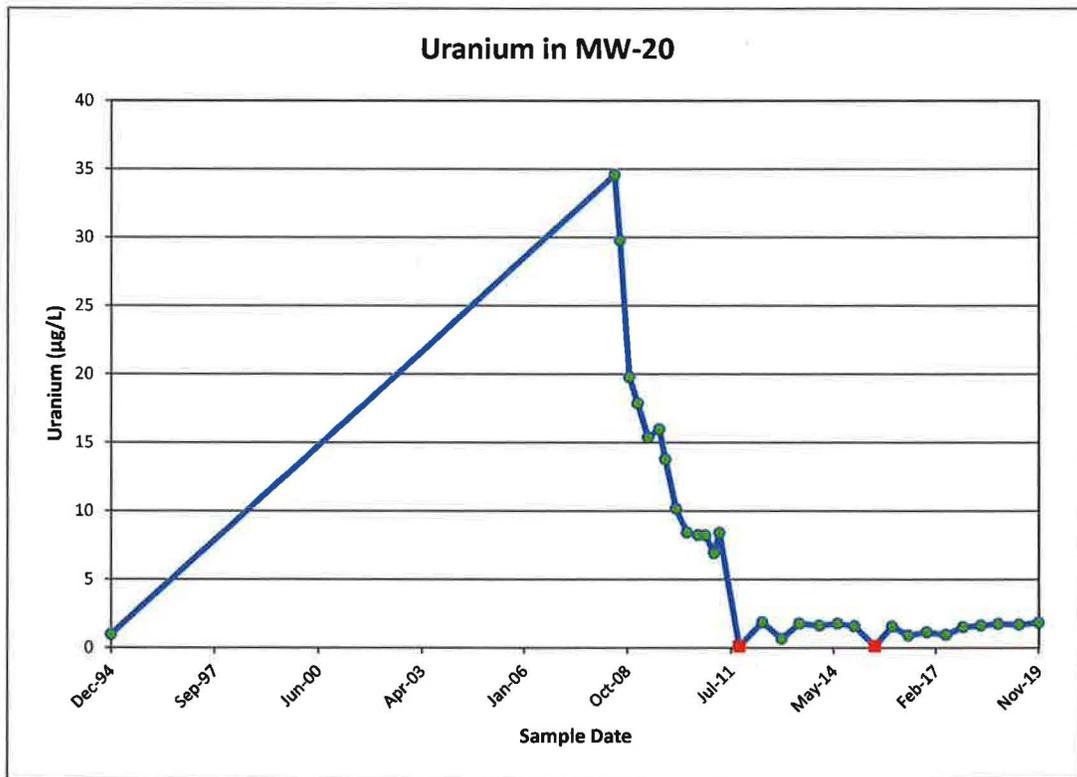
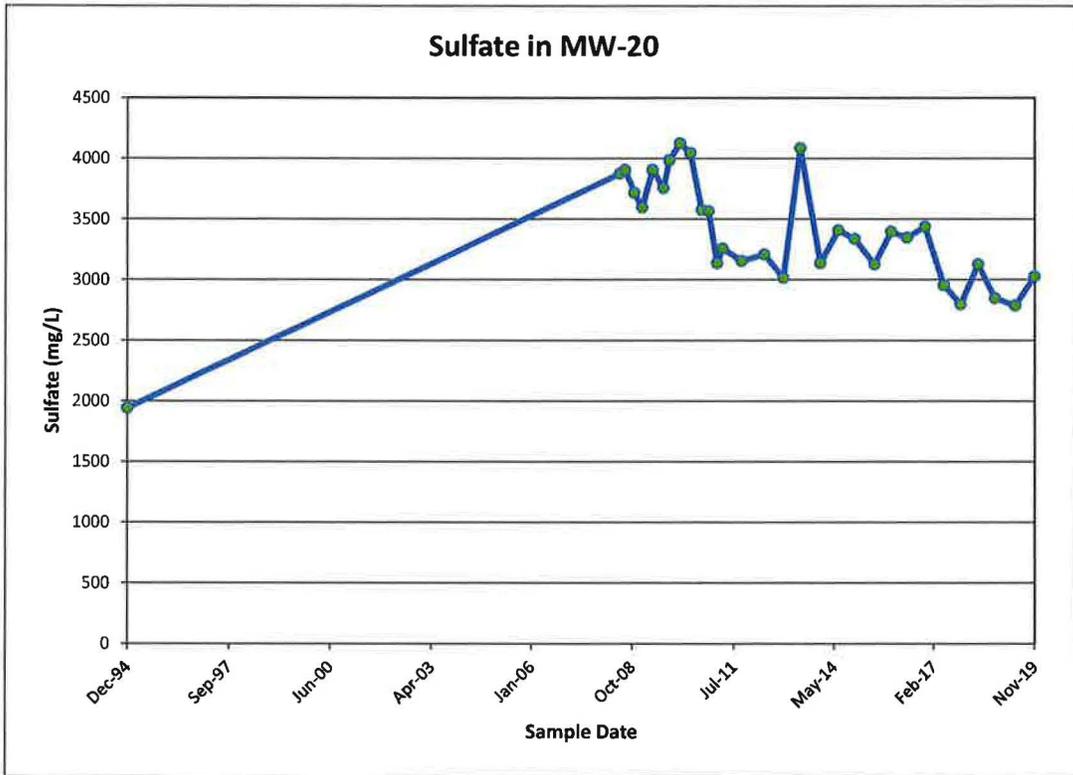
Time concentration plots for MW-19



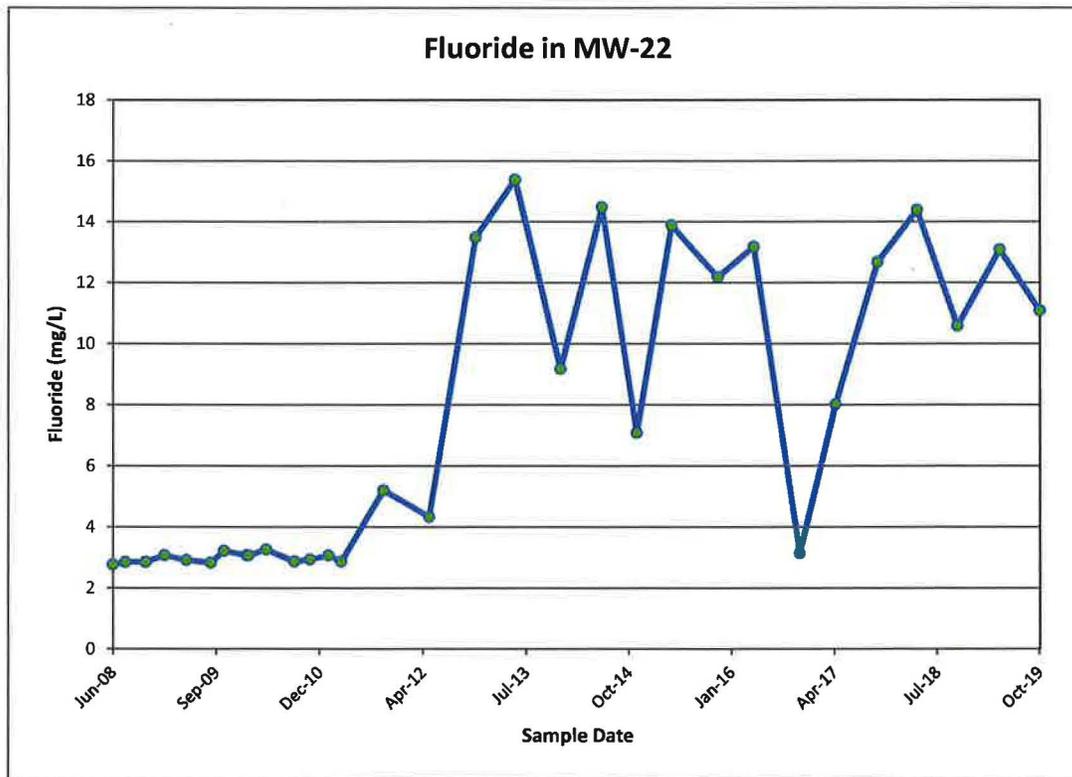
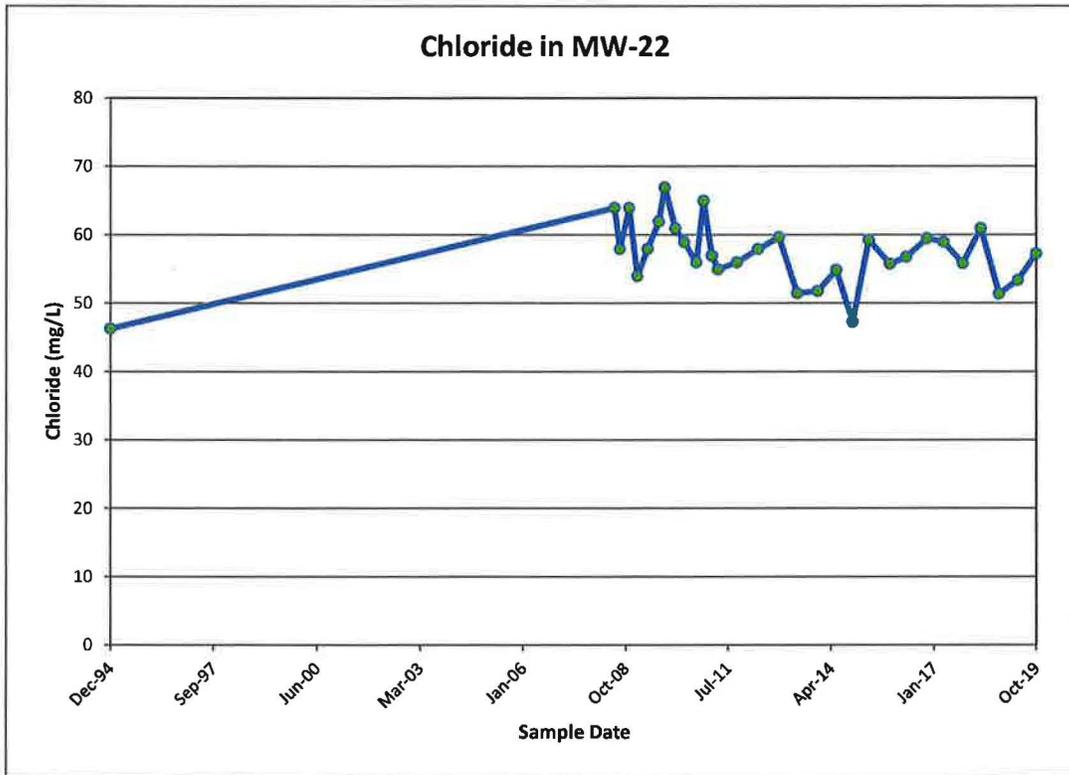
Time concentration plots for MW-20



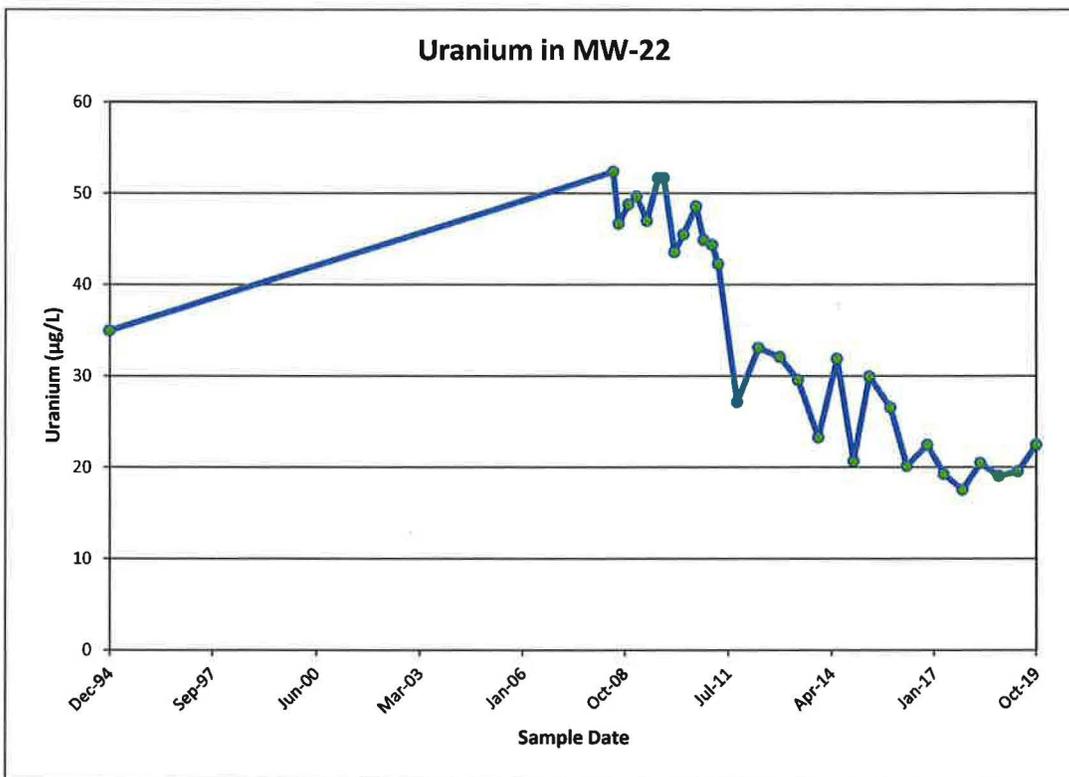
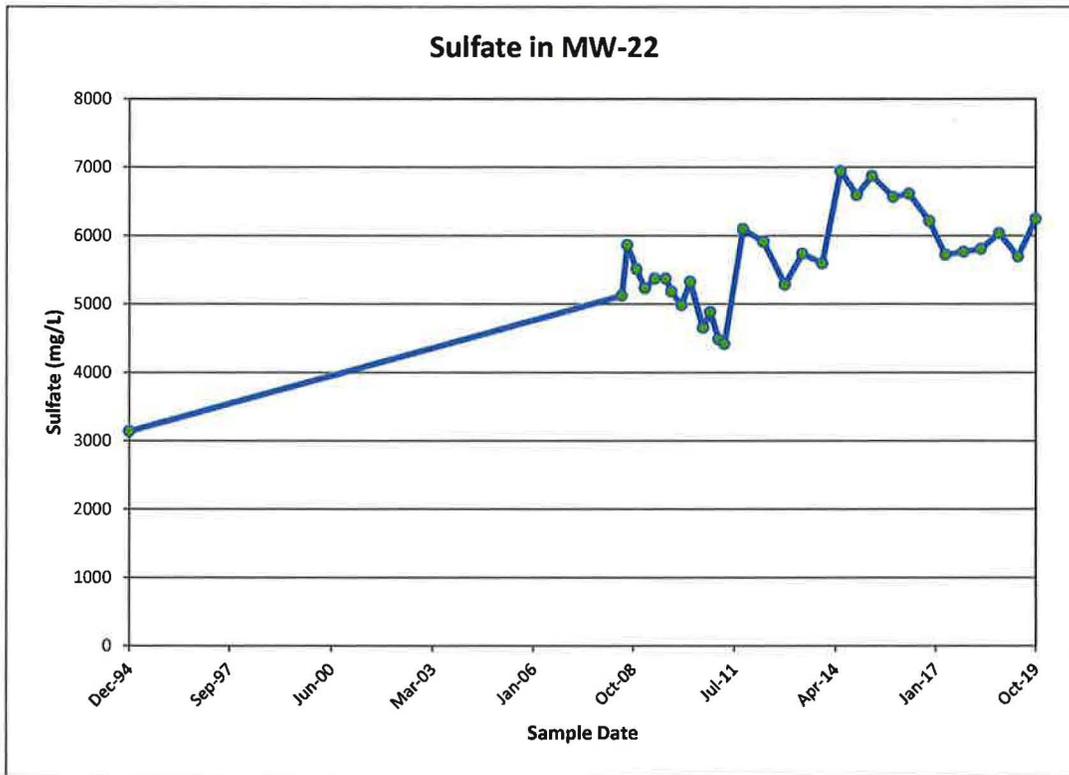
Time concentration plots for MW-20



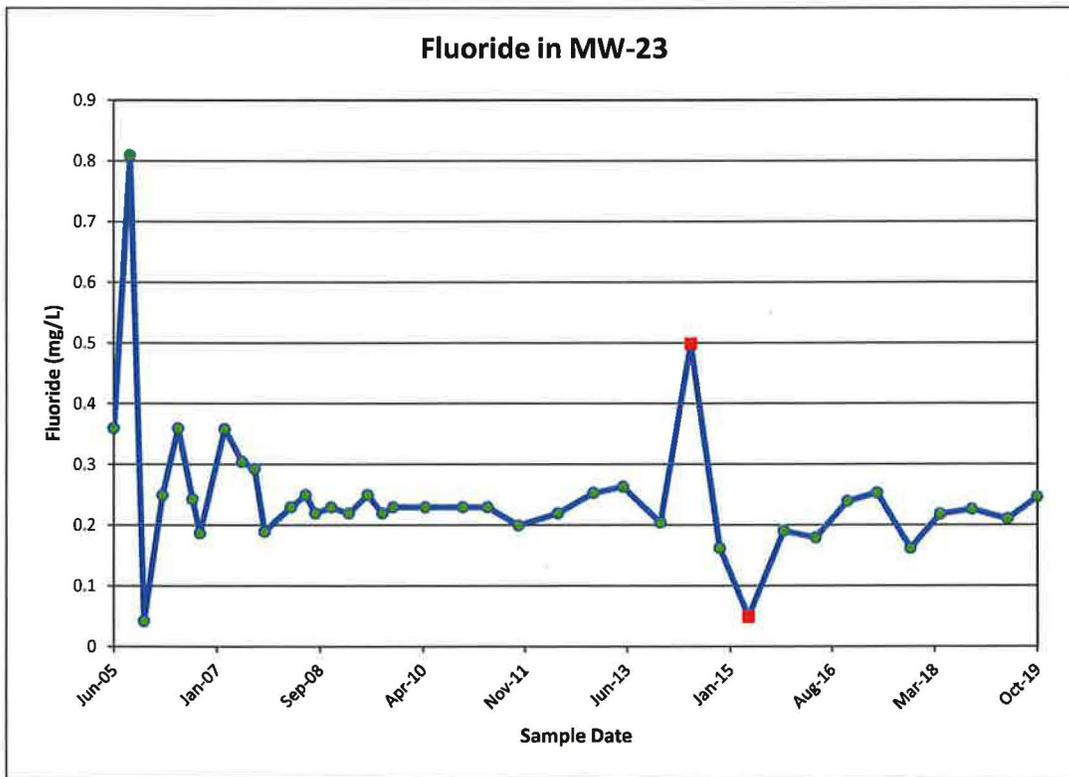
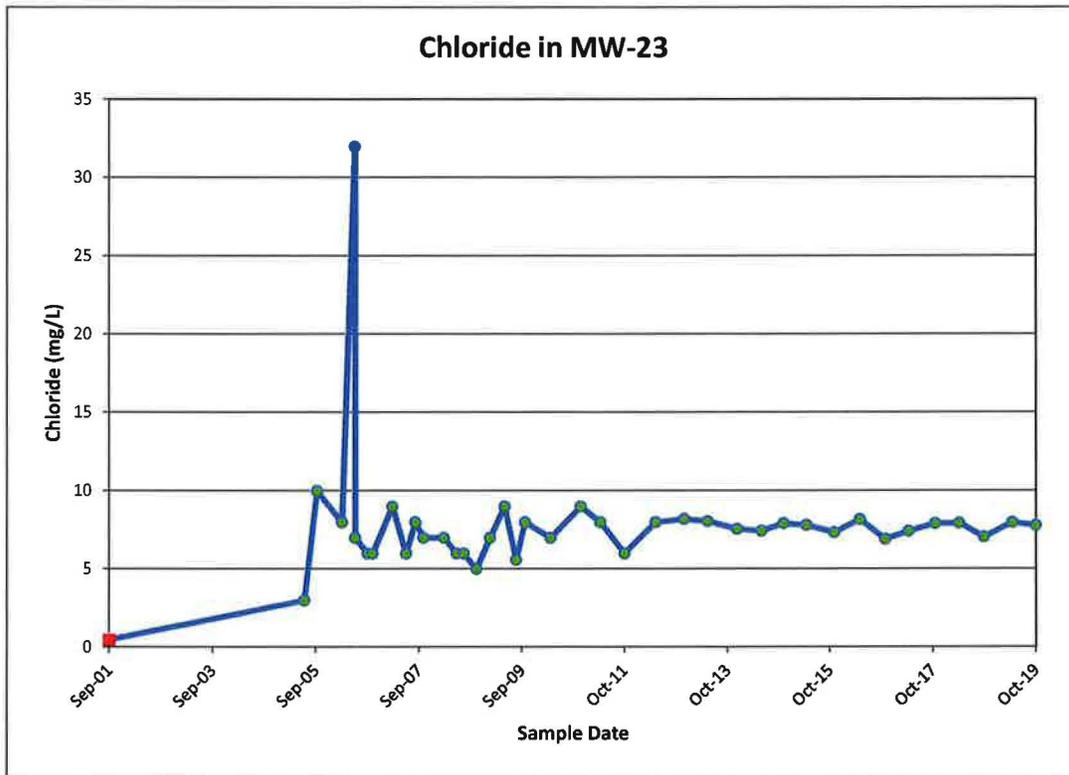
Time concentration plots for MW-22



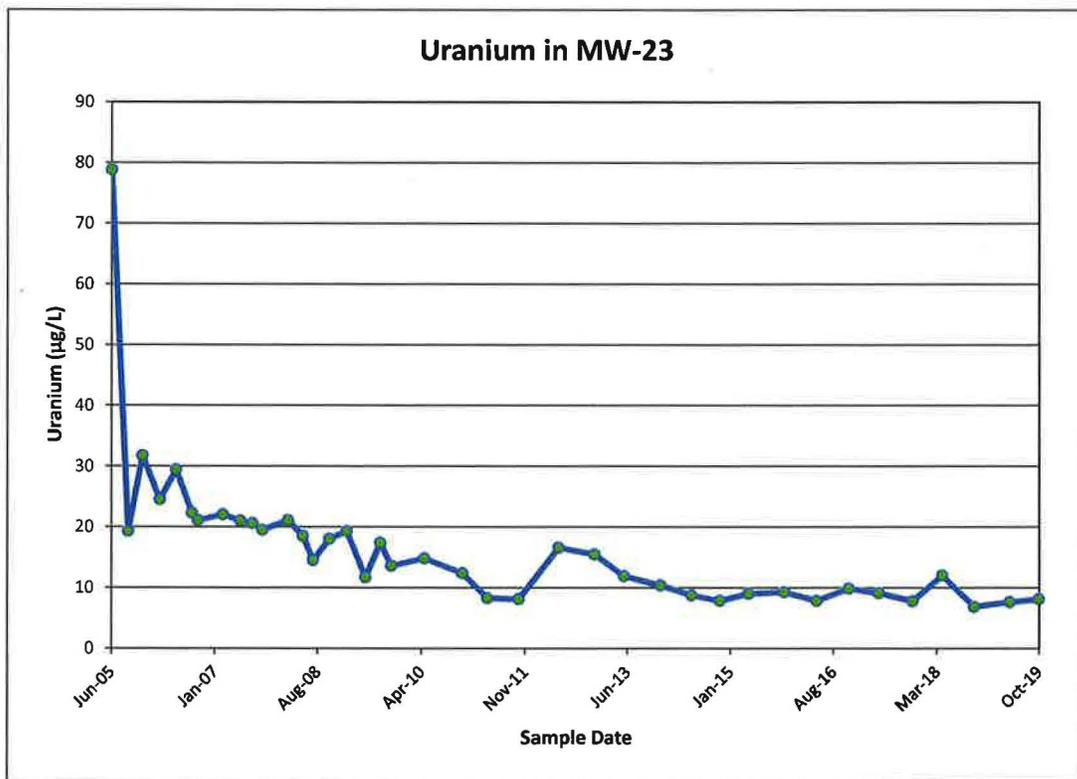
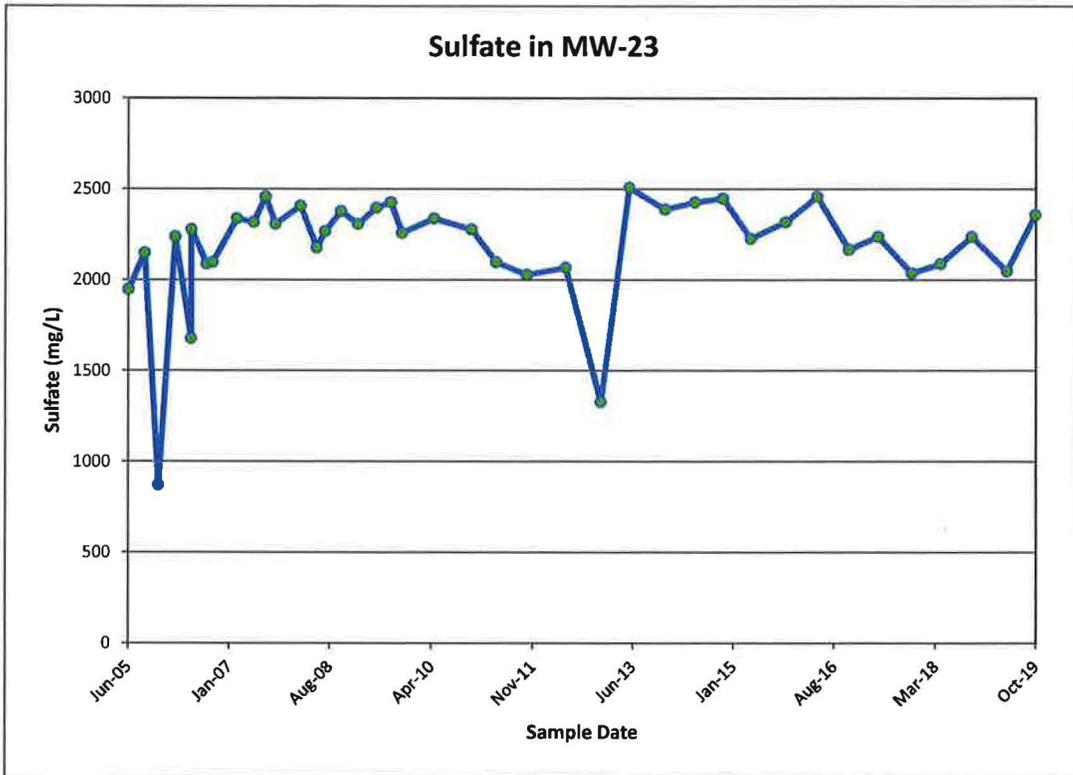
Time concentration plots for MW-22



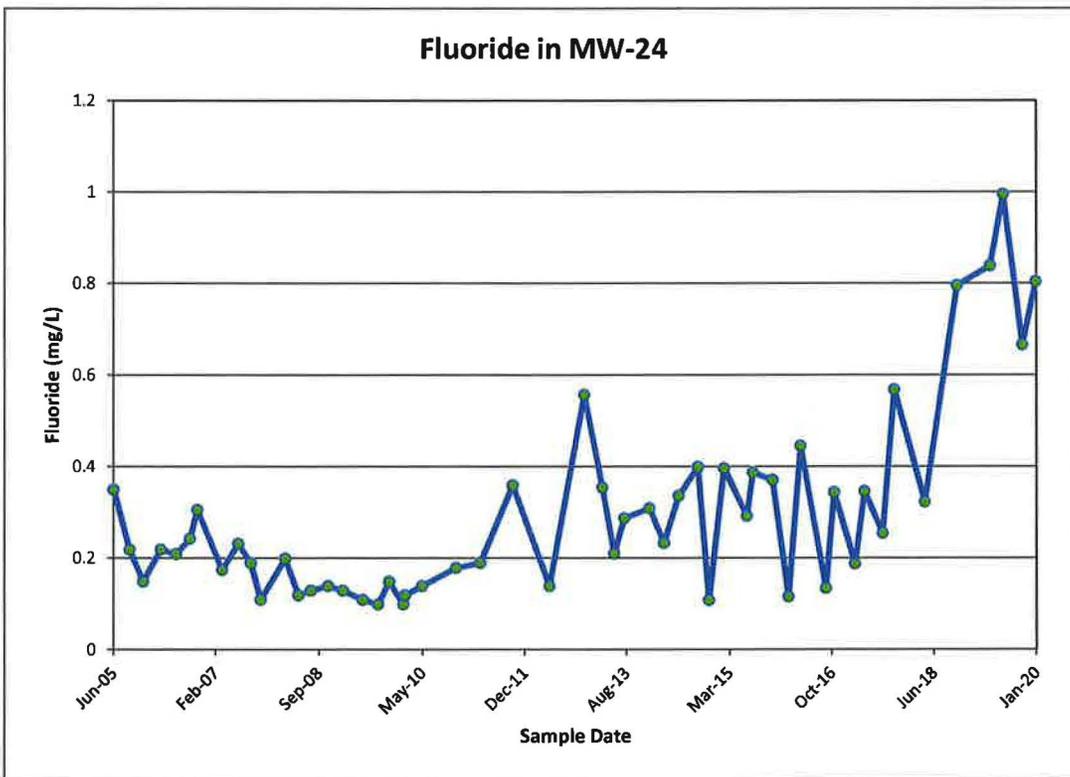
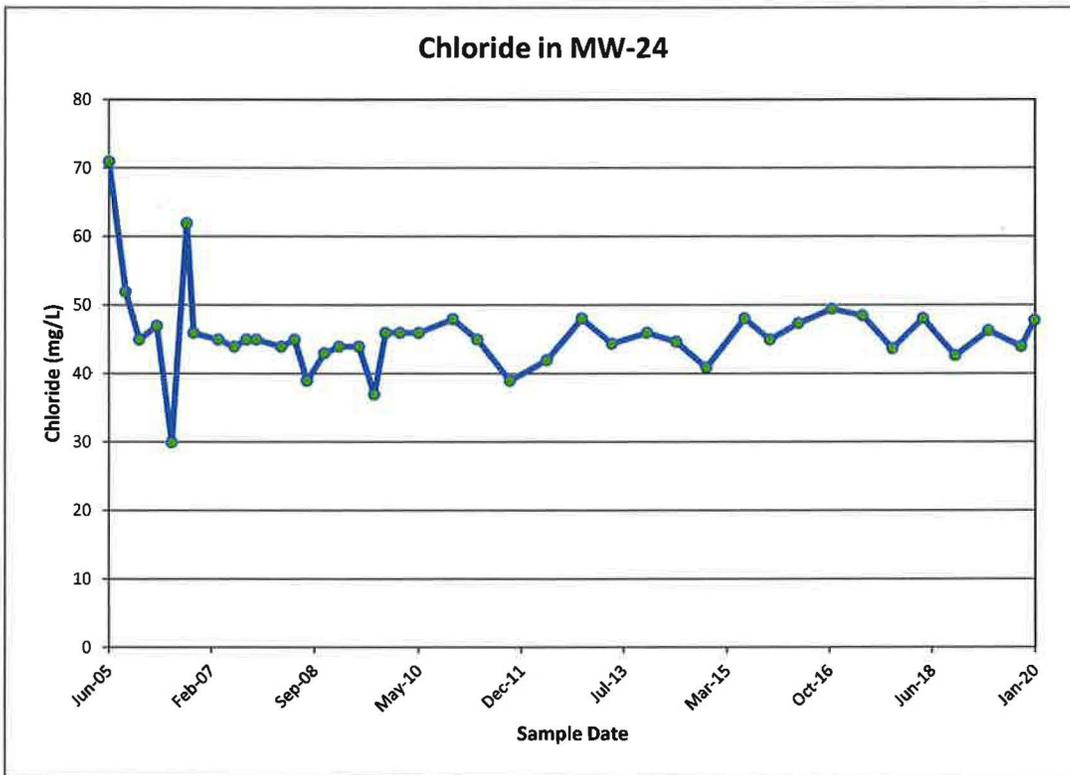
Time concentration plots for MW-23



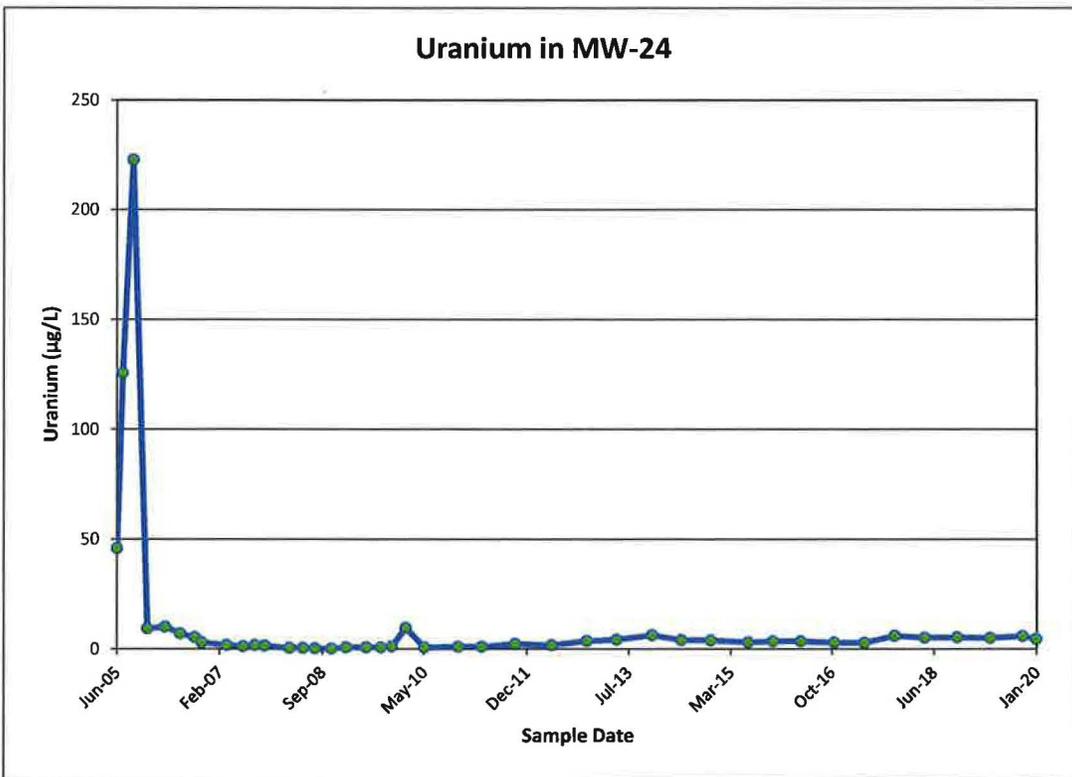
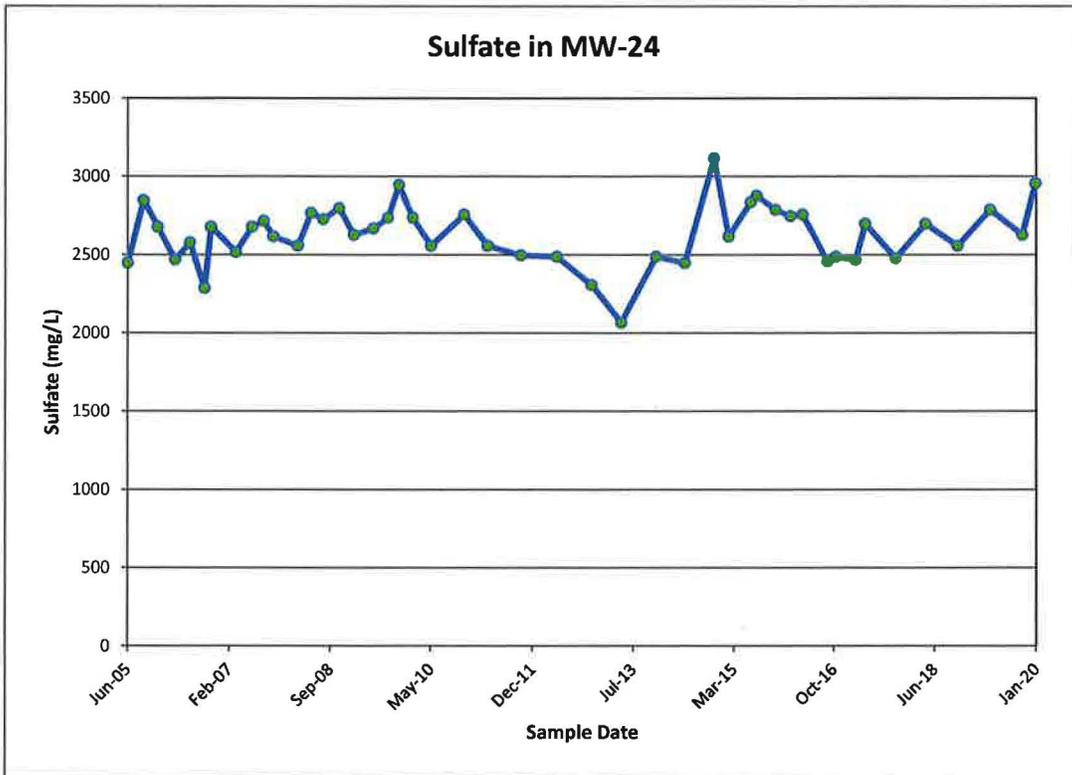
Time concentration plots for MW-23



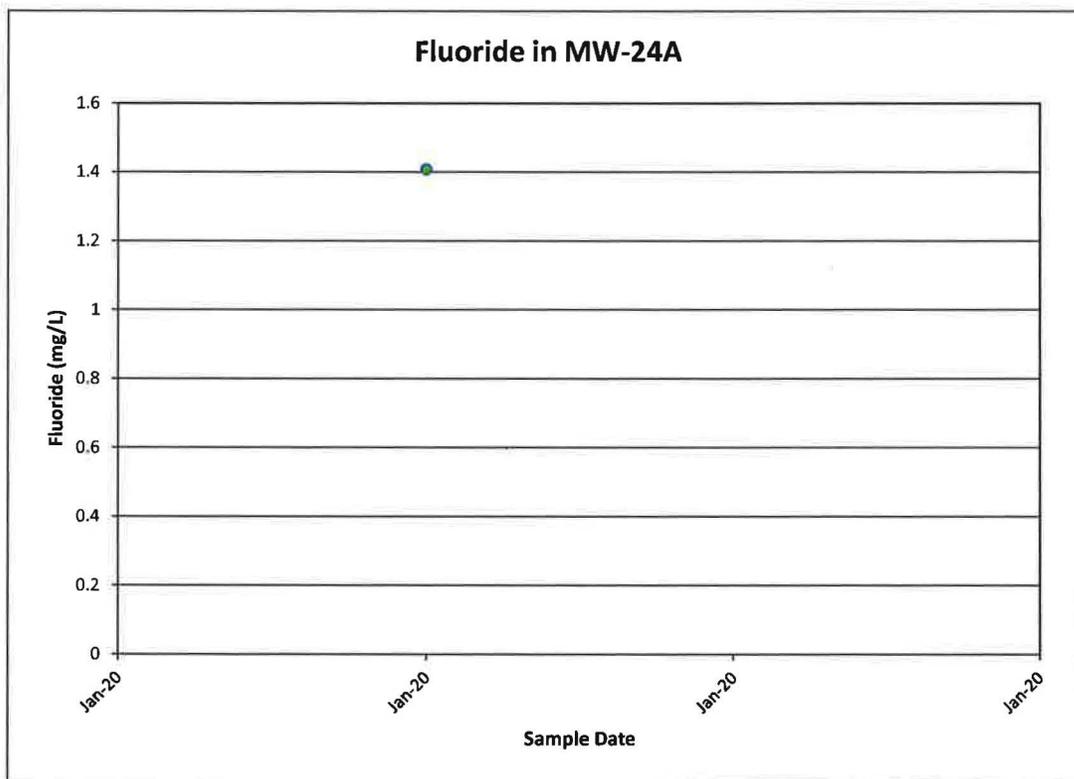
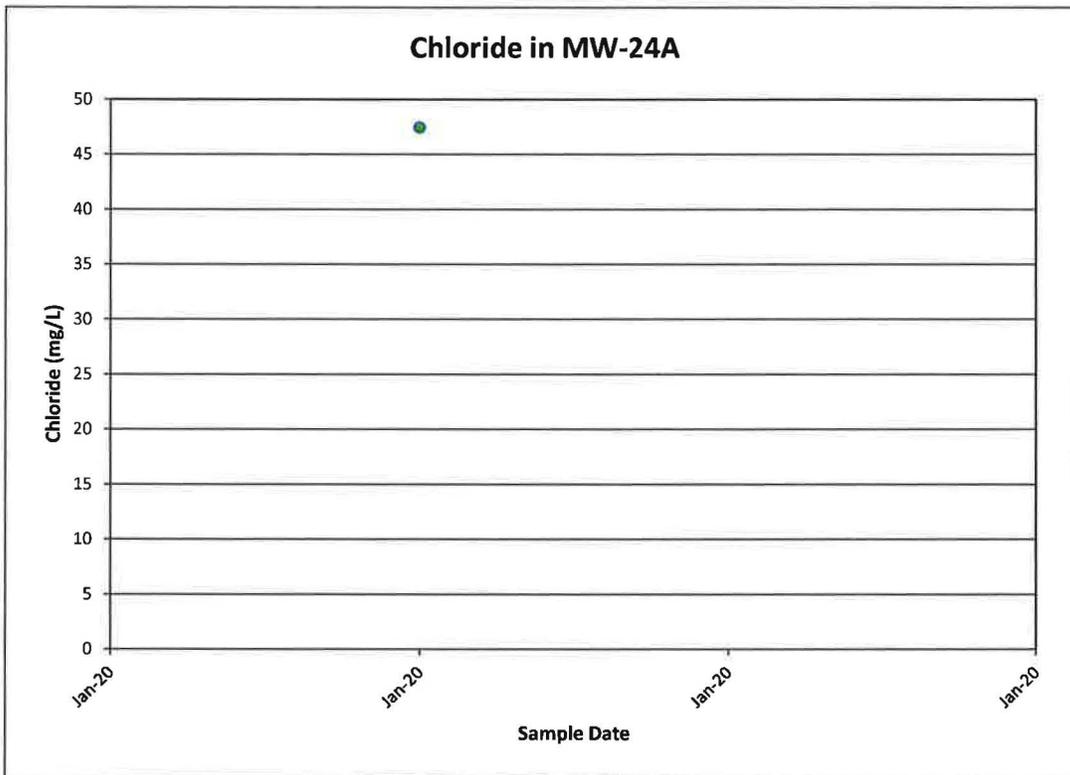
Time concentration plots for MW-24



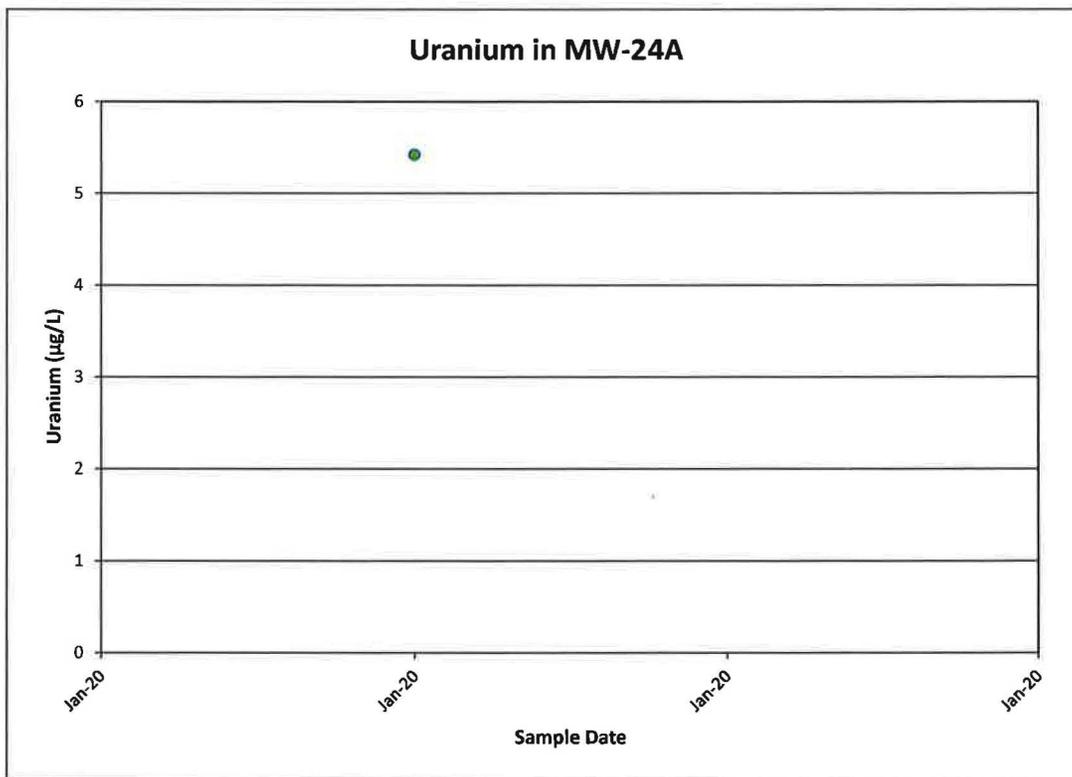
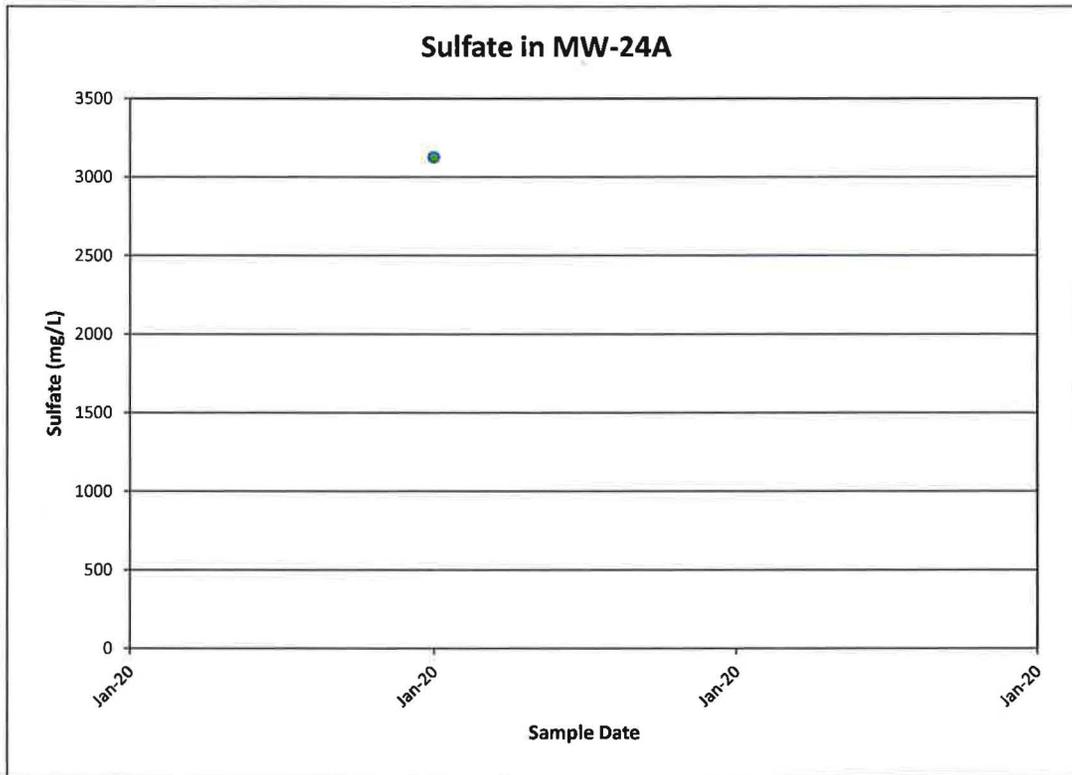
Time concentration plots for MW-24



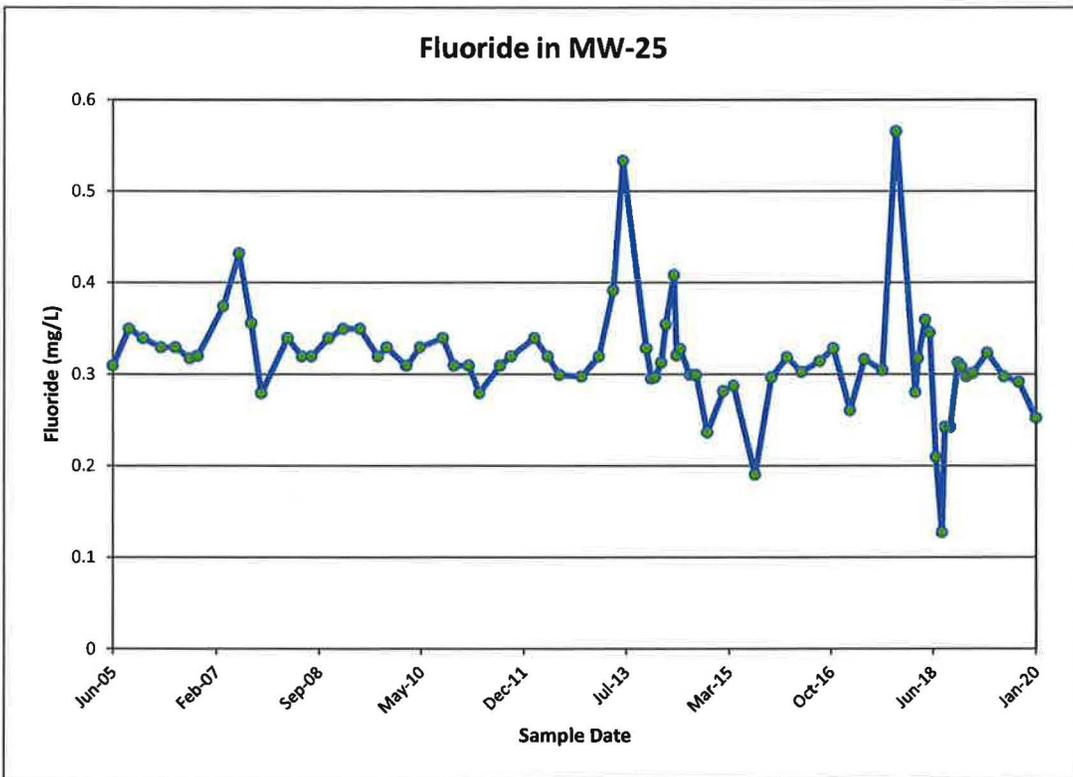
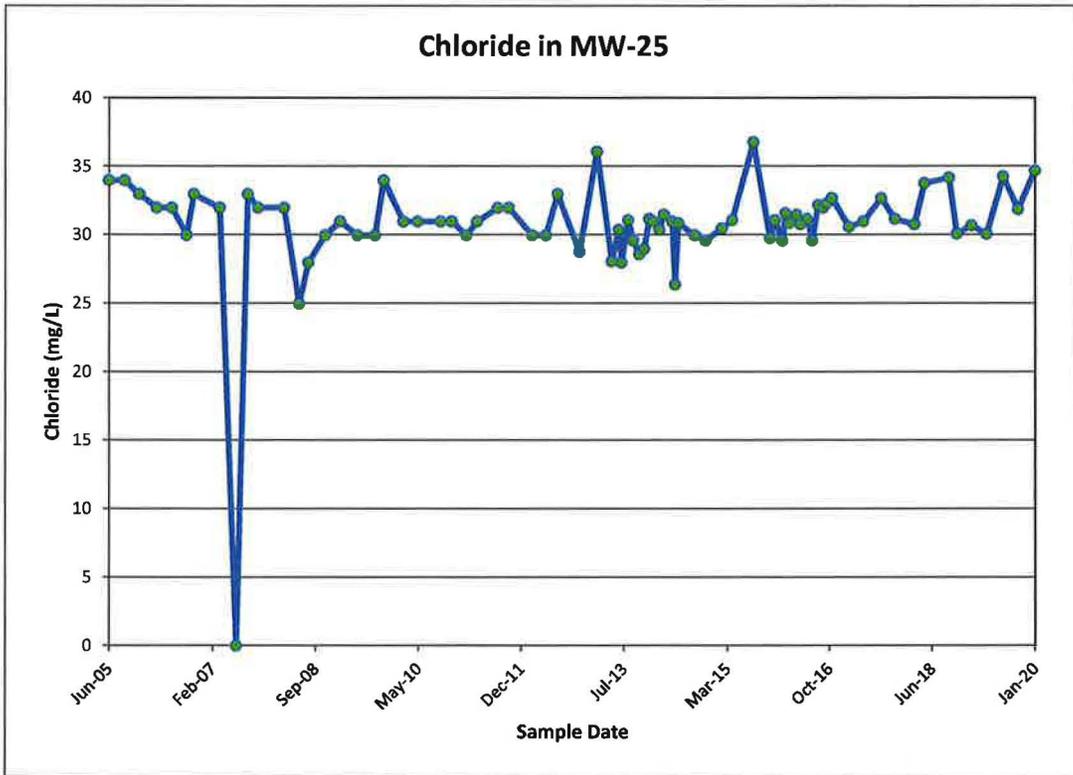
Time concentration plots for MW-24A



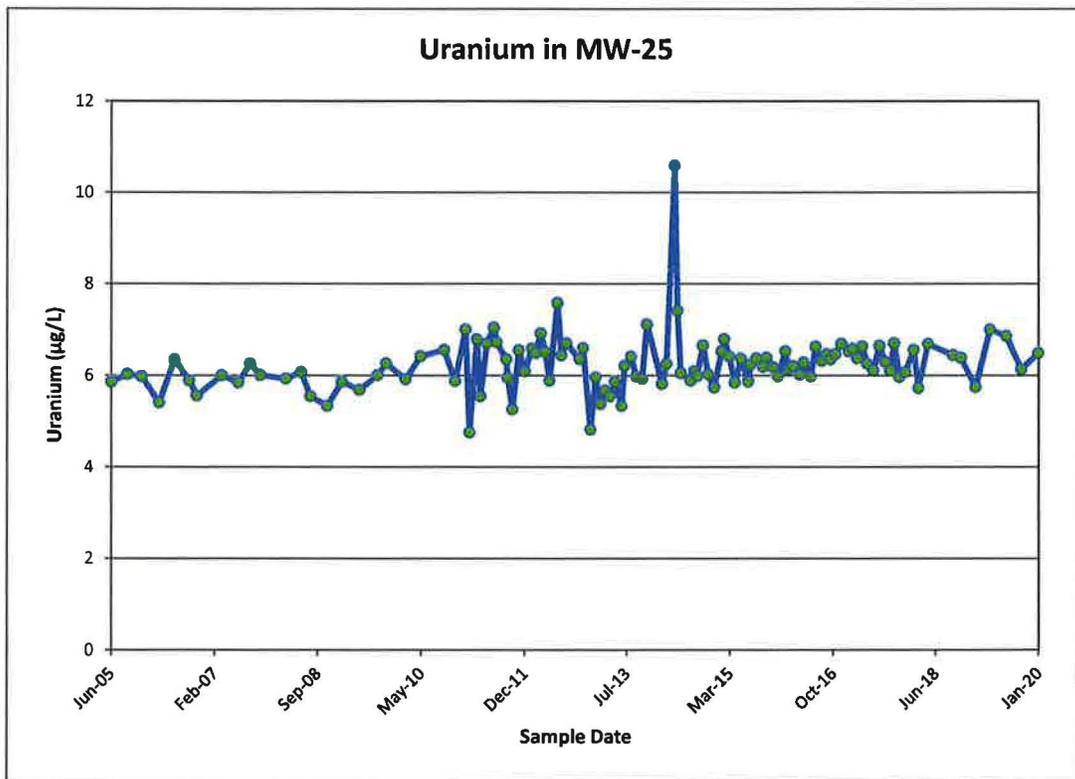
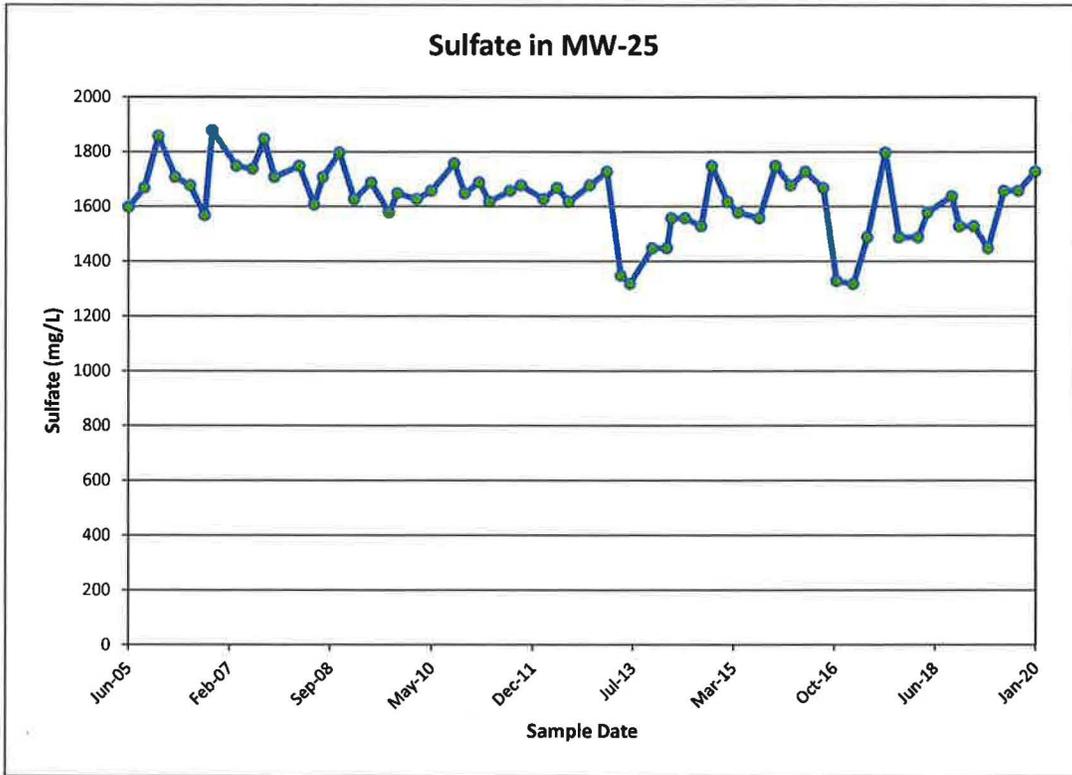
Time concentration plots for MW-24A



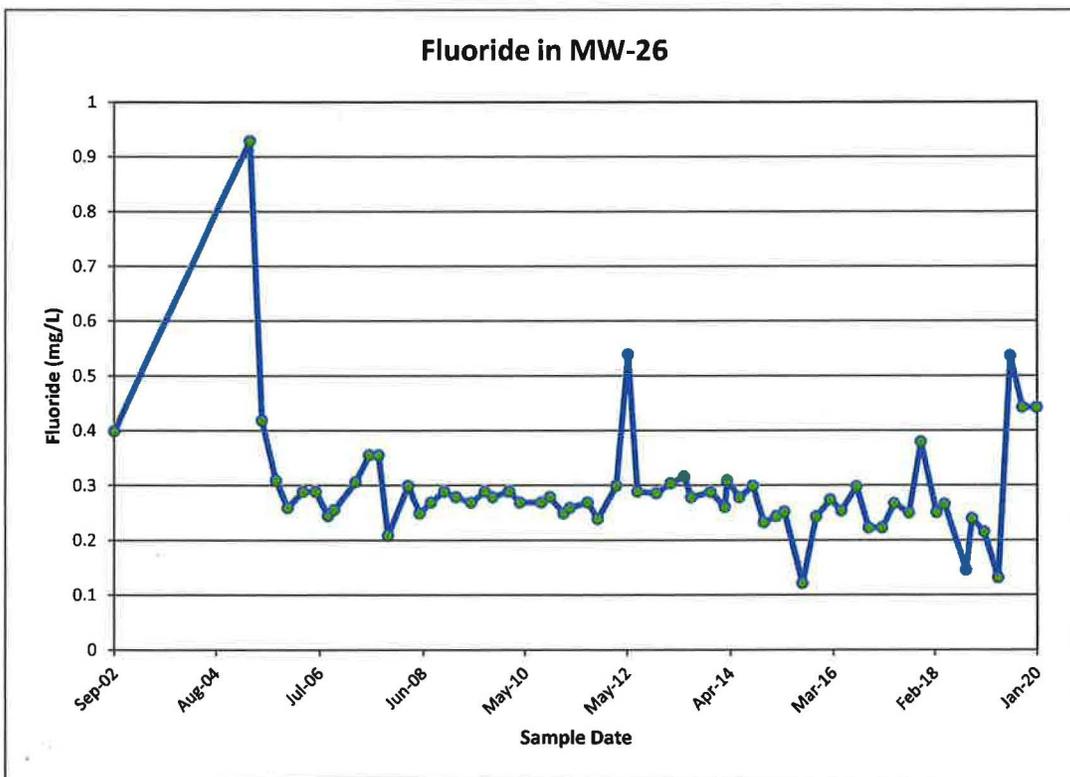
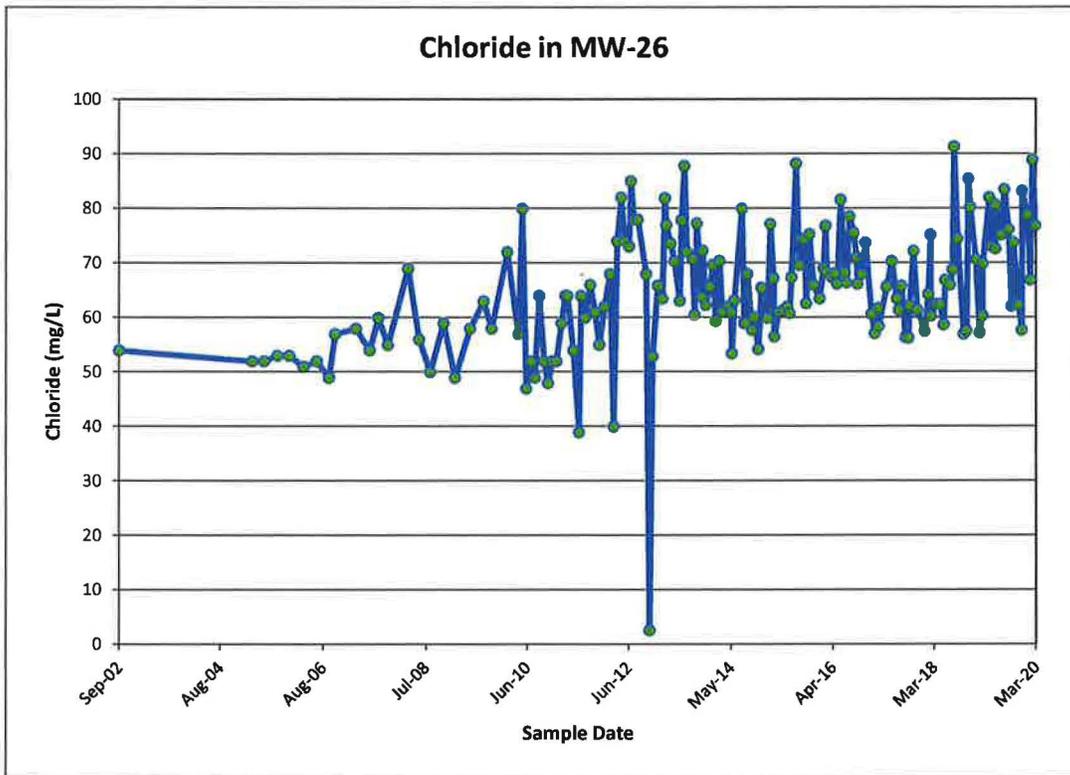
Time concentration plots for MW-25



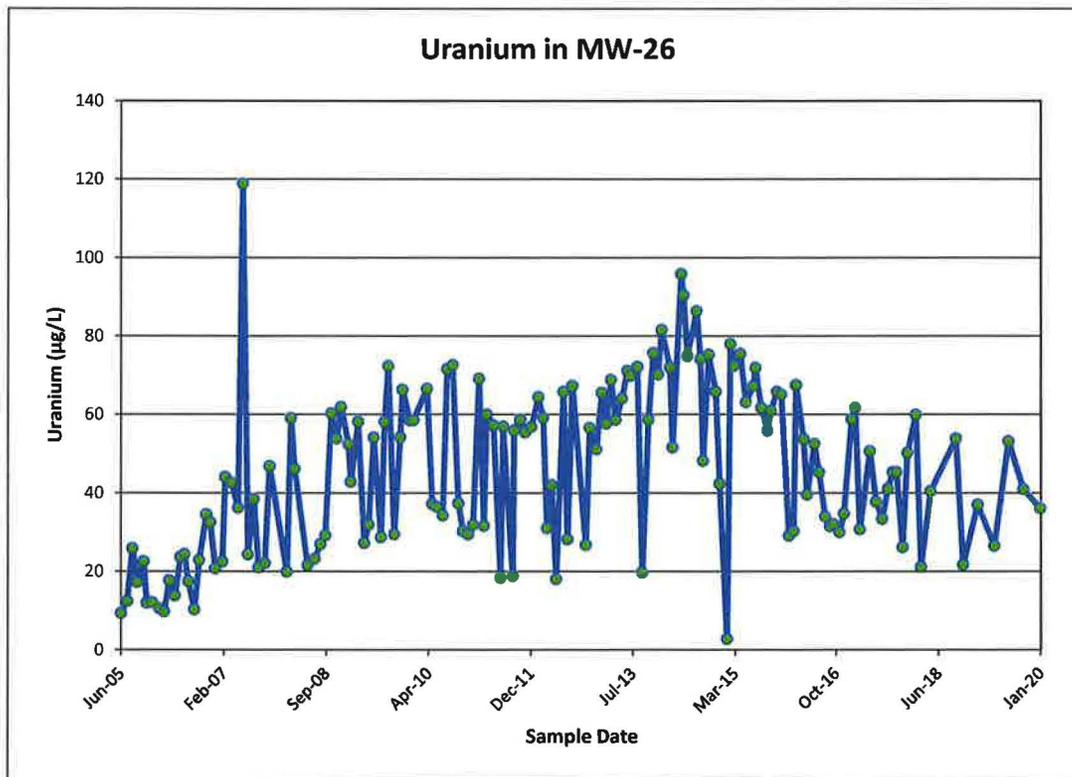
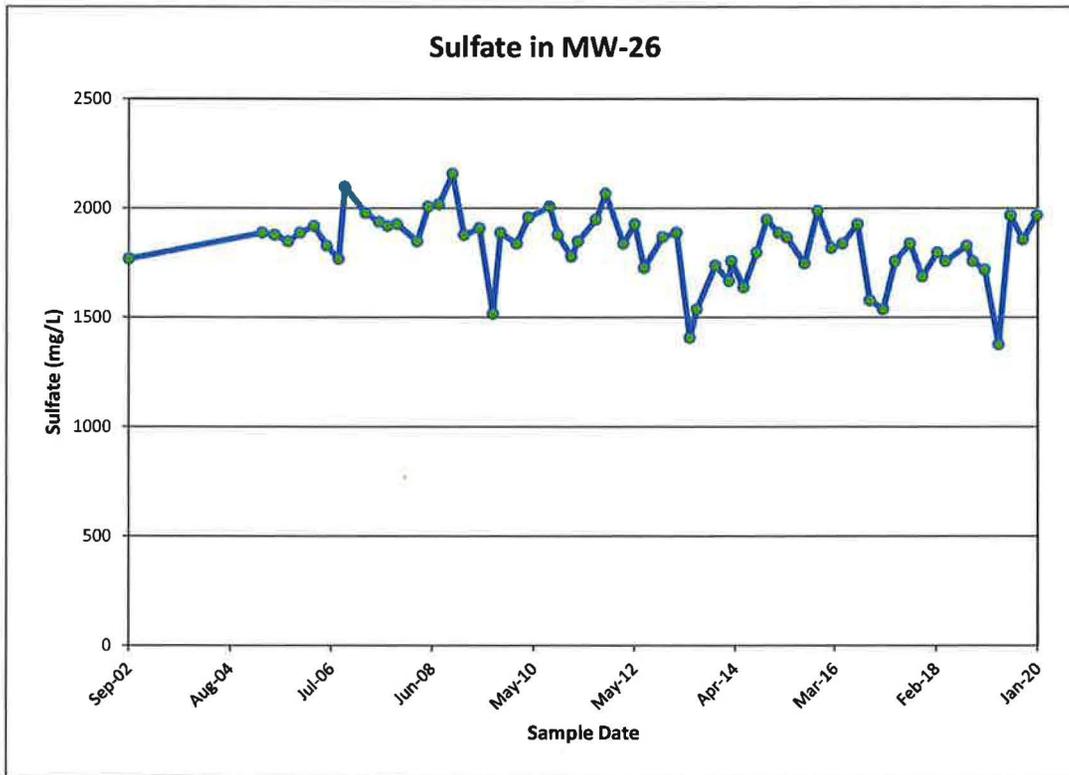
Time concentration plots for MW-25



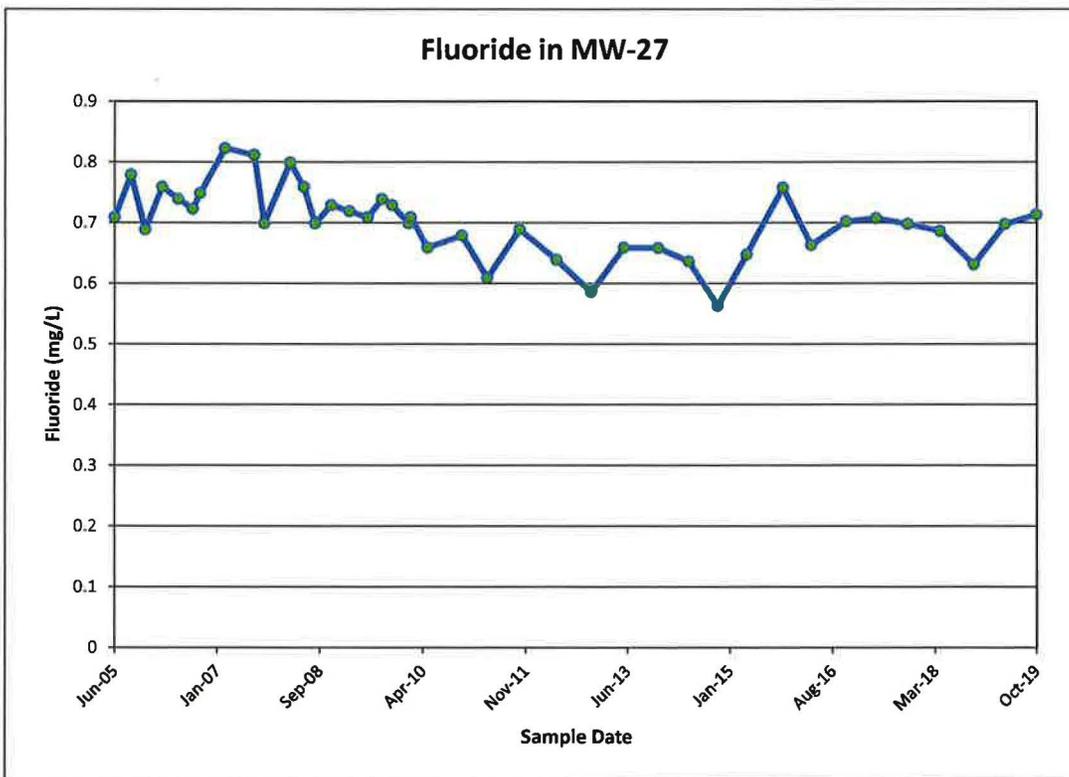
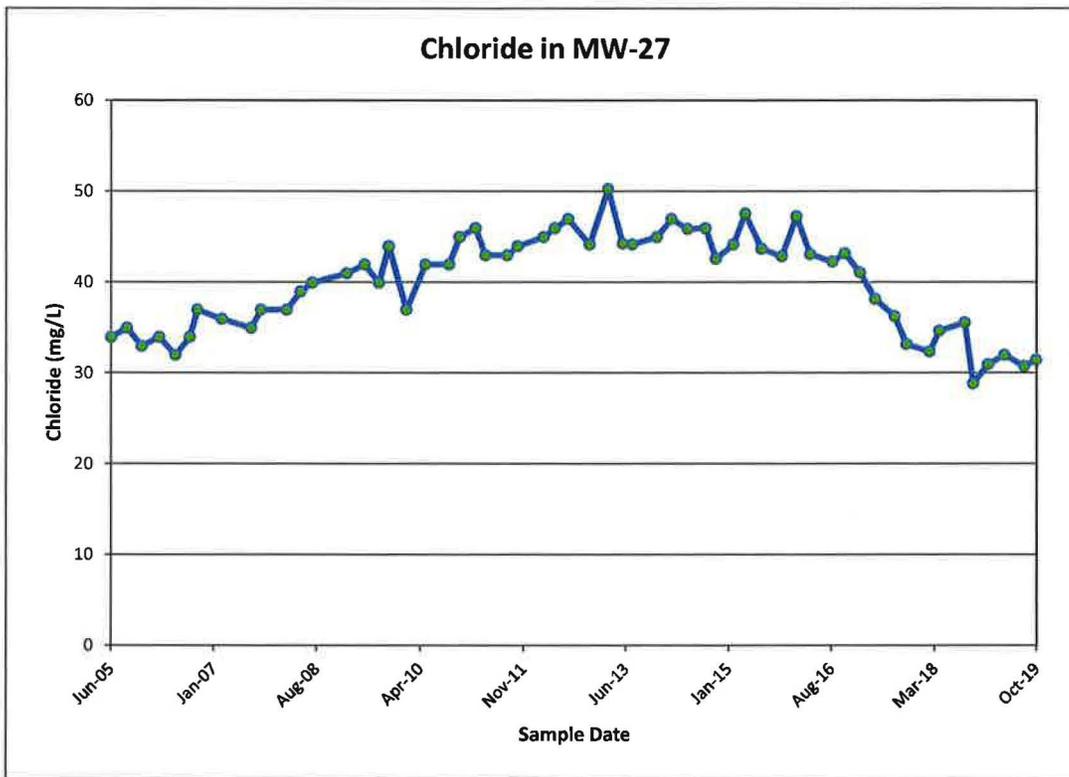
Time concentration plots for MW-26



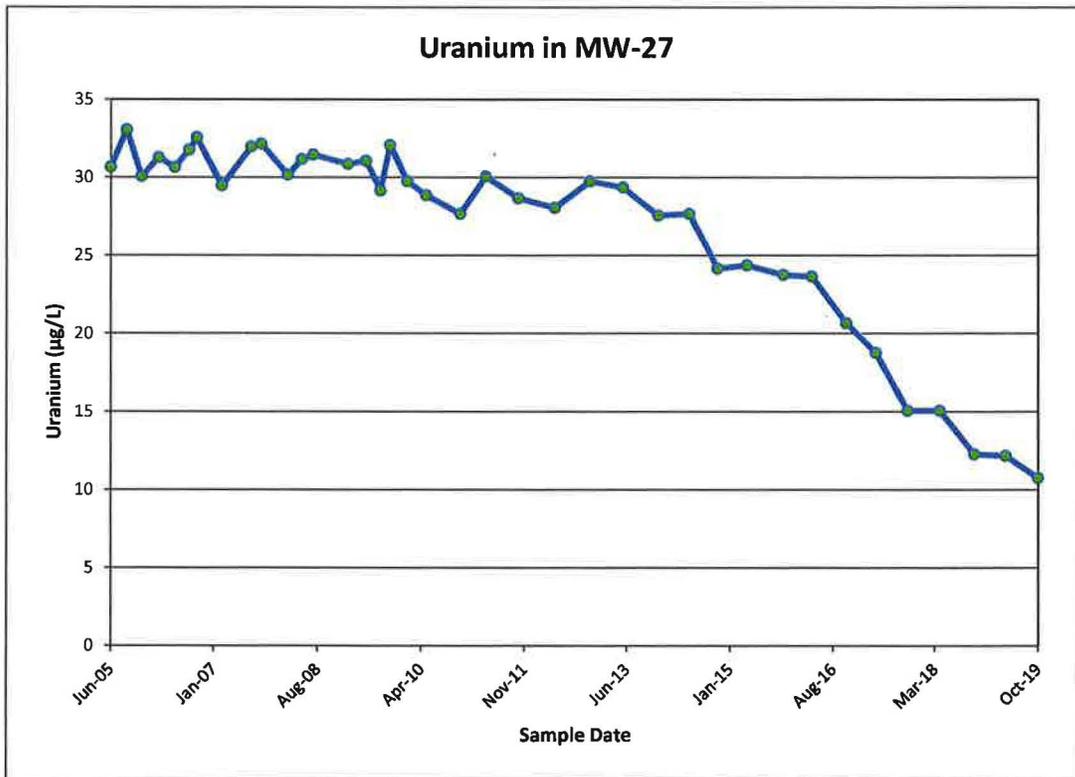
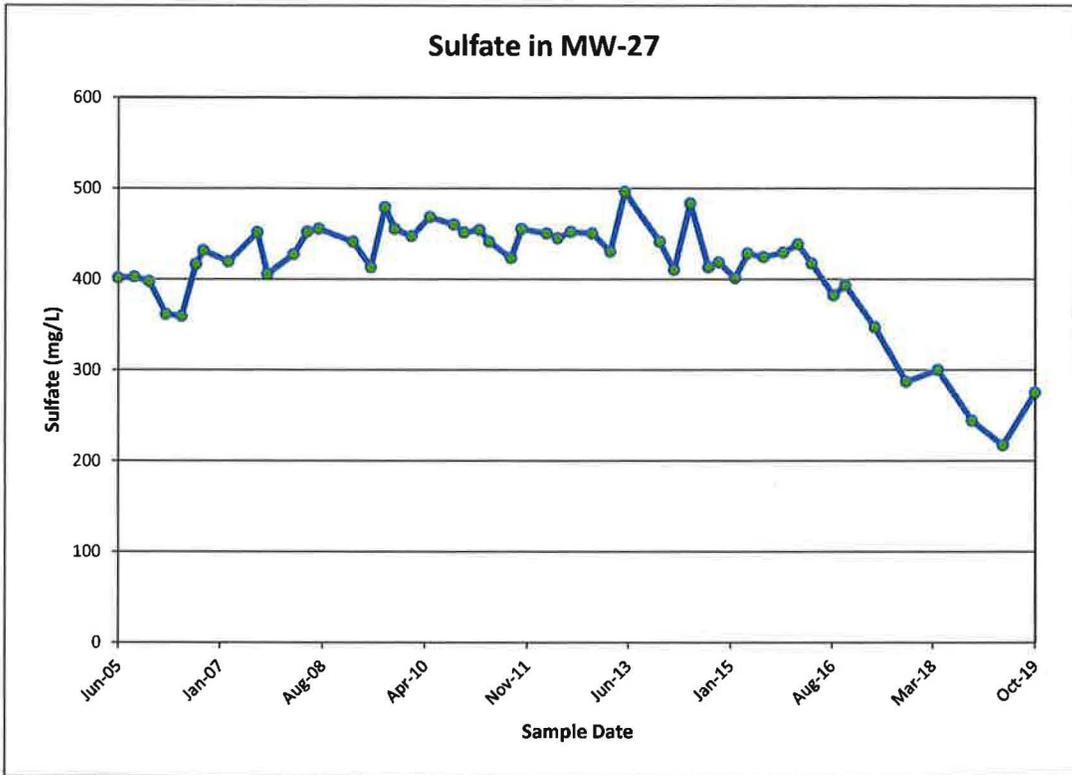
Time concentration plots for MW-26



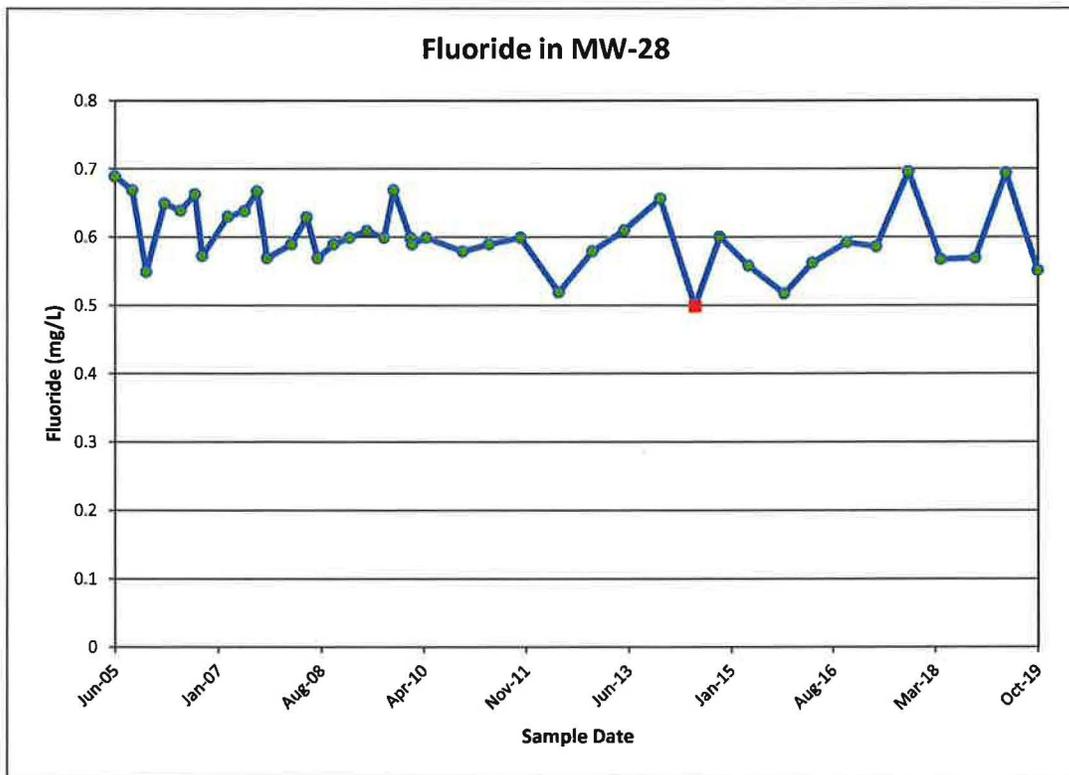
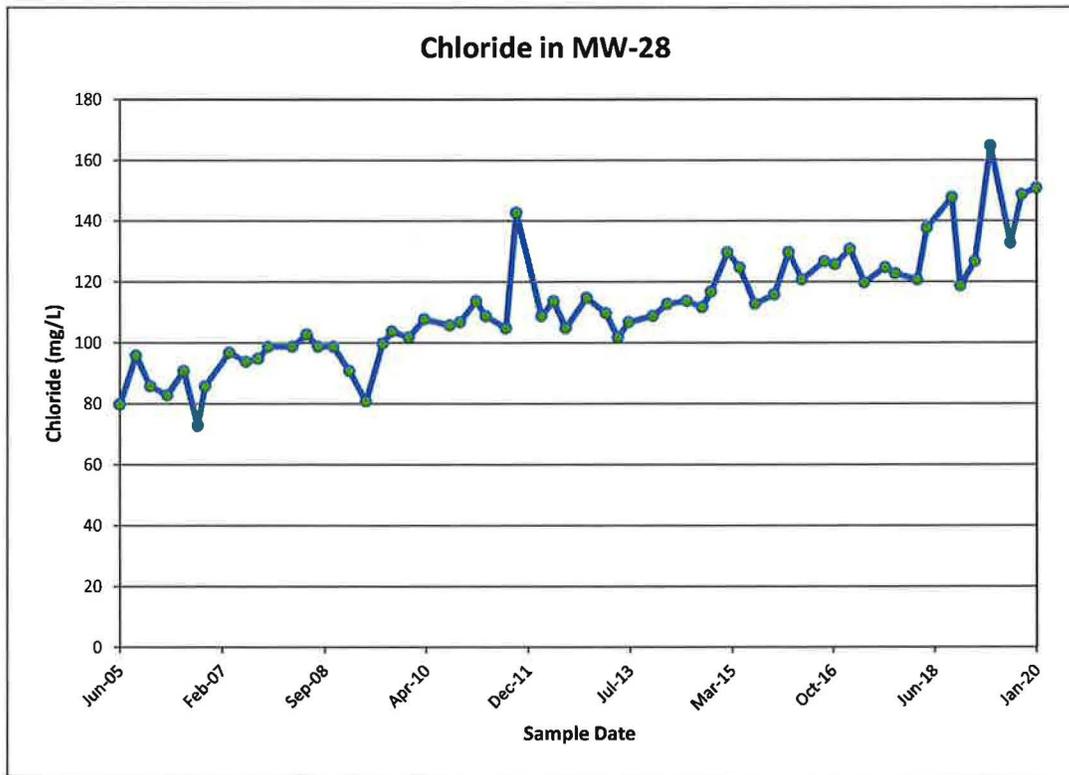
Time concentration plots for MW-27



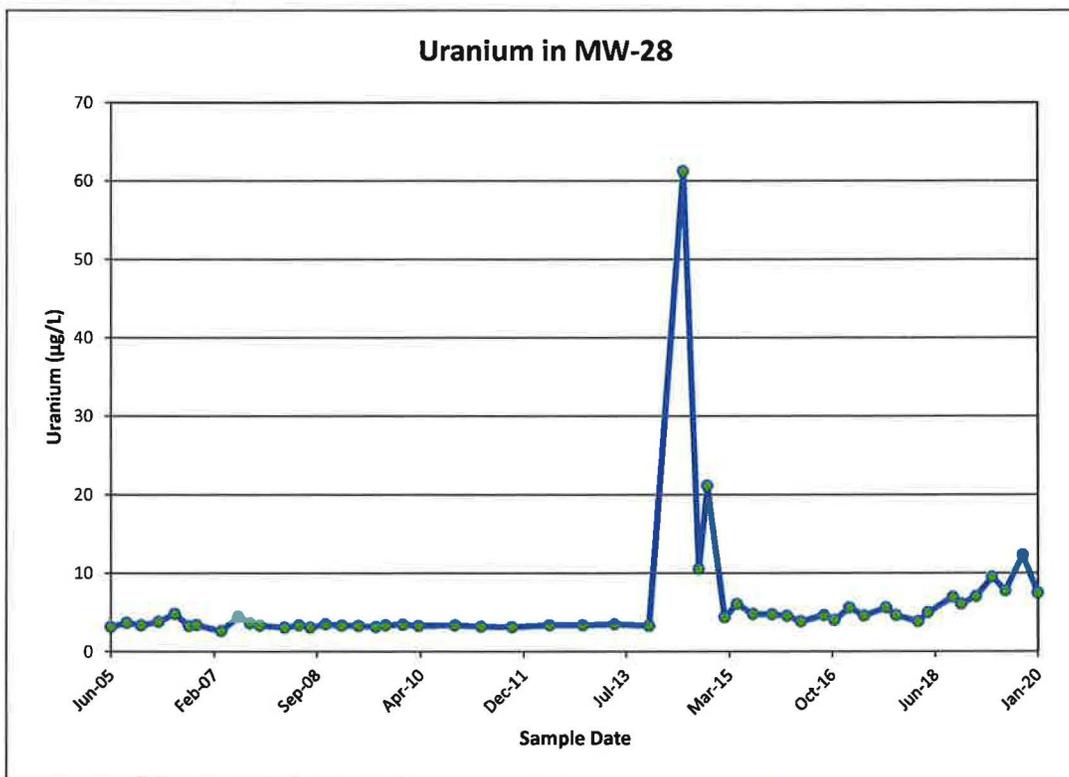
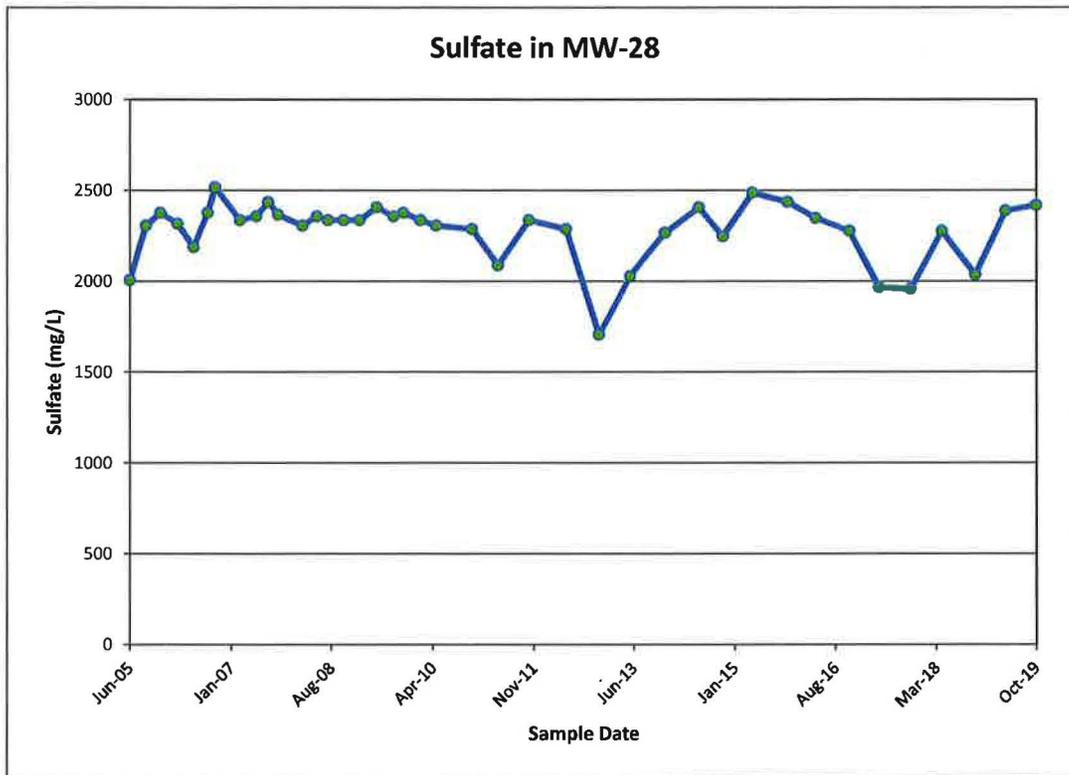
Time concentration plots for MW-27



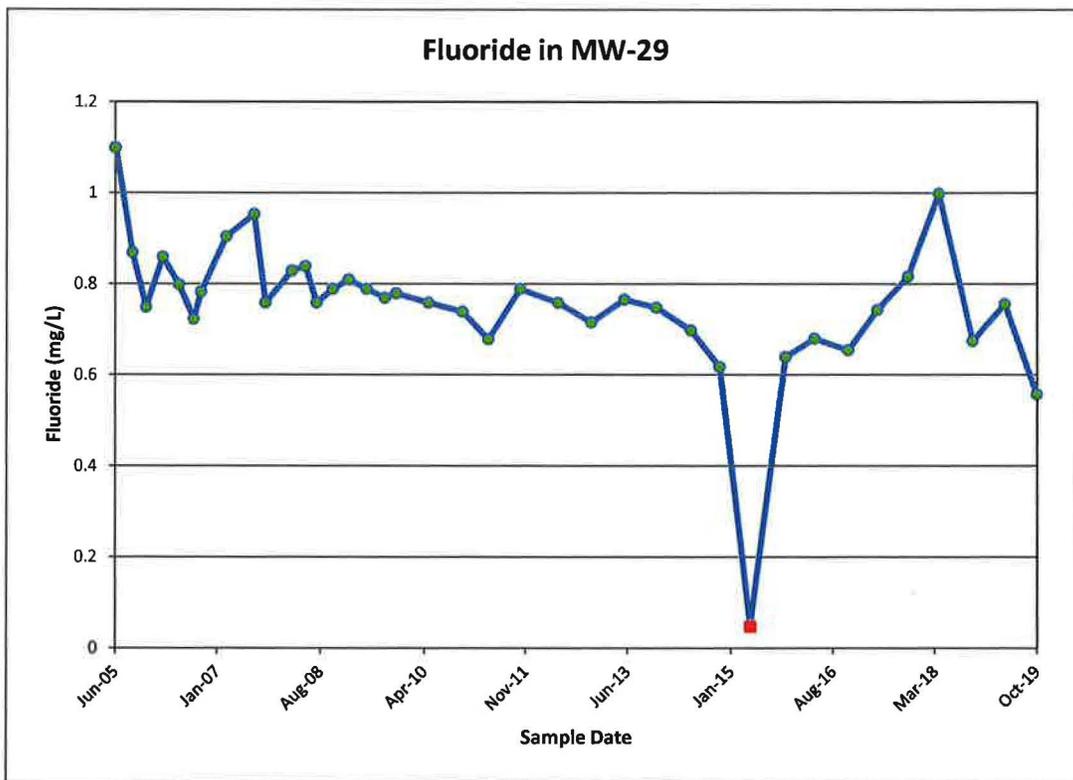
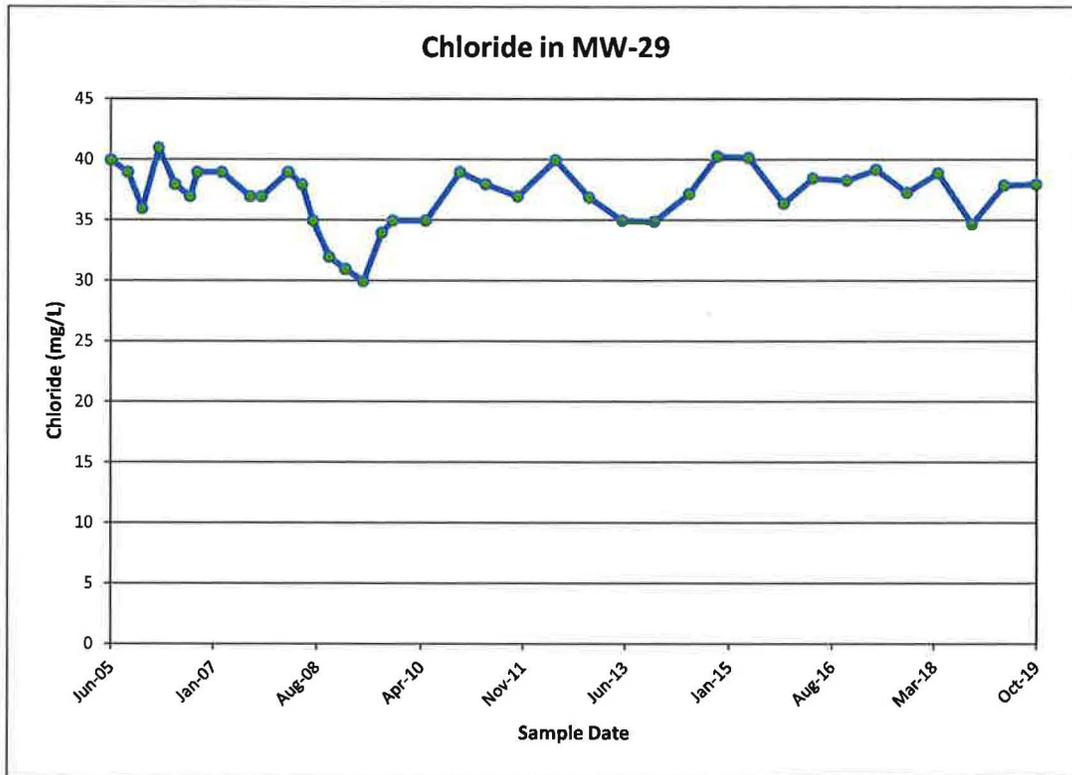
Time concentration plots for MW-28



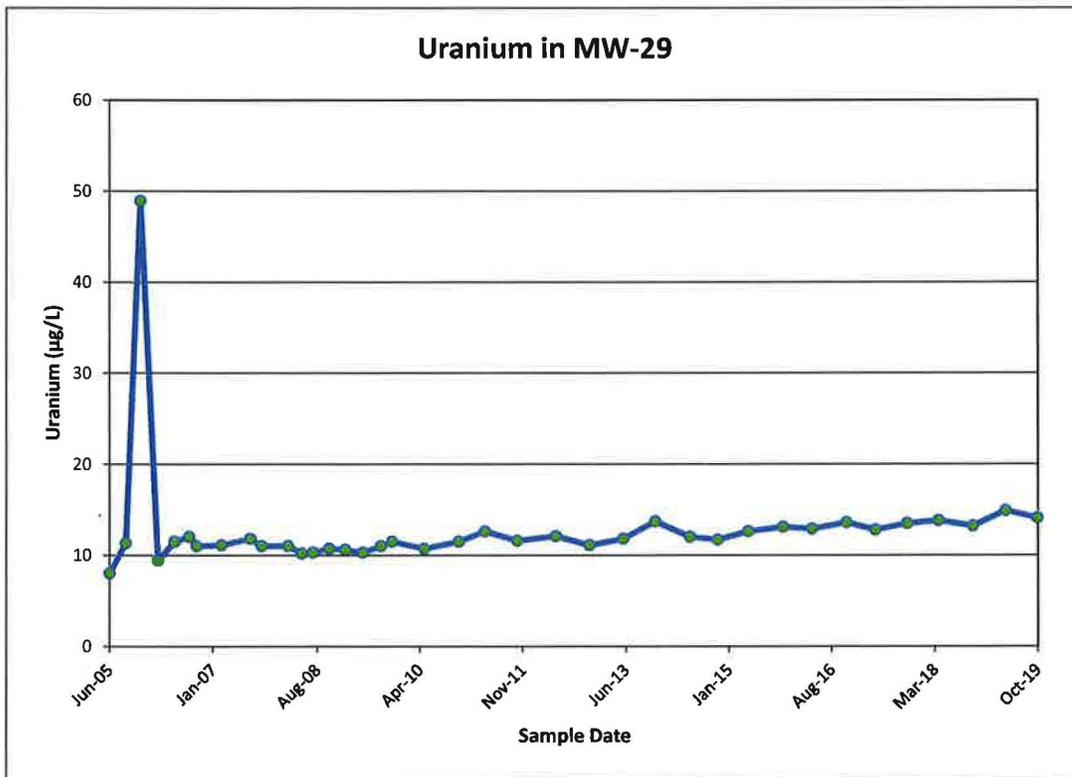
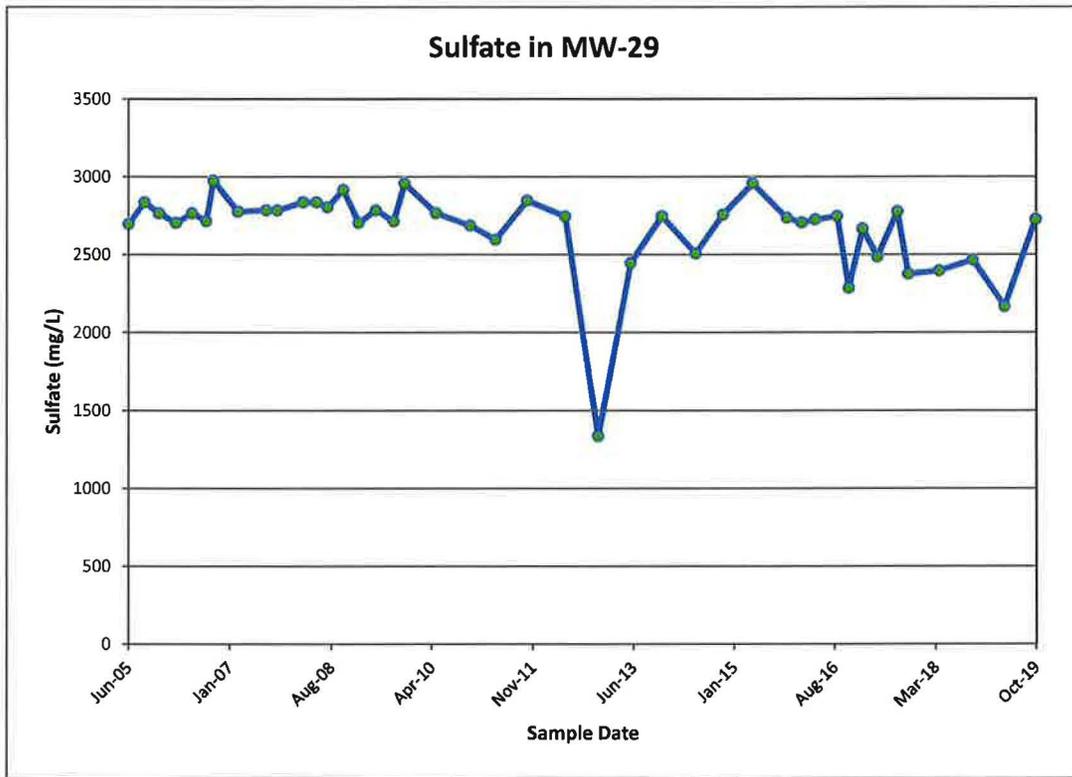
Time concentration plots for MW-28



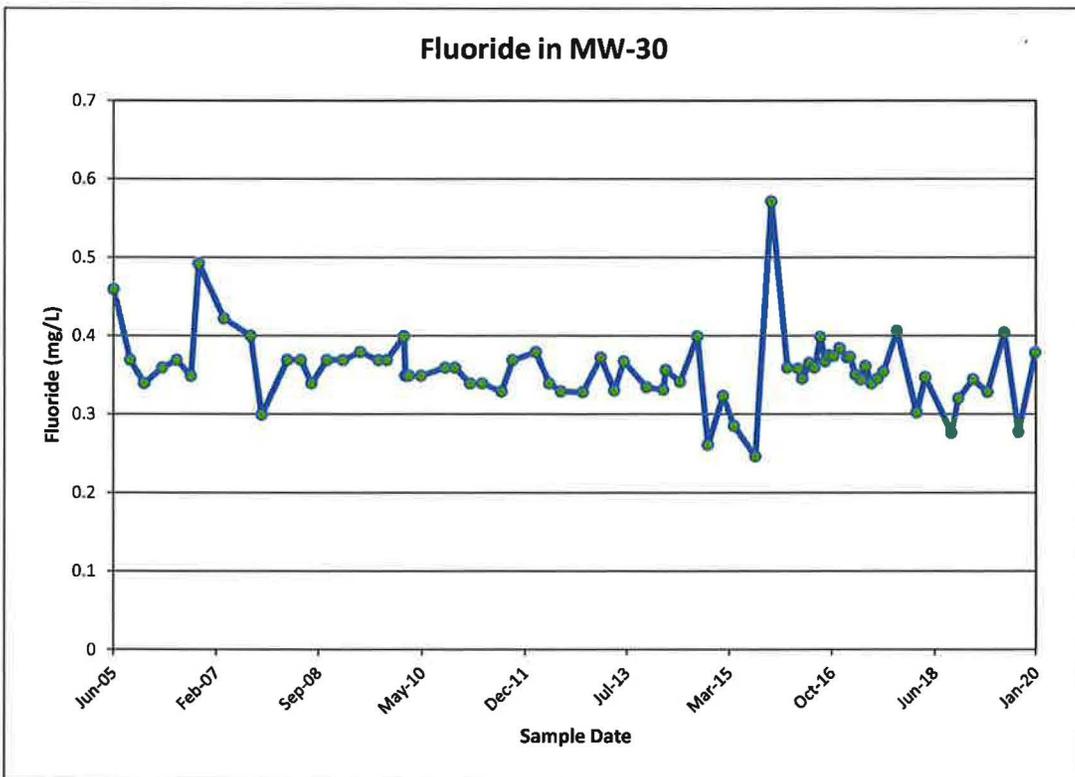
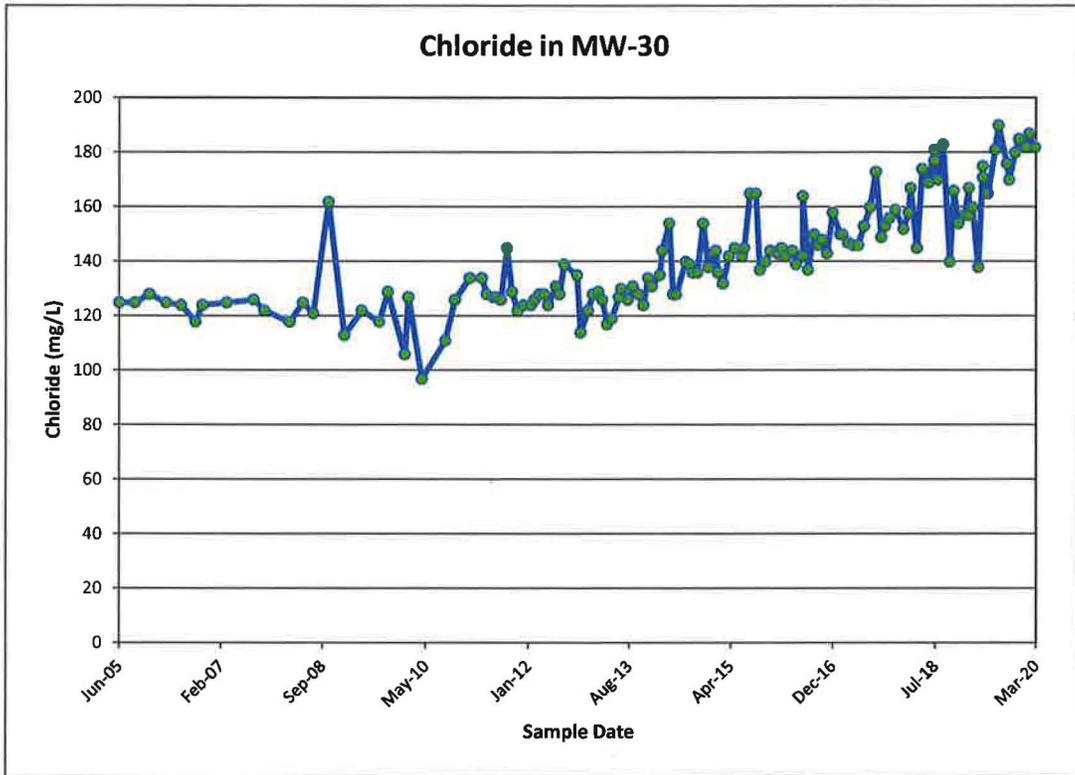
Time concentration plots for MW-29



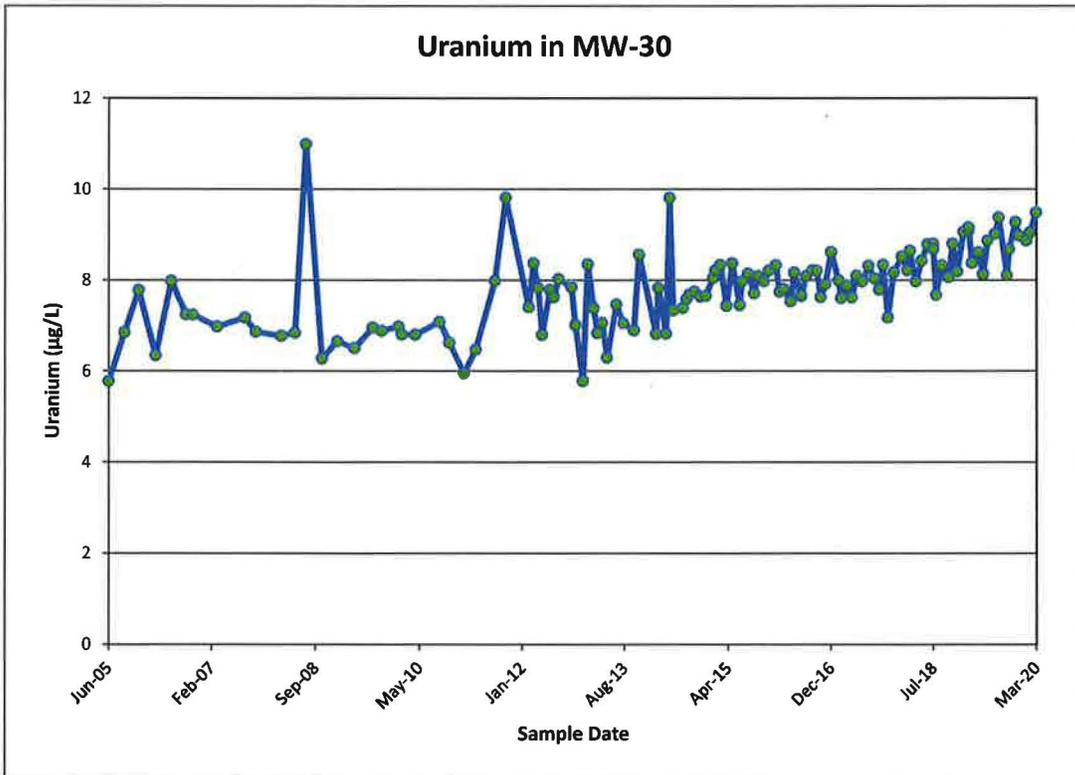
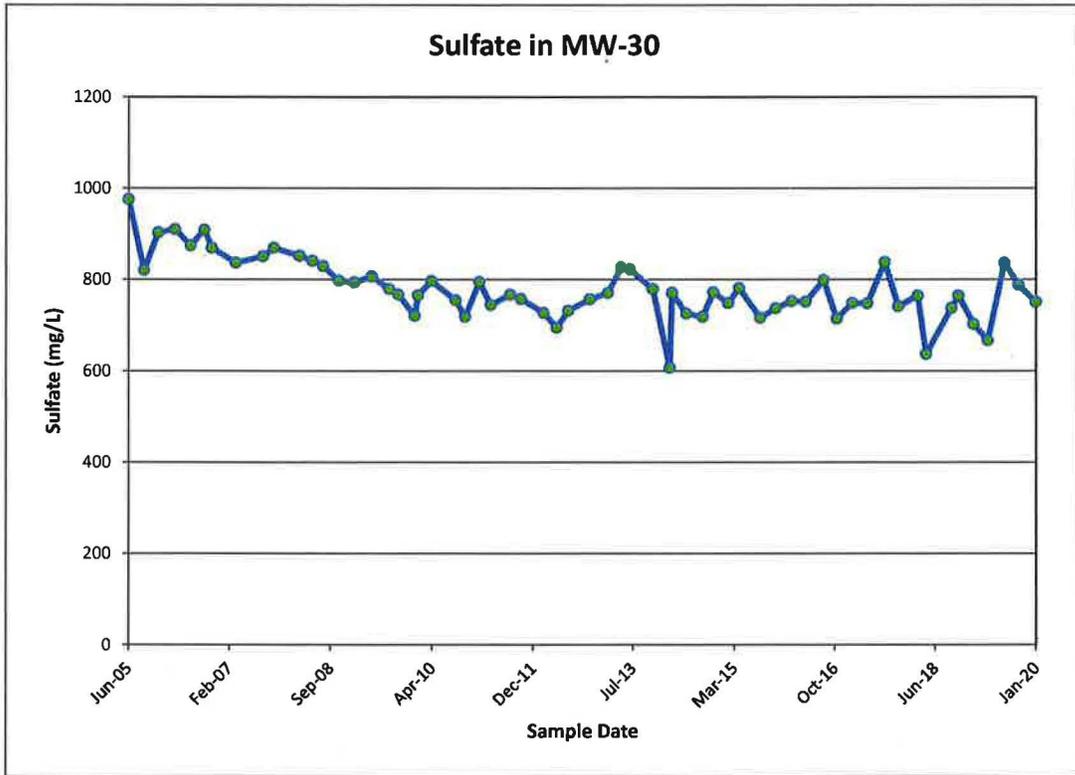
Time concentration plots for MW-29



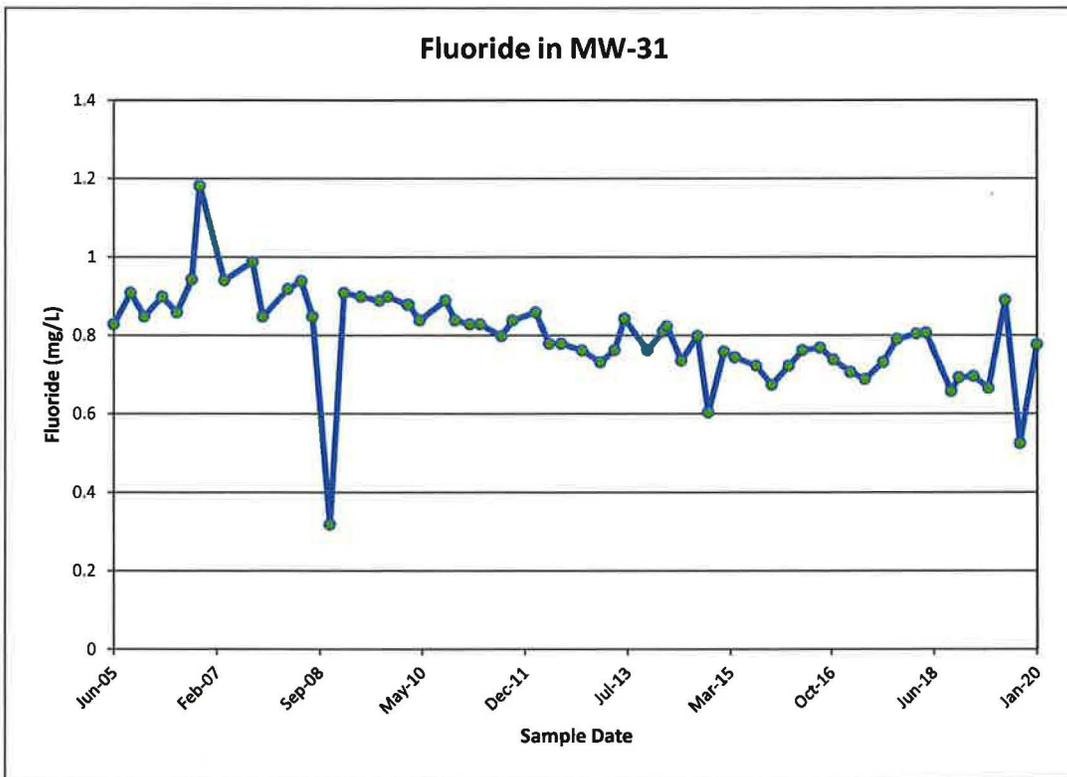
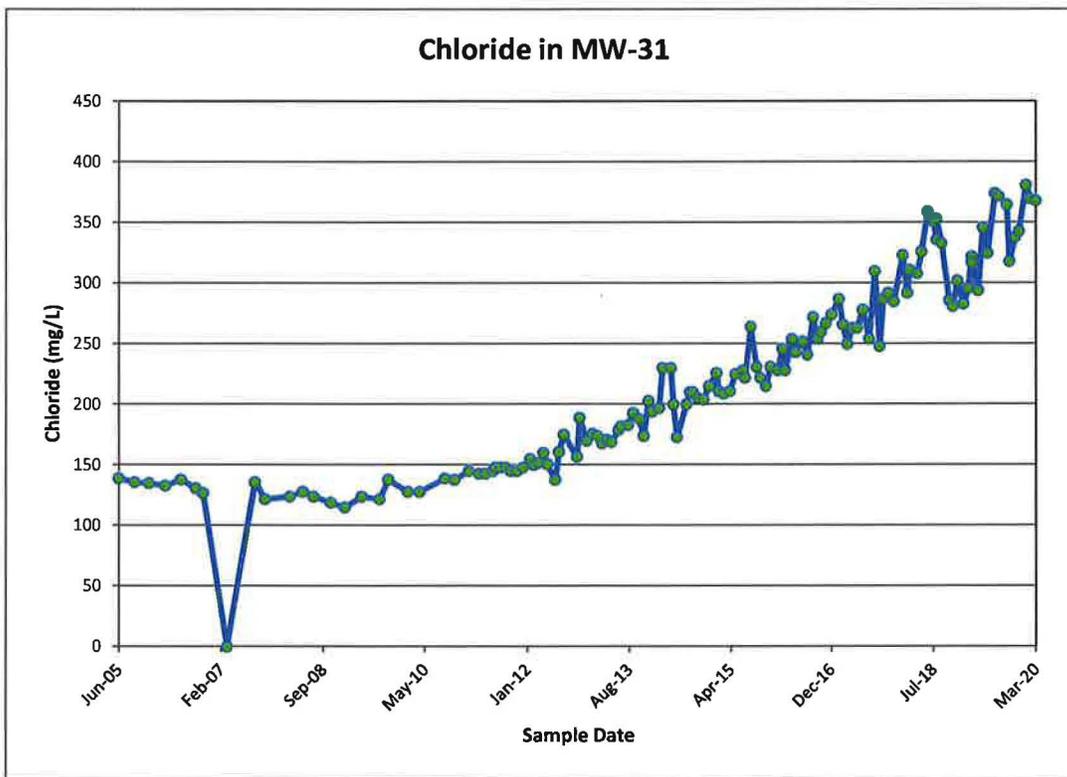
Time concentration plots for MW-30



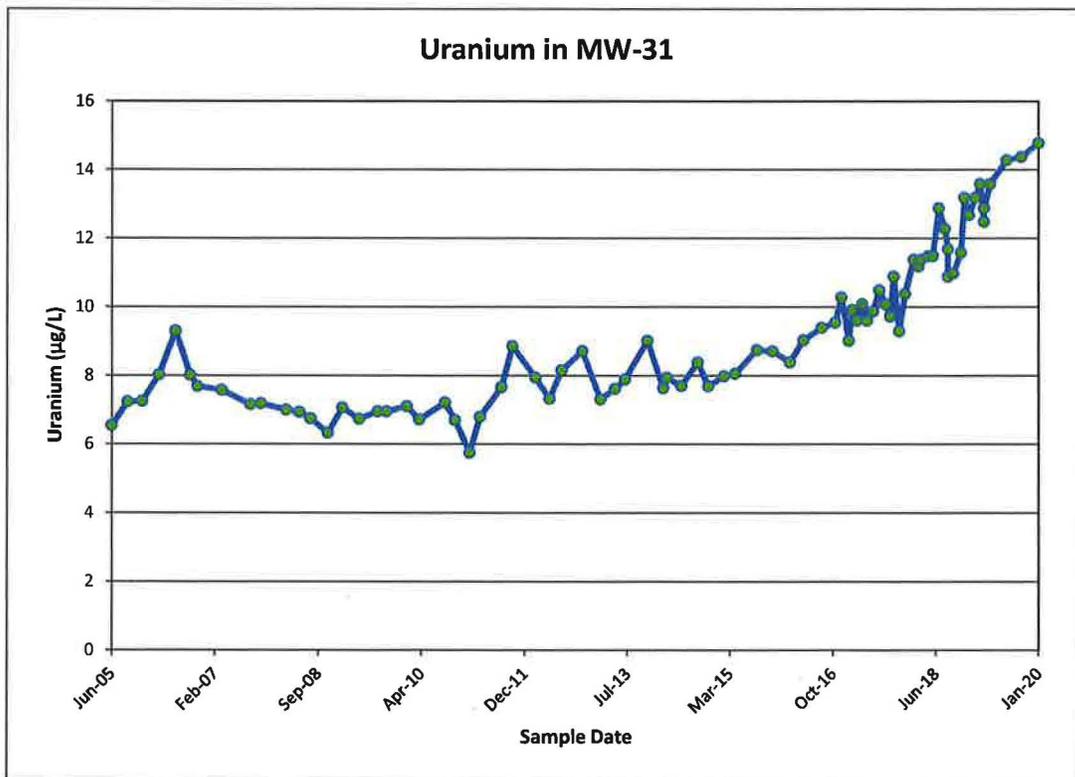
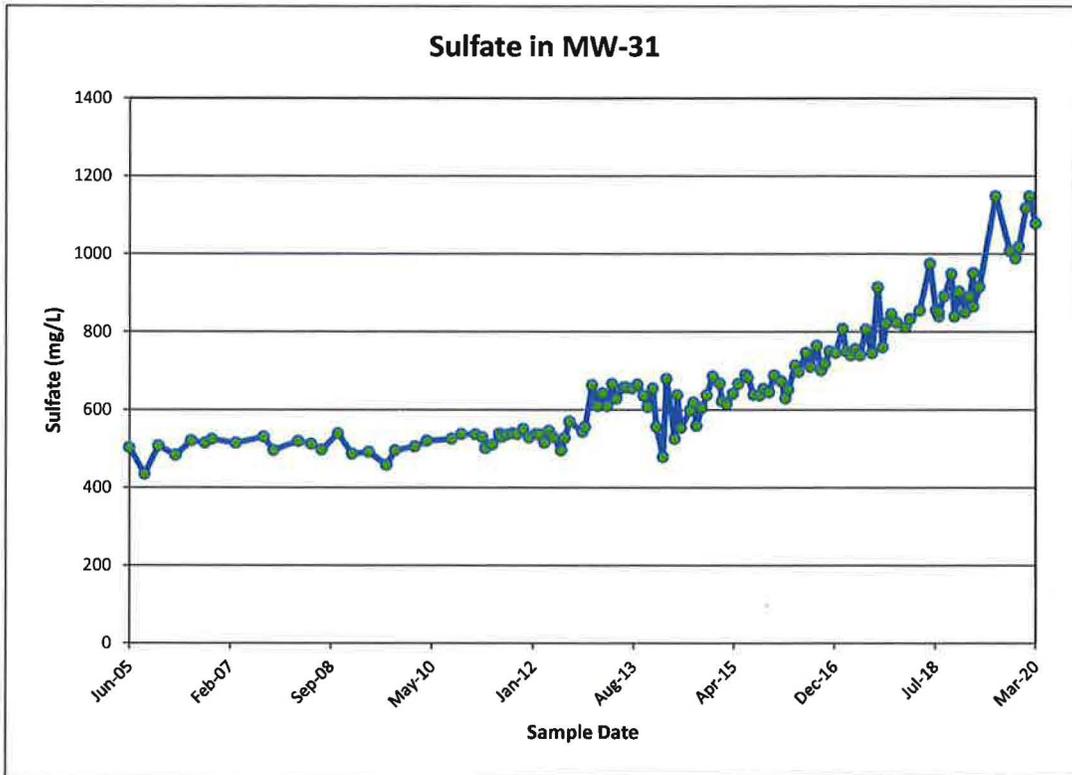
Time concentration plots for MW-30



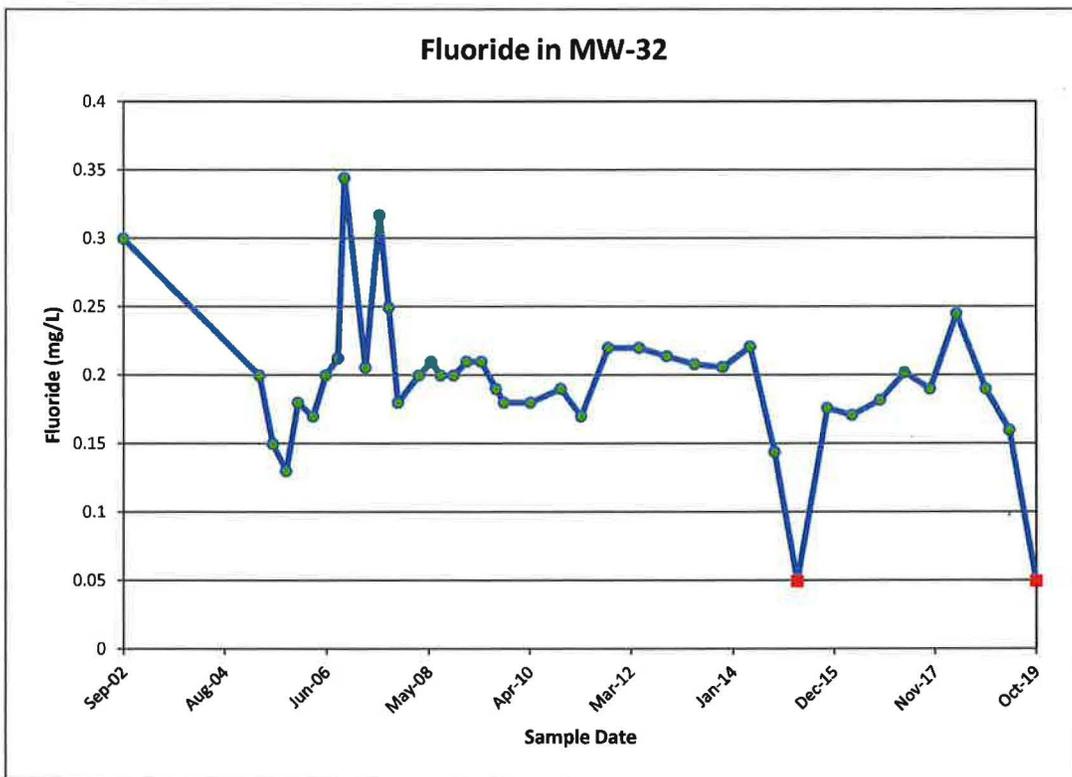
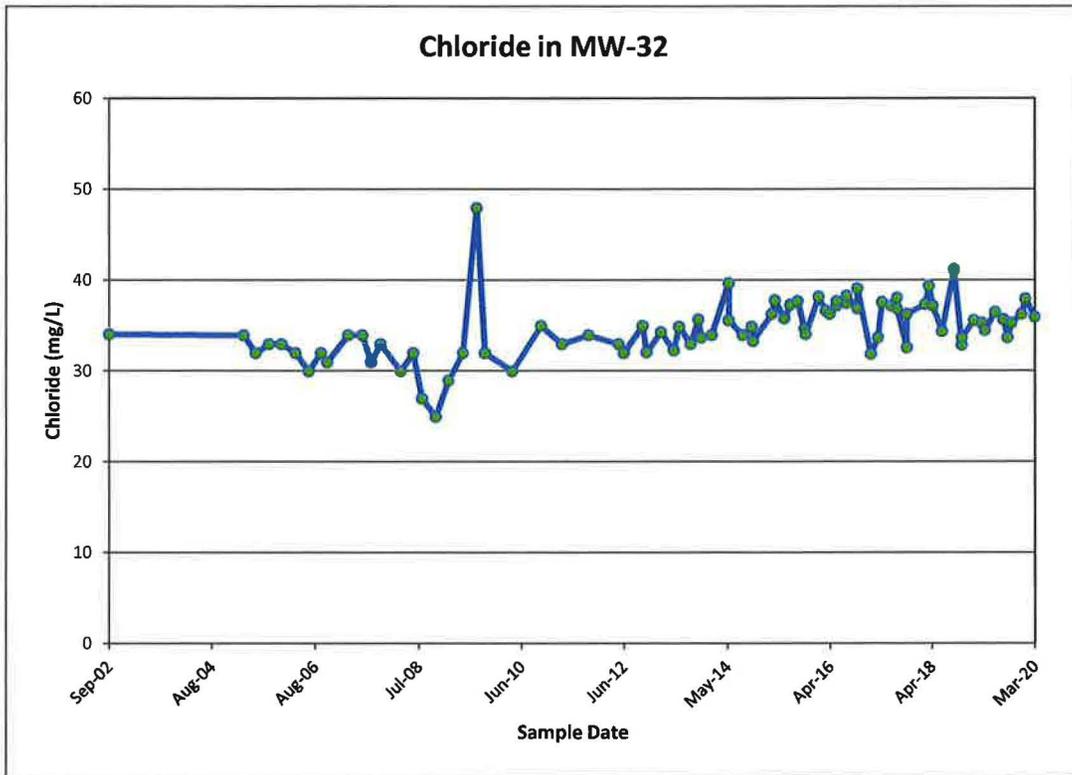
Time concentration plots for MW-31



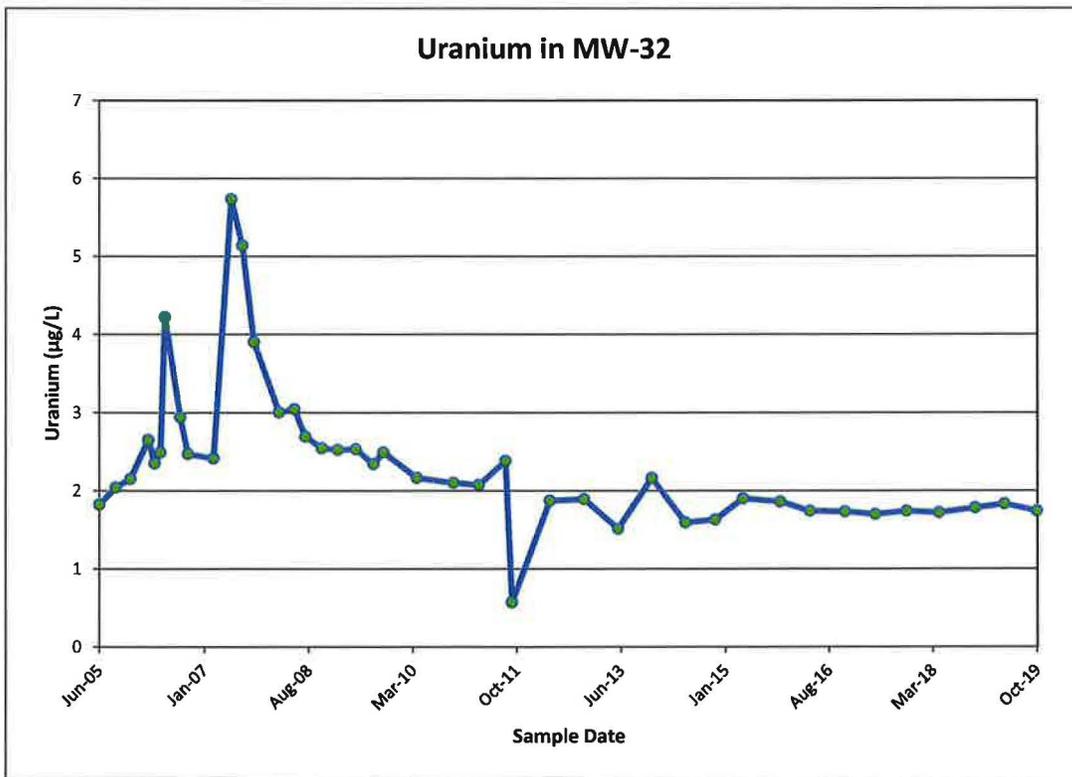
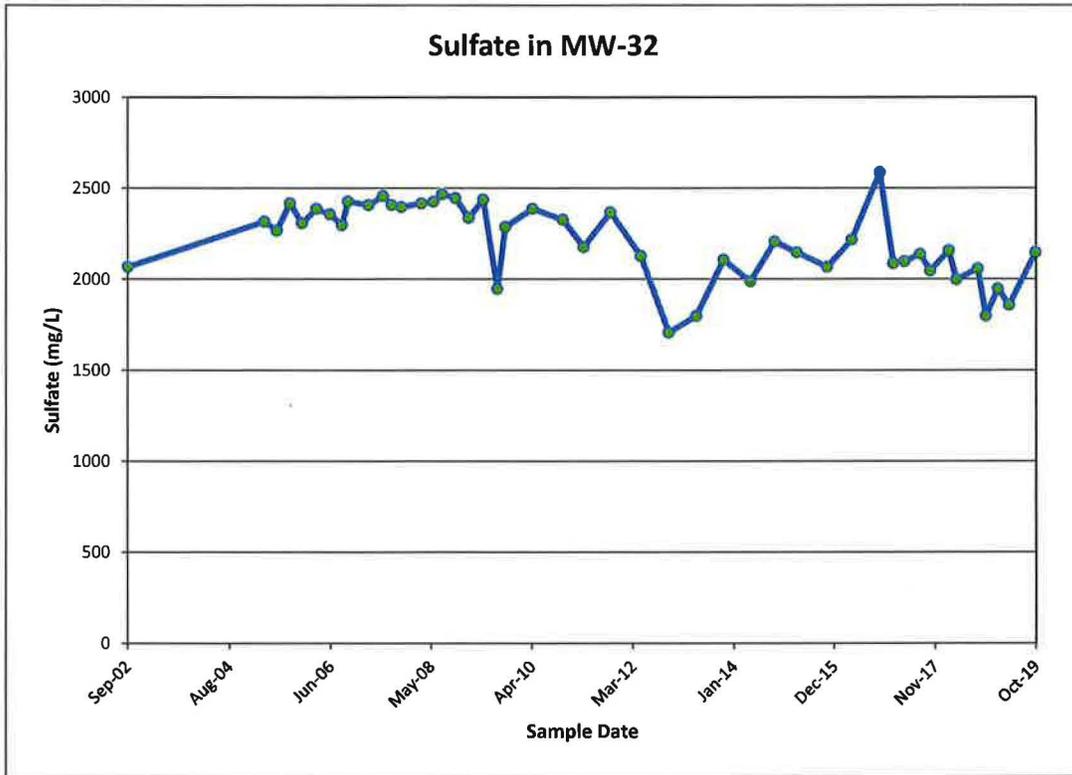
Time concentration plots for MW-31



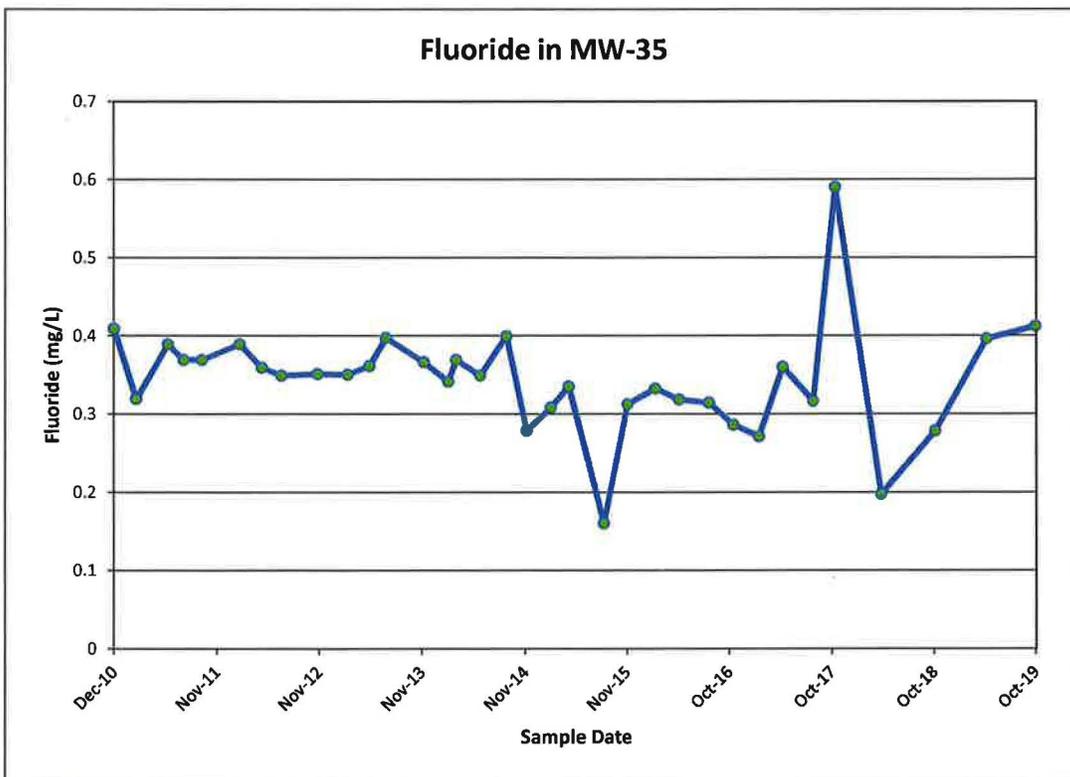
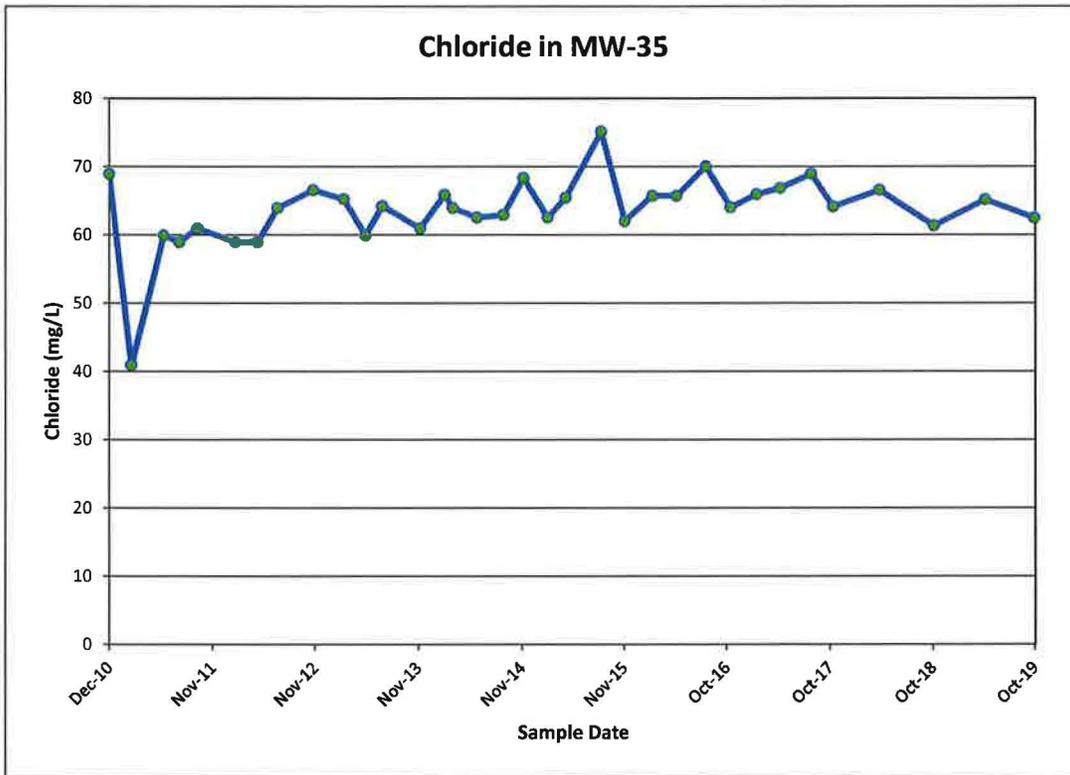
Time concentration plots for MW-32



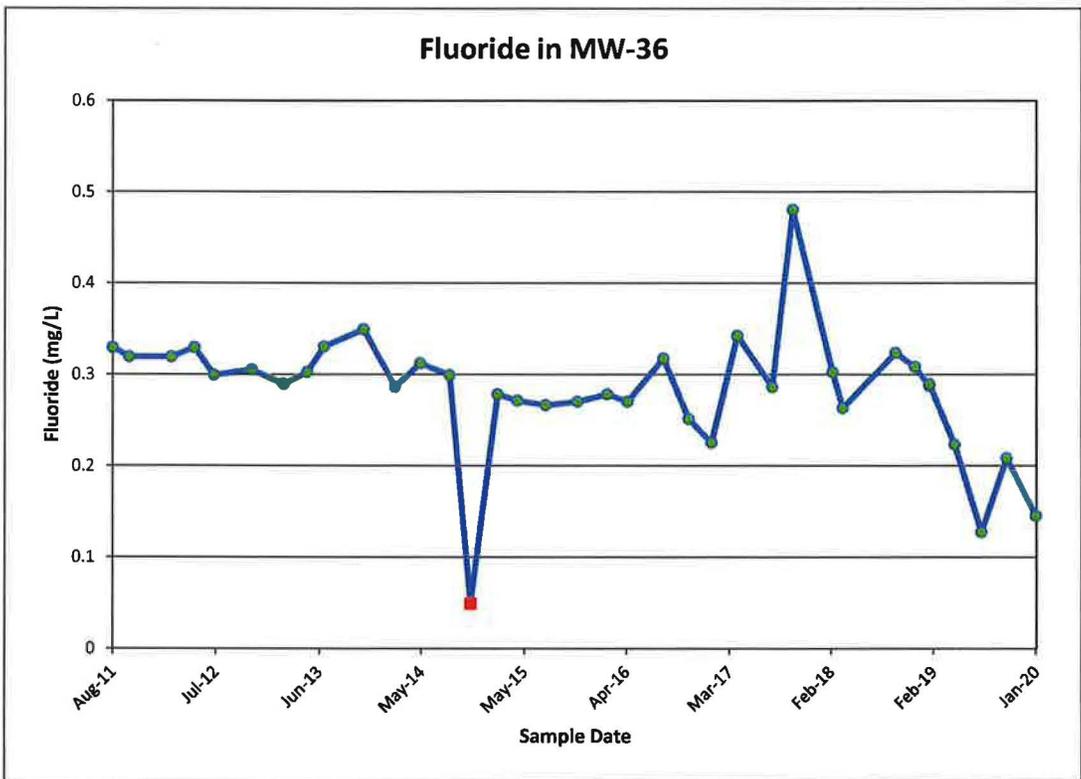
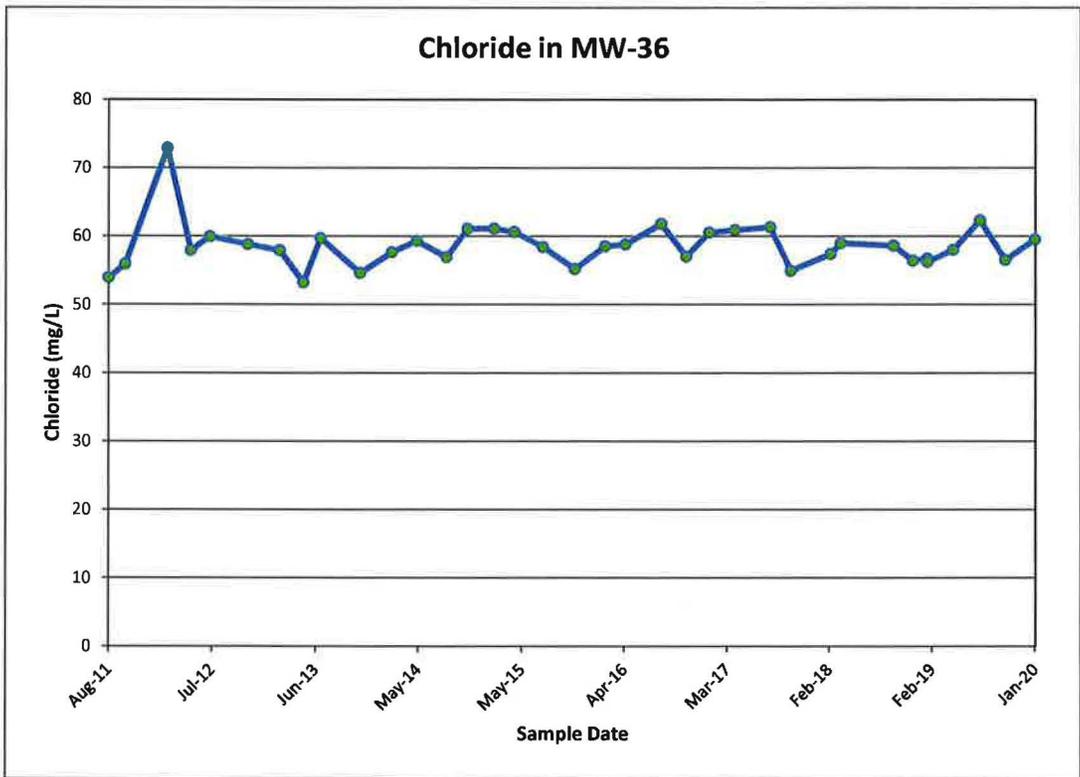
Time concentration plots for MW-32



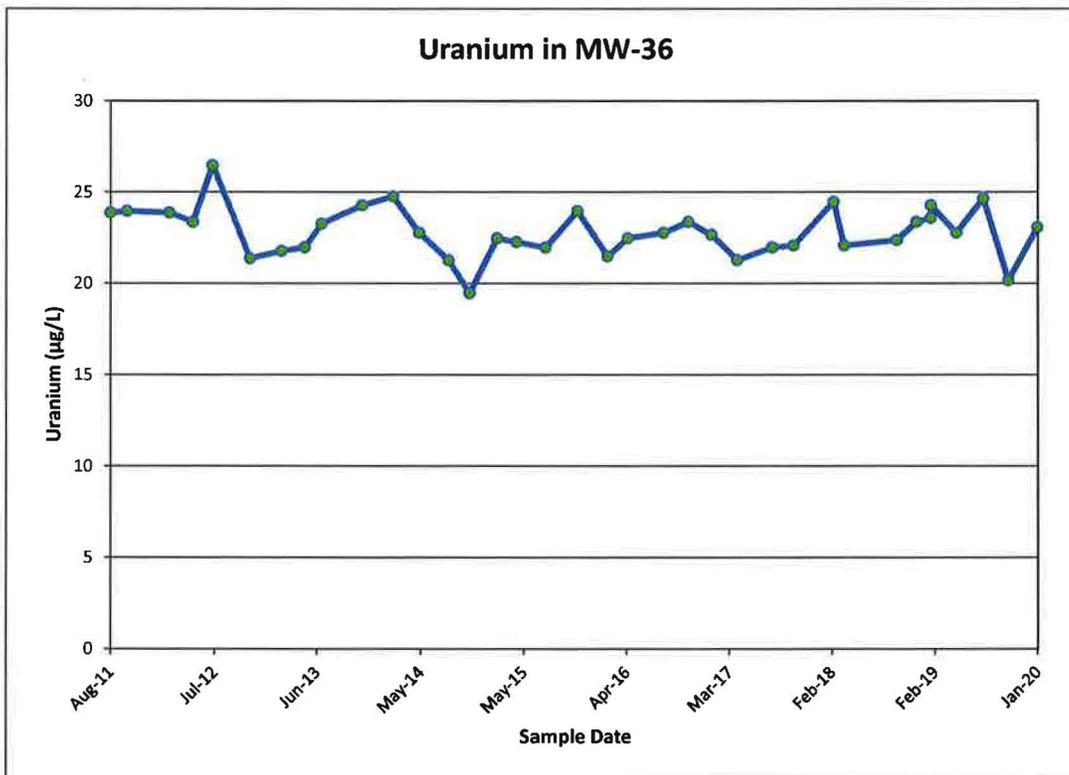
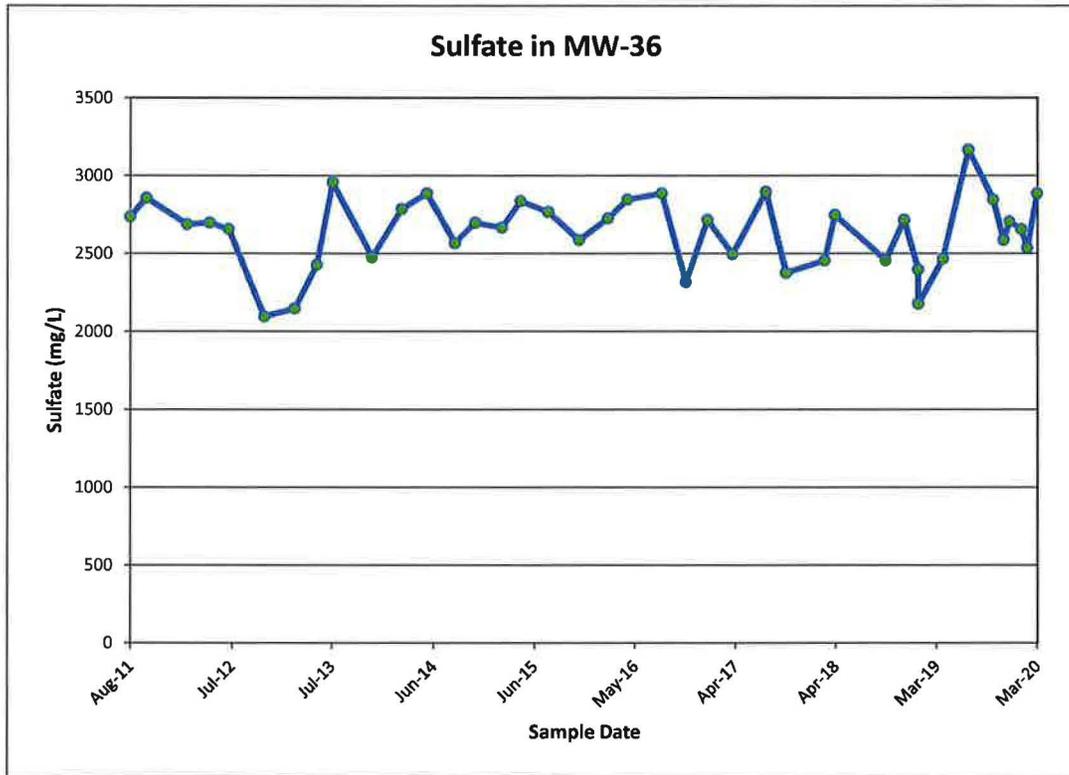
Time concentration plots for MW-35



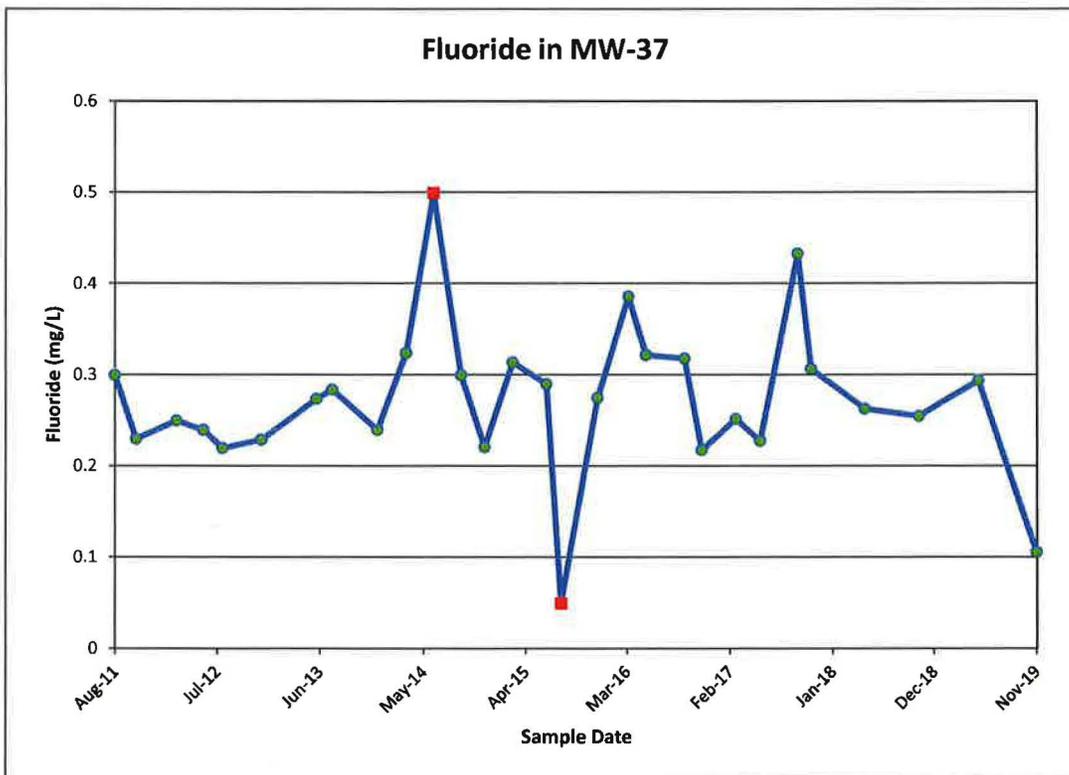
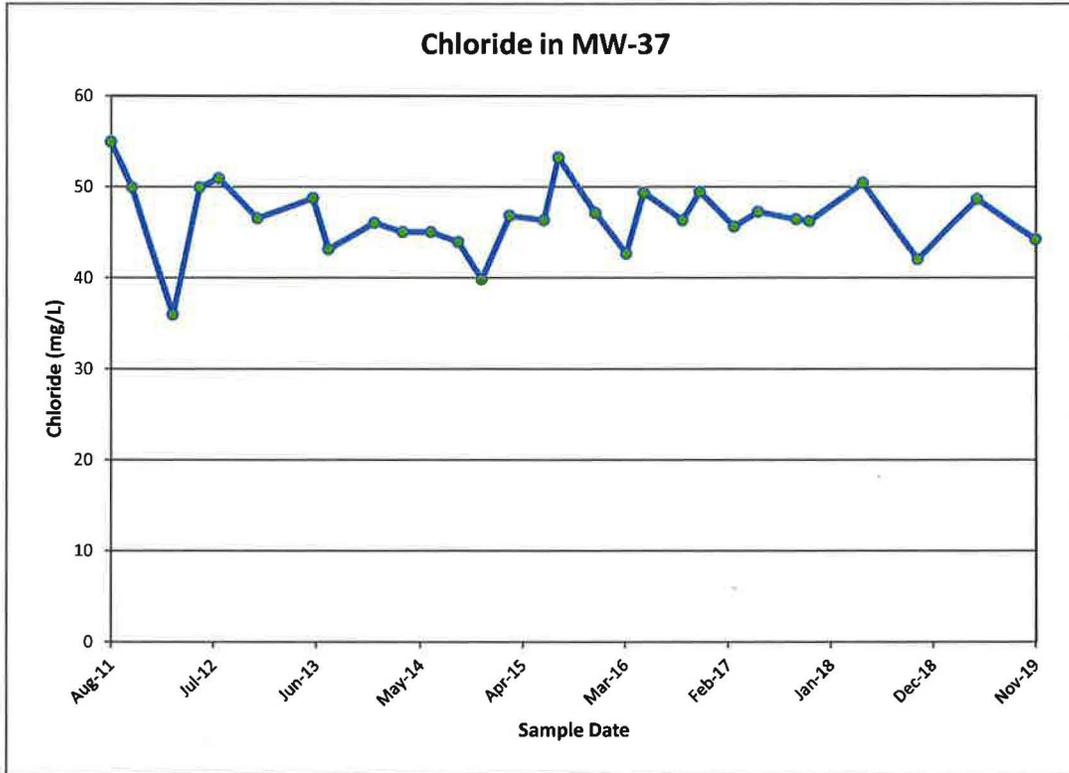
Time concentration plots for MW-36



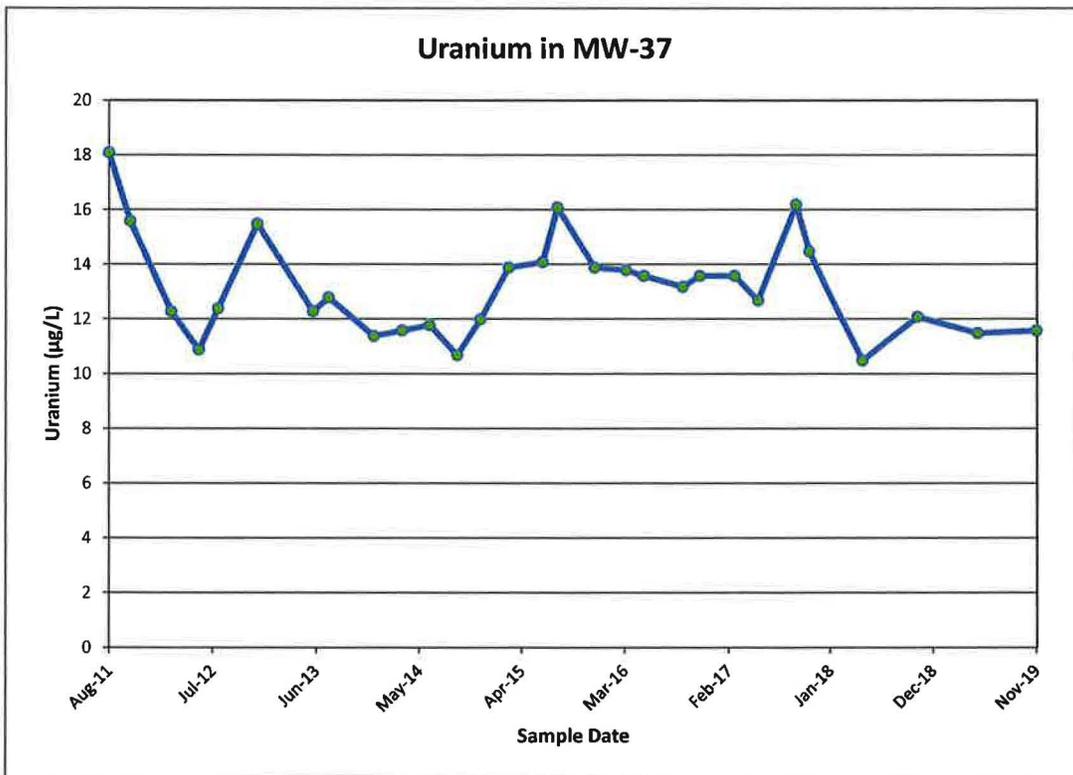
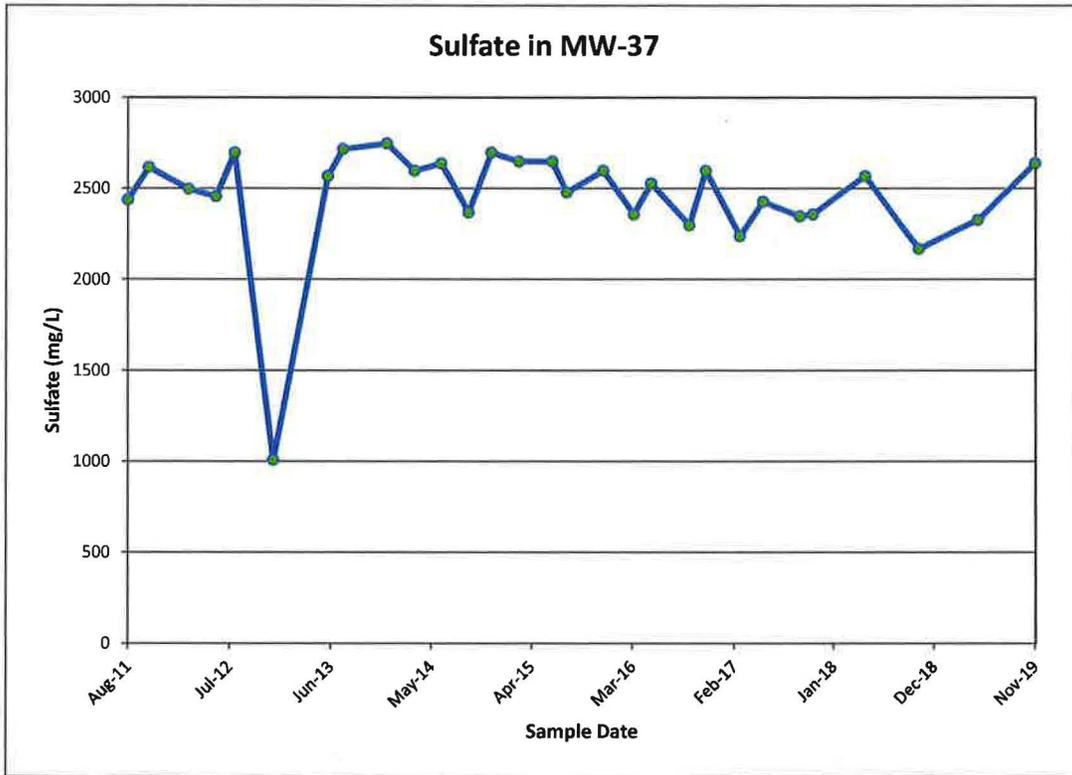
Time concentration plots for MW-36



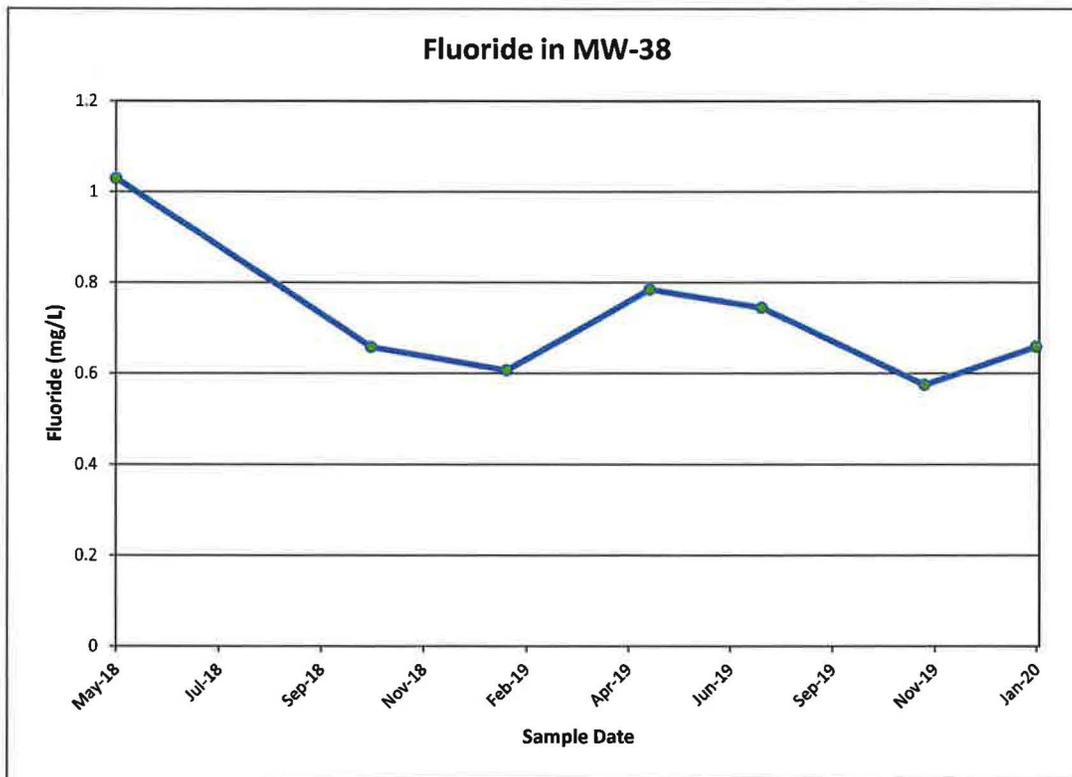
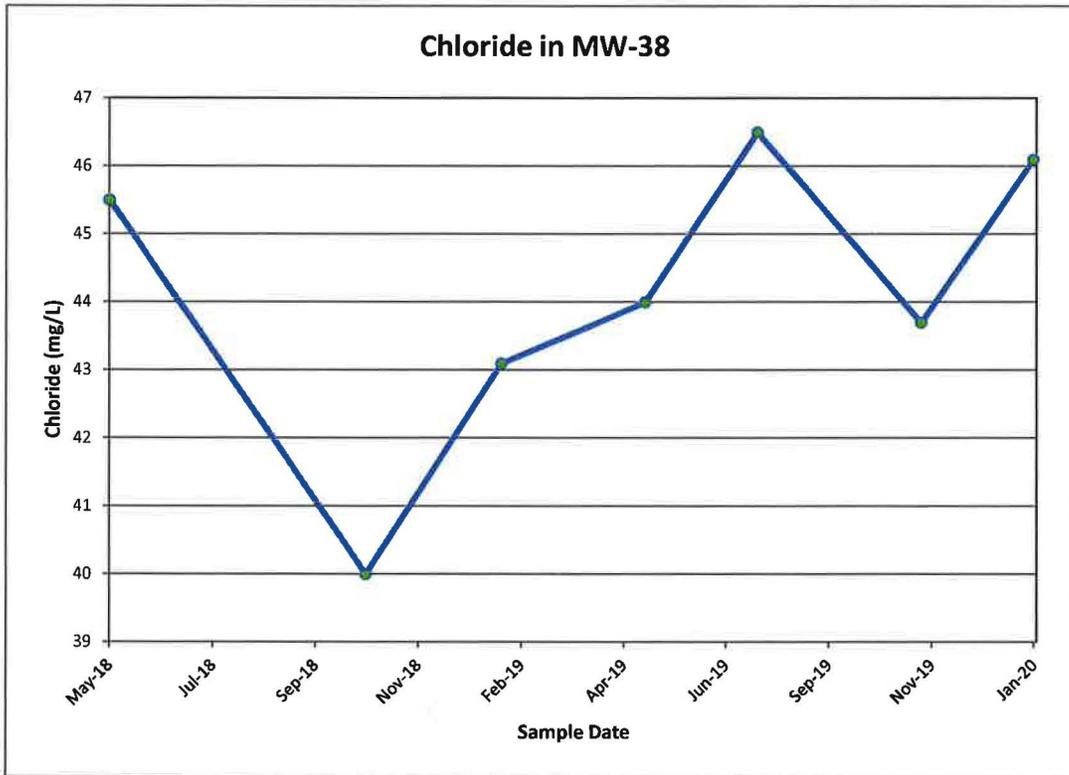
Time concentration plots for MW-37



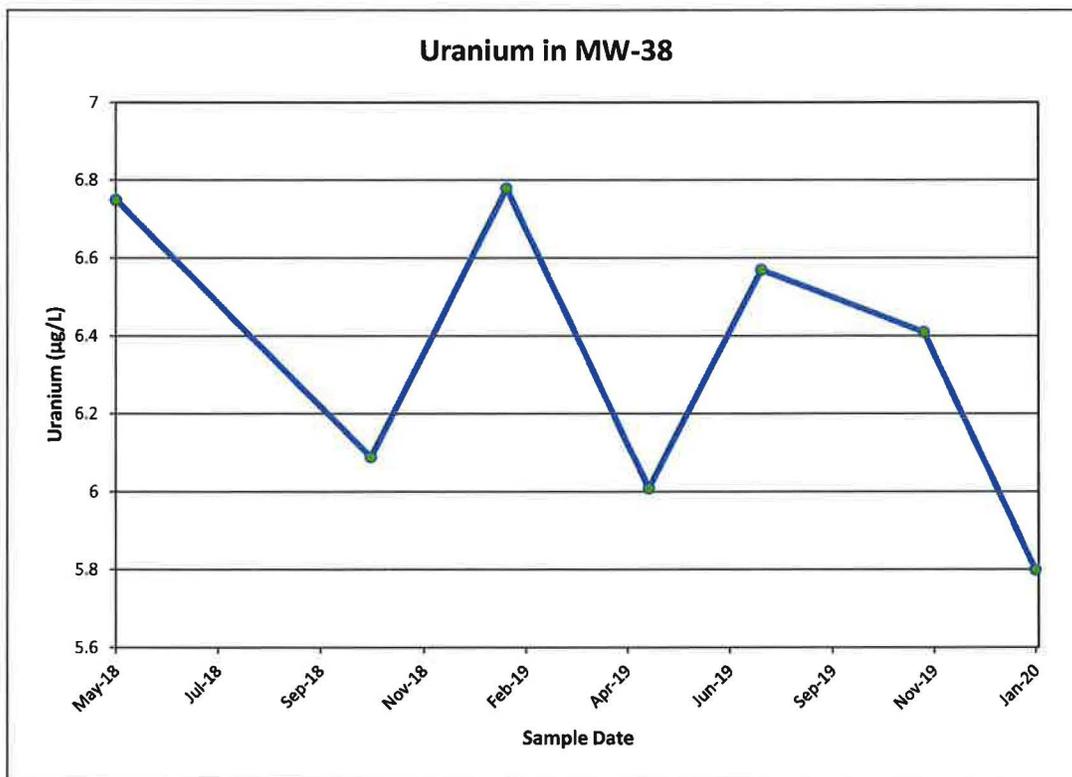
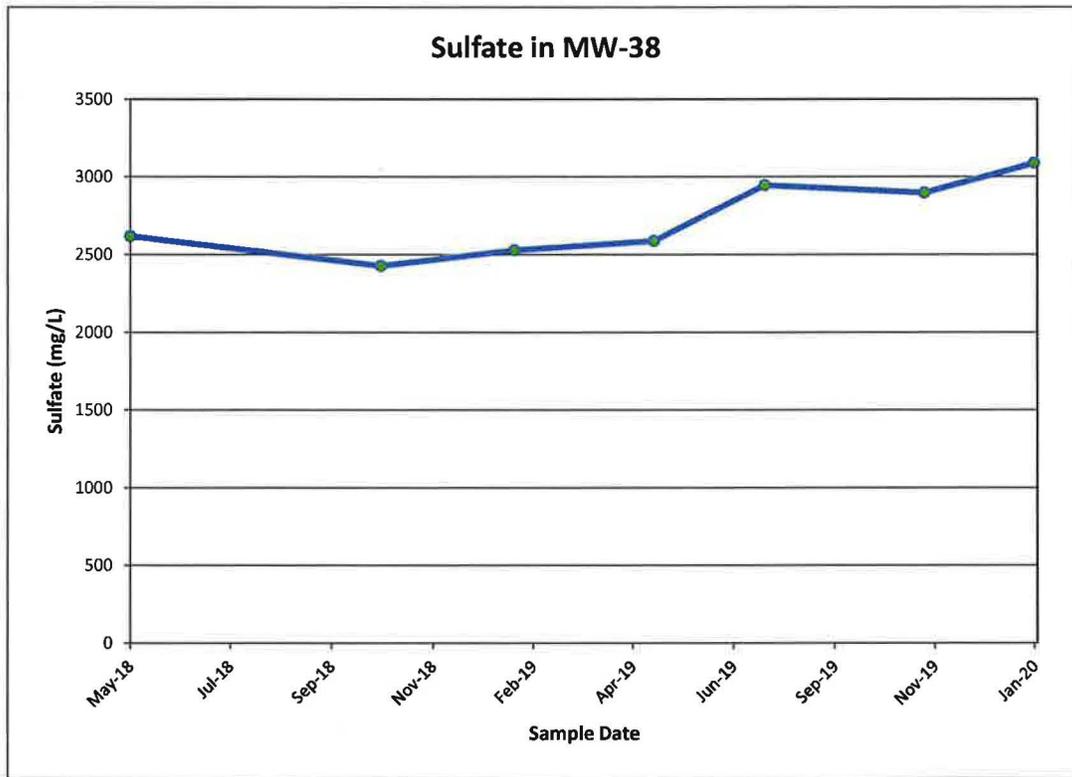
Time concentration plots for MW-37



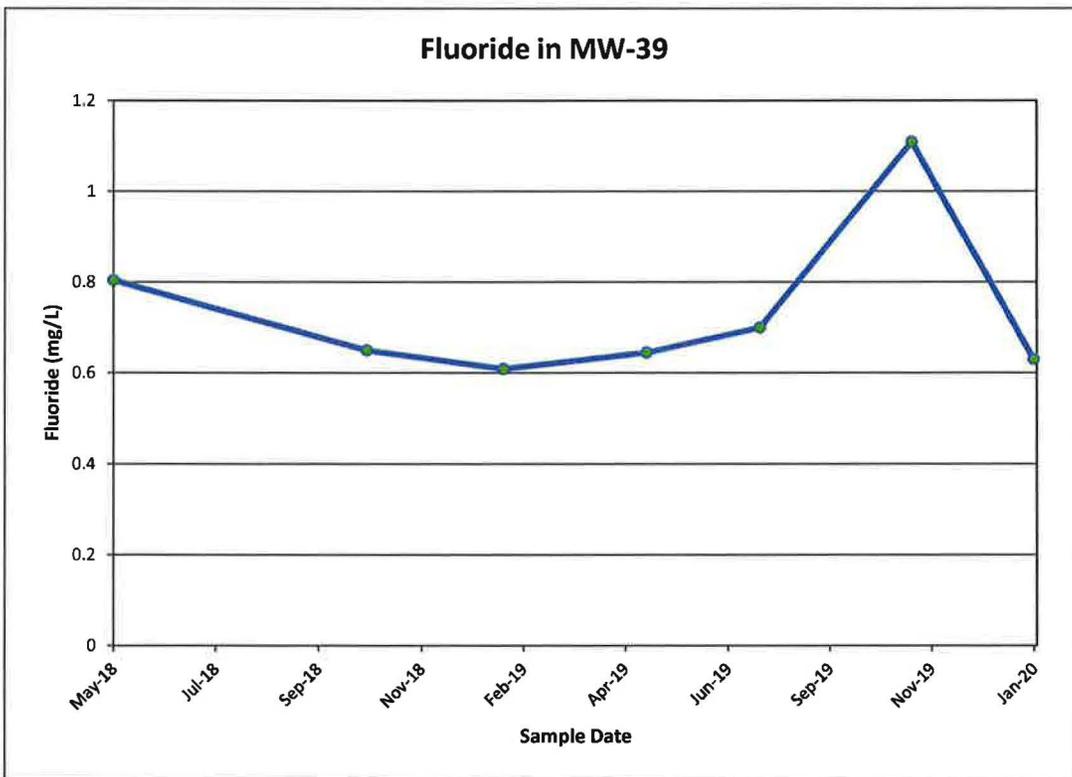
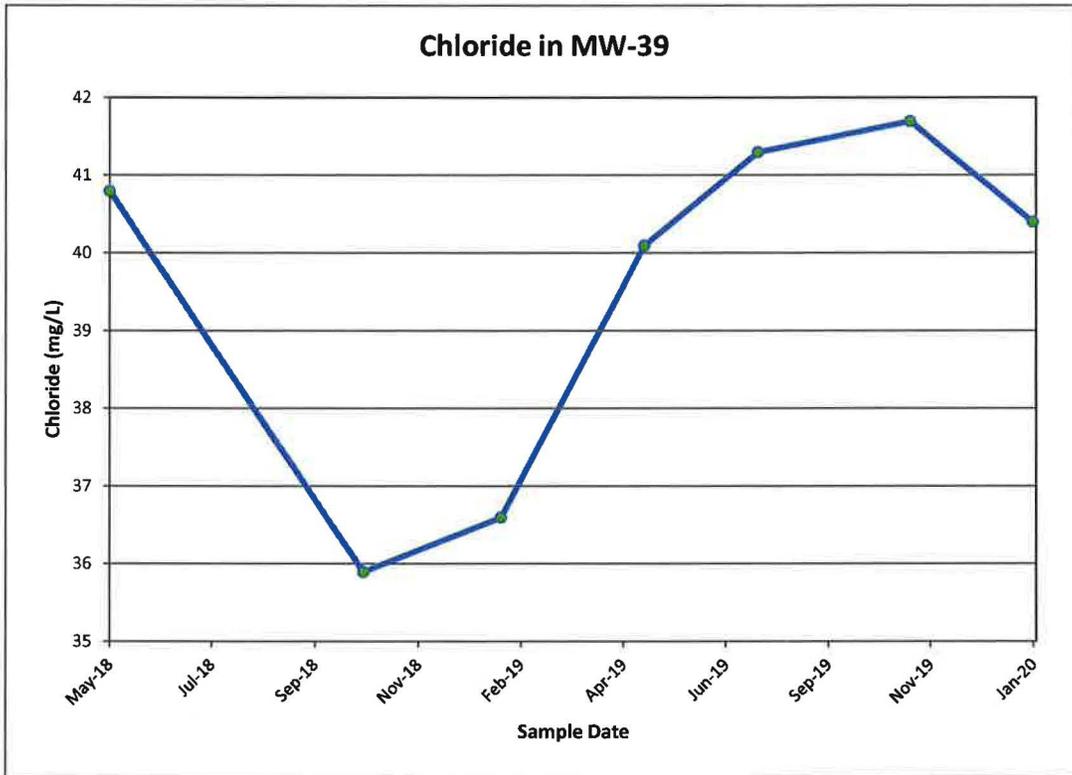
Time concentration plots for MW-38



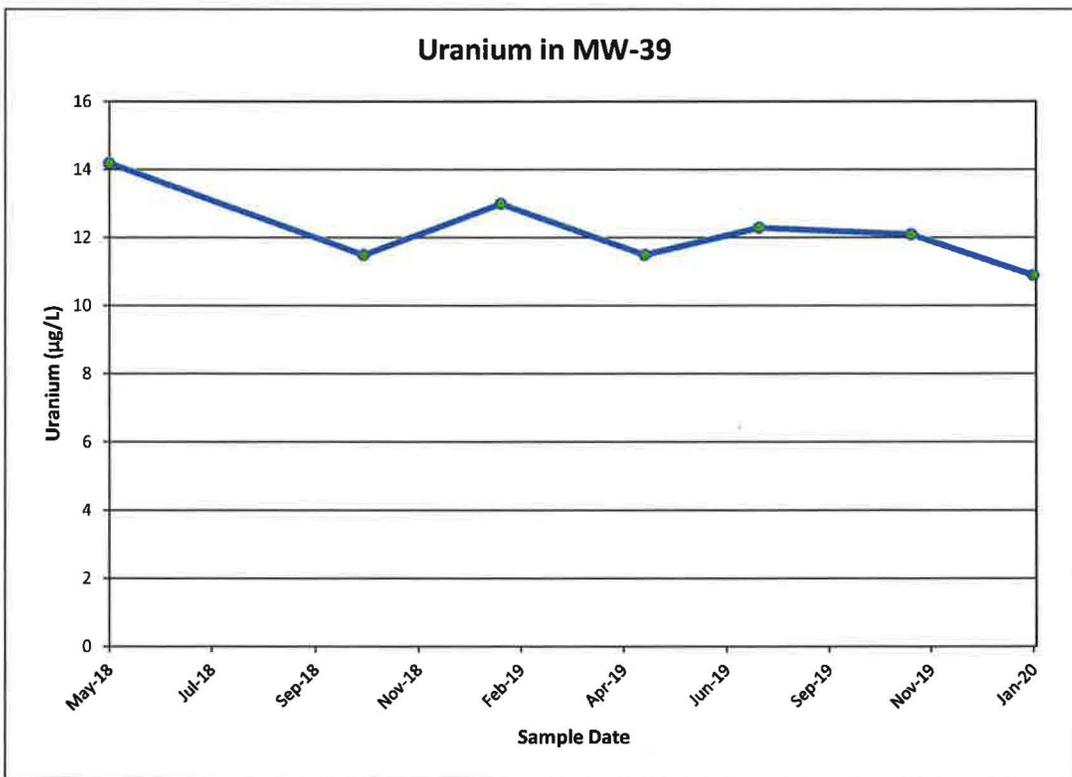
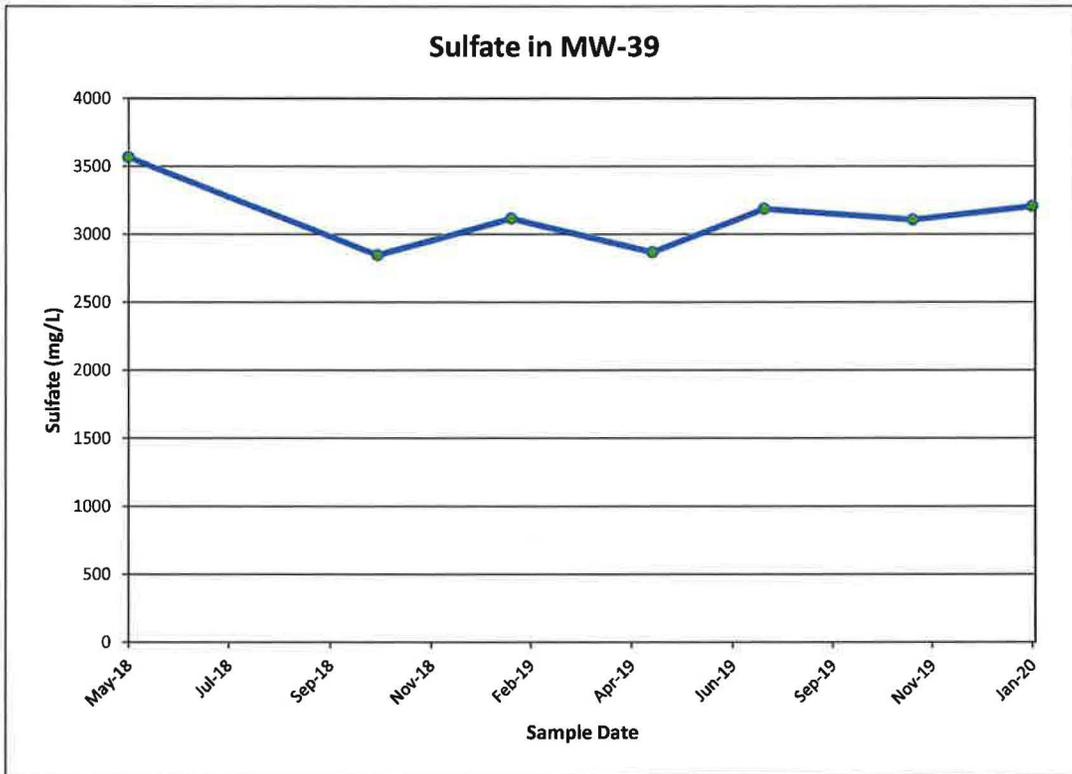
Time concentration plots for MW-38



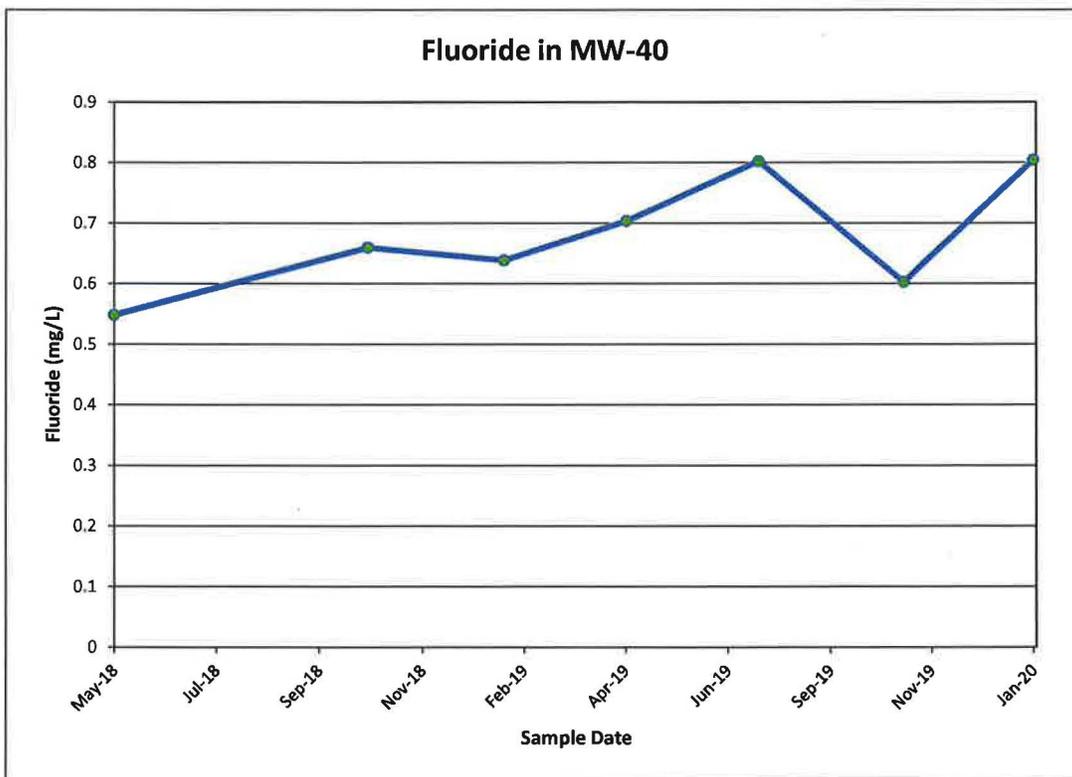
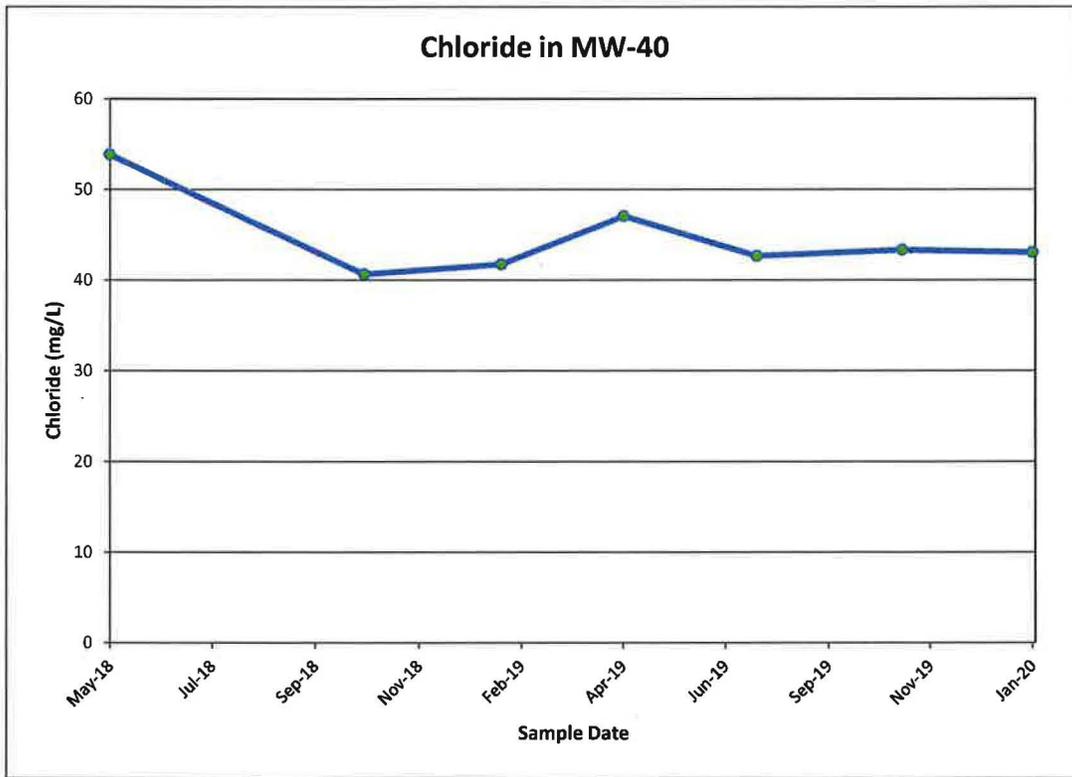
Time concentration plots for MW-39



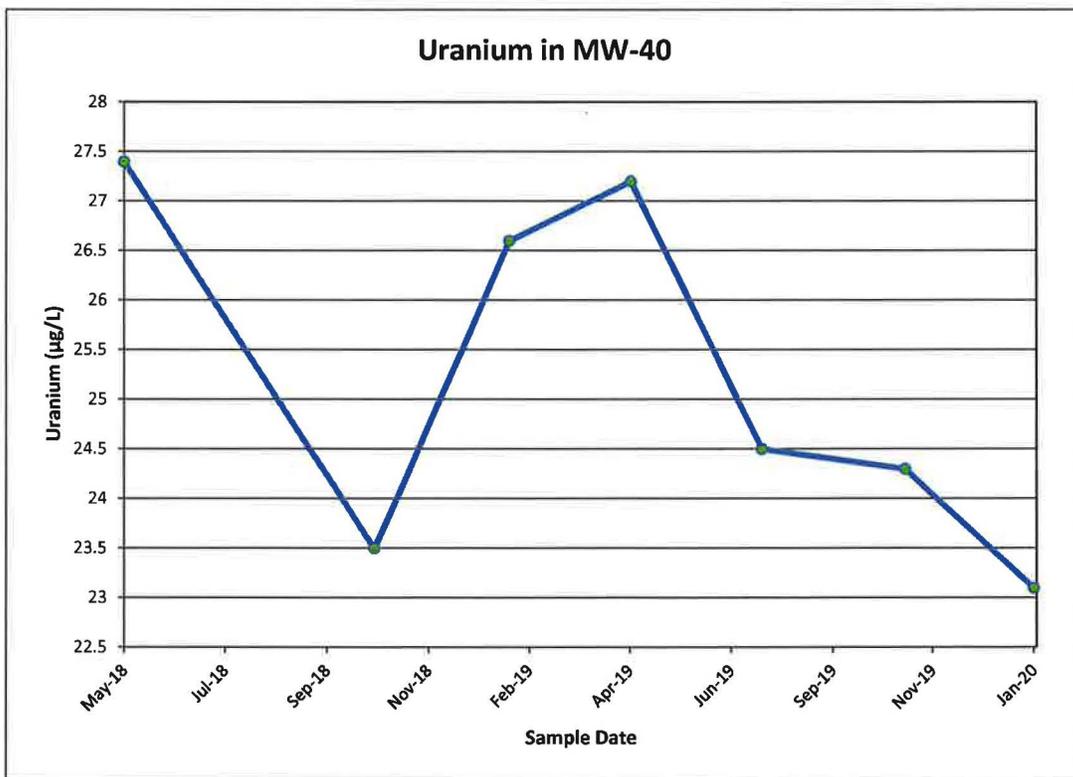
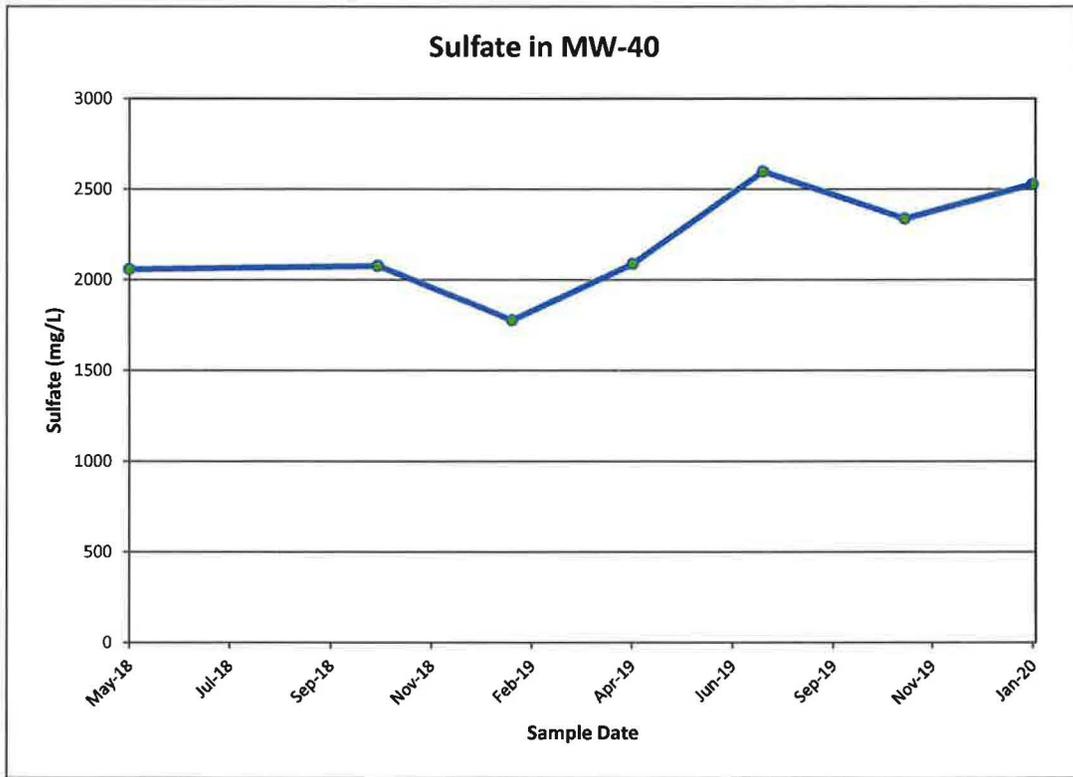
Time concentration plots for MW-39



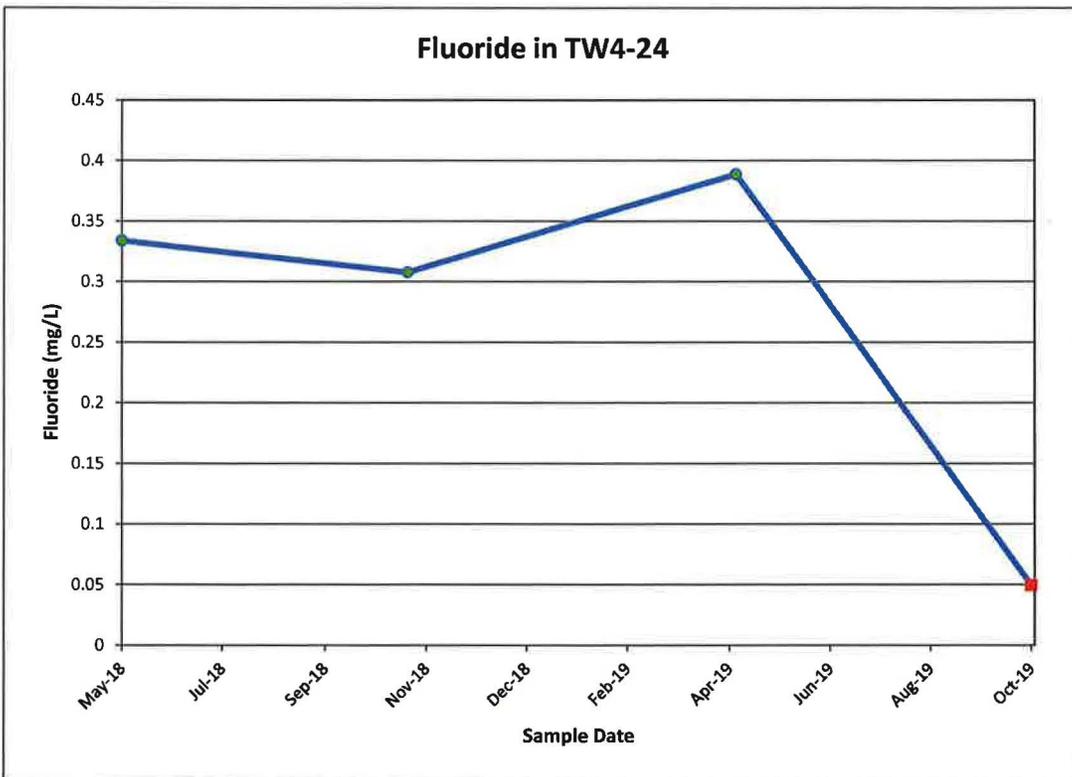
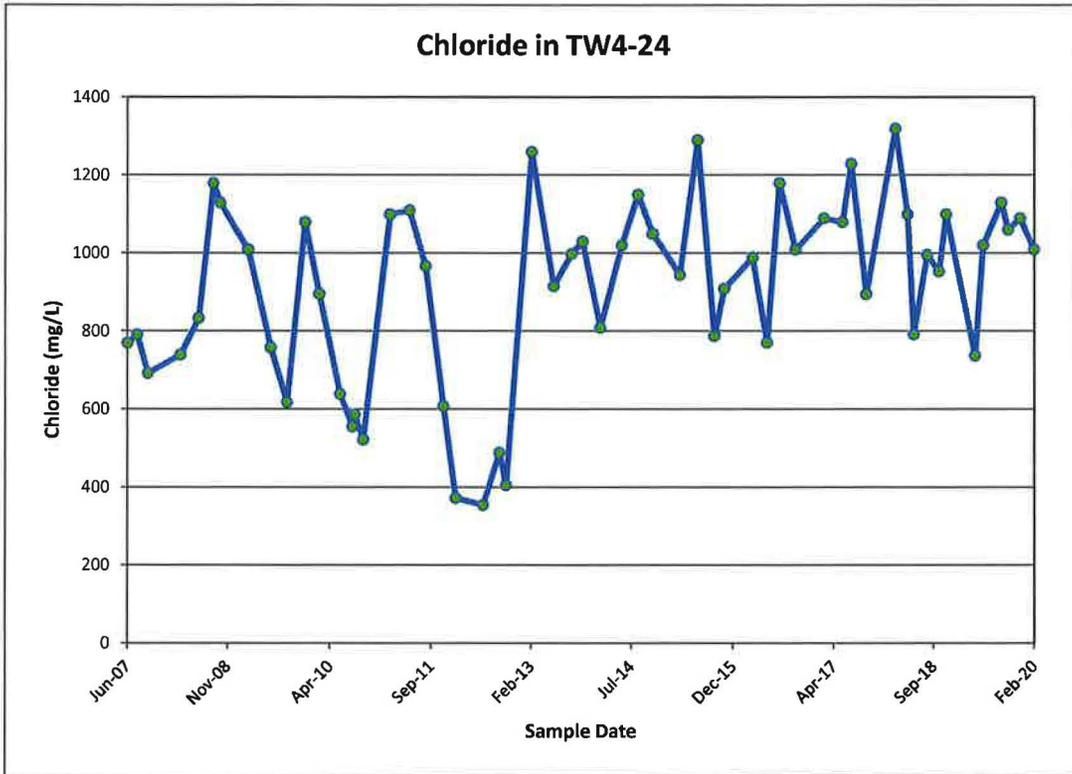
Time concentration plots for MW-40



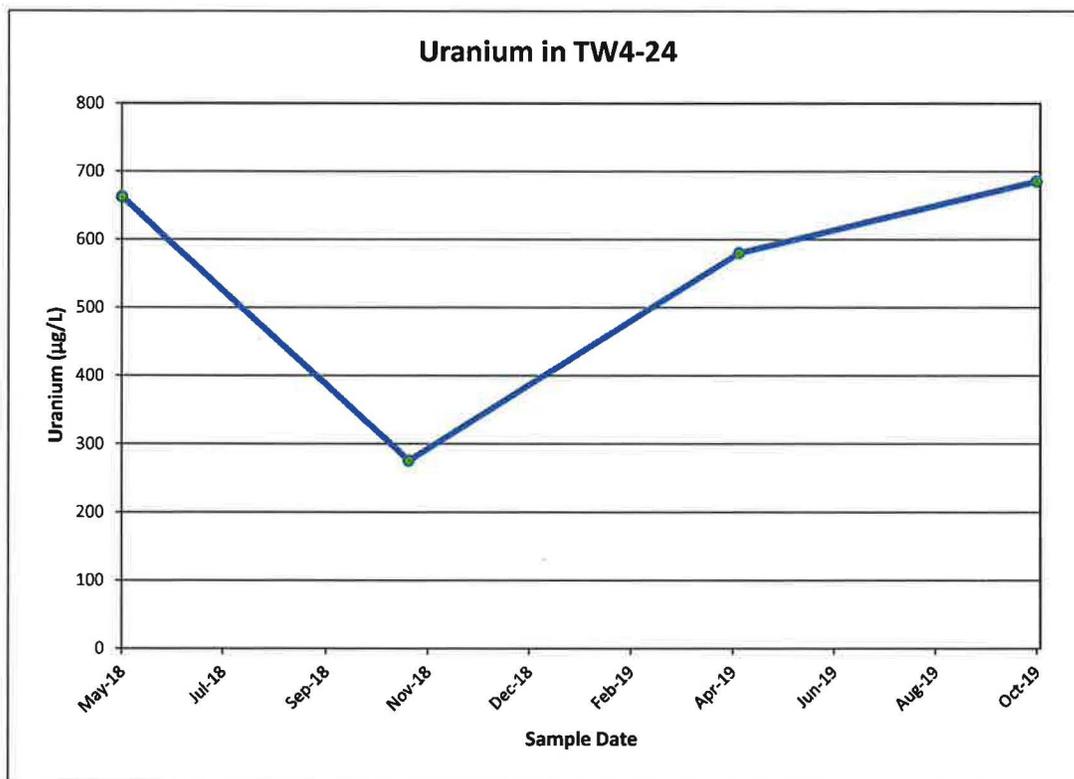
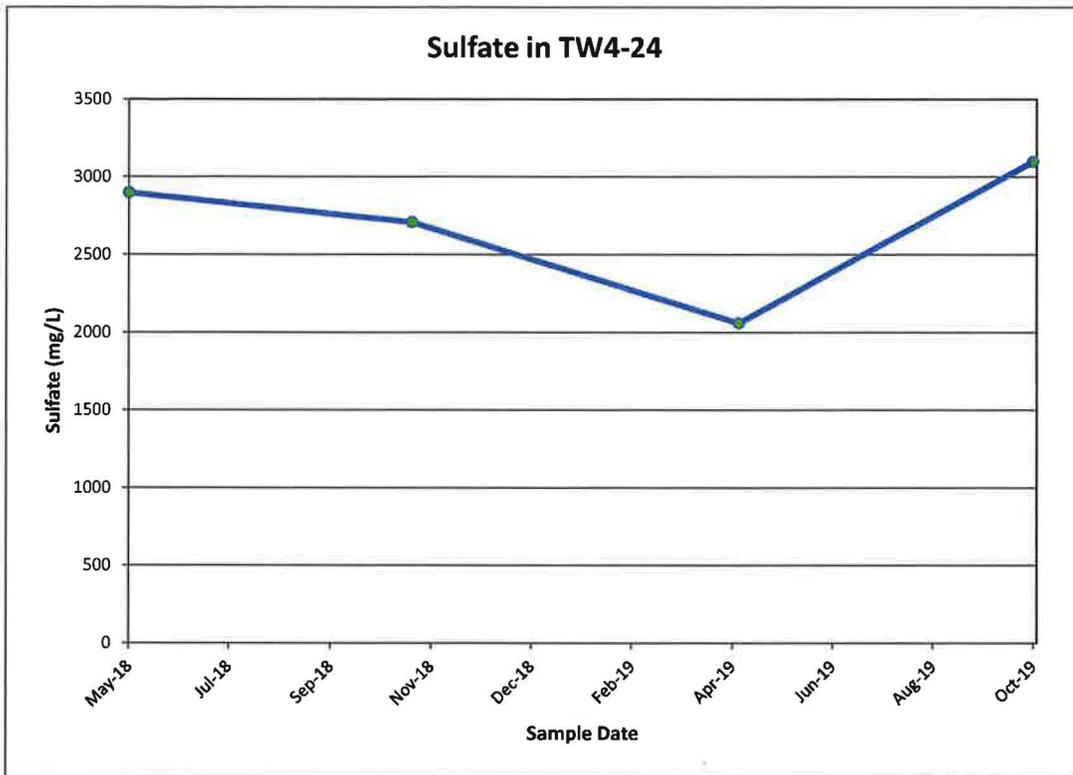
Time concentration plots for MW-40



Time concentration plots for TW4-24



Time concentration plots for TW4-24



Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, May 6, 2020 7:47 AM
To: Phillip Goble
Cc: 'Thomas Rushing'; David Frydenlund; Logan Shumway; Scott Bakken; Terry Slade; Paul Goranson
Subject: Transmittal of CSV Files White Mesa Mill 2020 Q1 Groundwater Monitoring
Attachments: Q1 2020 DTW all programs.csv; Q1 2020 GW Analytical Data.csv; Q1 2020 GW Field Data.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for groundwater monitoring conducted at the White Mesa Mill during the first quarter of 2020, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel



Kathy Weinel
Quality Assurance Manager

t: 303.389.4134 | f: 303.389.4125
225 Union Blvd., Suite 600
Lakewood, CO 80228

<http://www.energyfuels.com>

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