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DRC-2020-018795

Div of Waste Management
and Radiation Control

November 16, 2020

NOV 19 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 3rd 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 3rd 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 that reads 'Kathy Weinel'. The signature is written in a cursive style with a large initial 'K'.

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

cc: David 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

3rd Quarter
(July through September)
2020

Prepared by:



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

November 16, 2020

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	GROUNDWATER MONITORING	1
2.1	Samples and Measurements Taken During the Quarter.....	1
2.1.1	Groundwater Compliance Monitoring.....	1
2.1.2	Accelerated Groundwater Monitoring.....	1
2.1.3	Background Well Monitoring.....	2
2.1.4	Parameters Analyzed	2
2.1.5	Groundwater Head Monitoring.....	2
2.2	Field Data	3
2.3	Laboratory Results - Quarterly Sampling	3
2.3.1	Copy of Laboratory Results	3
2.3.2	Regulatory Framework and Groundwater Background.....	4
2.4	Laboratory Results – Accelerated Monitoring.....	4
2.4.1	Copy of Laboratory Results	4
2.4.2	Regulatory Framework and Groundwater Background.....	5
2.4.3	Compliance Status	5
2.5	Depth to Groundwater and Water Table Contour Map.....	5
3.0	QUALITY ASSURANCE AND DATA VALIDATION	6
3.1	Field QC Samples.....	6
3.2	Adherence to Mill Sampling SOPs	7
3.3	Analyte Completeness Review.....	7
3.4	Data Validation	7
3.4.1	Field Data QA/QC Evaluation	7
3.4.2	Holding Time Evaluation.....	9
3.4.3	Receipt Temperature Evaluation.....	9
3.4.4	Analytical Method Checklist	9
3.4.5	Reporting Limit Evaluation	10
3.4.6	Trip Blank Evaluation.....	10
3.4.7	QA/QC Evaluation for Routine Sample Duplicates	10
3.4.8	Radiologics Counting Error and Duplicate Evaluation	11
3.4.9	Other Laboratory QA/QC	11
4.0	CORRECTIVE ACTION REPORT	14
4.1	Assessment of Corrective Actions from Previous Period	14
5.0	TIME CONCENTRATION PLOTS.....	14
6.0	ELECTRONIC DATA FILES AND FORMAT	14
7.0	SIGNATURE AND CERTIFICATION	15

LIST OF TABLES

Table 1	Summary of Well Sampling for the Period
Table 2	Exceedances and Acceleration Requirements
Table 3	GWCL Exceedances March 2019 to Present

INDEX OF TABS

Tab A Site Plan and Perched Well Locations White Mesa Site

Tab B Field Data Worksheets Quarterly Sampling

Tab C Field Data Worksheets Accelerated Monitoring

Tab D Quarterly Depth to Water

Tab E Laboratory Analytical Reports – Quarterly Sampling

Tab F Laboratory Analytical Reports – Accelerated Monitoring

Tab G Quality Assurance and Data Validation Tables

G-1A/B	Field Data QA/QC Evaluation
G-2A/B	Holding Time Evaluation
G-3A/B	Laboratory Receipt Temperature Check
G-4A/B	Analytical Method Check
G-5A/B	Reporting Limit Evaluation
G-6A/B	Trip Blank Evaluation
G-7A/B	QA/QC Evaluation for Sample Duplicates
G-8A/B	Radiologics Counting Error
G-9A/B	Laboratory Matrix QC

Tab H Kriged Current Quarterly Groundwater Contour Map and Depth Data

Tab I Groundwater Time Concentration Plots

Tab J CSV Transmittal Letter

ACRONYM LIST

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

1.0 INTRODUCTION

This is the Routine Groundwater Monitoring Report, as required under Part I.F.1 of State of Utah Groundwater Discharge Permit No. UGW370004 (the “GWDP”) for the third quarter of 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.

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

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

The statistical methods used for the background assessments and calculation of the GWCLs will be completed as described in the GWDP Part 1.H.3.c.1), as approved by the Utah Division of Waste Management and Radiation Control (“DWMRC”).

Preliminary statistics of the analytical data indicate that there were statistical outliers present in the third quarter 2020 data for MW-38, MW-39 and MW-40 and as a result, there were not 8 statistically valid data points for the GWDP analytes. EFRI presented this information to DWMRC who agreed to delay the completion of the background report until after the fourth quarter 2020 data are collected.

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

2.1.4 Parameters Analyzed

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

2.1.5 Groundwater Head Monitoring

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

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

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

2.2 Field Data

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

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

2.3 Laboratory Results - Quarterly Sampling

2.3.1 Copy of Laboratory Results

Analytical results are provided by two contract analytical laboratories: GEL and 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.

2.5 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, MW-24A and MW-38.

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

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

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

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-251, MW-32 and MW-40. 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-25, and MW-31 in the August monthly event. 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 for the quarterly and accelerated samples reported detections of tetrahydrofuran (“THF”). All of the samples associated with the trip blanks were nondetect for THF. The reported detections of THF in the trip blanks, but not in the associated samples indicates that the trip blanks were contaminated at the laboratory when they were made and the results are not indicative of contamination of the samples during shipping. As such, the data are usable for the intended purpose and there is no effect on the sample analytical results.

The trip blank results associated with the 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 and ammonia in MW-39/MW-65. The fluoride and ammonia 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 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-40 does not have a GWCL and this second level check cannot be performed. The results are usable for the intended purpose and there is no adverse effects 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 are included in the analytical data.

The information from the Laboratory QA/QC Summary Reports indicates that there were Continuing Calibration Verification ("CCV) samples outside of the laboratory acceptance limits.

A high CCV recovery for carbon tetrachloride was reported in data package 2007367. The CCV recovery affected samples MW-24, MW-38, MW-39, MW-40, MW-65 (duplicate of MW-39) and the trip blank. The data were flagged in accordance with the changes specified in EPA Method 8260D. None of the affected samples reported a detection of carbon tetrachloride and do not adversely affect the data. The data are usable for the intended purpose because the high CCV recovery is indicative of a high bias to the sample results. A high bias results in a more conservative data application. EFRI does not believe the data quality has been affected.

A high CCV recovery for naphthalene was reported in data package 2007288. The CCV recovery affected sample MW-30. The data were flagged in accordance with the changes specified in EPA Method 8260D. MW-30 did not have a reported detection of naphthalene and does not adversely affect the data. The data are usable for the intended purpose because the high CCV recovery is indicative of a high bias to the sample results. A high bias results in a more conservative data application. EFRI does not believe the data quality has been affected.

A low CCV recovery for chloromethane was reported in data package 2007288. The CCV recovery affected samples MW-11, MW-14, MW-24A, MW-25, MW-26, MW-31, MW-36, and the trip blank. The data were flagged in accordance with the changes specified in EPA Method 8260D. The flagging requirements are new to the revised method and do not adversely affect the data. The data are usable for the intended purpose because chloromethane is not frequently detected. Further, the wells listed above do not have recent historical detections of chloromethane and the nondetect data are likely accurate.

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: 2020.11.16 15:58:11 -07'00'

Scott A. Bakken
Vice President, Regulatory Affairs

Date

Certification:

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

Scott Bakken

Digitally signed by Scott Bakken
Date: 2020.11.16 15:58:35
-07'00'

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

INDEX OF TABS

- Tab A Site Plan and Perched Well Locations White Mesa Site
- Tab B Field Data Worksheets Quarterly Sampling
- Tab C Field Data Worksheets Accelerated Monitoring
 - Tab C1 Field Data Worksheets Accelerated Monitoring, August 2020
 - Tab C2 Field Data Worksheets Accelerated Monitoring, September 2020
- Tab D Quarterly Depth to Water
- Tab E Laboratory Analytical Reports – Quarterly Sampling
- Tab F Laboratory Analytical Reports – Accelerated Monitoring
 - Tab F1 Laboratory Analytical Reports – Accelerated Monitoring, August 2020
 - Tab F2 Laboratory Analytical Reports – Accelerated Monitoring, September 2020
- Tab G Quality Assurance and Data Validation Tables
 - G-1A/B Field Data QA/QC Evaluation
 - G-2A/B Holding Time Evaluation
 - G-3A/B Laboratory Temperature Check
 - G-4A/B Analytical Method Check
 - G-5A/B Reporting Limit Evaluation
 - G-6A/B Trip Blank Evaluation
 - G-7A/B QA/QC Evaluation for Sample Duplicates
 - G-8 A/B Radiologics Counting Error
 - G-9A/B Laboratory Matrix QC
- Tab H Kriged Current Quarterly Groundwater Contour Map
- Tab I Groundwater Time Concentration Plots
- Tab J CSV Transmittal Letter

Tables

Table 1: Summary of Well Sampling for Q3 2020

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-11	Quarterly	Quarterly	7/7/20	(8/5/20) [8/10/20]
MW-12	Semi-annually	Semi-annually	7/8/20	(8/5/20)
MW-14	Quarterly	Quarterly	7/6/20	(8/5/20) [8/10/20]
MW-24	Semi-annually	Semi-annually	7/10/20	(8/5/20) [8/2/20]
MW-24A	Semi-annually	Semi-annually	7/8/20	(8/5/20) [8/10/20]
MW-25	Quarterly	Quarterly	7/7/20	(8/5/20) [8/10/20]
MW-26	Quarterly	Quarterly	7/9/20	(8/5/20) [8/10/20]
MW-27	Semi-annually	Semi-annually	7/8/20	(8/5/20)
MW-28	Semi-annually	Semi-annually	7/8/20	(8/5/20) [8/10/20]
MW-30	Quarterly	Quarterly	7/6/20	(8/5/20) [8/10/20]
MW-31	Quarterly	Quarterly	7/7/20	(8/5/20) [8/10/20]
MW-32	Semi-annually	Semi-annually	7/6/20	(8/5/20)
MW-35	Semi-annually	Semi-annually	7/6/20	(8/5/20)
MW-36	Quarterly	Quarterly	7/6/20	(8/5/20) [8/10/20]
MW-38	Quarterly	Background	7/10/20	(8/5/20) [8/2/20]
MW-39	Quarterly	Background	7/10/20	(8/5/20) [8/2/20]
MW-40	Quarterly	Background	7/10/20	(8/5/20) [8/2/20]
MW-65	1 per Batch	Duplicate of MW-39	7/10/20	(8/5/20) [8/2/20]
Accelerated August Monthly				
MW-11	Monthly	Accelerated	8/11/20	(8/31/20)
MW-25	Monthly	Accelerated	8/10/20	(8/31/20)
MW-26	Monthly	Accelerated	8/11/20	(8/31/20)
MW-30	Monthly	Accelerated	8/11/20	(8/31/20)
MW-31	Monthly	Accelerated	8/10/20	(8/31/20)
MW-65	Monthly	Duplicate of MW-30	8/11/20	(8/31/20)
Accelerated September Monthly				
MW-11	Monthly	Accelerated	9/2/20	(9/21/20)
MW-25	Monthly	Accelerated	9/2/20	(9/21/20)
MW-26	Monthly	Accelerated	9/2/20	(9/21/20)
MW-30	Monthly	Accelerated	9/1/20	(9/21/20)
MW-31	Monthly	Accelerated	9/1/20	(9/21/20)
MW-65	1 per Batch	Duplicate of MW-11	9/2/20	(9/21/20)

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)
	Total Dissolved Solids (mg/L)	2528	2590	Quarterly	Monthly	Q3 2020	Q4 2020
	Chloride (mg/L)	39.16	48.4	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Sulfate (mg/L)	1309	1410	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
MW-25 (Class III)	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
	Total Dissolved Solids (mg/L)	3284.19	3880	Quarterly	Monthly	Q3 2020	Q4 2020
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
MW-30 (Class II)	Methylene Chloride (ug/L)	5	6.59	Quarterly	Monthly	Q3 2020	August 2020
	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
	Selenium (ug/L)	47.2	48.6	Quarterly	Monthly	Q1 2019	May 2019
MW-31 (Class III)	Uranium (ug/L)	8.32	8.57	Quarterly	Monthly	Q4 2013	March 2014
	Nitrate + Nitrite (as N) (mg/L)	5	21.7	Quarterly	Monthly	Q1 2010	May 2010
	Total Dissolved Solids (mg/L)	2132	2580	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Uranium (ug/L)	15	15.5	Quarterly	Monthly	Q2 2020	August 2020
	Sulfate (mg/L)	993	1150	Quarterly	Monthly	Q3 2019	Q4 2019 (November)
	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
Semi-Annual Wells Accelerated to Quarterly Sampling							
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
MW-12 (Class III)	Uranium (ug/L)	23.5	23.7	Semi-Annually	Quarterly	Q2 2017	Q3 2017
	Selenium (ug/L)	39	41.2	Semi-Annually	Quarterly	Q2 2020	Q3 2020
MW-24 (Class III)	Cadmium (ug/L)	6.43	6.97	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Beryllium (ug/L)	2	2.42	Semi-Annually	Quarterly	Q4 2017	Q1 2018
	Thallium (ug/L)	2.01	2.44	Semi-Annually	Quarterly	Q2 2018	Q3 2018 (September)
	Nickel (ug/L)	50	57.7	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	Sulfate (mg/L)	2903	2960	Semi-Annually	Quarterly	Q1 2020	Q3 2020
	Manganese (ug/L)	7507	7700	Semi-Annually	Quarterly	Q4 2019	Q1 2020
	Fluoride (mg/L)	0.47	0.797	Semi-Annually	Quarterly	Q4 2018	Q3 2019
	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

Notes:

Highlighted text shows accelerated requirements resulting from Q3 2020 sampling event.

Table 3 – GWCL Exceedances for Third Quarter 2020 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		1410		NA		1290		1140		1100				
	TDS (mg/L)	2528		1890		NA		1890		NA		2100		NA		NA				
	Manganese (ug/L)	164.67		181		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		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		4140		1140		778		1090		1540		1710		1110				
	Chloride (mg/L)	58.31		82.0		73.0		72.6		75.2		83.5		62.1		73.8		62.3		57.7
	TDS (mg/L)	3284.19		2820		NA		3100		NA		2920		NA		2920		NA		
	Methylene Chloride (ug/L)	5		4.16		1.69		<1.00		10.7		1.12		3.35		2.95		1.73		2.64
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		47.8		56.4
	Uranium (ug/L)	8.32		8.62		8.15		8.88		9.03		9.39		8.12		8.69		9.29		8.99
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		1150		NA		1010		990		1020				
	TDS (mg/L)	2132		2080		NA		2580		NA		2280		2650		2030				
	Uranium (ug/L)	15		14		NA		14.3		NA		14.4		NA		NA				
	Chloride (mg/L)	143		294		346		325		374		372		365		318		338		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
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
	Selenium (ug/L)	39		33.9		NA		NA		NA		30.3		NA		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		8.37		NA		9.31		NA		NA				
	Fluoride (mg/L)	0.47		0.839		NA		0.996		NA		0.667		NA		NA				
	Nickel (mg/L)	50		63.9		NA		70.6		NA		75.4		NA		NA				
	Manganese (ug/L)	7507		7020		NA		NA		NA		7700		NA		NA				
	Thallium (ug/L)	2.01		2.73		NA		2.61		NA		2.88		NA		NA				
	Sulfate (mg/L)	2903		2790		NA		NA		NA		2630		NA		NA				
	Field pH (S.U.)	5.03 - 8.5		4.53		NA		NA		NA		5.03		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	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	133	NS	NA	NS	NA	10/22/2019	149	NS	NA	NS	NA
	Selenium (ug/L)	11.1		12.4		NA		10.6		NA		16.5		NA		NA				
	Nitrate + Nitrite (as N) (mg/L)	5		3.7		NA		NA		NA		5.14		NA		NA				
	Gross Alpha (pCi/L)	2.42		1.94		NA		1.20		NA		<1.00		NA		NA				
	Uranium (ug/L)	4.9		9.60		NA		7.83		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 Third Quarter 2020 under the March 19, 2019 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in March 19, 2019 GWDP	Q1 2020 Results						Q2 2020 Results						Q3 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	Q2 2020 Sample Date	Q2 2020 Result	May 2020 Monthly Sample Date	May 2020 Monthly Result	June 2020 Monthly Sample Date	June 2020 Monthly Result	Q3 2020 Sample Date	Q3 2020 Result	August 2020 Monthly Sample Date	August 2020 Monthly Result	September 2020 Monthly Sample Date	September 2020 Monthly Result
Required Quarterly Sampling Wells																				
MW-11 (Class II)	Chloride (mg/L)	39.16		38.9		42.1		41.0		38.3		39.0		40.1		42.1		43.9		40.6
	Sulfate (mg/L)	1309	1/15/2020	1180	2/4/2020	1260	3/10/2020	1120	4/8/2020	1180	5/5/2020	1180	6/2/2020	1310	7/7/2020	1260	8/11/2020	1220	9/2/2020	1170
	TDS (mg/L)	2528	1/28/2020	1920		NA		NA		1920		NA		NA		2590		NA		NA
	Manganese (ug/L)	164.67		169		227		183		189		206		211		178		276		230
MW-14 (Class III)	Fluoride (mg/L)	0.22	1/15/2020	0.128	2/4/2020	0.145	3/10/2020	<0.100	4/6/2020	<0.100	5/5/2020	<0.100	6/2/2020	<0.100	7/6/2020	<0.100	NS	NA	NS	NA
	Sulfate (mg/L)	2330		2250		2190		2150		2290		2150		2260		2000		NA		NA
MW-25 (Class III)	Cadmium (ug/L)	1.5	1/15/2020	1.35	2/5/2020	1.52	3/11/2020	1.41	4/7/2020	1.46	5/6/2020	1.52	6/3/2020	1.46	7/7/2020	1.39	8/10/2020	1.54	9/2/2020	1.61
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62		0.873		0.978		1.60		0.747		1.16		3.44		1.360		0.407		0.62
	Chloroform (ug/L)	70		1260		1640		1720		1420		1200		1530		4030		1940		1070
	Chloride (mg/L)	58.31	1/15/2020	78.8	2/4/2020	66.9	3/10/2020	76.9	4/8/2020	62.8	5/6/2020	73.8	6/3/2020	63.7	7/9/2020	67.6	8/11/2020	57.5	9/2/2020	59.8
	TDS (mg/L)	3284.19		3010		NA		NA		2600		NA		NA		3880		NA		NA
	Methylene Chloride (ug/L)	5		2.79		2.76		4.44		1.94		1.48		2.35		6.59		2.67		<1.00
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5		16.4		17.8		19.0		18.1		18.6		18.3		18.4		21.1		18.3
	Chloride (mg/L)	128	1/15/2020	182	2/5/2020	187	3/11/2020	182	4/6/2020	195	5/6/2020	177	6/3/2020	180	7/6/2020	185	8/11/2020	183	9/1/2020	166
	Selenium (ug/L)	47.2		49.7		49.9		48.1		54.4		51.5		50.5		51.8		56.0		55.3
	Uranium (ug/L)	8.32		8.88		9.06		9.50		9.24		8.94		9.28		9.76		10.6		9.90
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5		17.5		18.0		19.2		18.8		20.1		18.7		19.2		21.6		18.4
	Sulfate (mg/L)	993	1/14/2020	1120	2/4/2020	1150	3/10/2020	1080	4/6/2020	1130	5/5/2020	1080	6/2/2020	1130	7/7/2020	1150	8/10/2020	1100	9/1/2020	1110
	TDS (mg/L)	2132		2220		2240		2380		2400		2330		2440		2400		2580		2650
	Uranium (ug/L)	15		14.8		NA		NA		15.5		NA		NA		18.1		19.7		18.5
MW-36 (Class III)	Chloride (mg/L)	143		381		370		368		376		361		377		370		368		367
	Sulfate (mg/L)	3146.21	1/14/2020	2660	2/5/2020	2540	3/10/2020	2890	4/9/2020	2660	5/5/2020	2480	6/2/2020	2770	7/6/2020	2610	NS	NA	NS	NA
Required Semi-Annual Sampling Wells																				
MW-12 (Class III)	Uranium (ug/L)	23.5	1/16/2020	21.9	NS	NA	NS	NA	4/9/2020	23.7	NS	NA	NS	NA	7/8/2020	25.6	NS	NA	NS	NA
	Selenium (ug/L)	39		NA		NA		NA		41.2		NA		NA		40.1		NA		NA
MW-24 (Class III)	Beryllium (ug/L)	2		2.07		NA		NA		2.95		NA		NA		2.59		NA		NA
	Cadmium (ug/L)	6.43		7.30		NA		NA		8.46		NA		NA		8.43		NA		NA
	Fluoride (mg/L)	0.47		0.805		NA		NA		0.732		NA		NA		1.08		NA		NA
	Nickel (mg/L)	50	1/22/2020	68.1	NS	NA	NS	NA	4/22/2020	72.6	NS	NA	NS	NA	7/10/2020	76.7	NS	NA	NS	NA
	Manganese (ug/L)	7507		7010		NA		NA		7750		NA		NA		8010		NA		NA
	Thallium (ug/L)	2.01		1.92		NA		NA		2.81		NA		NA		3.07		NA		NA
	Sulfate (mg/L)	2903		2960		NA		NA		2870		NA		NA		2920		NA		NA
	Field pH (S.U.)	5.03 - 8.5		6.01		NA		NA		5.60		NA		NA		5.70		NA		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	1/16/2020	6.18	NS	NA	NS	NA	4/8/2020	6.43	NS	NA	NS	NA	7/8/2020	6.62	NS	NA	NS	NA
MW-28 (Class III)	Chloride (mg/L)	105		151		NA		NA		129		NA		NA		140		NA		NA
	Selenium (ug/L)	11.1		13.4		NA		NA		10.2		NA		NA		15.5		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	5	1/16/2020	NA	NS	NA	NS	NA	4/15/2020	2.6	NS	NA	NS	NA	7/8/2020	4.58	NS	NA	NS	NA
	Gross Alpha (pCi/L)	2.42		1.79		NA		NA		1.69		NA		NA		1.60		NA		NA
	Uranium (ug/L)	4.9		7.56		NA		NA		5.91		NA		NA		11.80		NA		NA
MW-32 (Class III)	Chloride (mg/L)	35.39	1/14/2020	38.0	NS	NA	NS	NA	4/7/2020	36.4	NS	NA	NS	NA	7/6/2020	33.0	NS	NA	NS	NA
MW-35 (Class II)	Nitrogen, Ammonia as N	0.14	1/16/2020	0.0919	NS	NA	NS	NA	4/9/2020	0.0772	NS	NA	NS	NA	7/6/2020	0.108	NS	NA	NS	NA

Notes:

NS= Not Required and Not Sampled

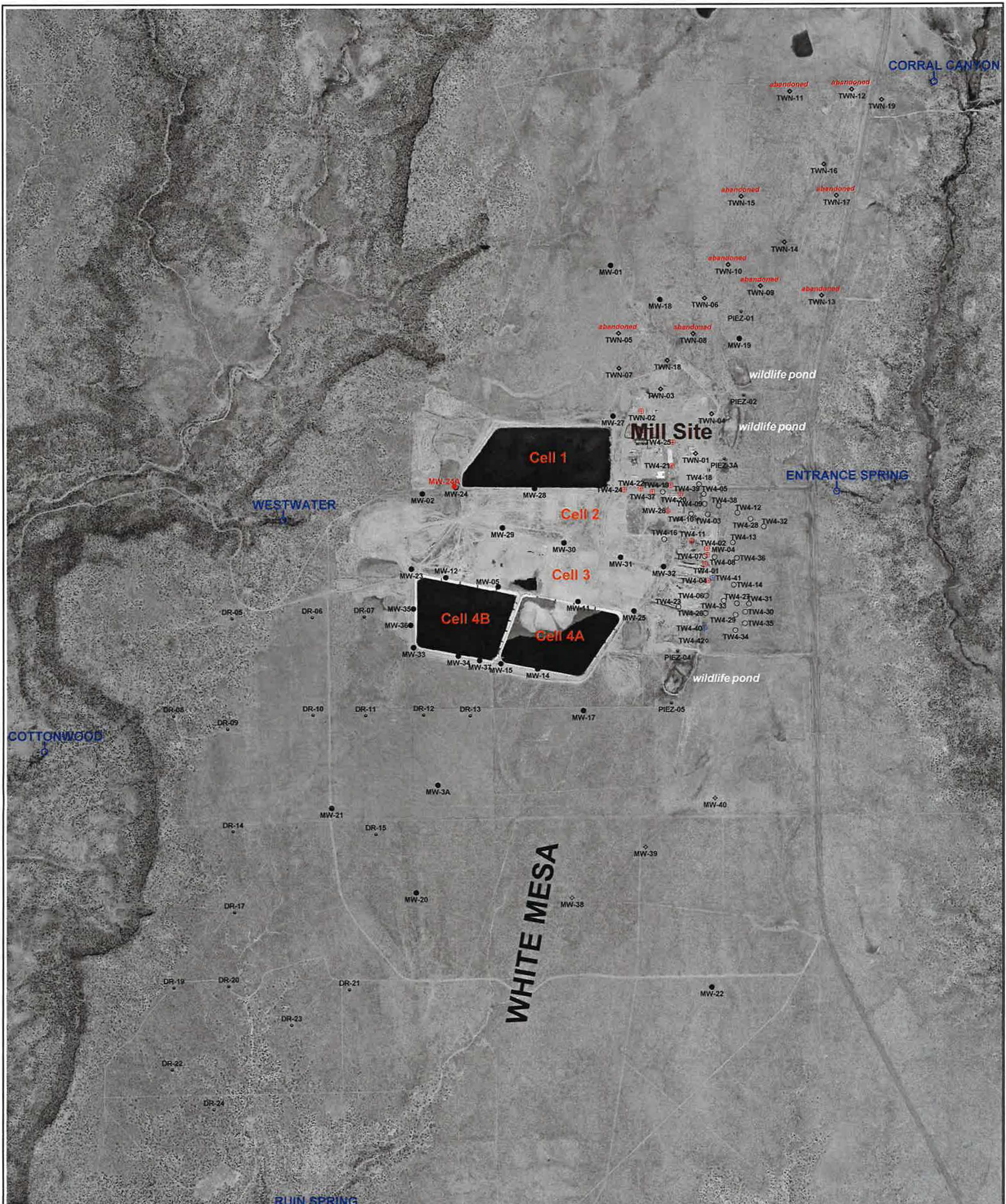
NA= Not Applicable

Exceedances are shown in yellow

Pursuant to the DWMRC letter of July 28, 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/nov20/Uwelloc0920.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_07072020
Purge Date & Time	7/7/2020 11:05
Sample Date & Time	7/7/2020 15:35

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.17
Calculated Casing Volumes Purge Duration (min)	268.90
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny and windy
External Ambient Temperature (C)	29
Previous Well Sampled	MW-25

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.32

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/7/2020 15:32	57.93	2888	7.55	15.00	412	0	60.0	
7/7/2020 15:33	58.15	2853	7.51	15.43	411	0	55.0	
7/7/2020 15:34	58.37	2857	7.52	15.40	411	0	54.0	
7/7/2020 15:35	58.59	2860	7.52	15.38	414	0	53.0	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	85.50
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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)	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 1102. Purge began at 1105. Purged well for a total of 270 minutes. Purge ended and samples collected at 1535. Water was clear. Left site at 1545.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-12
Field Sample ID	MW-12_07082020
Purge Date & Time	7/8/2020 7:00
Sample Date & Time	7/8/2020 9:20

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	14.77
Calculated Casing Volumes Purge Duration (min)	136.13
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	MW-24A

Well Depth (ft)	130.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	107.78

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/8/2020 9:17	29.72	4095	6.49	15.73	496	0	72.0	
7/8/2020 9:18	29.94	4090	6.51	15.61	493	0	72.0	
7/8/2020 9:19	30.16	4084	6.52	15.48	489	0	68.0	
7/8/2020 9:20	30.38	4095	6.52	15.40	487	0	66.0	

Volume of water purged (gals)	30.38
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Final Depth to Water (feet)	122.28
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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)	140.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:
Arrived on site at 0656. Purge began at 0700. Purged well for a total of 140 minutes. Purge ended and sample collected at 0920. Water was clear. Left site at 0924.

Signature of Field Technician

Junee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-14
Field Sample ID	MW-14_07062020
Purge Date & Time	7/6/2020 12:05
Sample Date & Time	7/6/2020 15:05

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	17.29
Calculated Casing Volumes Purge Duration (min)	159.42
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	31
Previous Well Sampled	MW-30

Well Depth (ft)	128.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	102.21

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/6/2020 15:02	38.40	2468	7.29	15.60	376	0	66.0	
7/6/2020 15:03	38.62	3580	7.25	15.45	377	0	59.0	
7/6/2020 15:04	38.84	3525	7.20	15.38	377	0	57.0	
7/6/2020 15:05	39.06	3521	7.18	15.25	379	0	54.0	

Volume of water purged (gals)	39.06
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Final Depth to Water (feet)	102.40
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
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 1202. Purge began at 1205. Purged well for a total of 180 minutes. Purge ended and samples collected at 1505. Water was clear. Left site at 1515.

Signature of Field Technician

Darwin Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24
Field Sample ID	MW-24_07102020
Purge Date & Time	7/9/2020 8:06
Sample Date & Time	7/10/2020 8:30
Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	5.98
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 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	MW-26

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.84

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/9/2020 8:17	5.00	4346	6.40	15.13	393	78.0	15.0	
7/10/2020 8:29		4255	5.67	15.49				Before
7/10/2020 8:35		4271	5.70	15.40				After

Volume of water purged (gals)	11.50
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Final Depth to Water (feet)	119.97
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.92
Volume, if well evacuated to dryness (gals)	11.50

Analytical Samples Information

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

Comments:

Arrived on site at 0804. Bailing began at 0806. Bailed a total of 11.50 gallons. Water was dirty with a light brown/grey coloration. Bailing ended at 0834. Left site at 0837. Arrived on site at 0824. Depth to water was 110.96. Samples bailed and collected at 0830. Left site at 0836.

Signature of Field Technician

Darwin Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-24A
Field Sample ID	MW-24A_07082020
Purge Date & Time	7/7/2020 13:40
Sample Date & Time	7/8/2020 8:20
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	6.62
Calculated Casing Volumes Purge Duration (min)	69.04
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny and windy
External Ambient Temperature (C)	32
Previous Well Sampled	MW-11

Well Depth (ft)	122.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	111.85

Date/Time	Gallons Purged (gal)	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	Before/After
7/7/2020 14:40	13.44	4296	5.46	18.90	469	13.1	83.7	
7/8/2020 8:19		4337	5.20	15.88				Before
7/8/2020 8:28		4330	5.21	15.75				After

Volume of water purged (gals)	13.44
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Final Depth to Water (feet)	119.40
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.192
Time to evacuate 2 Casing Volumes (min)	70.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (gals)	13.44

Analytical Samples Information

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

Comments:

Arrived on site at 1337. Purge began at 1340. Purged well for a total of 70 minutes. Purged well dry. Purge ended at 1440. Water was mostly clear. Left site at 1442. Arrived on site at 0816. Depth to water was 112.15. Samples collected at 0820. Left site at 0831.

Signature of Field Technician

James Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_07072020
Purge Date & Time	7/7/2020 7:20
Sample Date & Time	7/7/2020 10:50

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	MW-31

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.54
Calculated Casing Volumes Purge Duration (min)	207.75
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.48

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/7/2020 10:47	44.91	3077	7.26	15.30	436	5.0	62.0	
7/7/2020 10:48	45.13	3069	7.15	15.25	437	5.4	56.0	
7/7/2020 10:49	45.35	3069	7.13	15.20	436	5.5	55.0	
7/7/2020 10:50	45.57	3040	7.10	15.19	439	5.8	53.4	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	82.35
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0717. Purge began at 0720. Purged well for a total of 210 minutes. Purge ended and samples collected at 1050. Water was mostly clear with tiny little bubbles surfacing. Left site at 1100.

Signature of Field Technician

Jarrett Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_07092020
Purge Date & Time	7/9/2020 7:43
Sample Date & Time	7/9/2020 7:45

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	continuous
Purging Method	2 Casings
Casing Volume (gal)	30.12
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	MW-28

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.20

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/9/2020 7:44		3408	6.86	15.65	467	0	48.0	

Volume of water purged ()	
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Final Depth to Water (feet)	110.54
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.5
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:

Arrived on site at 0741. Samples collected at 0745. Water was clear. Left site at 0750.

Signature of Field Technician

Junee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-27
Field Sample ID	MW-27_07082020
Purge Date & Time	7/8/2020 8:45
Sample Date & Time	7/8/2020 12:45

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.65
Calculated Casing Volumes Purge Duration (min)	227.25
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	MW-12

Well Depth (ft)	95.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	57.24

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/8/2020 12:42	51.42	1084	6.47	15.56	521	0	82.0	
7/8/2020 12:43	51.64	1095	6.52	15.55	518	0	82.2	
7/8/2020 12:44	51.86	1096	6.57	15.53	517	0	82.6	
7/8/2020 12:45	52.08	1095	6.65	15.50	517	0	82.5	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	58.75
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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)	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 0841. Purge began at 0845. Purged well for a total of 240 minutes. Purge ended and sample collected at 1245. Water was clear. Left site at 1250.

Signature of Field Technician

Jurnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-28
Field Sample ID	MW-28_07082020
Purge Date & Time	7/8/2020 9:35
Sample Date & Time	7/8/2020 13:35

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	23.10
Calculated Casing Volumes Purge Duration (min)	212.93
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	25
Previous Well Sampled	MW-27

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.62

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/8/2020 13:32	51.42	4035	5.75	15.96	552	0	80.0	
7/8/2020 13:33	51.64	4042	5.77	15.90	551	0	79.0	
7/8/2020 13:34	51.86	4031	5.79	15.85	550	0	77.0	
7/8/2020 13:35	52.08	4039	5.80	15.82	550	0	75.0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	77.78
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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?
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
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:
Arrived on site at 0932. Purge began at 0935. Purged well for a total of 240 minutes. Purge ended and samples collected at 1335. Water was clear. Left site at 1343.

Signature of Field Technician

Junee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_07062020
Purge Date & Time	7/6/2020 7:50
Sample Date & Time	7/6/2020 11:25

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 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	19
Previous Well Sampled	MW-32

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
7/6/2020 11:22	46.00	2135	7.21	15.20	459	0	40.0	
7/6/2020 11:23	46.22	2134	7.20	15.21	460	0	42.0	
7/6/2020 11:24	46.43	2131	7.19	15.15	460	0	43.0	
7/6/2020 11:25	46.65	2132	7.18	15.07	460	0	44.0	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	77.18
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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 0747. Purge began at 0750. Purged well for a total of 215 minutes. Purge ended and samples collected at 1125. Water was clear. Left site at 1136.
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Signature of Field Technician

James Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_07072020
Purge Date & Time	7/7/2020 7:10
Sample Date & Time	7/7/2020 13:20

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	MW-36

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.78
Calculated Casing Volumes Purge Duration (min)	366.64
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.08

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/7/2020 13:17	79.63	3121	7.50	15.59	424	0	78.0	
7/7/2020 13:18	79.85	3109	7.50	15.54	427	0	80.0	
7/7/2020 13:19	80.07	3111	7.46	15.49	431	0	83.0	
7/7/2020 13:20	80.29	3117	7.44	15.49	433	0	85.0	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	72.45
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0706. Purge began at 0710. Purged well for a total of 370 minutes. Purge ended and samples collected at 1320. Water was clear. Left site at 1330.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_07062020
Purge Date & Time	7/6/2020 7:35
Sample Date & Time	7/6/2020 12:35

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	32.29
Calculated Casing Volumes Purge Duration (min)	297.61
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	19
Previous Well Sampled	N/A

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.15

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/6/2020 12:32	64.44	3645	7.10	15.50	281	9.3	55.0	
7/6/2020 12:33	64.66	3646	7.04	15.57	254	8.0	53.0	
7/6/2020 12:34	64.88	3651	7.00	15.40	241	8.5	50.0	
7/6/2020 12:35	65.10	3646	6.98	15.42	234	9.0	49.0	

Volume of water purged (gals)	65.10
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Final Depth to Water (feet)	87.00
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0732. Purge began at 0735. Purged well for a total of 300 minutes. Purge ended and samples collected at 1235. Water was a little murky. Left site at 1237.

Signature of Field Technician

Jarvis Hilliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-35
Field Sample ID	MW-35_07062020
Purge Date & Time	7/6/2020 12:45
Sample Date & Time	7/6/2020 14:00

Sampling Program	
Sampling Event	2020 Q3 GW

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.90
Calculated Casing Volumes Purge Duration (min)	72.82
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	33
Previous Well Sampled	MW-12

Well Depth (ft)	124.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	112.40

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/6/2020 13:57	15.62	4094	7.47	15.70	354	0	68.0	
7/6/2020 13:58	15.84	4054	7.32	15.77	347	0	62.0	
7/6/2020 13:59	16.05	4046	7.20	15.60	340	0	61.0	
7/6/2020 14:00	16.27	4053	7.16	15.50	336	0	61.0	

Volume of water purged (gals)	16.27
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Final Depth to Water (feet)	113.05
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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)	75.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:
Arrived on site at 1242. Purge began at 1245. Purged well for a total of 75 minutes. Purge ended and samples collected at 1400. Water was clear. Left site at 1402.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-36
Field Sample ID	MW-36_07062020
Purge Date & Time	7/6/2020 14:15
Sample Date & Time	7/6/2020 15:25
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	7.20
Calculated Casing Volumes Purge Duration (min)	66.44
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	33
Previous Well Sampled	MW-35

Well Depth (ft)	121.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	110.56

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/6/2020 15:22	14.53	4790	7.50	15.60	380	0	72.0	
7/6/2020 15:23	14.75	4790	7.47	15.53	383	0	72.0	
7/6/2020 15:24	14.97	4777	7.51	15.45	385	0	71.0	
7/6/2020 15:25	15.19	4776	7.47	15.40	388	0	70.7	

Volume of water purged (gals)	15.19
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Final Depth to Water (feet)	112.08
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 1412. Purge began at 1415. Purged well for a total of 70 minutes. Purge ended and samples collected at 1525. Water was clear. Left site at 1535.

Signature of Field Technician

Janice Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-38
Field Sample ID	MW-38_07102020
Purge Date & Time	7/9/2020 8:55
Sample Date & Time	7/10/2020 7:55
Purging Equipment	Bailer
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	2.51
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 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	24
Previous Well Sampled	MW-24

Well Depth (ft)	74.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.55

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/9/2020 9:00	5.00	4297	7.07	16.05	340	39.0	37.0	
7/10/2020 7:54		4319	7.09	16.45				Before
7/10/2020 7:58		4312	7.10	16.36				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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Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	1.99
Volume, if well evacuated to dryness (gals)	5.00

Analytical Samples Information

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

Comments:

Arrived on site at 0851. Bailing began at 0855. Bailed a total of 5 gallons. Bailed well dry. Water was a little murky. Left site at 0908. Arrived on site at 0748. Depth to water was 70.62. Samples bailed and collected at 0755. Left site at 0800.

Signature of Field Technician

Jarnee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-39
Field Sample ID	MW-39_07102020
Purge Date & Time	7/10/2020 7:45
Sample Date & Time	7/10/2020 11:45
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	24.38
Calculated Casing Volumes Purge Duration (min)	224.78
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	24
Previous Well Sampled	MW-40

Well Depth (ft)	102.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	65.15

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/10/2020 11:42	51.42	4607	5.10	15.50	455	1.3	65.0	
7/10/2020 11:43	51.64	4585	5.10	15.45	452	2.0	62.0	
7/10/2020 11:44	51.86	4590	5.09	15.40	452	1.9	61.5	
7/10/2020 11:45	52.08	4592	5.08	15.40	453	1.9	59.0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	68.95
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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)	240.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

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

Comments:

Arrived on site at 0741. Purge began at 0745. Purged well for a total of 240 minutes. Purge ended and samples collected at 1145. Water was clear. Left site at 1155.

Signature of Field Technician

Juanne Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-40
Field Sample ID	MW-40_07102020
Purge Date & Time	7/10/2020 7:00
Sample Date & Time	7/10/2020 11:05
Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.10
Calculated Casing Volumes Purge Duration (min)	240.55
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	
Sampling Event	2020 Q3 GW
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	MW-38

Well Depth (ft)	120.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.03

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
7/10/2020 11:02	52.51	3858	6.52	15.44	488	203.0	79.0	
7/10/2020 11:03	52.73	3871	6.55	15.38	491	205.0	81.0	
7/10/2020 11:04	52.94	3864	6.60	15.35	495	210.0	82.0	
7/10/2020 11:05	53.16	3858	6.63	15.35	497	220.0	83.0	

Volume of water purged (gals)	53.16
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Final Depth to Water (feet)	81.06
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Name of Certified Analytical Laboratory	GEL
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Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0655. Purge began at 0700. Purged well for a total of 245 minutes. Purge ended and samples collected at 1105. Water was mostly clear. Left site at 1115.

Signature of Field Technician

Jarvis Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_07102020
Purge Date & Time	
Sample Date & Time	7/10/2020 11:45

Sampling Program	
Sampling Event	2020 Q3 GW

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

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

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

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

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Duplicate of MW-39

Signature of Field Technician

Juanita Holliday

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

August 2020



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_08112020
Purge Date & Time	8/11/2020 7:10
Sample Date & Time	8/11/2020 11:40

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	August Monthly

Sampler	TH/DL
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Weather Conditions	Sunny
External Ambient Temperature (C)	18
Previous Well Sampled	MW-30

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
8/11/2020 11:37	57.93	2973	7.78	15.17	418	0	51.0	
8/11/2020 11:38	58.15	2983	7.76	15.20	416	0	53.0	
8/11/2020 11:39	58.37	2974	7.72	15.23	414	0	48.0	
8/11/2020 11:40	58.59	2986	7.70	15.19	413	0	45.0	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	85.55
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	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 0707. Purge began at 0710. Purged well for a total of 270 minutes. Purge ended and samples collected at 1140. Water was clear. Left site at 1146.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_08102020
Purge Date & Time	8/10/2020 7:40
Sample Date & Time	8/10/2020 11:40

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.46
Calculated Casing Volumes Purge Duration (min)	207.03
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	MW-31

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.60

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/10/2020 11:37	51.42	3104	7.15	15.34	427	9.6	39.1	
8/10/2020 11:38	51.64	3095	7.10	15.20	434	11.0	37.8	
8/10/2020 11:39	51.86	3097	7.08	15.18	438	12.0	36.0	
8/10/2020 11:40	52.08	3095	7.06	15.20	439	12.0	35.0	

Volume of water purged (gals)	52.08
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Final Depth to Water (feet)	82.57
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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 0736. Purge began at 0740. Purged well for a total of 240 minutes. Purge ended and sample collected at 1140. Water was mostly clear with tiny little bubbles surfacing . Left site at 1144.

Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_08112020
Purge Date & Time	8/11/2020 12:59
Sample Date & Time	8/11/2020 13:00

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	26.18
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	31
Previous Well Sampled	MW-11

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.23

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/11/2020 12:59		3352	6.96	18.88	392	1.2	60.3	

Volume of water purged ()	
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Final Depth to Water (feet)	100.89
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	13.0
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

Comments:

Arrived on site at 1255. Samples collected at 1300. Water was clear. Left site at 1304.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_08112020
Purge Date & Time	8/11/2020 7:00
Sample Date & Time	8/11/2020 10:30

Sampling Program	
Sampling Event	August Monthly

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

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.77
Calculated Casing Volumes Purge Duration (min)	209.92
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	18
Previous Well Sampled	MW-25

Well Depth (ft)	110.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.12

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/11/2020 10:27	44.91	2159	7.55	15.25	421	0	64.0	
8/11/2020 10:28	45.13	2153	7.56	15.09	423	0	62.5	
8/11/2020 10:29	45.35	2148	7.55	15.09	426	0	61.0	
8/11/2020 10:30	45.57	2147	7.55	15.10	428	0	60.0	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	77.78
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0656. Purge began at 0700. Purged well for a total of 210 minutes. Purge ended and samples collected at 1030. Water was clear. Left site at 1040.
--

Signature of Field Technician

Darlene Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_08102020
Purge Date & Time	8/10/2020 7:15
Sample Date & Time	8/10/2020 13:25

Sampling Program	
Sampling Event	August Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.75
Calculated Casing Volumes Purge Duration (min)	366.40
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	N/A

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.12

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
8/10/2020 13:22	79.63	3142	7.40	15.45	414	6.0	68.9	
8/10/2020 13:23	79.85	3126	7.47	15.40	414	13.0	72.0	
8/10/2020 13:24	80.07	3130	7.43	15.40	414	14.0	74.0	
8/10/2020 13:25	80.29	3141	7.40	15.45	415	14.5	76.0	

Volume of water purged (gals)	80.29
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Final Depth to Water (feet)	72.88
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0711. Purge began at 0715. Purged well for a total of 370 minutes. Purge ended and samples collected at 1325. Water was mostly clear. Left site at 1335.

Signature of Field Technician

Juanita Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_08112020
Purge Date & Time	
Sample Date & Time	8/11/2020 10:30

Sampling Program	
Sampling Event	August Monthly

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

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

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

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

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

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Duplicate of MW-30

Signature of Field Technician

Darwin Holliday

Tab C2

Field Data Worksheets Accelerated Monitoring

September 2020



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-11
Field Sample ID	MW-11_09022020
Purge Date & Time	9/2/2020 7:30
Sample Date & Time	9/2/2020 12:00

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	29.10
Calculated Casing Volumes Purge Duration (min)	268.24
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	17
Previous Well Sampled	MW-31

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	85.43

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/2/2020 11:57	57.93	2963	7.44	15.41	305	0	1.5	
9/2/2020 11:58	58.15	2940	7.42	15.31	306	0	1.4	
9/2/2020 11:59	58.37	2936	7.42	15.30	306	0	1.4	
9/2/2020 12:00	58.59	2930	7.41	15.32	306	0	1.3	

Volume of water purged (gals)	58.59
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Final Depth to Water (feet)	85.65
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	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 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 1206.
--

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-25
Field Sample ID	MW-25_09022020
Purge Date & Time	9/2/2020 7:45
Sample Date & Time	9/2/2020 11:15

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	22.41
Calculated Casing Volumes Purge Duration (min)	206.55
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	17
Previous Well Sampled	MW-11

Well Depth (ft)	115.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.68

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/2/2020 11:12	44.91	3030	6.76	15.65	249	4.6	1.0	
9/2/2020 11:13	45.13	3044	6.72	15.62	257	4.5	1.1	
9/2/2020 11:14	45.35	3040	6.73	15.52	262	4.5	1.2	
9/2/2020 11:15	45.57	3049	6.68	15.54	267	4.6	1.3	

Volume of water purged (gals)	45.57
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Final Depth to Water (feet)	82.58
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0742. Purge began at 0745. Purged well for a total of 210 minutes. Purge ended and sample collected at 1115. Water was mostly clear. Left site at 1120.
--

Signature of Field Technician

Junee Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_09022020
Purge Date & Time	9/2/2020 9:29
Sample Date & Time	9/2/2020 9:30

Sampling Program	
Sampling Event	September Monthly

Sampler	TH/DL
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	24.29
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	MW-25

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	84.12

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/2/2020 9:29		3309	6.86	16.42	379	3.5	29.0	

Volume of water purged ()	
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Final Depth to Water (feet)	111.58
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	15.00
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

Comments:

Arrived on site at 0926. Samples collected at 0930. Water was clear. Left site at 0935.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-30
Field Sample ID	MW-30_09012020
Purge Date & Time	9/1/2020 7:00
Sample Date & Time	9/1/2020 10:35

Sampling Program	
Sampling Event	September Monthly

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

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	16
Previous Well Sampled	N/A

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

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/1/2020 10:32	46.00	2120	7.13	15.07	393	5.9	53.0	
9/1/2020 10:33	46.22	2130	7.08	15.01	402	4.8	52.0	
9/1/2020 10:34	46.43	2131	7.06	15.08	405	4.6	52.0	
9/1/2020 10:35	46.65	2129	7.07	15.08	408	4.5	51.0	

Volume of water purged (gals)	46.65
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Final Depth to Water (feet)	77.60
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0656. Purge began at 0700. Purged well for a total of 215 minutes. Purge ended and samples collected at 1035. Water was clear. Left site at 1042.

Signature of Field Technician

Jarvis Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-31
Field Sample ID	MW-31_09012020
Purge Date & Time	9/1/2020 8:00
Sample Date & Time	9/1/2020 14:10

Sampling Program	
Sampling Event	September Monthly

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

Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	39.81
Calculated Casing Volumes Purge Duration (min)	366.94
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	18
Previous Well Sampled	MW-30

Well Depth (ft)	130.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.03

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
9/1/2020 14:07	79.63	3114	7.20	15.80	390	5.4	104.0	
9/1/2020 14:08	79.85	3117	7.17	15.60	408	5.0	103.0	
9/1/2020 14:09	80.07	3111	7.15	15.50	413	4.8	102.0	
9/1/2020 14:10	80.29	3123	7.12	15.51	417	4.7	101.0	

Volume of water purged (gals)	80.29
-------------------------------	-------

Final Depth to Water (feet)	72.91
-----------------------------	-------

Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Arrived on site at 0756. Purge began at 0800. Purged well for a total of 370 minutes. Purge ended and samples collected at 1410. Water was mostly clear. Left site at 1420.

Signature of Field Technician

Juanita Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-65
Field Sample ID	MW-65_09022020
Purge Date & Time	
Sample Date & Time	9/2/2020 12:00

Sampling Program	
Sampling Event	September Monthly

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

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

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

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

Date/Time	Gallons Purged	Conductivity	pH	Temp	Redox	Turbidity	Dissolved Oxygen	Before/After
-----------	----------------	--------------	----	------	-------	-----------	------------------	--------------

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

Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

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

Analytical Samples Information

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

Comments:

Duplicate of MW-11

Signature of Field Technician

Jurren Holliday

Tab D

Quarterly Depth to Water

Name: Tanner Holliday
 Date: 9/21/2020-9/22/2020

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)
9/22/2020	1227	MW-01	64.91	9/21/2020	1234	MW-04	85.39	9/22/2020	1211	PIEZ-01	67.11
9/22/2020	1013	MW-02	109.70	9/21/2020	1238	TW4-01	100.76	9/22/2020	1207	PIEZ-02	45.30
9/22/2020	820	MW-03A	84.14	9/21/2020	1230	TW4-02	102.43	9/22/2020	1204	PIEZ-03A	56.42
9/22/2020	1004	MW-05	108.51	9/22/2020	915	TW4-03	63.85	9/22/2020	900	PIEZ-04	66.27
9/22/2020	932	MW-11	85.46	9/21/2020	1245	TW4-04	74.10	9/22/2020	903	PIEZ-05	65.26
9/22/2020	1002	MW-12	107.82	9/22/2020	920	TW4-05	71.34	9/22/2020	1153	TWN-01	68.36
9/22/2020	930	MW-14	102.12	9/22/2020	909	TW4-06	78.42	9/21/2020	1156	TWN-02	56.35
9/22/2020	940	MW-15	105.58	9/22/2020	911	TW4-07	80.79	9/22/2020	1156	TWN-03	42.83
9/22/2020	826	MW-17	72.11	9/22/2020	913	TW4-08	85.91	9/22/2020	1221	TWN-04	61.42
9/22/2020	1223	MW-18	73.71	9/22/2020	918	TW4-09	69.29	9/22/2020	1221	TWN-06	80.48
9/22/2020	1209	MW-19	65.70	9/22/2020	922	TW4-10	68.71	9/22/2020	1230	TWN-07	81.28
9/22/2020	713	MW-20	84.77	9/21/2020	1225	TW4-11	93.08	9/22/2020	1214	TWN-14	59.86
9/22/2020	652	MW-22	66.46	9/22/2020	848	TW4-12	55.20	9/22/2020	1216	TWN-16	47.85
9/22/2020	957	MW-23	114.02	9/22/2020	853	TW4-13	56.39	9/22/2020	1159	TWN-18	62.30
9/22/2020	1018	MW-24A	111.75	9/22/2020	856	TW4-14	77.52	9/22/2020	1247	TWN-19	53.90
9/22/2020	1017	MW-24	110.73	9/22/2020	924	TW4-16	73.12	9/22/2020	805	DR-05	83.24
9/22/2020	934	MW-25	80.75	9/22/2020	1151	TW4-18	72.38	9/22/2020	802	DR-06	94.20
9/21/2020	1220	MW-26	80.11	9/21/2020	1259	TW4-19	72.20	9/22/2020	950	DR-07	92.03
9/22/2020	1024	MW-27	57.57	N/A	N/A	TW4-20	N/A	9/22/2020	757	DR-08	51.41
9/22/2020	1021	MW-28	74.74	9/21/2020	1144	TW4-21	73.06	9/22/2020	754	DR-09	86.65
9/22/2020	1010	MW-29	107.56	9/21/2020	1206	TW4-22	69.88	9/22/2020	751	DR-10	78.51
9/22/2020	1007	MW-30	75.25	9/22/2020	905	TW4-23	75.04	9/22/2020	814	DR-11	98.05
9/22/2020	928	MW-31	69.22	9/21/2020	1202	TW4-24	68.95	9/22/2020	817	DR-12	91.91
9/22/2020	926	MW-32	81.55	9/21/2020	1150	TW4-25	69.74	9/22/2020	823	DR-13	69.91
9/22/2020	947	MW-33	DRY	9/22/2020	907	TW4-26	73.20	9/22/2020	746	DR-14	76.25
9/22/2020	946	MW-34	107.55	9/22/2020	837	TW4-27	79.05	9/22/2020	708	DR-15	92.95
9/22/2020	955	MW-35	112.41	9/22/2020	849	TW4-28	48.59	9/22/2020	741	DR-17	64.80
9/22/2020	953	MW-36	110.61	9/22/2020	839	TW4-29	77.83	9/22/2020	732	DR-19	63.34
9/22/2020	942	MW-37	106.22	9/22/2020	844	TW4-30	75.06	9/22/2020	728	DR-20	55.70
9/22/2020	657	MW-38	70.47	9/22/2020	845	TW4-31	76.45	9/22/2020	718	DR-21	100.75
9/22/2020	702	MW-39	65.00	9/22/2020	851	TW4-32	55.85	9/22/2020	738	DR-22	DRY
9/22/2020	829	MW-40	76.96	9/22/2020	835	TW4-33	77.43	9/22/2020	722	DR-23	70.47
				9/22/2020	840	TW4-34	76.06	9/22/2020	736	DR-24	44.46
				9/22/2020	842	TW4-35	75.16				
				9/22/2020	854	TW4-36	57.95				
				9/21/2020	1210	TW4-37	78.49				
				9/22/2020	917	TW4-38	59.30				
				9/21/2020	1215	TW4-39	77.52				
				9/21/2020	1250	TW4-40	72.07				
				9/21/2020	1242	TW4-41	85.66				
				9/22/2020	833	TW4-42	68.95				

MW-26 = TW4-15
 mme: MW-32 = TW4-17

Tab E

Laboratory Analytical Reports – Quarterly Sampling



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-006
Client Sample ID: MW-11_07072020
Collection Date: 7/7/2020 1535h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1343h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1611h	E200.7	20.0	95.8	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1343h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1343h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1611h	E200.7	20.0	30.7	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0100	0.178	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1914h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 937h	E200.7	1.00	7.74	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1611h	E200.7	20.0	666	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1343h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1238h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1423h	E200.8	0.000300	0.000950	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 937h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1238h	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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-006
Client Sample ID: MW-11_07072020
Collection Date: 7/7/2020 1535h
Received Date: 7/10/2020 1130h

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	7/22/2020 1509h	7/23/2020 1033h	E350.1	0.0500	0.652	
Bicarbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	262	
Carbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/21/2020 2343h	E300.0	1.00	42.1	
Fluoride	mg/L		7/23/2020 813h	E300.0	0.200	0.379	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	5.55	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1233h	E353.2	0.100	0.651	
Sulfate	mg/L		7/21/2020 1949h	E300.0	150	1,260	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		32.6	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		36.5	
Total Dissolved Solids	mg/L		7/13/2020 1300h	SM2540C	20.0	2,590	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.15	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		2,260	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-006A
Client Sample ID: MW-11_07072020
Collection Date: 7/7/2020 1535h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 813h **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	

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	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.7	50.00	95.5	72-135	
Surr: Toluene-d8		2037-26-5	51.6	50.00	103	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07072020	Project: DNMI00100
Sample ID: 515723001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 07-JUL-20 15:35	
Receive Date: 14-JUL-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	+/-0.237	0.906	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			96.3	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-001
Client Sample ID: MW-12_07082020
Collection Date: 7/8/2020 920h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1718h	E200.8	0.00500	0.0401	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1925h	E200.8	0.000300	0.0256	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-007
Client Sample ID: MW-14_07062020
Collection Date: 7/6/2020 1505h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1347h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.000500	0.00143	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1614h	E200.7	20.0	546	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1347h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1347h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1614h	E200.7	20.0	166	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	1.92	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1924h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 940h	E200.7	1.00	13.3	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1614h	E200.7	20.0	392	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1347h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1347h	E200.8	0.000500	0.0638	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 940h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1242h	E200.8	0.0100	0.0138	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-007
Client Sample ID: MW-14_07062020
Collection Date: 7/6/2020 1505h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
3440 South 700 West Salt Lake City, UT 84119	Ammonia (as N)	mg/L	7/23/2020 923h	7/23/2020 1232h	E350.1	0.0500	0.0823	
	Bicarbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	324	
Phone: (801) 263-8686	Carbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Toll Free: (888) 263-8686	Chloride	mg/L		7/22/2020	E300.0	1.00	17.0	
Fax: (801) 263-8687	Fluoride	mg/L		7/23/2020 1106h	E300.0	0.100	< 0.100	
e-mail: awal@awal-labs.com	Ion Balance	%		7/15/2020 1007h	Calc.	-100	9.16	
web: www.awal-labs.com	Nitrate/Nitrite (as N)	mg/L		7/25/2020 1234h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		7/21/2020 2006h	E300.0	750	2,000	
	Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		48.5	
	Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		58.3	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		7/10/2020 1215h	SM2540C	20.0	3,320	
	Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		0.997	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		3,330	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-007A
Client Sample ID: MW-14_07062020
Collection Date: 7/6/2020 1505h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 834h **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	50.3	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.5	50.00	95.1	72-135	
Surr: Toluene-d8		2037-26-5	51.8	50.00	104	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07062020	Project: DNMI00100
Sample ID: 515723002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 06-JUL-20 15:05	
Receive Date: 14-JUL-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	+/-0.244	0.894	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			108	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-001
Client Sample ID: MW-24_07102020
Collection Date: 7/10/2020 830h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

3440 South 700 West
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 web: www.awal-labs.com

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	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/17/2020 1204h	7/18/2020 1851h	E200.8	0.000500	0.00259	
Cadmium	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.000500	0.00843	
Calcium	mg/L	7/17/2020 1204h	7/27/2020 1429h	E200.7	10.0	530	2
Chromium	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0100	0.133	
Copper	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0100	0.0120	
Iron	mg/L	7/17/2020 1204h	7/18/2020 1851h	E200.8	0.0300	0.0699	
Lead	mg/L	7/17/2020 1204h	7/18/2020 1851h	E200.8	0.00100	0.00291	
Magnesium	mg/L	7/17/2020 1204h	7/27/2020 1429h	E200.7	10.0	205	
Manganese	mg/L	7/17/2020 1204h	7/18/2020 1827h	E200.8	0.0100	8.01	2
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1942h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0200	0.0767	
Potassium	mg/L	7/17/2020 1204h	7/27/2020 1548h	E200.7	1.00	15.2	
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.00500	0.00770	
Silver	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/17/2020 1204h	7/27/2020 1429h	E200.7	10.0	533	2
Thallium	mg/L	7/17/2020 1204h	7/18/2020 1851h	E200.8	0.000500	0.00307	
Tin	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1931h	E200.8	0.000300	0.00649	
Vanadium	mg/L	7/17/2020 1204h	7/27/2020 1548h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/17/2020 1204h	7/18/2020 1739h	E200.8	0.0100	0.159	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.
 The sample was filtered in the field prior to analysis.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-001
Client Sample ID: MW-24_07102020
Collection Date: 7/10/2020 830h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/26/2020 1440h	7/27/2020 1226h	E350.1	0.0500	0.144	
Bicarbonate (as CaCO ₃)	mg/L		7/15/2020 722h	SM2320B	1.00	5.00	
Carbonate (as CaCO ₃)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/29/2020 509h	E300.0	1.00	41.8	
Fluoride	mg/L		7/29/2020 649h	E300.0	0.200	1.08	
Ion Balance	%		7/27/2020 1617h	Calc.	-100	2.69	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1321h	E353.2	0.100	0.262	
Sulfate	mg/L		7/30/2020 1707h	E300.0	750	2,920	
Total Anions, Measured	meq/L		7/27/2020 1617h	Calc.		63.4	
Total Cations, Measured	meq/L		7/27/2020 1617h	Calc.		66.9	
Total Dissolved Solids	mg/L		7/15/2020 1130h	SM2540C	20.0	4,320	
Total Dissolved Solids Ratio, Measured/Calculated			7/27/2020 1617h	Calc.		1.00	
Total Dissolved Solids, Calculated	mg/L		7/27/2020 1617h	Calc.		4,310	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-001A
Client Sample ID: MW-24_07102020
Collection Date: 7/10/2020 830h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 938h **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	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.7	50.00	97.5	72-135	
Surr: Toluene-d8		2037-26-5	52.7	50.00	105	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 3, 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_07102020 Project: DNMI00100
Sample ID: 515995001 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 10-JUL-20 08:30
Receive Date: 16-JUL-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		3.72	+/-0.589	0.923	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			107	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-008
Client Sample ID: MW-24A_07082020
Collection Date: 7/8/2020 820h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1350h	E200.8	0.000500	0.00441	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.000500	0.00990	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1616h	E200.7	20.0	512	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0100	0.152	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0100	0.0190	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1350h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1350h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1616h	E200.7	20.0	196	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1328h	E200.8	0.0100	8.31	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1926h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0200	0.0718	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 943h	E200.7	1.00	13.7	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.00500	0.00778	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1616h	E200.7	20.0	531	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1350h	E200.8	0.000500	0.00220	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1430h	E200.8	0.000300	0.00714	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 943h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1245h	E200.8	0.0100	0.0728	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-008
Client Sample ID: MW-24A_07082020
Collection Date: 7/8/2020 820h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1034h	E350.1	0.0500	0.169	
Bicarbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	3.10	
Carbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/22/2020 017h	E300.0	1.00	49.3	
Fluoride	mg/L		7/23/2020 847h	E300.0	0.400	1.99	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	-1.99	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1236h	E353.2	0.100	0.220	
Sulfate	mg/L		7/21/2020 2022h	E300.0	750	3,190	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		67.8	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		65.1	
Total Dissolved Solids	mg/L		7/13/2020 1300h	SM2540C	20.0	4,100	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		0.914	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		4,490	

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Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-008A
Client Sample ID: MW-24A_07082020
Collection Date: 7/8/2020 820h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 1321h **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
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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 web: www.awal-labs.com

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	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.9	50.00	95.8	72-135	
Surr: Toluene-d8		2037-26-5	52.2	50.00	104	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 3, 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_07082020	Project: DNMI00100
Sample ID: 515723003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-JUL-20 08:20	
Receive Date: 14-JUL-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		2.76	+/-0.476	0.914	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			110	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-009
Client Sample ID: MW-25_07072020
Collection Date: 7/7/2020 1050h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1354h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.000500	0.00139	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1619h	E200.7	20.0	376	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1354h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1354h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1619h	E200.7	20.0	129	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	1.45	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1932h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	0.0173	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 945h	E200.7	1.00	10.4	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1619h	E200.7	20.0	335	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1354h	E200.8	0.000500	0.000857	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1434h	E200.8	0.000300	0.00679	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 945h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1249h	E200.8	0.0100	< 0.0100	

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Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-009
Client Sample ID: MW-25_07072020
Collection Date: 7/7/2020 1050h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1034h	E350.1	0.0500	0.508	
Bicarbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	298	
Carbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/21/2020 2039h	E300.0	20.0	27.2	
Fluoride	mg/L		7/23/2020 903h	E300.0	0.200	0.279	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	2.38	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1237h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/21/2020 2039h	E300.0	150	1,700	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		42.2	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		44.3	
Total Dissolved Solids	mg/L		7/13/2020 1300h	SM2540C	20.0	2,960	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.07	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		2,760	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-009A
Client Sample ID: MW-25_07072020
Collection Date: 7/7/2020 1050h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 1341h **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	50.2	50.00	100	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.7	50.00	95.4	72-135	
Surr: Toluene-d8		2037-26-5	52.4	50.00	105	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 3, 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_07072020 Project: DNMI00100
Sample ID: 515723004 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 07-JUL-20 10:50
Receive Date: 14-JUL-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	+/-0.292	0.954	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			112	(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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-010
Client Sample ID: MW-26_07092020
Collection Date: 7/9/2020 745h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1358h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1621h	E200.7	20.0	554	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1358h	E200.8	0.0300	0.460	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1358h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1621h	E200.7	20.0	182	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0100	0.819	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1934h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 948h	E200.7	1.00	12.6	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1621h	E200.7	20.0	214	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1358h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1253h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1358h	E200.8	0.000500	0.0460	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 948h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1358h	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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-010
Client Sample ID: MW-26_07092020
Collection Date: 7/9/2020 745h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1035h	E350.1	0.0500	0.462	
Bicarbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	336	
Carbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/22/2020 034h	E300.0	1.00	67.6	
Fluoride	mg/L		7/23/2020 921h	E300.0	0.200	0.216	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	3.51	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1243h	E353.2	0.100	1.36	
Sulfate	mg/L		7/21/2020 2056h	E300.0	150	1,920	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		48.7	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		52.3	
Total Dissolved Solids	mg/L		7/13/2020 1300h	SM2540C	20.0	3,880	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.23	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		3,160	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-010A
Client Sample ID: MW-26_07092020
Collection Date: 7/9/2020 745h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/13/2020 1004h **Extracted:**
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	4,030	

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,510	2,500	100	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,640	2,500	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,450	2,500	97.9	72-135	
Surr: Toluene-d8		2037-26-5	2,600	2,500	104	80-124	

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Analyzed: 7/11/2020 1401h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

web: www.awal-labs.com

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	5.52	\$
Methylene chloride	75-09-2	1.00	6.59	
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	

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	50.6	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.3	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.8	50.00	99.6	72-135	
Surr: Toluene-d8		2037-26-5	53.9	50.00	108	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07092020	Project: DNMI00100
Sample ID: 515723005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 09-JUL-20 07:45	
Receive Date: 14-JUL-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		2.68	+/-0.483	0.885	1.00	pCi/L			JXC9	07/29/20	1803	2021854	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"			111	(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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-002
Client Sample ID: MW-27_07082020
Collection Date: 7/8/2020 1245h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1231h	E353.2	0.100	6.62	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-003
Client Sample ID: MW-28_07082020
Collection Date: 7/8/2020 1335h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1727h	E200.8	0.00500	0.0155	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1928h	E200.8	0.000300	0.0118	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-003
Client Sample ID: MW-28_07082020
Collection Date: 7/8/2020 1335h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		7/20/2020 1903h	E300.0	10.0	140	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1232h	E353.2	0.100	4.58	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07082020	Project: DNMI00100
Sample ID: 515723009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-JUL-20 13:35	
Receive Date: 14-JUL-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		1.60	+/-0.411	0.906	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			105	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-011
Client Sample ID: MW-30_07062020
Collection Date: 7/6/2020 1125h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1401h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1624h	E200.7	20.0	307	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1401h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1401h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1624h	E200.7	20.0	81.5	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1936h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 951h	E200.7	1.00	7.27	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.00500	0.0518	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1624h	E200.7	20.0	120	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1401h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1441h	E200.8	0.000300	0.00976	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 951h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1256h	E200.8	0.0100	< 0.0100	

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Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-011
Client Sample ID: MW-30_07062020
Collection Date: 7/6/2020 1125h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1036h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	160	
Carbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/21/2020 2146h	E300.0	10.0	185	
Fluoride	mg/L		7/29/2020 1010h	E300.0	0.100	0.350	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	3.81	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1244h	E353.2	0.200	18.4	
Sulfate	mg/L		7/21/2020 2146h	E300.0	75.0	801	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		25.4	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		27.4	
Total Dissolved Solids	mg/L		7/10/2020 1215h	SM2540C	20.0	1,700	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.05	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		1,620	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-011A
Client Sample ID: MW-30_07062020
Collection Date: 7/6/2020 1125h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/13/2020 944h **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	50.0	50.00	100	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.4	50.00	96.8	72-135	
Surr: Toluene-d8		2037-26-5	51.5	50.00	103	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07062020	Project: DNMI00100
Sample ID: 515723006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 06-JUL-20 11:25	
Receive Date: 14-JUL-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		1.28	+/-0.373	0.887	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			106	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-012
Client Sample ID: MW-31_07072020
Collection Date: 7/7/2020 1320h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1405h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1626h	E200.7	20.0	392	
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1405h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1405h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1626h	E200.7	20.0	183	
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1938h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 953h	E200.7	1.00	8.20	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.00500	0.0894	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1626h	E200.7	20.0	140	
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1405h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/15/2020 1445h	E200.8	0.000300	0.0181	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 953h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1300h	E200.8	0.0100	< 0.0100	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-012
Client Sample ID: MW-31_07072020
Collection Date: 7/7/2020 1320h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1037h	E350.1	0.0500	0.0906	
Bicarbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	152	
Carbonate (as CaCO3)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/21/2020 2236h	E300.0	10.0	370	
Fluoride	mg/L		7/23/2020 956h	E300.0	0.200	0.629	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	3.92	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1245h	E353.2	0.200	19.2	
Sulfate	mg/L		7/21/2020 2236h	E300.0	75.0	1,150	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		37.8	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		40.9	
Total Dissolved Solids	mg/L		7/13/2020 1300h	SM2540C	20.0	2,400	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.02	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		2,360	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-012A
Client Sample ID: MW-31_07072020
Collection Date: 7/7/2020 1320h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 1443h **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	50.4	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.2	50.00	98.3	72-135	
Surr: Toluene-d8		2037-26-5	51.9	50.00	104	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 3, 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_07072020	Project: DNMI00100
Sample ID: 515723007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 07-JUL-20 13:20	
Receive Date: 14-JUL-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	+/-0.321	0.919	1.00	pCi/L			JXC9	07/29/20	1803	2021854	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"			112	(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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-004
Client Sample ID: MW-32_07062020
Collection Date: 7/6/2020 1235h
Received Date: 7/10/2020 1130h

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		7/20/2020 1847h	E300.0	2.00	33.0	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-005
Client Sample ID: MW-35_07062020
Collection Date: 7/6/2020 1400h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1029h	E350.1	0.0500	0.108	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-013
Client Sample ID: MW-36_07062020
Collection Date: 7/6/2020 1525h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/14/2020 1041h	7/15/2020 1409h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/14/2020 1041h	7/22/2020 1639h	E200.7	20.0	478	²
Chromium	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/14/2020 1041h	7/15/2020 1409h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/14/2020 1041h	7/15/2020 1409h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/14/2020 1041h	7/22/2020 1639h	E200.7	20.0	150	²
Manganese	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1940h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/14/2020 1041h	7/23/2020 956h	E200.7	1.00	10.9	
Selenium	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.00500	0.227	
Silver	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/14/2020 1041h	7/22/2020 1639h	E200.7	20.0	793	²
Thallium	mg/L	7/14/2020 1041h	7/15/2020 1409h	E200.8	0.000500	0.000633	
Tin	mg/L	7/14/2020 1041h	7/15/2020 1303h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/14/2020 1041h	7/29/2020 1057h	E200.8	0.000300	0.0238	
Vanadium	mg/L	7/14/2020 1041h	7/23/2020 956h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/14/2020 1041h	7/15/2020 1303h	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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-013
Client Sample ID: MW-36_07062020
Collection Date: 7/6/2020 1525h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/22/2020 1509h	7/23/2020 1038h	E350.1	0.0500	0.0809	
Bicarbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	232	
Carbonate (as CaCO ₃)	mg/L		7/14/2020 609h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/22/2020 050h	E300.0	1.00	56.9	
Fluoride	mg/L		7/23/2020 1013h	E300.0	0.200	0.289	
Ion Balance	%		7/15/2020 1007h	Calc.	-100	7.91	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1246h	E353.2	0.100	0.223	
Sulfate	mg/L		7/21/2020 2253h	E300.0	750	2,610	
Total Anions, Measured	meq/L		7/15/2020 1007h	Calc.		60.6	
Total Cations, Measured	meq/L		7/15/2020 1007h	Calc.		71.0	
Total Dissolved Solids	mg/L		7/10/2020 1215h	SM2540C	20.0	4,810	
Total Dissolved Solids Ratio, Measured/Calculated			7/15/2020 1007h	Calc.		1.13	
Total Dissolved Solids, Calculated	mg/L		7/15/2020 1007h	Calc.		4,240	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-013A
Client Sample ID: MW-36_07062020
Collection Date: 7/6/2020 1525h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 1503h **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	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	\$
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.3	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.7	50.00	95.4	72-135	
Surr: Toluene-d8		2037-26-5	52.0	50.00	104	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07062020	Project: DNMI00100
Sample ID: 515723008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 06-JUL-20 15:25	
Receive Date: 14-JUL-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	+/-0.269	0.941	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			105	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-002
Client Sample ID: MW-38_07102020
Collection Date: 7/10/2020 755h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/17/2020 1204h	7/18/2020 1854h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/17/2020 1204h	7/27/2020 1441h	E200.7	10.0	529	
Chromium	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/17/2020 1204h	7/18/2020 1854h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/17/2020 1204h	7/18/2020 1854h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/17/2020 1204h	7/27/2020 1441h	E200.7	10.0	206	
Manganese	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1944h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0100	0.0133	
Nickel	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/17/2020 1204h	7/27/2020 1556h	E200.7	1.00	33.3	
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.00500	0.164	
Silver	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/17/2020 1204h	7/27/2020 1441h	E200.7	10.0	525	
Thallium	mg/L	7/17/2020 1204h	7/18/2020 1854h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/17/2020 1204h	7/18/2020 1753h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1934h	E200.8	0.000300	0.00675	
Vanadium	mg/L	7/17/2020 1204h	7/27/2020 1556h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/17/2020 1204h	7/18/2020 1854h	E200.8	0.0100	< 0.0100	

The sample was filtered in the field prior to analysis.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-002
Client Sample ID: MW-38_07102020
Collection Date: 7/10/2020 755h
Received Date: 7/14/2020 1105h

Analytical Results

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 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/26/2020 1440h	7/27/2020 1230h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	122	
Carbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/29/2020 525h	E300.0	1.00	38.4	
Fluoride	mg/L		7/29/2020 706h	E300.0	0.200	0.703	
Ion Balance	%		7/27/2020 1617h	Calc.	-100	10.0	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1327h	E353.2	0.200	15.7	
Sulfate	mg/L		7/28/2020 2350h	E300.0	375	2,450	
Total Anions, Measured	meq/L		7/27/2020 1617h	Calc.		54.8	
Total Cations, Measured	meq/L		7/27/2020 1617h	Calc.		67.1	
Total Dissolved Solids	mg/L		7/15/2020 1130h	SM2540C	20.0	4,160	
Total Dissolved Solids Ratio, Measured/Calculated			7/27/2020 1617h	Calc.		1.08	
Total Dissolved Solids, Calculated	mg/L		7/27/2020 1617h	Calc.		3,870	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-002A
Client Sample ID: MW-38_07102020
Collection Date: 7/10/2020 755h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 1526h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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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	49.4	50.00	98.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.8	50.00	95.7	72-135	
Surr: Toluene-d8		2037-26-5	52.1	50.00	104	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Certificate of Analysis

Report Date: August 3, 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_07102020	Project: DNMI00100
Sample ID: 515995002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-JUL-20 07:55	
Receive Date: 16-JUL-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	+/-0.234	0.907	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			108	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-003
Client Sample ID: MW-39_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/17/2020 1204h	7/18/2020 1857h	E200.8	0.000500	0.00418	
Cadmium	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.000500	0.00273	
Calcium	mg/L	7/17/2020 1204h	7/27/2020 1443h	E200.7	10.0	491	
Chromium	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0100	0.0706	
Copper	mg/L	7/17/2020 1204h	7/18/2020 1757h	F200.8	0.0100	0.0283	
Iron	mg/L	7/17/2020 1204h	7/18/2020 1836h	E200.8	1.00	14.9	
Lead	mg/L	7/17/2020 1204h	7/18/2020 1857h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/17/2020 1204h	7/27/2020 1443h	E200.7	10.0	213	
Manganese	mg/L	7/17/2020 1204h	7/18/2020 1836h	E200.8	0.0200	2.44	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 1959h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0200	0.0347	
Potassium	mg/L	7/17/2020 1204h	7/27/2020 1558h	E200.7	1.00	16.2	
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/17/2020 1204h	7/27/2020 1528h	E200.7	20.0	631	
Thallium	mg/L	7/17/2020 1204h	7/18/2020 1857h	E200.8	0.000500	0.00383	
Tin	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1937h	E200.8	0.000300	0.0118	
Vanadium	mg/L	7/17/2020 1204h	7/27/2020 1558h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/17/2020 1204h	7/18/2020 1757h	E200.8	0.0100	0.244	

The sample was filtered in the field prior to analysis.

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 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-003
Client Sample ID: MW-39_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/26/2020 1440h	7/27/2020 1231h	E350.1	0.0500	0.245	
Bicarbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Carbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/29/2020 542h	E300.0	1.00	35.3	
Fluoride	mg/L		7/29/2020 722h	E300.0	0.200	0.713	
Ion Balance	%		7/27/2020 1617h	Calc.	-100	6.91	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1328h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/29/2020 007h	E300.0	375	2,910	
Total Anions, Measured	meq/L		7/27/2020 1617h	Calc.		61.6	
Total Cations, Measured	meq/L		7/27/2020 1617h	Calc.		70.7	
Total Dissolved Solids	mg/L		7/15/2020 1130h	SM2540C	20.0	4,380	
Total Dissolved Solids Ratio, Measured/Calculated			7/27/2020 1617h	Calc.		1.02	
Total Dissolved Solids, Calculated	mg/L		7/27/2020 1617h	Calc.		4,310	

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QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-003A
Client Sample ID: MW-39_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 1547h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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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	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.7	50.00	95.4	72-135	
Surr: Toluene-d8		2037-26-5	51.7	50.00	103	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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

Certificate of Analysis

Report Date: August 3, 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_07102020 Project: DNMI00100
Sample ID: 515995003 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 10-JUL-20 11:45
Receive Date: 16-JUL-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		3.15	+/-0.571	0.885	1.00	pCi/L			JXC9	07/29/20	1803	2021854	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
Surrogate/Tracer Recovery	Test	
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"	
		Result Nominal Recovery% Acceptable Limits
		95.2 (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: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-004
Client Sample ID: MW-40_07102020
Collection Date: 7/10/2020 1105h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/17/2020 1204h	7/18/2020 1900h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/17/2020 1204h	7/27/2020 1446h	E200.7	10.0	503	
Chromium	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/17/2020 1204h	7/18/2020 1900h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/17/2020 1204h	7/18/2020 1900h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/17/2020 1204h	7/27/2020 1446h	E200.7	10.0	211	
Manganese	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	0.115	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 2019h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/17/2020 1204h	7/27/2020 1601h	E200.7	1.00	10.4	
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.00500	0.178	
Silver	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/17/2020 1204h	7/27/2020 1446h	E200.7	10.0	408	
Thallium	mg/L	7/17/2020 1204h	7/18/2020 1900h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1940h	E200.8	0.000300	0.0252	
Vanadium	mg/L	7/17/2020 1204h	7/27/2020 1601h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/17/2020 1204h	7/18/2020 1800h	E200.8	0.0100	< 0.0100	

The sample was filtered in the field prior to analysis.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-004
Client Sample ID: MW-40_07102020
Collection Date: 7/10/2020 1105h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/30/2020 1727h	7/30/2020 1917h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	290	
Carbonate (as CaCO3)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/29/2020 559h	E300.0	1.00	35.0	
Fluoride	mg/L		7/29/2020 739h	E300.0	0.200	0.759	
Ion Balance	%		7/27/2020 1617h	Calc.	-100	8.75	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1329h	E353.2	0.100	2.72	
Sulfate	mg/L		7/29/2020 024h	E300.0	150	2,110	
Total Anions, Measured	meq/L		7/27/2020 1617h	Calc.		50.8	
Total Cations, Measured	meq/L		7/27/2020 1617h	Calc.		60.5	
Total Dissolved Solids	mg/L		7/15/2020 1130h	SM2540C	20.0	3,510	
Total Dissolved Solids Ratio, Measured/Calculated			7/27/2020 1617h	Calc.		1.02	
Total Dissolved Solids, Calculated	mg/L		7/27/2020 1617h	Calc.		3,450	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-004A
Client Sample ID: MW-40_07102020
Collection Date: 7/10/2020 1105h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 1607h **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	#
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.8	50.00	102	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.8	50.00	95.5	72-135	
Surr: Toluene-d8		2037-26-5	52.5	50.00	105	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Jose Rocha
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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07102020	Project: DNMI00100
Sample ID: 515995004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-JUL-20 11:05	
Receive Date: 16-JUL-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		1.12	+/-0.377	0.954	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			107	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-005
Client Sample ID: MW-65_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/17/2020 1204h	7/18/2020 1903h	E200.8	0.000500	0.00426	
Cadmium	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.000500	0.00274	
Calcium	mg/L	7/17/2020 1204h	7/27/2020 1456h	E200.7	10.0	503	
Chromium	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0100	0.0719	
Copper	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0100	0.0289	
Iron	mg/L	7/17/2020 1204h	7/18/2020 1839h	E200.8	1.00	14.7	
Lead	mg/L	7/17/2020 1204h	7/18/2020 1903h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/17/2020 1204h	7/27/2020 1456h	E200.7	10.0	216	
Manganese	mg/L	7/17/2020 1204h	7/18/2020 1839h	E200.8	0.0200	2.41	
Mercury	mg/L	7/22/2020 1618h	7/22/2020 2021h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0200	0.0354	
Potassium	mg/L	7/17/2020 1204h	7/27/2020 1604h	E200.7	1.00	16.2	
Selenium	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/17/2020 1204h	7/27/2020 1646h	E200.7	20.0	623	
Thallium	mg/L	7/17/2020 1204h	7/18/2020 1903h	E200.8	0.000500	0.00381	
Tin	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/17/2020 1204h	7/18/2020 1943h	E200.8	0.000300	0.0123	
Vanadium	mg/L	7/17/2020 1204h	7/27/2020 1604h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/17/2020 1204h	7/18/2020 1803h	E200.8	0.0100	0.252	

The sample was filtered in the field prior to analysis.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-005
Client Sample ID: MW-65_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/26/2020 1440h	7/27/2020 1232h	E350.1	0.0500	0.370	
Bicarbonate (as CaCO ₃)	mg/L		7/15/2020 722h	SM2320B	1.00	202	
Carbonate (as CaCO ₃)	mg/L		7/15/2020 722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/29/2020 041h	E300.0	20.0	39.0	
Fluoride	mg/L		7/29/2020 756h	E300.0	0.100	0.526	
Ion Balance	%		7/27/2020 1617h	Calc.	-100	5.27	
Nitrate/Nitrite (as N)	mg/L		7/25/2020 1725h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/29/2020 041h	E300.0	150	2,830	
Total Anions, Measured	meq/L		7/27/2020 1617h	Calc.		64.1	
Total Cations, Measured	meq/L		7/27/2020 1617h	Calc.		71.2	
Total Dissolved Solids	mg/L		7/15/2020 1130h	SM2540C	20.0	4,100	
Total Dissolved Solids Ratio, Measured/Calculated			7/27/2020 1617h	Calc.		0.940	
Total Dissolved Solids, Calculated	mg/L		7/27/2020 1617h	Calc.		4,360	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-005A
Client Sample ID: MW-65_07102020
Collection Date: 7/10/2020 1145h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 1627h **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	#
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	49.8	50.00	99.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.2	50.00	94.3	72-135	
Surr: Toluene-d8		2037-26-5	51.9	50.00	104	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 3, 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_07102020	Project: DNMI00100
Sample ID: 515995005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-JUL-20 11:45	
Receive Date: 16-JUL-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		3.47	+/-0.570	0.926	1.00	pCi/L			JXC9	07/29/20	1752	2021854	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"			103	(25%-125%)								

Notes:

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

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

Column headers are defined as follows:

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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007288-014A
Client Sample ID: Trip Blank
Collection Date: 7/6/2020 1125h
Received Date: 7/10/2020 1130h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/11/2020 753h **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	4.38	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.1	50.00	102	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.7	50.00	97.5	72-135	
Surr: Toluene-d8		2037-26-5	52.3	50.00	105	80-124	

\$ - This compound exceeded (low) the control limit for the CCV.



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Sample ID: 2007367-006A
Client Sample ID: Trip Blank
Collection Date: 7/10/2020 755h
Received Date: 7/14/2020 1105h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 7/15/2020 1323h **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	5.65	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.5	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.1	50.00	96.2	72-135	
Surr: Toluene-d8		2037-26-5	52.6	50.00	105	80-124	

- This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.



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

RE: 3rd Quarter Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2007288

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 7/10/2020 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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Toll Free: (888) 263-8686
Fax: (801) 263-8687

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.

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

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 Date: 2020.08.05 16:28:17 -06'00'
--------------------------	---

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007288
Date Received: 7/10/2020 1130h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2007288-001A	MW-12_07082020	7/8/2020 920h	Aqueous	ICPMS Metals, Dissolved
2007288-002A	MW-27_07082020	7/8/2020 1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-003A	MW-28_07082020	7/8/2020 1335h	Aqueous	ICPMS Metals, Dissolved
2007288-003B	MW-28_07082020	7/8/2020 1335h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-003C	MW-28_07082020	7/8/2020 1335h	Aqueous	Anions, E300.0
2007288-004A	MW-32_07062020	7/6/2020 1235h	Aqueous	Anions, E300.0
2007288-005A	MW-35_07062020	7/6/2020 1400h	Aqueous	Ammonia, Aqueous
2007288-006A	MW-11_07072020	7/7/2020 1535h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-006B	MW-11_07072020	7/7/2020 1535h	Aqueous	Anions, E300.0
2007288-006B	MW-11_07072020	7/7/2020 1535h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-006C	MW-11_07072020	7/7/2020 1535h	Aqueous	Total Dissolved Solids, A2540C
2007288-006D	MW-11_07072020	7/7/2020 1535h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-006D	MW-11_07072020	7/7/2020 1535h	Aqueous	Ammonia, Aqueous
2007288-006E	MW-11_07072020	7/7/2020 1535h	Aqueous	Ion Balance
2007288-006E	MW-11_07072020	7/7/2020 1535h	Aqueous	ICP Metals, Dissolved
2007288-006E	MW-11_07072020	7/7/2020 1535h	Aqueous	ICPMS Metals, Dissolved
2007288-006E	MW-11_07072020	7/7/2020 1535h	Aqueous	Mercury, Drinking Water Dissolved
2007288-007A	MW-14_07062020	7/6/2020 1505h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-007B	MW-14_07062020	7/6/2020 1505h	Aqueous	Anions, E300.0
2007288-007B	MW-14_07062020	7/6/2020 1505h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-007C	MW-14_07062020	7/6/2020 1505h	Aqueous	Total Dissolved Solids, A2540C
2007288-007D	MW-14_07062020	7/6/2020 1505h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-007D	MW-14_07062020	7/6/2020 1505h	Aqueous	Ammonia, Aqueous
2007288-007E	MW-14_07062020	7/6/2020 1505h	Aqueous	ICP Metals, Dissolved
2007288-007E	MW-14_07062020	7/6/2020 1505h	Aqueous	ICPMS Metals, Dissolved
2007288-007E	MW-14_07062020	7/6/2020 1505h	Aqueous	Mercury, Drinking Water Dissolved
2007288-007E	MW-14_07062020	7/6/2020 1505h	Aqueous	Ion Balance
2007288-008A	MW-24A_07082020	7/8/2020 820h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-008B	MW-24A_07082020	7/8/2020 820h	Aqueous	Anions, E300.0

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Laboratory Director

Jose Rocha
QA Officer



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007288
Date Received: 7/10/2020 1130h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2007288-008B	MW-24A_07082020	7/8/2020 820h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-008C	MW-24A_07082020	7/8/2020 820h	Aqueous	Total Dissolved Solids, A2540C
2007288-008D	MW-24A_07082020	7/8/2020 820h	Aqueous	Ammonia, Aqueous
2007288-008D	MW-24A_07082020	7/8/2020 820h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-008E	MW-24A_07082020	7/8/2020 820h	Aqueous	Mercury, Drinking Water Dissolved
2007288-008E	MW-24A_07082020	7/8/2020 820h	Aqueous	ICPMS Metals, Dissolved
2007288-008E	MW-24A_07082020	7/8/2020 820h	Aqueous	Ion Balance
2007288-008E	MW-24A_07082020	7/8/2020 820h	Aqueous	ICP Metals, Dissolved
2007288-009A	MW-25_07072020	7/7/2020 1050h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-009B	MW-25_07072020	7/7/2020 1050h	Aqueous	Anions, E300.0
2007288-009B	MW-25_07072020	7/7/2020 1050h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-009C	MW-25_07072020	7/7/2020 1050h	Aqueous	Total Dissolved Solids, A2540C
2007288-009D	MW-25_07072020	7/7/2020 1050h	Aqueous	Ammonia, Aqueous
2007288-009D	MW-25_07072020	7/7/2020 1050h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-009E	MW-25_07072020	7/7/2020 1050h	Aqueous	ICP Metals, Dissolved
2007288-009E	MW-25_07072020	7/7/2020 1050h	Aqueous	ICPMS Metals, Dissolved
2007288-009E	MW-25_07072020	7/7/2020 1050h	Aqueous	Mercury, Drinking Water Dissolved
2007288-009E	MW-25_07072020	7/7/2020 1050h	Aqueous	Ion Balance
2007288-010A	MW-26_07092020	7/9/2020 745h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-010B	MW-26_07092020	7/9/2020 745h	Aqueous	Anions, E300.0
2007288-010B	MW-26_07092020	7/9/2020 745h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-010C	MW-26_07092020	7/9/2020 745h	Aqueous	Total Dissolved Solids, A2540C
2007288-010D	MW-26_07092020	7/9/2020 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-010D	MW-26_07092020	7/9/2020 745h	Aqueous	Ammonia, Aqueous
2007288-010E	MW-26_07092020	7/9/2020 745h	Aqueous	Ion Balance
2007288-010E	MW-26_07092020	7/9/2020 745h	Aqueous	Mercury, Drinking Water Dissolved
2007288-010E	MW-26_07092020	7/9/2020 745h	Aqueous	ICP Metals, Dissolved
2007288-010E	MW-26_07092020	7/9/2020 745h	Aqueous	ICPMS Metals, Dissolved
2007288-011A	MW-30_07062020	7/6/2020 1125h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-011B	MW-30_07062020	7/6/2020 1125h	Aqueous	Anions, E300.0

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



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007288
Date Received: 7/10/2020 1130h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2007288-011B	MW-30_07062020	7/6/2020 1125h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-011C	MW-30_07062020	7/6/2020 1125h	Aqueous	Total Dissolved Solids, A2540C
2007288-011D	MW-30_07062020	7/6/2020 1125h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-011D	MW-30_07062020	7/6/2020 1125h	Aqueous	Ammonia, Aqueous
2007288-011E	MW-30_07062020	7/6/2020 1125h	Aqueous	Mercury, Drinking Water Dissolved
2007288-011E	MW-30_07062020	7/6/2020 1125h	Aqueous	ICPMS Metals, Dissolved
2007288-011E	MW-30_07062020	7/6/2020 1125h	Aqueous	ICP Metals, Dissolved
2007288-011E	MW-30_07062020	7/6/2020 1125h	Aqueous	Ion Balance
2007288-012A	MW-31_07072020	7/7/2020 1320h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-012B	MW-31_07072020	7/7/2020 1320h	Aqueous	Anions, E300.0
2007288-012B	MW-31_07072020	7/7/2020 1320h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-012C	MW-31_07072020	7/7/2020 1320h	Aqueous	Total Dissolved Solids, A2540C
2007288-012D	MW-31_07072020	7/7/2020 1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-012D	MW-31_07072020	7/7/2020 1320h	Aqueous	Ammonia, Aqueous
2007288-012E	MW-31_07072020	7/7/2020 1320h	Aqueous	ICPMS Metals, Dissolved
2007288-012E	MW-31_07072020	7/7/2020 1320h	Aqueous	Mercury, Drinking Water Dissolved
2007288-012E	MW-31_07072020	7/7/2020 1320h	Aqueous	ICP Metals, Dissolved
2007288-012E	MW-31_07072020	7/7/2020 1320h	Aqueous	Ion Balance
2007288-013A	MW-36_07062020	7/6/2020 1525h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007288-013B	MW-36_07062020	7/6/2020 1525h	Aqueous	Anions, E300.0
2007288-013B	MW-36_07062020	7/6/2020 1525h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007288-013C	MW-36_07062020	7/6/2020 1525h	Aqueous	Total Dissolved Solids, A2540C
2007288-013D	MW-36_07062020	7/6/2020 1525h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007288-013D	MW-36_07062020	7/6/2020 1525h	Aqueous	Ammonia, Aqueous
2007288-013E	MW-36_07062020	7/6/2020 1525h	Aqueous	Ion Balance
2007288-013E	MW-36_07062020	7/6/2020 1525h	Aqueous	ICP Metals, Dissolved
2007288-013E	MW-36_07062020	7/6/2020 1525h	Aqueous	ICPMS Metals, Dissolved
2007288-013E	MW-36_07062020	7/6/2020 1525h	Aqueous	Mercury, Drinking Water Dissolved
2007288-014A	Trip Blank	7/6/2020 1125h	Aqueous	VOA by GC/MS Method 8260D/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007288

Sample Receipt Information:

Date of Receipt: 7/10/2020
Date of Collection: 7/6-7/9/2020
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
2007288-013E	Calcium	MS/MSD	High analyte concentration
2007288-013E	Sodium	MS/MSD	High analyte concentration
2007288-013E	Magnesium	MS/MSD	High analyte concentration

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

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007288

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Sample Receipt Information:

Date of Receipt: 7/10/2020
Date of Collection: 7/6-7/9/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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

web: www.awal-labs.com

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.

Kyle F. Gross

Laboratory Director

Analytical QC Requirements: All instrument calibration and calibration check requirements were met, with CCV exceptions noted on the reports. All internal standard recoveries met method criterion.

Jose Rocha

QA Officer

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

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-71097													
Date Analyzed:		07/14/2020 1710h											
Test Code:		200.7-DIS											
Date Prepared:		07/14/2020 1041h											
Calcium	10.1	mg/L	E200.7	0.211	1.00	10.00	0	101	85 - 115				
Magnesium	10.5	mg/L	E200.7	0.0654	1.00	10.00	0	105	85 - 115				
Potassium	10.9	mg/L	E200.7	0.246	1.00	10.00	0	109	85 - 115				
Sodium	11.0	mg/L	E200.7	0.123	1.00	10.00	0	110	85 - 115				
Lab Sample ID: LCS-71097													
Date Analyzed:		07/23/2020 907h											
Test Code:		200.7-DIS											
Date Prepared:		07/14/2020 1041h											
Vanadium	0.219	mg/L	E200.7	0.00252	0.00500	0.2000	0	109	85 - 115				
Lab Sample ID: LCS-71098													
Date Analyzed:		07/15/2020 1013h											
Test Code:		200.8-DIS											
Date Prepared:		07/14/2020 1041h											
Arsenic	0.206	mg/L	E200.8	0.000298	0.00200	0.2000	0	103	85 - 115				
Beryllium	0.196	mg/L	E200.8	0.000198	0.00200	0.2000	0	97.8	85 - 115				
Cadmium	0.202	mg/L	E200.8	0.0000742	0.000500	0.2000	0	101	85 - 115				
Chromium	0.199	mg/L	E200.8	0.00191	0.00200	0.2000	0	99.7	85 - 115				
Cobalt	0.205	mg/L	E200.8	0.000300	0.00400	0.2000	0	103	85 - 115				
Copper	0.204	mg/L	E200.8	0.00166	0.00200	0.2000	0	102	85 - 115				
Iron	1.03	mg/L	E200.8	0.0328	0.100	1.000	0	103	85 - 115				
Lead	0.203	mg/L	E200.8	0.000448	0.00200	0.2000	0	102	85 - 115				
Manganese	0.204	mg/L	E200.8	0.000766	0.00200	0.2000	0	102	85 - 115				
Molybdenum	0.213	mg/L	E200.8	0.000652	0.00200	0.2000	0	106	85 - 115				
Nickel	0.205	mg/L	E200.8	0.000728	0.00200	0.2000	0	102	85 - 115				
Selenium	0.200	mg/L	E200.8	0.000508	0.00200	0.2000	0	100	85 - 115				
Silver	0.208	mg/L	E200.8	0.000232	0.00200	0.2000	0	104	85 - 115				
Thallium	0.198	mg/L	E200.8	0.000390	0.00200	0.2000	0	99.1	85 - 115				
Tin	1.07	mg/L	E200.8	0.00115	0.00400	1.000	0	107	85 - 115				
Uranium	0.197	mg/L	E200.8	0.000176	0.00200	0.2000	0	98.3	85 - 115				
Zinc	1.02	mg/L	E200.8	0.00418	0.00600	1.000	0	102	85 - 115				



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2007288
Project: 3rd 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-71206	Date Analyzed:		07/18/2020 1702h										
Test Code: 200.8-DIS	Date Prepared:		07/17/2020 1204h										
Selenium	0.189	mg/L	E200.8	0.000508	0.00200	0.2000	0	94.5	85 - 115				
Uranium	0.201	mg/L	E200.8	0.000176	0.00200	0.2000	0	100	85 - 115				
Lab Sample ID: LCS-71323	Date Analyzed:		07/22/2020 1912h										
Test Code: HG-DW-DIS-245.1	Date Prepared:		07/22/2020 1618h										
Mercury	0.00358	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	107	85 - 115				



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Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-71097	Date Analyzed:		07/14/2020 1707h										
Test Code:	200.7-DIS		Date Prepared:		07/14/2020 1041h								
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-71097	Date Analyzed:		07/23/2020 926h										
Test Code:	200.7-DIS		Date Prepared:		07/14/2020 1041h								
Vanadium	< 0.00500	mg/L	E200.7	0.00252	0.00500								
Lab Sample ID: MB-71098	Date Analyzed:		07/15/2020 1010h										
Test Code:	200.8-DIS		Date Prepared:		07/14/2020 1041h								
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								
Cobalt	< 0.00400	mg/L	E200.8	0.000300	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00166	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.000766	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000652	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000728	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000232	0.00200								
Tin	< 0.00400	mg/L	E200.8	0.00115	0.00400								
Lab Sample ID: MB-FILTER-70801	Date Analyzed:		07/15/2020 1056h										
Test Code:	200.8-DIS		Date Prepared:		07/14/2020 1041h								
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								
Copper	< 0.00200	mg/L	E200.8	0.00166	0.00200								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-70801													
Date Analyzed: 07/15/2020 1056h													
Test Code: 200.8-DIS													
Date Prepared: 07/14/2020 1041h													
Iron	< 0.100	mg/L	E200.8	0.0328	0.100								
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								
Zinc	< 0.00600	mg/L	E200.8	0.00418	0.00600								
Lab Sample ID: MB-71098													
Date Analyzed: 07/15/2020 1115h													
Test Code: 200.8-DIS													
Date Prepared: 07/14/2020 1041h													
Selenium	< 0.00100	mg/L	E200.8	0.000254	0.00100								
Lab Sample ID: MB-71098													
Date Analyzed: 07/15/2020 1325h													
Test Code: 200.8-DIS													
Date Prepared: 07/14/2020 1041h													
Beryllium	< 0.000200	mg/L	E200.8	0.0000198	0.000200								
Iron	< 0.0100	mg/L	E200.8	0.00328	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000448	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.0000390	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Zinc	< 0.000600	mg/L	E200.8	0.000418	0.000600								
Lab Sample ID: MB-71206													
Date Analyzed: 07/18/2020 1658h													
Test Code: 200.8-DIS													
Date Prepared: 07/17/2020 1204h													
Selenium	< 0.000200	mg/L	E200.8	0.0000508	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Lab Sample ID: MB-71323													
Date Analyzed: 07/22/2020 1910h													
Test Code: HG-DW-DIS-245.1													
Date Prepared: 07/22/2020 1618h													
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								



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Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-013EMS		Date Analyzed: 07/22/2020 1642h											
Test Code: 200.7-DIS		Date Prepared: 07/14/2020 1041h											
Calcium	498	mg/L	E200.7	4.22	20.0	10.00	478	198	70 - 130				2
Magnesium	162	mg/L	E200.7	1.31	20.0	10.00	150	115	70 - 130				
Sodium	823	mg/L	E200.7	2.46	20.0	10.00	793	307	70 - 130				2
Lab Sample ID: 2007288-013EMS		Date Analyzed: 07/23/2020 959h											
Test Code: 200.7-DIS		Date Prepared: 07/14/2020 1041h											
Potassium	22.0	mg/L	E200.7	0.246	1.00	10.00	10.9	110	70 - 130				
Vanadium	0.211	mg/L	E200.7	0.00252	0.00500	0.2000	0	105	70 - 130				
Lab Sample ID: 2007288-013EMS		Date Analyzed: 07/15/2020 1307h											
Test Code: 200.8-DIS		Date Prepared: 07/14/2020 1041h											
Arsenic	0.205	mg/L	E200.8	0.000298	0.00200	0.2000	0	103	75 - 125				
Beryllium	0.199	mg/L	E200.8	0.000198	0.00200	0.2000	0	99.3	75 - 125				
Cadmium	0.196	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000139	98.0	75 - 125				
Chromium	0.196	mg/L	E200.8	0.00191	0.00200	0.2000	0	98.0	75 - 125				
Cobalt	0.204	mg/L	E200.8	0.000300	0.00400	0.2000	0	102	75 - 125				
Copper	0.200	mg/L	E200.8	0.00166	0.00200	0.2000	0	99.8	75 - 125				
Iron	1.02	mg/L	E200.8	0.0328	0.100	1.000	0	102	75 - 125				
Lead	0.206	mg/L	E200.8	0.000448	0.00200	0.2000	0	103	75 - 125				
Manganese	0.199	mg/L	E200.8	0.000766	0.00200	0.2000	0	99.3	75 - 125				
Molybdenum	0.223	mg/L	E200.8	0.000652	0.00200	0.2000	0.000809	111	75 - 125				
Nickel	0.203	mg/L	E200.8	0.000728	0.00200	0.2000	0.00186	101	75 - 125				
Selenium	0.422	mg/L	E200.8	0.000508	0.00200	0.2000	0.227	97.4	75 - 125				
Silver	0.193	mg/L	E200.8	0.000232	0.00200	0.2000	0	96.4	75 - 125				
Thallium	0.198	mg/L	E200.8	0.000390	0.00200	0.2000	0.000633	98.7	75 - 125				
Tin	1.14	mg/L	E200.8	0.00115	0.00400	1.000	0	114	75 - 125				
Uranium	0.238	mg/L	E200.8	0.000176	0.00200	0.2000	0.0262	106	75 - 125				
Zinc	1.04	mg/L	E200.8	0.00418	0.00600	1.000	0	104	75 - 125				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-001AMS													
Date Analyzed:	07/18/2020 1721h												
Test Code:	200.8-DIS												
Date Prepared:	07/17/2020 1204h												
Selenium	0.224	mg/L	E200.8	0.000508	0.00200	0.2000	0.0401	91.8	75 - 125				
Uranium	0.217	mg/L	E200.8	0.000176	0.00200	0.2000	0.0256	95.9	75 - 125				
Lab Sample ID: 2007367-001EMS													
Date Analyzed:	07/18/2020 1748h												
Test Code:	200.8-DIS												
Date Prepared:	07/17/2020 1204h												
Selenium	0.209	mg/L	E200.8	0.000508	0.00200	0.2000	0.0077	101	75 - 125				
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0.00649	105	75 - 125				
Lab Sample ID: 2007288-006EMS													
Date Analyzed:	07/22/2020 1920h												
Test Code:	HG-DW-DIS-245.1												
Date Prepared:	07/22/2020 1618h												
Mercury	0.00360	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	108	85 - 115				
Lab Sample ID: 2007367-002EMS													
Date Analyzed:	07/22/2020 1951h												
Test Code:	HG-DW-DIS-245.1												
Date Prepared:	07/22/2020 1618h												
Mercury	0.00355	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	107	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: 2007288

Project: 3rd 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: 2007288-013EMSD													
Date Analyzed: 07/22/2020 1644h													
Test Code: 200.7-DIS													
Date Prepared: 07/14/2020 1041h													
Calcium	477	mg/L	E200.7	4.22	20.0	10.00	478	-9.40	70 - 130	498	4.25	20	2
Magnesium	155	mg/L	E200.7	1.31	20.0	10.00	150	47.5	70 - 130	162	4.28	20	2
Sodium	787	mg/L	E200.7	2.46	20.0	10.00	793	-57.9	70 - 130	823	4.53	20	2
Lab Sample ID: 2007288-013EMSD													
Date Analyzed: 07/23/2020 1001h													
Test Code: 200.7-DIS													
Date Prepared: 07/14/2020 1041h													
Potassium	22.3	mg/L	E200.7	0.246	1.00	10.00	10.9	114	70 - 130	22	1.41	20	
Vanadium	0.213	mg/L	E200.7	0.00252	0.00500	0.2000	0	107	70 - 130	0.211	1.12	20	
Lab Sample ID: 2007288-013EMSD													
Date Analyzed: 07/15/2020 1310h													
Test Code: 200.8-DIS													
Date Prepared: 07/14/2020 1041h													
Arsenic	0.205	mg/L	E200.8	0.000298	0.00200	0.2000	0	102	75 - 125	0.205	0.256	20	
Beryllium	0.198	mg/L	E200.8	0.000198	0.00200	0.2000	0	99.0	75 - 125	0.199	0.262	20	
Cadmium	0.200	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000139	100	75 - 125	0.196	2.04	20	
Chromium	0.196	mg/L	E200.8	0.00191	0.00200	0.2000	0	98.2	75 - 125	0.196	0.247	20	
Cobalt	0.204	mg/L	E200.8	0.000300	0.00400	0.2000	0	102	75 - 125	0.204	0.0744	20	
Copper	0.200	mg/L	E200.8	0.00166	0.00200	0.2000	0	99.9	75 - 125	0.2	0.127	20	
Iron	1.07	mg/L	E200.8	0.0328	0.100	1.000	0	107	75 - 125	1.02	4.40	20	
Lead	0.205	mg/L	E200.8	0.000448	0.00200	0.2000	0	102	75 - 125	0.206	0.415	20	
Manganese	0.198	mg/L	E200.8	0.000766	0.00200	0.2000	0	99.2	75 - 125	0.199	0.0522	20	
Molybdenum	0.225	mg/L	E200.8	0.000652	0.00200	0.2000	0.000809	112	75 - 125	0.223	0.886	20	
Nickel	0.204	mg/L	E200.8	0.000728	0.00200	0.2000	0.00186	101	75 - 125	0.203	0.549	20	
Selenium	0.421	mg/L	E200.8	0.000508	0.00200	0.2000	0.227	96.9	75 - 125	0.422	0.270	20	
Silver	0.198	mg/L	E200.8	0.000232	0.00200	0.2000	0	99.0	75 - 125	0.193	2.66	20	
Thallium	0.201	mg/L	E200.8	0.000390	0.00200	0.2000	0.000633	100	75 - 125	0.198	1.61	20	
Tin	1.13	mg/L	E200.8	0.00115	0.00400	1.000	0	113	75 - 125	1.14	0.837	20	
Uranium	0.235	mg/L	E200.8	0.000176	0.00200	0.2000	0.0262	105	75 - 125	0.238	1.18	20	
Zinc	1.06	mg/L	E200.8	0.00418	0.00600	1.000	0	106	75 - 125	1.04	1.76	20	



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2007288
Project: 3rd 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: 2007288-001AMSD													
Date Analyzed:	07/18/2020 1724h												
Test Code:	200.8-DIS												
Date Prepared:	07/17/2020 1204h												
Selenium	0.240	mg/L	E200.8	0.000508	0.00200	0.2000	0.0401	100	75 - 125	0.224	7.22	20	
Uranium	0.234	mg/L	E200.8	0.000176	0.00200	0.2000	0.0256	104	75 - 125	0.217	7.22	20	
Lab Sample ID: 2007367-001EMSD													
Date Analyzed:	07/18/2020 1751h												
Test Code:	200.8-DIS												
Date Prepared:	07/17/2020 1204h												
Selenium	0.210	mg/L	E200.8	0.000508	0.00200	0.2000	0.0077	101	75 - 125	0.209	0.226	20	
Uranium	0.218	mg/L	E200.8	0.000176	0.00200	0.2000	0.00649	106	75 - 125	0.216	1.21	20	
Lab Sample ID: 2007288-006EMSD													
Date Analyzed:	07/22/2020 1922h												
Test Code:	HG-DW-DIS-245.1												
Date Prepared:	07/22/2020 1618h												
Mercury	0.00361	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	108	85 - 115	0.0036	0.231	20	
Lab Sample ID: 2007367-002EMSD													
Date Analyzed:	07/22/2020 1957h												
Test Code:	HG-DW-DIS-245.1												
Date Prepared:	07/22/2020 1618h												
Mercury	0.00354	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	106	85 - 115	0.00355	0.0470	20	

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-007CDUP Date Analyzed: 07/10/2020 1215h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,240	mg/L	SM2540C	16.0	20.0					3320	2.32	5	
Lab Sample ID: 2007288-006CDUP Date Analyzed: 07/13/2020 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,640	mg/L	SM2540C	16.0	20.0					2590	1.99	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-R141288													
Date Analyzed: 07/20/2020 1703h													
Test Code: 300.0-W													
Chloride	5.28	mg/L	E300.0	0.0565	0.100	5.000	0	106	90 - 110				
Lab Sample ID: LCS-R141407													
Date Analyzed: 07/23/2020 630h													
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-R141410													
Date Analyzed: 07/21/2020 1932h													
Test Code: 300.0-W													
Chloride	5.14	mg/L	E300.0	0.0565	0.100	5.000	0	103	90 - 110				
Sulfate	4.65	mg/L	E300.0	0.136	0.750	5.000	0	92.9	90 - 110				
Lab Sample ID: LCS-R141569													
Date Analyzed: 07/28/2020 2243h													
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-R140903													
Date Analyzed: 07/14/2020 609h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	250	mg/L	SM2320B	0.369	1.00	250.0	0	100	90 - 110				
Lab Sample ID: LCS-71311													
Date Analyzed: 07/23/2020 1023h													
Test Code: NH3-W-350.1													
Date Prepared: 07/22/2020 1509h													
Ammonia (as N)	2.09	mg/L	E350.1	0.0473	0.0500	2.000	0	105	90 - 110				
Lab Sample ID: LCS-71332													
Date Analyzed: 07/23/2020 1230h													
Test Code: NH3-W-350.1													
Date Prepared: 07/23/2020 923h													
Ammonia (as N)	2.14	mg/L	E350.1	0.0473	0.0500	2.000	0	107	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-R141434 Date Analyzed: 07/25/2020 1230h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00494	0.0100	1.000	0	104	90 - 110				
Lab Sample ID: LCS-R140884 Date Analyzed: 07/10/2020 1215h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	184	mg/L	SM2540C	8.00	10.0	205.0	0	89.8	80 - 120				
Lab Sample ID: LCS-R140924 Date Analyzed: 07/13/2020 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	216	mg/L	SM2540C	8.00	10.0	205.0	0	105	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2007288
Project: 3rd 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-R141288													
Date Analyzed: 07/20/2020 1647h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0565	0.100								
Lab Sample ID: MB-R141407													
Date Analyzed: 07/23/2020 613h													
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Lab Sample ID: MB-R141410													
Date Analyzed: 07/21/2020 1915h													
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-R141569													
Date Analyzed: 07/28/2020 2227h													
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.0240	0.100								
Lab Sample ID: MB-R140903													
Date Analyzed: 07/14/2020 609h													
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-71311													
Date Analyzed: 07/23/2020 1022h													
Test Code: NH3-W-350.1													
Date Prepared: 07/22/2020 1509h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								
Lab Sample ID: MB-71332													
Date Analyzed: 07/23/2020 1227h													
Test Code: NH3-W-350.1													
Date Prepared: 07/23/2020 923h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-R141434													
Date Analyzed: 07/25/2020 1228h													
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-R140884													
Date Analyzed: 07/10/2020 1215h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								
Lab Sample ID: MB-R140924													
Date Analyzed: 07/13/2020 1300h													
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: 2007288

Project: 3rd 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: 2007288-003CMS Date Analyzed: 07/20/2020 1920h													
Test Code: 300.0-W													
Chloride	1,130	mg/L	E300.0	11.3	20.0	1,000	140	99.5	90 - 110				
Lab Sample ID: 2007533-002AMS Date Analyzed: 07/23/2020 705h													
Test Code: 300.0-W													
Fluoride	50.3	mg/L	E300.0	0.240	1.00	50.00	0.37	99.8	90 - 110				
Lab Sample ID: 2007288-011BMS Date Analyzed: 07/21/2020 2203h													
Test Code: 300.0-W													
Chloride	715	mg/L	E300.0	5.65	10.0	500.0	185	106	90 - 110				
Sulfate	1,350	mg/L	E300.0	13.6	75.0	500.0	801	110	90 - 110				
Lab Sample ID: 2007367-005BMS Date Analyzed: 07/29/2020 057h													
Test Code: 300.0-W													
Fluoride	2,000	mg/L	E300.0	9.60	40.0	2,000	0	100	90 - 110				
Lab Sample ID: 2007288-011BMS Date Analyzed: 07/14/2020 609h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,160	mg/L	SM2320B	0.369	1.00	1,000	160	99.8	80 - 120				
Lab Sample ID: 2007288-005AMS Date Analyzed: 07/23/2020 1031h													
Test Code: NH3-W-350.1 Date Prepared: 07/22/2020 1509h													
Ammonia (as N)	2.17	mg/L	E350.1	0.0473	0.0500	2,000	0.108	103	90 - 110				
Lab Sample ID: 2007288-007DMS Date Analyzed: 07/23/2020 1233h													
Test Code: NH3-W-350.1 Date Prepared: 07/23/2020 923h													
Ammonia (as N)	2.18	mg/L	E350.1	0.0473	0.0500	2,000	0.0823	105	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-009DMS	Date Analyzed: 07/25/2020 1238h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00494	0.0100	1.000	0.0112	104	90 - 110				



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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-003CMSD Date Analyzed: 07/20/2020 1937h													
Test Code: 300.0-W													
Chloride	1,120	mg/L	E300.0	11.3	20.0	1,000	140	98.0	90 - 110	1130	1.32	20	
Lab Sample ID: 2007533-002AMSD Date Analyzed: 07/23/2020 722h													
Test Code: 300.0-W													
Fluoride	50.4	mg/L	E300.0	0.240	1.00	50.00	0.37	100	90 - 110	50.3	0.322	20	
Lab Sample ID: 2007288-011BMSD Date Analyzed: 07/21/2020 2220h													
Test Code: 300.0-W													
Chloride	715	mg/L	E300.0	5.65	10.0	500.0	185	106	90 - 110	715	0.00904	20	
Sulfate	1,330	mg/L	E300.0	13.6	75.0	500.0	801	106	90 - 110	1350	1.15	20	
Lab Sample ID: 2007367-005BMSD Date Analyzed: 07/29/2020 148h													
Test Code: 300.0-W													
Fluoride	2,000	mg/L	E300.0	9.60	40.0	2,000	0	100	90 - 110	2000	0.0330	20	
Lab Sample ID: 2007288-011BMSD Date Analyzed: 07/14/2020 609h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,160	mg/L	SM2320B	0.369	1.00	1,000	160	99.8	80 - 120	1160	0	10	
Lab Sample ID: 2007288-005AMSD Date Analyzed: 07/23/2020 1032h													
Test Code: NH3-W-350.1 Date Prepared: 07/22/2020 1509h													
Ammonia (as N)	2.16	mg/L	E350.1	0.0473	0.0500	2.000	0.108	103	90 - 110	2.17	0.646	10	
Lab Sample ID: 2007288-007DMSD Date Analyzed: 07/23/2020 1234h													
Test Code: NH3-W-350.1 Date Prepared: 07/23/2020 923h													
Ammonia (as N)	2.23	mg/L	E350.1	0.0473	0.0500	2.000	0.0823	108	90 - 110	2.18	2.40	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: 2007288

Project: 3rd 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: 2007288-009DMSD	Date Analyzed: 07/25/2020 1239h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00494	0.0100	1.000	0.0112	107	90 - 110	1.05	2.90	10	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Lab Set ID: 2007288

Dept: MSVOA

Project: 3rd Quarter Ground Water 2020

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 071120A Date Analyzed: 07/11/2020 713h													
Test Code: 8260D-W-DEN100													
2-Butanone	17.9	µg/L	SW8260D	1.22	20.0	20.00	0	89.4	69 - 236				
Acetone	15.6	µg/L	SW8260D	2.76	20.0	20.00	0	77.9	36 - 198				
Benzene	19.7	µg/L	SW8260D	0.147	1.00	20.00	0	98.7	80 - 127				
Carbon tetrachloride	20.8	µg/L	SW8260D	0.859	1.00	20.00	0	104	66 - 143				
Chloroform	19.5	µg/L	SW8260D	0.166	1.00	20.00	0	97.5	74 - 117				
Chloromethane	12.9	µg/L	SW8260D	0.802	1.00	20.00	0	64.4	30 - 149				
Methylene chloride	18.6	µg/L	SW8260D	0.381	1.00	20.00	0	93.2	65 - 154				
Naphthalene	21.5	µg/L	SW8260D	0.704	1.00	20.00	0	107	55 - 128				
Tetrahydrofuran	18.5	µg/L	SW8260D	0.436	1.00	20.00	0	92.4	59 - 135				
Toluene	19.8	µg/L	SW8260D	0.285	1.00	20.00	0	98.8	69 - 129				
Xylenes, Total	60.0	µg/L	SW8260D	0.575	1.00	60.00	0	99.9	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.2	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	50.1	µg/L	SW8260D			50.00		100	85 - 121				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260D			50.00		103	78 - 132				
Surr: Toluene-d8	51.0	µg/L	SW8260D			50.00		102	81 - 123				

Lab Sample ID: LCS VOC-2 061320A Date Analyzed: 07/13/2020 801h													
Test Code: 8260D-W-DEN100													
2-Butanone	20.0	µg/L	SW8260D	1.22	20.0	20.00	0	100	69 - 236				
Acetone	19	µg/L	SW8260D	2.76	20.0	20.00	0	95.0	36 - 198				
Benzene	18.8	µg/L	SW8260D	0.147	1.00	20.00	0	93.8	80 - 127				
Carbon tetrachloride	19.8	µg/L	SW8260D	0.859	1.00	20.00	0	99.2	66 - 143				
Chloroform	18.9	µg/L	SW8260D	0.166	1.00	20.00	0	94.6	74 - 117				
Chloromethane	17.0	µg/L	SW8260D	0.802	1.00	20.00	0	85.0	30 - 149				
Methylene chloride	17.9	µg/L	SW8260D	0.381	1.00	20.00	0	89.4	65 - 154				
Naphthalene	21.2	µg/L	SW8260D	0.704	1.00	20.00	0	106	55 - 128				
Tetrahydrofuran	19.8	µg/L	SW8260D	0.436	1.00	20.00	0	99.1	59 - 135				
Toluene	19.3	µg/L	SW8260D	0.285	1.00	20.00	0	96.5	69 - 129				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-2 061320A	Date Analyzed: 07/13/2020 801h												
Test Code: 8260D-W-DEN100													
Xylenes, Total	57.6	µg/L	SW8260D	0.575	1.00	60.00	0	96.0	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.0	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	49.6	µg/L	SW8260D			50.00		99.2	85 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	50.7	µg/L	SW8260D			50.00		101	81 - 123				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Lab Set ID: 2007288

Dept: MSVOA

Project: 3rd Quarter Ground Water 2020

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 071120A Date Analyzed: 07/11/2020 733h													
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.22	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.76	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.859	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.802	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.381	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	0.285	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.575	1.00								
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	51.8	µg/L	SW8260D			50.00		104	85 - 121				
Surr: Dibromofluoromethane	49.0	µg/L	SW8260D			50.00		97.9	78 - 132				
Surr: Toluene-d8	52.1	µg/L	SW8260D			50.00		104	81 - 123				

Lab Sample ID: MB VOC-2 061320A Date Analyzed: 07/13/2020 822h													
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.22	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.76	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.859	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.802	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.381	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	0.285	1.00								



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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-2 061320A	Date Analyzed: 07/13/2020 822h												
Test Code: 8260D-W-DEN100													
Xylenes, Total	< 1.00	µg/L	SW8260D	0.575	1.00								
Surr: 1,2-Dichloroethane-d4	50.4	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	52.1	µg/L	SW8260D			50.00		104	85 - 121				
Surr: Dibromofluoromethane	48.2	µg/L	SW8260D			50.00		96.3	78 - 132				
Surr: Toluene-d8	52.1	µg/L	SW8260D			50.00		104	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-006AMS		Date Analyzed: 07/11/2020 854h											
Test Code: 8260D-W-DEN100													
2-Butanone	19.4	µg/L	SW8260D	1.22	20.0	20.00	0	97.1	69 - 236				
Acetone	19.3	µg/L	SW8260D	2.76	20.0	20.00	0	96.4	36 - 198				
Benzene	21.1	µg/L	SW8260D	0.147	1.00	20.00	0	106	80 - 127				
Carbon tetrachloride	22.1	µg/L	SW8260D	0.859	1.00	20.00	0	110	66 - 143				
Chloroform	20.8	µg/L	SW8260D	0.166	1.00	20.00	0	104	74 - 117				
Chloromethane	12.8	µg/L	SW8260D	0.802	1.00	20.00	0	64.2	30 - 149				
Methylene chloride	19.4	µg/L	SW8260D	0.381	1.00	20.00	0	97.2	65 - 154				
Naphthalene	23.0	µg/L	SW8260D	0.704	1.00	20.00	0	115	55 - 128				
Tetrahydrofuran	19.8	µg/L	SW8260D	0.436	1.00	20.00	0	99.0	59 - 135				
Toluene	21.4	µg/L	SW8260D	0.285	1.00	20.00	0	107	69 - 129				
Xylenes, Total	64.3	µg/L	SW8260D	0.575	1.00	60.00	0	107	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.7	85 - 121				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	51.4	µg/L	SW8260D			50.00		103	81 - 123				
Lab Sample ID: 2007288-010AMS		Date Analyzed: 07/13/2020 1025h											
Test Code: 8260D-W-DEN100													
2-Butanone	1,010	µg/L	SW8260D	61.0	1,000	1,000	0	101	69 - 236				
Acetone	949	µg/L	SW8260D	138	1,000	1,000	0	94.8	36 - 198				
Benzene	1,010	µg/L	SW8260D	7.35	50.0	1,000	0	101	80 - 127				
Carbon tetrachloride	1,080	µg/L	SW8260D	43.0	50.0	1,000	0	108	66 - 143				
Chloroform	5,100	µg/L	SW8260D	8.30	50.0	1,000	4030	107	74 - 117				
Chloromethane	904	µg/L	SW8260D	40.1	50.0	1,000	0	90.4	30 - 149				
Methylene chloride	925	µg/L	SW8260D	19.0	50.0	1,000	0	92.5	65 - 154				
Naphthalene	1,080	µg/L	SW8260D	35.2	50.0	1,000	0	108	55 - 128				
Tetrahydrofuran	980	µg/L	SW8260D	21.8	50.0	1,000	0	98.0	59 - 135				
Toluene	1,040	µg/L	SW8260D	14.3	50.0	1,000	0	104	69 - 129				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-010AMS		Date Analyzed: 07/13/2020 1025h											
Test Code: 8260D-W-DEN100													
Xylenes, Total	3,100	µg/L	SW8260D	28.8	50.0	3,000	0	103	66 - 124				
Surr: 1,2-Dichloroethane-d4	2,510	µg/L	SW8260D			2,500		100	80 - 136				
Surr: 4-Bromofluorobenzene	2,560	µg/L	SW8260D			2,500		102	85 - 121				
Surr: Dibromofluoromethane	2,580	µg/L	SW8260D			2,500		103	78 - 132				
Surr: Toluene-d8	2,590	µg/L	SW8260D			2,500		104	81 - 123				



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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-006AMSD		Date Analyzed: 07/11/2020 915h											
Test Code: 8260D-W-DEN100													
2-Butanone	19.7	µg/L	SW8260D	1.22	20.0	20.00	0	98.3	69 - 236	19.4	1.23	35	
Acetone	19.6	µg/L	SW8260D	2.76	20.0	20.00	0	97.8	36 - 198	19.3	1.39	35	
Benzene	21.8	µg/L	SW8260D	0.147	1.00	20.00	0	109	80 - 127	21.1	3.31	35	
Carbon tetrachloride	22.8	µg/L	SW8260D	0.859	1.00	20.00	0	114	66 - 143	22.1	3.29	35	
Chloroform	21.2	µg/L	SW8260D	0.166	1.00	20.00	0	106	74 - 117	20.8	2.00	35	
Chloromethane	12.4	µg/L	SW8260D	0.802	1.00	20.00	0	62.0	30 - 149	12.8	3.57	35	
Methylene chloride	20.5	µg/L	SW8260D	0.381	1.00	20.00	0	102	65 - 154	19.4	5.16	35	
Naphthalene	24.1	µg/L	SW8260D	0.704	1.00	20.00	0	121	55 - 128	23	4.75	35	
Tetrahydrofuran	19.5	µg/L	SW8260D	0.436	1.00	20.00	0	97.6	59 - 135	19.8	1.42	35	
Toluene	22.3	µg/L	SW8260D	0.285	1.00	20.00	0	111	69 - 129	21.4	4.12	35	
Xylenes, Total	66.2	µg/L	SW8260D	0.575	1.00	60.00	0	110	66 - 124	64.3	2.91	35	
Surr: 1,2-Dichloroethane-d4	51.0	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	51.3	µg/L	SW8260D			50.00		103	81 - 123				

Lab Sample ID: 2007288-010AMSD		Date Analyzed: 07/13/2020 1045h											
Test Code: 8260D-W-DEN100													
2-Butanone	1,000	µg/L	SW8260D	61.0	1,000	1,000	0	100	69 - 236	1010	0.596	35	
Acetone	967	µg/L	SW8260D	138	1,000	1,000	0	96.7	36 - 198	949	1.93	35	
Benzene	974	µg/L	SW8260D	7.35	50.0	1,000	0	97.4	80 - 127	1010	3.23	35	
Carbon tetrachloride	1,030	µg/L	SW8260D	43.0	50.0	1,000	0	103	66 - 143	1090	5.25	35	
Chloroform	4,960	µg/L	SW8260D	8.30	50.0	1,000	4030	93.1	74 - 117	5100	2.83	35	
Chloromethane	876	µg/L	SW8260D	40.1	50.0	1,000	0	87.6	30 - 149	905	3.26	35	
Methylene chloride	931	µg/L	SW8260D	19.0	50.0	1,000	0	93.1	65 - 154	925	0.701	35	
Naphthalene	1,070	µg/L	SW8260D	35.2	50.0	1,000	0	107	55 - 128	1080	1.58	35	
Tetrahydrofuran	1,000	µg/L	SW8260D	21.8	50.0	1,000	0	100	59 - 135	980	2.02	35	
Toluene	989	µg/L	SW8260D	14.3	50.0	1,000	0	98.9	69 - 129	1040	4.74	35	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007288

Project: 3rd 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: 2007288-010AMSD		Date Analyzed: 07/13/2020 1045h											
Test Code: 8260D-W-DEN100													
Xylenes, Total	2,990	µg/L	SW8260D	28.8	50.0	3,000	0	99.7	66 - 124	3100	3.45	35	
Surr: 1,2-Dichloroethane-d4	2,540	µg/L	SW8260D			2,500		102	80 - 136				
Surr: 4-Bromofluorobenzene	2,560	µg/L	SW8260D			2,500		103	85 - 121				
Surr: Dibromofluoromethane	2,590	µg/L	SW8260D			2,500		104	78 - 132				
Surr: Toluene-d8	2,590	µg/L	SW8260D			2,500		104	81 - 123				

WORK ORDER Summary

Work Order: **2007288**

Page 1 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: 3rd Quarter Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*"R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2007288-001A	MW-12_07082020	7/8/2020 0920h	7/10/2020 1130h	200.8-DIS 2 SEL Analytes: SE U 200.8-DIS-PR	Aqueous		DF-Metals	1
2007288-002A	MW-27_07082020	7/8/2020 1245h	7/10/2020 1130h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous		DF-NO2/NO3	1
2007288-003A	MW-28_07082020	7/8/2020 1335h	7/10/2020 1130h	200.8-DIS 2 SEL Analytes: SE U 200.8-DIS-PR	Aqueous		DF-Metals	1
2007288-003B				NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N			DF-NO2/NO3	
2007288-003C				300.0-W 1 SEL Analytes: CL			DF-cl	
2007288-004A	MW-32_07062020	7/6/2020 1235h	7/10/2020 1130h	300.0-W 1 SEL Analytes: CL	Aqueous		DF-cl	1
2007288-005A	MW-35_07062020	7/6/2020 1400h	7/10/2020 1130h	NH3-W-350.1 1 SEL Analytes: NH3N NH3-W-PR	Aqueous		DF-NH3	1
2007288-006A	MW-11_07072020	7/7/2020 1535h	7/10/2020 1130h	8260D-W-DEN100 Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4	Aqueous		VOCFridge	3
2007288-006B				300.0-W 3 SEL Analytes: CL F SO4 ALK-W-2320B-LL 2 SEL Analytes: ALKB ALKC			df - wc	1
2007288-006C				TDS-W-2540C 1 SEL Analytes: TDS			df - tds	
2007288-006D				NH3-W-350.1 1 SEL Analytes: NH3N NH3-W-PR			df - no2/no3 & nh3	

WORK ORDER Summary

Work Order: **2007288** Page 2 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2007288-006D	MW-11_07072020	7/7/2020 1535h	7/10/2020 1130h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	df - no2/no3 & nh3	1
2007288-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
2007288-007A	MW-14_07062020	7/6/2020 1505h	7/10/2020 1130h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
2007288-007B				300.0-W- <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
2007288-007C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		df - tds	
2007288-007D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
2007288-007E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	

WORK ORDER Summary

Work Order: **2007288**

Page 3 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
2007288-008A	MW-24A_07082020	7/8/2020 0820h	7/10/2020 1130h	8260D-W-DEN100	Aqueous		VOCFridge 3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
2007288-008B				300.0-W			df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
2007288-008C				TDS-W-2540C			df - tds
				<i>1 SEL Analytes: TDS</i>			
2007288-008D				NH3-W-350.1			df - no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR			df - no2/no3 & nh3
				NO2/NO3-W-353.2			df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
2007288-008E				200.7-DIS			df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
2007288-009A	MW-25_07072020	7/7/2020 1050h	7/10/2020 1130h	8260D-W-DEN100	Aqueous		VOCFridge 3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
2007288-009B				300.0-W			df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
2007288-009C				TDS-W-2540C			df - tds
				<i>1 SEL Analytes: TDS</i>			
2007288-009D				NH3-W-350.1			df - no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR			df - no2/no3 & nh3
				NO2/NO3-W-353.2			df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			

WORK ORDER Summary

Work Order: **2007288**

Page 4 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2007288-009E	MW-25_07072020	7/7/2020 1050h	7/10/2020 1130h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous		df-met	1
				200.7-DIS-PR			df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met	
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met	
				HG-DW-DIS-PR			df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met	
2007288-010A	MW-26_07092020	7/9/2020 0745h	7/10/2020 1130h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge	3
2007288-010B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc	
2007288-010C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			df - tds	
2007288-010D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>			df - no2/no3 & nh3	
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3	
2007288-010E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met	
				200.7-DIS-PR			df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met	
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met	
				HG-DW-DIS-PR			df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met	

WORK ORDER Summary

Work Order: **2007288**

Page 5 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2007288-011A	MW-30_07062020	7/6/2020 1125h	7/10/2020 1130h	8260D-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2007288-011B				300.0-W			df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL			df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
2007288-011C				TDS-W-2540C			df - tds	
				<i>1 SEL Analytes: TDS</i>				
2007288-011D				NH3-W-350.1			df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
2007288-011E				200.7-DIS			df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				<i>5.SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
2007288-012A	MW-31_07072020	7/7/2020 1320h	7/10/2020 1130h	8260D-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2007288-012B				300.0-W			df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL			df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
2007288-012C				TDS-W-2540C			df - tds	
				<i>1 SEL Analytes: TDS</i>				
2007288-012D				NH3-W-350.1			df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				

WORK ORDER Summary

Work Order: **2007288** Page 6 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2007288-012E	MW-31_07072020	7/7/2020 1320h	7/10/2020 1130h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous		df-met	1
				200.7-DIS-PR			df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met	
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met	
				HG-DW-DIS-PR			df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met	
2007288-013A	MW-36_07062020	7/6/2020 1525h	7/10/2020 1130h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge	3
2007288-013B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc	
2007288-013C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			df - tds	
2007288-013D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>			df - no2/no3 & nh3	
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3	
2007288-013E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met	
				200.7-DIS-PR			df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met	
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met	
				HG-DW-DIS-PR			df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met	

WORK ORDER Summary

Work Order: **2007288**

Page 7 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 7/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2007288-014A	Trip Blank	7/6/2020 1125h	7/10/2020 1130h	8260D-W-DEN100	Aqueous		VOCFridge	3
<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>								



American West Analytical Laboratories

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

CHAIN OF CUSTODY

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

2007288

AWAL Lab Sample Set #
 Page 1 of 2

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

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191 Blanding, UT 84511**
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; KWeinel@energyfuels.com**
 Project Name: **3rd Quarter Ground Water 2020**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Thallium (200.7/200.8)	SO ₄ (4500 or 300.0)	Fl (4500 or 300.0)	Dissolved Beryllium (200.7/200.8)	Ammonia (350.1)	Dissolved Nickel (200.7/200.8)	Include EDD: LOCUS UPLOAD EXCEL	Field Filtered For: Dissolved Metals	For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:	Known Hazards & Sample Comments
1 MW-12_07082020	7/8/2020	920	1	W				X		X										
2 MW-27_07082020	7/8/2020	1245	1	W	X															
3 MW-28_07082020	7/8/2020	1335	3	W	X	X		X	X											
4 MW-32_07062020	7/6/2020	1235	1	W		X														
5 MW-35_07062020	7/6/2020	1400	1	W											X					
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Laboratory Use Only

Samples Were: WHS
 Shipped or hand delivered
 Ambient of: Cooled
 Temperature: 1.3 °C

Received Broken/Leaking (Improperly Sealed)
 Y N

Properly Preserved
 Y N

Checked at bench
 Y N

Received Within Holding Times
 Y N

Present on Outer Package
 Y N NA

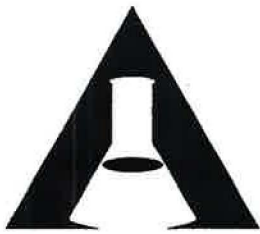
Unbroken on Outer Package
 Y N NA

Present on Sample
 Y N NA

Unbroken on Sample
 Y N NA

Discrepancies Between Sample Labels and COC Record?
 Y N

Relinquished by: Signature <u>Tanner Holliday</u>	Date: 7/9/2020	Received by: Signature <u>Elmer Hansen</u>	Date: 7/10/20	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Print Name: Elmer Hansen	Time: 1130	
Relinquished by: Signature _____	Date: _____	Received by: Signature _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	
Relinquished by: Signature _____	Date: _____	Received by: Signature _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	
Relinquished by: Signature _____	Date: _____	Received by: Signature _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	



American West Analytical Laboratories

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

2007288

AWAL Lab Sample Set #

Page 2 of 2

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:	
3		Standard					
# of Containers Sample Matrix NO2/NO3 (353.2) NH3 (4500G or 350.1) Fl, Cl, SO4 (4500 or 300.0) TDS (2540C) Carb/Bicarb (2320B) Dissolved Metals (200.7/200.8/245.1) As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, 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:		
	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		1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature 0.3 °C 4 Received Broken/Leaking (Improperly Sealed) Y N 5 Properly Preserved Y N Checked at bench Y N 6 Received Within Holding Times Y N		
	COC Tape Was:						
	1 Present on Outer Package		Y N NA				
	2 Unbroken on Outer Package		Y N NA				
	3 Present on Sample		Y N NA				
	4 Unbroken on Sample		Y N NA				
	Discrepancies Between Sample Labels and COC Record?		Y N				

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **gpalmor@energyfuels.com; KWeinel@energyfuels.com;**
tholliday@energyfuels.com
 Project Name: **3rd Quarter Ground Water 2020**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
MW-11_07072020	7/7/2020	1535	7	W	x	x	x	x	x	x	x	x	x	
MW-14_07062020	7/6/2020	1505	7	W	x	x	x	x	x	x	x	x	x	
MW-24A_07082020	7/8/2020	820	7	W	x	x	x	x	x	x	x	x	x	
MW-25_07072020	7/7/2020	1050	7	W	x	x	x	x	x	x	x	x	x	
MW-26_07092020	7/9/2020	745	7	W	x	x	x	x	x	x	x	x	x	
MW-30_07062020	7/6/2020	1125	7	W	x	x	x	x	x	x	x	x	x	
MW-31_07072020	7/7/2020	1320	7	W	x	x	x	x	x	x	x	x	x	
MW-36_07062020	7/6/2020	1525	7	W	x	x	x	x	x	x	x	x	x	
Trip Blank	7/6/2020	1125	3	W									X	

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 7/9/2020	Received by: Signature <i>Elmer Hays</i>	Date: 7/10/20	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Print Name: Elmer Hays	Time: 1130	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	

Lab Set ID: 2007288

pH Lot #: 6387

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	5	6	7	8	9	10	11	12	13						
Ammonia	pH <2 H ₂ SO ₄				Yes	Yes	Yes	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	Yes	Yes	Yes						
NO ₂ /NO ₃	pH <2 H ₂ SO ₄		Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
O & G	pH <2 HCL																		
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.



August 10, 2020

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

Re: White Mesa Mill GW
Work Order: 515723

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 14, 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: 515723

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 515723**

August 10, 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 July 14, 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.

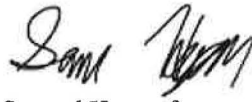
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
515723001	MW-11_07072020
515723002	MW-14_07062020
515723003	MW-24A_07082020
515723004	MW-25_07072020
515723005	MW-26_07092020
515723006	MW-30_07062020
515723007	MW-31_07072020
515723008	MW-36_07062020
515723009	MW-28_07082020

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, appearing to read "Sam Hogan".

Samuel Hogan for
Julie Robinson
Project Manager

515723



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
Q3 Ground Water 2020	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11_07072020	7/7/2020	1535	Gross Alpha
MW-14_07062020	7/6/2020	1505	Gross Alpha
MW-24A_07082020	7/8/2020	820	Gross Alpha
MW-25_07072020	7/7/2020	1050	Gross Alpha
MW-26_07092020	7/9/2020	745	Gross Alpha
MW-30_07062020	7/6/2020	1125	Gross Alpha
MW-31_07072020	7/7/2020	1320	Gross Alpha
MW-36_07062020	7/6/2020	1525	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i> Tanner Holliday	Date/Time 7/9/2020 1100	Received By:(Signature) <i>Stacy Bowen</i>	Date/Time 7-14-20 10:05
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time



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
Q3 Ground Water 2020	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11_07072020	7/7/2020	1535	Gross Alpha
MW-14_07062020	7/6/2020	1505	Gross Alpha
MW-24A_07082020	7/8/2020	820	Gross Alpha
MW-25_07072020	7/7/2020	1050	Gross Alpha
MW-26_07092020	7/9/2020	745	Gross Alpha
MW-30_07062020	7/6/2020	1125	Gross Alpha
MW-31_07072020	7/7/2020	1320	Gross Alpha
MW-36_07062020	7/6/2020	1525	Gross Alpha
MW-28_07082020	7/8/2020	1335	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

TH

Relinquished By:(Signature) <i>Tanner Holliday</i> Tanner Holliday	Date/Time 7/9/2020 1100	Received By:(Signature)	Date/Time
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

515723

Client: DNMI		SDG/AR/COC/Work Order:	
Received By: <i>Stacy Boone</i>		Date Received: 7/14/20	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other 1Z 187 Y4Y 12 9766 7667	
Suspected Hazard Information		Yes	No
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. <input checked="" type="checkbox"/> PCBs 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 None Other: *all temperatures are recorded in Celsius TEMP: 21 C
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: IRI-19 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) RECEIVED MW - 28 - 0708 2020 NOT ON COC
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):			

PM (or PMA) review: Initials *SH* Date **7/19/20** Page **1** of **1**

GEL Laboratories LLC – Login Review Report

Report Date: 10-AUG-20

Work Order: 515723

Page 1 of 2

GEL Work Order/SDG: 515723 Q3 Ground Water 2020
 Client SDG: 515723
 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: 11-AUG-20
 Package Due Date: 09-AUG-20
 EDD Due Date: 11-AUG-20
 Due Date: 11-AUG-20
 JAR1,NG1

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

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
515723001	MW-11_07072020		07-JUL-20 15:35	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723002	MW-14_07062020		06-JUL-20 15:05	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723003	MW-24A_07082020		08-JUL-20 08:20	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723004	MW-25_07072020		07-JUL-20 10:50	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723005	MW-26_07092020		09-JUL-20 07:45	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723006	MW-30_07062020		06-JUL-20 11:25	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723007	MW-31_07072020		07-JUL-20 13:20	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723008	MW-36_07062020		06-JUL-20 15:25	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		
515723009	MW-28_07082020		08-JUL-20 13:35	14-JUL-20 10:05	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-11_07072020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-14_07062020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-24A_07082020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-25_07072020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-26_07092020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-30_07062020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-31_07072020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-36_07062020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-009 MW-28_07082020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

GEL Laboratories LLC – Login Review Report

Report Date: 10-AUG-20
 Work Order: 515723
 Page 2 of 2

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

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

Action	Product Name	Description	Samples
Contingent Tests			

Requirement	Include?	Comments

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

Sam Hogan

From: Kathy Weinel <KWeinel@energyfuels.com>
Sent: Tuesday, July 14, 2020 12:03 PM
To: Julie Robinson
Cc: N. Tanner Holliday; Team Robinson
Subject: RE: Sample received at GEL today, 7/14/20

Julie,

We will get you a revised COC.

Analyze as per usual.

K



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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From: Julie Robinson <Julie.Robinson@gel.com>
Sent: Tuesday, July 14, 2020 9:57 AM
To: Kathy Weinel <KWeinel@energyfuels.com>
Cc: N. Tanner Holliday <tholliday@energyfuels.com>; Team Robinson <Team.Robinson@gel.com>
Subject: Sample received at GEL today, 7/14/20

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,

GEL received a container for sample MW-28 07082020 collected 7/8/20 at 13:35 that was not listed on the COC. Please advise?

Thanks,

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 ext.4289 | Fax: 843.766.1178
E-Mail: julie.robinson@gel.com | Website: www.gel.com

Analytical Testing



GEL Laboratories is an Essential Business and remains open to support your analytical needs.

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List of current GEL Certifications as of 10 August 2020

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	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	T104704235-20-17
Utah NELAP	SC000122020-32
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 515723**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

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

Analytical Batch: 2021854

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
515723001	MW-11_07072020
515723002	MW-14_07062020
515723003	MW-24A_07082020
515723004	MW-25_07072020
515723005	MW-26_07092020
515723006	MW-30_07062020
515723007	MW-31_07072020
515723008	MW-36_07062020
515723009	MW-28_07082020
1204601563	Method Blank (MB)
1204601564	515723008(MW-36_07062020) Sample Duplicate (DUP)
1204601565	515723008(MW-36_07062020) Matrix Spike (MS)
1204601566	515723008(MW-36_07062020) Matrix Spike Duplicate (MSD)
1204601567	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 1204601565 (MW-36_07062020MS) and 1204601566 (MW-36_07062020MSD) were recounted due to low recovery. The recounts are reported.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1204601565 (MW-36_07062020MS) and 1204601566 (MW-36_07062020MSD), aliquots were reduced to conserve sample volume.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 515723 GEL Work Order: 515723

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: 07 AUG 2020

Title: Group Leader

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 3, 2020

Page 1 of

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

Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 515723

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2021854										
QC1204601564	515723008	DUP									
Gross Radium Alpha	U	0.226	U	0.583	pCi/L	N/A		N/A	JXC9	07/29/20	17:5
	Uncertainty	+/-0.269		+/-0.309							
QC1204601567	LCS										
Gross Radium Alpha	570			458	pCi/L		80.3	(75%-125%)		07/29/20	18:0
	Uncertainty			+/-6.31							
QC1204601563	MB										
Gross Radium Alpha			U	-0.246	pCi/L					07/29/20	17:5
	Uncertainty			+/-0.153							
QC1204601565	515723008	MS									
Gross Radium Alpha	2300	U	0.226	1770	pCi/L		76.6	(75%-125%)		07/31/20	10:1
	Uncertainty		+/-0.269	+/-21.0							
QC1204601566	515723008	MSD									
Gross Radium Alpha	2300	U	0.226	1770	pCi/L	0.0434	76.7	(0%-20%)		07/31/20	10:1
	Uncertainty		+/-0.269	+/-21.0							

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: 515723

Page 2 of

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

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



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

RE: 3rd Quarter Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2007367

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 7/14/2020 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

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.

web: www.awal-labs.com

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
	Date: 2020.08.05 16:30:02 -06'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007367
Date Received: 7/14/2020 1105h

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
2007367-001A	MW-24_07102020	7/10/2020 830h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007367-001B	MW-24_07102020	7/10/2020 830h	Aqueous	Anions, E300.0
2007367-001B	MW-24_07102020	7/10/2020 830h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007367-001C	MW-24_07102020	7/10/2020 830h	Aqueous	Total Dissolved Solids, A2540C
2007367-001D	MW-24_07102020	7/10/2020 830h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007367-001D	MW-24_07102020	7/10/2020 830h	Aqueous	Ammonia, Aqueous
2007367-001E	MW-24_07102020	7/10/2020 830h	Aqueous	Ion Balance
2007367-001E	MW-24_07102020	7/10/2020 830h	Aqueous	ICP Metals, Dissolved
2007367-001E	MW-24_07102020	7/10/2020 830h	Aqueous	ICPMS Metals, Dissolved
2007367-001E	MW-24_07102020	7/10/2020 830h	Aqueous	Mercury, Drinking Water Dissolved
2007367-002A	MW-38_07102020	7/10/2020 755h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007367-002B	MW-38_07102020	7/10/2020 755h	Aqueous	Anions, E300.0
2007367-002B	MW-38_07102020	7/10/2020 755h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007367-002C	MW-38_07102020	7/10/2020 755h	Aqueous	Total Dissolved Solids, A2540C
2007367-002D	MW-38_07102020	7/10/2020 755h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007367-002D	MW-38_07102020	7/10/2020 755h	Aqueous	Ammonia, Aqueous
2007367-002E	MW-38_07102020	7/10/2020 755h	Aqueous	Ion Balance
2007367-002E	MW-38_07102020	7/10/2020 755h	Aqueous	ICP Metals, Dissolved
2007367-002E	MW-38_07102020	7/10/2020 755h	Aqueous	ICPMS Metals, Dissolved
2007367-002E	MW-38_07102020	7/10/2020 755h	Aqueous	Mercury, Drinking Water Dissolved
2007367-003A	MW-39_07102020	7/10/2020 1145h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007367-003B	MW-39_07102020	7/10/2020 1145h	Aqueous	Anions, E300.0
2007367-003B	MW-39_07102020	7/10/2020 1145h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007367-003C	MW-39_07102020	7/10/2020 1145h	Aqueous	Total Dissolved Solids, A2540C
2007367-003D	MW-39_07102020	7/10/2020 1145h	Aqueous	Ammonia, Aqueous
2007367-003D	MW-39_07102020	7/10/2020 1145h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007367-003E	MW-39_07102020	7/10/2020 1145h	Aqueous	Ion Balance
2007367-003E	MW-39_07102020	7/10/2020 1145h	Aqueous	ICP Metals, Dissolved
2007367-003E	MW-39_07102020	7/10/2020 1145h	Aqueous	ICPMS Metals, Dissolved



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007367
Date Received: 7/14/2020 1105h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2007367-003E	MW-39_07102020	7/10/2020 1145h	Aqueous	Mercury, Drinking Water Dissolved
2007367-004A	MW-40_07102020	7/10/2020 1105h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007367-004B	MW-40_07102020	7/10/2020 1105h	Aqueous	Anions, E300.0
2007367-004B	MW-40_07102020	7/10/2020 1105h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007367-004C	MW-40_07102020	7/10/2020 1105h	Aqueous	Total Dissolved Solids, A2540C
2007367-004D	MW-40_07102020	7/10/2020 1105h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007367-004D	MW-40_07102020	7/10/2020 1105h	Aqueous	Ammonia, Aqueous
2007367-004E	MW-40_07102020	7/10/2020 1105h	Aqueous	ICP Metals, Dissolved
2007367-004E	MW-40_07102020	7/10/2020 1105h	Aqueous	ICPMS Metals, Dissolved
2007367-004E	MW-40_07102020	7/10/2020 1105h	Aqueous	Ion Balance
2007367-004E	MW-40_07102020	7/10/2020 1105h	Aqueous	Mercury, Drinking Water Dissolved
2007367-005A	MW-65_07102020	7/10/2020 1145h	Aqueous	VOA by GC/MS Method 8260D/5030C
2007367-005B	MW-65_07102020	7/10/2020 1145h	Aqueous	Anions, E300.0
2007367-005B	MW-65_07102020	7/10/2020 1145h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2007367-005C	MW-65_07102020	7/10/2020 1145h	Aqueous	Total Dissolved Solids, A2540C
2007367-005D	MW-65_07102020	7/10/2020 1145h	Aqueous	Nitrite/Nitrate (as N), E353.2
2007367-005D	MW-65_07102020	7/10/2020 1145h	Aqueous	Ammonia, Aqueous
2007367-005E	MW-65_07102020	7/10/2020 1145h	Aqueous	Ion Balance
2007367-005E	MW-65_07102020	7/10/2020 1145h	Aqueous	ICP Metals, Dissolved
2007367-005E	MW-65_07102020	7/10/2020 1145h	Aqueous	ICPMS Metals, Dissolved
2007367-005E	MW-65_07102020	7/10/2020 1145h	Aqueous	Mercury, Drinking Water Dissolved
2007367-006A	Trip Blank	7/10/2020 755h	Aqueous	VOA by GC/MS Method 8260D/5030C

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Laboratory Director

Jose Rocha

QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007367

3440 South 700 West
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Sample Receipt Information:

Date of Receipt: 7/14/2020
Date of Collection: 7/10/2020
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
2007367-001E	Calcium	MS/MSD	High analyte concentration
2007367-001E	Sodium	MS	High analyte concentration
2007367-001E	Manganese	MSD	High analyte concentration

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

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: 3rd Quarter Ground Water 2020
Lab Set ID: 2007367

3440 South 700 West
Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 7/14/2020
Date of Collection: 7/10/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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

web: www.awal-labs.com

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.

Kyle F. Gross

Laboratory Director

Analytical QC Requirements: All instrument calibration and calibration check requirements were met, with CCV exceptions noted on the reports. All internal standard recoveries met method criterion.

Jose Rocha

QA Officer

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

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-71205													
Date Analyzed:		07/27/2020 1533h											
Test Code:		200.7-DIS											
Date Prepared:		07/17/2020 1204h											
Calcium	9.87	mg/L	E200.7	0.211	1.00	10.00	0	98.7	85 - 115				
Magnesium	10.2	mg/L	E200.7	0.0654	1.00	10.00	0	102	85 - 115				
Potassium	11.0	mg/L	E200.7	0.246	1.00	10.00	0	110	85 - 115				
Sodium	10.9	mg/L	E200.7	0.123	1.00	10.00	0	109	85 - 115				
Vanadium	0.212	mg/L	E200.7	0.00252	0.00500	0.2000	0	106	85 - 115				
Lab Sample ID: LCS-71206													
Date Analyzed:		07/18/2020 1702h											
Test Code:		200.8-DIS											
Date Prepared:		07/17/2020 1204h											
Arsenic	0.197	mg/L	E200.8	0.000298	0.00200	0.2000	0	98.3	85 - 115				
Beryllium	0.195	mg/L	E200.8	0.000198	0.00200	0.2000	0	97.4	85 - 115				
Cadmium	0.191	mg/L	E200.8	0.0000742	0.000500	0.2000	0	95.4	85 - 115				
Chromium	0.196	mg/L	E200.8	0.00191	0.00200	0.2000	0	98.2	85 - 115				
Cobalt	0.195	mg/L	E200.8	0.000300	0.00400	0.2000	0	97.3	85 - 115				
Copper	0.193	mg/L	E200.8	0.00166	0.00200	0.2000	0	96.4	85 - 115				
Iron	0.963	mg/L	E200.8	0.0328	0.100	1.000	0	96.3	85 - 115				
Lead	0.198	mg/L	E200.8	0.000448	0.00200	0.2000	0	98.8	85 - 115				
Manganese	0.196	mg/L	E200.8	0.000766	0.00200	0.2000	0	97.8	85 - 115				
Molybdenum	0.196	mg/L	E200.8	0.000652	0.00200	0.2000	0	98.0	85 - 115				
Nickel	0.195	mg/L	E200.8	0.000728	0.00200	0.2000	0	97.3	85 - 115				
Selenium	0.189	mg/L	E200.8	0.000508	0.00200	0.2000	0	94.5	85 - 115				
Silver	0.192	mg/L	E200.8	0.000232	0.00200	0.2000	0	96.2	85 - 115				
Thallium	0.190	mg/L	E200.8	0.000390	0.00200	0.2000	0	95.0	85 - 115				
Tin	0.986	mg/L	E200.8	0.00115	0.00400	1.000	0	98.6	85 - 115				
Uranium	0.201	mg/L	E200.8	0.000176	0.00200	0.2000	0	100	85 - 115				
Zinc	0.977	mg/L	E200.8	0.00418	0.00600	1.000	0	97.7	85 - 115				
Lab Sample ID: LCS-71323													
Date Analyzed:		07/22/2020 1912h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		07/22/2020 1618h											
Mercury	0.00358	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	107	85 - 115				



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Lab Set ID: 2007367

Dept: ME

Project: 3rd Quarter Ground Water 2020

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-71205		Date Analyzed: 07/27/2020 1531h											
Test Code: 200.7-DIS		Date Prepared: 07/17/2020 1204h											
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								
Vanadium	< 0.00500	mg/L	E200.7	0.00252	0.00500								
Lab Sample ID: MB-71206		Date Analyzed: 07/18/2020 1658h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
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								
Copper	< 0.000200	mg/L	E200.8	0.000166	0.000200								
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								
Lab Sample ID: MB-FILTER-71156		Date Analyzed: 07/18/2020 1806h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Cadmium	< 0.000500	mg/L	E200.8	0.0000742	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00191	0.00200								

Report Date: 8/5/2020 Page 23 of 37



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-71156	Date Analyzed:		07/18/2020 1806h										
Test Code:	Date Prepared:		200.8-DIS 07/17/2020 1204h										
Copper	< 0.00200	mg/L	E200.8	0.00166	0.00200								
Lead	< 0.00200	mg/L	E200.8	0.000448	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000728	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000232	0.00200								
Zinc	< 0.00600	mg/L	E200.8	0.00418	0.00600								
Lab Sample ID: MB-71323	Date Analyzed:		07/22/2020 1910h										
Test Code:	Date Prepared:		HG-DW-DIS-245.1 07/22/2020 1618h										
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: 2007367

Project: 3rd 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: 2007367-001EMS		Date Analyzed: 07/27/2020 1436h											
Test Code: 200.7-DIS		Date Prepared: 07/17/2020 1204h											
Calcium	529	mg/L	E200.7	2.11	10.0	10.00	530	-7.87	70 - 130				2
Magnesium	216	mg/L	E200.7	0.654	10.0	10.00	205	105	70 - 130				
Sodium	538	mg/L	E200.7	1.23	10.0	10.00	533	49.9	70 - 130				2
Lab Sample ID: 2007367-001EMS		Date Analyzed: 07/27/2020 1550h											
Test Code: 200.7-DIS		Date Prepared: 07/17/2020 1204h											
Potassium	27.1	mg/L	E200.7	0.246	1.00	10.00	15.2	119	70 - 130				
Vanadium	0.216	mg/L	E200.7	0.00252	0.00500	0.2000	0	108	70 - 130				
Lab Sample ID: 2007288-001AMS		Date Analyzed: 07/18/2020 1721h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Arsenic	0.199	mg/L	E200.8	0.000298	0.00200	0.2000	0.000327	99.5	75 - 125				
Beryllium	0.173	mg/L	E200.8	0.000198	0.00200	0.2000	0	86.7	75 - 125				
Cadmium	0.179	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000132	89.7	75 - 125				
Chromium	0.184	mg/L	E200.8	0.00191	0.00200	0.2000	0	92.0	75 - 125				
Cobalt	0.181	mg/L	E200.8	0.000300	0.00400	0.2000	0	90.7	75 - 125				
Copper	0.176	mg/L	E200.8	0.00166	0.00200	0.2000	0	87.8	75 - 125				
Iron	0.912	mg/L	E200.8	0.0328	0.100	1.000	0	91.2	75 - 125				
Lead	0.182	mg/L	E200.8	0.000448	0.00200	0.2000	0	90.9	75 - 125				
Manganese	0.205	mg/L	E200.8	0.000766	0.00200	0.2000	0.0239	90.5	75 - 125				
Molybdenum	0.200	mg/L	E200.8	0.000652	0.00200	0.2000	0.00112	99.2	75 - 125				
Nickel	0.180	mg/L	E200.8	0.000728	0.00200	0.2000	0.000928	89.6	75 - 125				
Selenium	0.224	mg/L	E200.8	0.000508	0.00200	0.2000	0.0401	91.8	75 - 125				
Silver	0.174	mg/L	E200.8	0.000232	0.00200	0.2000	0	87.2	75 - 125				
Thallium	0.178	mg/L	E200.8	0.000390	0.00200	0.2000	0	89.2	75 - 125				
Tin	0.998	mg/L	E200.8	0.00115	0.00400	1.000	0	99.8	75 - 125				
Uranium	0.217	mg/L	E200.8	0.000176	0.00200	0.2000	0.0256	95.9	75 - 125				
Zinc	0.931	mg/L	E200.8	0.00418	0.00600	1.000	0	93.1	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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: 2007367-001EMS		Date Analyzed: 07/18/2020 1748h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Arsenic	0.219	mg/L	E200.8	0.000298	0.00200	0.2000	0.00223	108	75 - 125				
Beryllium	0.184	mg/L	E200.8	0.000198	0.00200	0.2000	0.00259	90.5	75 - 125				
Cadmium	0.215	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00843	103	75 - 125				
Chromium	0.209	mg/L	E200.8	0.00191	0.00200	0.2000	0	105	75 - 125				
Cobalt	0.340	mg/L	E200.8	0.000300	0.00400	0.2000	0.133	104	75 - 125				
Copper	0.213	mg/L	E200.8	0.00166	0.00200	0.2000	0.012	100	75 - 125				
Iron	1.08	mg/L	E200.8	0.0328	0.100	1.000	0.0699	101	75 - 125				
Lead	0.203	mg/L	E200.8	0.000448	0.00200	0.2000	0.00291	100	75 - 125				
Molybdenum	0.228	mg/L	E200.8	0.000652	0.00200	0.2000	0	114	75 - 125				
Nickel	0.282	mg/L	E200.8	0.000728	0.00200	0.2000	0.0767	103	75 - 125				
Selenium	0.209	mg/L	E200.8	0.000508	0.00200	0.2000	0.0077	101	75 - 125				
Silver	0.196	mg/L	E200.8	0.000232	0.00200	0.2000	0	97.8	75 - 125				
Thallium	0.199	mg/L	E200.8	0.000390	0.00200	0.2000	0.00307	97.7	75 - 125				
Tin	1.13	mg/L	E200.8	0.00115	0.00400	1.000	0	113	75 - 125				
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0.00649	105	75 - 125				
Zinc	1.22	mg/L	E200.8	0.00418	0.00600	1.000	0.159	106	75 - 125				
Lab Sample ID: 2007367-001EMS		Date Analyzed: 07/18/2020 1830h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Manganese	8.17	mg/L	E200.8	0.00383	0.0100	0.2000	8.01	77.0	75 - 125				
Lab Sample ID: 2007288-006EMS		Date Analyzed: 07/22/2020 1920h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 07/22/2020 1618h											
Mercury	0.00360	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	108	85 - 115				
Lab Sample ID: 2007367-002EMS		Date Analyzed: 07/22/2020 1951h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 07/22/2020 1618h											
Mercury	0.00355	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	107	85 - 115				

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: 2007367

Project: 3rd 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: 2007367-001EMSD													
Date Analyzed:	07/27/2020 1438h												
Test Code:	200.7-DIS												
Date Prepared:	07/17/2020 1204h												
Calcium	534	mg/L	E200.7	2.11	10.0	10.00	530	46.2	70 - 130	529	1.02	20	2
Magnesium	214	mg/L	E200.7	0.654	10.0	10.00	205	89.7	70 - 130	216	0.708	20	
Sodium	542	mg/L	E200.7	1.23	10.0	10.00	533	85.0	70 - 130	538	0.650	20	
Lab Sample ID: 2007367-001EMSD													
Date Analyzed:	07/27/2020 1553h												
Test Code:	200.7-DIS												
Date Prepared:	07/17/2020 1204h												
Potassium	27.3	mg/L	E200.7	0.246	1.00	10.00	15.2	122	70 - 130	27.1	0.906	20	
Vanadium	0.219	mg/L	E200.7	0.00252	0.00500	0.2000	0	110	70 - 130	0.216	1.21	20	
Lab Sample ID: 2007288-001AMSD													
Date Analyzed:	07/18/2020 1724h												
Test Code:	200.8-DIS												
Date Prepared:	07/17/2020 1204h												
Arsenic	0.217	mg/L	E200.8	0.000298	0.00200	0.2000	0.000327	108	75 - 125	0.199	8.35	20	
Beryllium	0.188	mg/L	E200.8	0.000198	0.00200	0.2000	0	93.9	75 - 125	0.173	7.91	20	
Cadmium	0.198	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000132	98.9	75 - 125	0.179	9.82	20	
Chromium	0.203	mg/L	E200.8	0.00191	0.00200	0.2000	0	101	75 - 125	0.184	9.65	20	
Cobalt	0.199	mg/L	E200.8	0.000300	0.00400	0.2000	0	99.4	75 - 125	0.181	9.21	20	
Copper	0.193	mg/L	E200.8	0.00166	0.00200	0.2000	0	96.6	75 - 125	0.176	9.60	20	
Iron	0.997	mg/L	E200.8	0.0328	0.100	1.000	0	99.7	75 - 125	0.912	8.91	20	
Lead	0.200	mg/L	E200.8	0.000448	0.00200	0.2000	0	99.8	75 - 125	0.182	9.25	20	
Manganese	0.222	mg/L	E200.8	0.000766	0.00200	0.2000	0.0239	99.0	75 - 125	0.205	7.95	20	
Molybdenum	0.222	mg/L	E200.8	0.000652	0.00200	0.2000	0.00112	111	75 - 125	0.2	10.8	20	
Nickel	0.197	mg/L	E200.8	0.000728	0.00200	0.2000	0.000928	98.0	75 - 125	0.18	8.92	20	
Selenium	0.240	mg/L	E200.8	0.000508	0.00200	0.2000	0.0401	100	75 - 125	0.224	7.22	20	
Silver	0.192	mg/L	E200.8	0.000232	0.00200	0.2000	0	95.8	75 - 125	0.174	9.35	20	
Thallium	0.197	mg/L	E200.8	0.000390	0.00200	0.2000	0	98.6	75 - 125	0.178	10.0	20	
Tin	1.11	mg/L	E200.8	0.00115	0.00400	1.000	0	111	75 - 125	0.998	10.3	20	
Uranium	0.234	mg/L	E200.8	0.000176	0.00200	0.2000	0.0256	104	75 - 125	0.217	7.22	20	
Zinc	1.02	mg/L	E200.8	0.00418	0.00600	1.000	0	102	75 - 125	0.931	9.36	20	



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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Contact: Tanner Holliday

Lab Set ID: 2007367

Dept: ME

Project: 3rd Quarter Ground Water 2020

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: 2007367-001EMSD		Date Analyzed: 07/18/2020 1751h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Arsenic	0.220	mg/L	E200.8	0.000298	0.00200	0.2000	0.00223	109	75 - 125	0.219	0.631	20	
Beryllium	0.182	mg/L	E200.8	0.000198	0.00200	0.2000	0.00259	89.5	75 - 125	0.184	1.05	20	
Cadmium	0.214	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00843	103	75 - 125	0.215	0.481	20	
Chromium	0.210	mg/L	E200.8	0.00191	0.00200	0.2000	0	105	75 - 125	0.209	0.475	20	
Cobalt	0.345	mg/L	E200.8	0.000300	0.00400	0.2000	0.133	106	75 - 125	0.34	1.40	20	
Copper	0.215	mg/L	E200.8	0.00166	0.00200	0.2000	0.012	102	75 - 125	0.213	1.09	20	
Iron	1.09	mg/L	E200.8	0.0328	0.100	1.000	0.0699	102	75 - 125	1.08	1.23	20	
Lead	0.208	mg/L	E200.8	0.000448	0.00200	0.2000	0.00291	103	75 - 125	0.203	2.42	20	
Molybdenum	0.228	mg/L	E200.8	0.000652	0.00200	0.2000	0	114	75 - 125	0.228	0.0857	20	
Nickel	0.285	mg/L	E200.8	0.000728	0.00200	0.2000	0.0767	104	75 - 125	0.282	0.963	20	
Selenium	0.210	mg/L	E200.8	0.000508	0.00200	0.2000	0.0077	101	75 - 125	0.209	0.226	20	
Silver	0.194	mg/L	E200.8	0.000232	0.00200	0.2000	0	97.0	75 - 125	0.196	0.796	20	
Thallium	0.203	mg/L	E200.8	0.000390	0.00200	0.2000	0.00307	100	75 - 125	0.199	2.41	20	
Tin	1.16	mg/L	E200.8	0.00115	0.00400	1.000	0	116	75 - 125	1.13	2.14	20	
Uranium	0.218	mg/L	E200.8	0.000176	0.00200	0.2000	0.00649	106	75 - 125	0.216	1.21	20	
Zinc	1.25	mg/L	E200.8	0.00418	0.00600	1.000	0.159	109	75 - 125	1.22	2.04	20	
Lab Sample ID: 2007367-001EMSD		Date Analyzed: 07/18/2020 1833h											
Test Code: 200.8-DIS		Date Prepared: 07/17/2020 1204h											
Manganese	8.15	mg/L	E200.8	0.00383	0.0100	0.2000	8.01	67.3	75 - 125	8.17	0.238	20	2
Lab Sample ID: 2007288-006EMSD		Date Analyzed: 07/22/2020 1922h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 07/22/2020 1618h											
Mercury	0.00361	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	108	85 - 115	0.0036	0.231	20	
Lab Sample ID: 2007367-002EMSD		Date Analyzed: 07/22/2020 1957h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 07/22/2020 1618h											
Mercury	0.00354	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	106	85 - 115	0.00355	0.0470	20	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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: 2007367-001B													
Date Analyzed: 07/30/2020 1724h													
Test Code: 300.0-W													
Sulfate	2,780	mg/L	E300.0	136	750					2980	7.25	20	
Lab Sample ID: 2007367-001CDUP													
Date Analyzed: 07/15/2020 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	4,380	mg/L	SM2540C	16.0	20.0					4320	1.20	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-R141569		Date Analyzed: 07/28/2020 2243h											
Test Code: 300.0-W													
Chloride	5.01	mg/L	E300.0	0.0565	0.100	5.000	0	100	90 - 110				
Fluoride	5.25	mg/L	E300.0	0.0240	0.100	5.000	0	105	90 - 110				
Sulfate	5.01	mg/L	E300.0	0.136	0.750	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R141600		Date Analyzed: 07/29/2020 2053h											
Test Code: 300.0-W													
Sulfate	4.59	mg/L	E300.0	0.136	0.750	5.000	0	91.8	90 - 110				
Lab Sample ID: LCS-R140962		Date Analyzed: 07/15/2020 722h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	248	mg/L	SM2320B	0.369	1.00	250.0	0	99.2	90 - 110				
Lab Sample ID: LCS-71367		Date Analyzed: 07/27/2020 1225h											
Test Code: NH3-W-350.1		Date Prepared: 07/26/2020 1440h											
Ammonia (as N)	1.92	mg/L	E350.1	0.0473	0.0500	2.000	0	96.0	90 - 110				
Lab Sample ID: LCS-71497		Date Analyzed: 07/30/2020 1917h											
Test Code: NH3-W-350.1		Date Prepared: 07/30/2020 1727h											
Ammonia (as N)	2.13	mg/L	E350.1	0.0473	0.0500	2.000	0	106	90 - 110				
Lab Sample ID: LCS-R141435		Date Analyzed: 07/25/2020 1305h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00494	0.0100	1.000	0	104	90 - 110				
Lab Sample ID: LCS-R141041		Date Analyzed: 07/15/2020 1130h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	208	mg/L	SM2540C	8.00	10.0	205.0	0	101	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-R141569													
Date Analyzed: 07/28/2020 2227h													
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-R141600													
Date Analyzed: 07/29/2020 2035h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.136	0.750								
Lab Sample ID: MB-R140962													
Date Analyzed: 07/15/2020 722h													
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-71367													
Date Analyzed: 07/27/2020 1225h													
Test Code: NH3-W-350.1													
Date Prepared: 07/26/2020 1440h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								
Lab Sample ID: MB-71497													
Date Analyzed: 07/30/2020 1916h													
Test Code: NH3-W-350.1													
Date Prepared: 07/30/2020 1727h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0473	0.0500								
Lab Sample ID: MB-R141435													
Date Analyzed: 07/25/2020 1304h													
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-R141041													
Date Analyzed: 07/15/2020 1130h													
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: 2007367

Project: 3rd 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: 2007367-005BMS		Date Analyzed: 07/29/2020 057h											
Test Code: 300.0-W													
Chloride	1,950	mg/L	E300.0	22.6	40.0	2,000	39	95.3	90 - 110				
Fluoride	2,000	mg/L	E300.0	9.60	40.0	2,000	0	100	90 - 110				
Sulfate	4,720	mg/L	E300.0	54.4	300	2,000	2830	94.4	90 - 110				
Lab Sample ID: 2007367-001BMS		Date Analyzed: 07/15/2020 722h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	54.4	mg/L	SM2320B	0.369	1.00	50.00	5	98.8	80 - 120				
Lab Sample ID: 2007367-001DMS		Date Analyzed: 07/27/2020 1227h											
Test Code: NH3-W-350.1		Date Prepared: 07/26/2020 1440h											
Ammonia (as N)	2.14	mg/L	E350.1	0.0473	0.0500	2.000	0.145	100	90 - 110				
Lab Sample ID: 2007367-001DMS		Date Analyzed: 07/25/2020 1322h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.33	mg/L	E353.2	0.00494	0.0100	1.000	0.262	107	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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: 2007367-005BMSD		Date Analyzed: 07/29/2020 148h											
Test Code: 300.0-W													
Chloride	1,940	mg/L	E300.0	22.6	40.0	2,000	39	95.2	90 - 110	1950	0.155	20	
Fluoride	2,000	mg/L	E300.0	9.60	40.0	2,000	0	100	90 - 110	2000	0.0330	20	
Sulfate	4,780	mg/L	E300.0	54.4	300	2,000	2830	97.7	90 - 110	4720	1.38	20	
Lab Sample ID: 2007367-001BMSD		Date Analyzed: 07/15/2020 722h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	54.5	mg/L	SM2320B	0.369	1.00	50.00	5	99.0	80 - 120	54.4	0.184	10	
Lab Sample ID: 2007367-001DMSD		Date Analyzed: 07/27/2020 1228h											
Test Code: NH3-W-350.1		Date Prepared: 07/26/2020 1440h											
Ammonia (as N)	2.07	mg/L	E350.1	0.0473	0.0500	2.000	0.145	96.4	90 - 110	2.14	3.42	10	
Lab Sample ID: 2007367-001DMSD		Date Analyzed: 07/25/2020 1326h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.35	mg/L	E353.2	0.00494	0.0100	1.000	0.262	109	90 - 110	1.33	1.57	10	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-2 071520A													
Date Analyzed: 07/15/2020 724h													
Test Code: 8260D-W-DEN100													
2-Butanone	19.6	µg/L	SW8260D	1.22	20.0	20.00	0	97.8	69 - 236				
Acetone	18.2	µg/L	SW8260D	2.76	20.0	20.00	0	91.2	36 - 198				
Benzene	19.8	µg/L	SW8260D	0.147	1.00	20.00	0	99.0	80 - 127				
Carbon tetrachloride	20.8	µg/L	SW8260D	0.859	1.00	20.00	0	104	66 - 143				
Chloroform	19.6	µg/L	SW8260D	0.166	1.00	20.00	0	98.0	74 - 117				
Chloromethane	17.7	µg/L	SW8260D	0.802	1.00	20.00	0	88.4	30 - 149				
Methylene chloride	18.6	µg/L	SW8260D	0.381	1.00	20.00	0	93.3	65 - 154				
Naphthalene	19.4	µg/L	SW8260D	0.704	1.00	20.00	0	97.0	55 - 128				
Tetrahydrofuran	18.9	µg/L	SW8260D	0.436	1.00	20.00	0	94.7	59 - 135				
Toluene	20.1	µg/L	SW8260D	0.285	1.00	20.00	0	101	69 - 129				
Xylenes, Total	60.3	µg/L	SW8260D	0.575	1.00	60.00	0	100	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.0	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	50.7	µg/L	SW8260D			50.00		101	85 - 121				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260D			50.00		102	78 - 132				
Surr: Toluene-d8	51.6	µg/L	SW8260D			50.00		103	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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-2 071520A													
Date Analyzed: 07/15/2020 858h													
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.22	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.76	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.859	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.802	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.381	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	0.285	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.575	1.00								
Surr: 1,2-Dichloroethane-d4	49.8	µg/L	SW8260D			50.00		99.5	80 - 136				
Surr: 4-Bromofluorobenzene	53.1	µg/L	SW8260D			50.00		106	85 - 121				
Surr: Dibromofluoromethane	48.3	µg/L	SW8260D			50.00		96.7	78 - 132				
Surr: Toluene-d8	51.6	µg/L	SW8260D			50.00		103	81 - 123				



3440 South 700 West

Salt Lake City, UT 84119

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

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2007367

Project: 3rd 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: 2007367-001AMS		Date Analyzed: 07/15/2020 1222h											
Test Code: 8260D-W-DEN100													
2-Butanone	21.1	µg/L	SW8260D	1.22	20.0	20.00	0	105	69 - 236				
Acetone	20.5	µg/L	SW8260D	2.76	20.0	20.00	0	102	36 - 198				
Benzene	19.7	µg/L	SW8260D	0.147	1.00	20.00	0	98.6	80 - 127				
Carbon tetrachloride	20.7	µg/L	SW8260D	0.859	1.00	20.00	0	104	66 - 143				
Chloroform	19.8	µg/L	SW8260D	0.166	1.00	20.00	0	99.2	74 - 117				
Chloromethane	16.9	µg/L	SW8260D	0.802	1.00	20.00	0	84.3	30 - 149				
Methylene chloride	18.2	µg/L	SW8260D	0.381	1.00	20.00	0	91.0	65 - 154				
Naphthalene	20.8	µg/L	SW8260D	0.704	1.00	20.00	0	104	55 - 128				
Tetrahydrofuran	20.5	µg/L	SW8260D	0.436	1.00	20.00	0	103	59 - 135				
Toluene	20.2	µg/L	SW8260D	0.285	1.00	20.00	0	101	69 - 129				
Xylenes, Total	59.5	µg/L	SW8260D	0.575	1.00	60.00	0	99.2	66 - 124				
Surr: 1,2-Dichloroethane-d4	51.0	µg/L	SW8260D			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260D			50.00		102	85 - 121				
Surr: Dibromofluoromethane	51.5	µg/L	SW8260D			50.00		103	78 - 132				
Surr: Toluene-d8	51.5	µg/L	SW8260D			50.00		103	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: 2007367

Project: 3rd 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: 2007367-001AMSD		Date Analyzed: 07/15/2020 1242h											
Test Code: 8260D-W-DEN100													
2-Butanone	20.4	µg/L	SW8260D	1.22	20.0	20.00	0	102	69 - 236	21.1	3.47	35	
Acetone	21.1	µg/L	SW8260D	2.76	20.0	20.00	0	105	36 - 198	20.5	2.93	35	
Benzene	20.1	µg/L	SW8260D	0.147	1.00	20.00	0	100	80 - 127	19.7	1.76	35	
Carbon tetrachloride	20.6	µg/L	SW8260D	0.859	1.00	20.00	0	103	66 - 143	20.7	0.727	35	
Chloroform	20.1	µg/L	SW8260D	0.166	1.00	20.00	0	100	74 - 117	19.9	1.20	35	
Chloromethane	17.3	µg/L	SW8260D	0.802	1.00	20.00	0	86.6	30 - 149	16.9	2.63	35	
Methylene chloride	18.3	µg/L	SW8260D	0.381	1.00	20.00	0	91.5	65 - 154	18.2	0.603	35	
Naphthalene	20.8	µg/L	SW8260D	0.704	1.00	20.00	0	104	55 - 128	20.8	0.144	35	
Tetrahydrofuran	20.5	µg/L	SW8260D	0.436	1.00	20.00	0	103	59 - 135	20.5	0.0974	35	
Toluene	20.3	µg/L	SW8260D	0.285	1.00	20.00	0	101	69 - 129	20.2	0.544	35	
Xylenes, Total	60.1	µg/L	SW8260D	0.575	1.00	60.00	0	100	66 - 124	59.5	1.04	35	
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260D			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260D			50.00		102	85 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260D			50.00		104	78 - 132				
Surr: Toluene-d8	51.6	µg/L	SW8260D			50.00		103	81 - 123				

WORK ORDER Summary

Work Order: **2007367** Page 1 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 7/29/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: 3rd Quarter Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "**R_" samples as MS/MSD.; *ef*

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2007367-001A	MW-24_07102020	7/10/2020 0830h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
2007367-001B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			
2007367-001C				TDS-W-2540C		df - tds	
				<i>1 SEL Analytes: TDS</i>			
2007367-001D				NH3-W-350.1		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR			
				<i>df - no2/no3 & nh3</i>			
				NO2/NO3-W-353.2			
				<i>1 SEL Analytes: NO3NO2N</i>			
2007367-001E				200.7-DIS		df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			
				<i>df-met</i>			
				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>			
				200.8-DIS-PR			
				<i>df-met</i>			
				HG-DW-DIS-245.1			
				<i>df-met</i>			
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			
				<i>df-met</i>			
				IONBALANCE			
				<i>df-met</i>			
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
2007367-002A	MW-38_07102020	7/10/2020 0755h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
2007367-002B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			
2007367-002C				TDS-W-2540C		df - tds	
				<i>1 SEL Analytes: TDS</i>			

WORK ORDER Summary

Work Order: **2007367** Page 2 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 7/29/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage		
2007367-002D	MW-38_07102020	7/10/2020 0755h	7/14/2020 1105h	NH3-W-350.1	Aqueous	df - no2/no3 & nh3	1	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR				df - no2/no3 & nh3
2007367-002E				NO2/NO3-W-353.2		df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>				
				200.7-DIS		df-met		
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		df-met		
				200.8-DIS		df-met		
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		df-met		
				HG-DW-DIS-245.1		df-met		
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		df-met		
				<i>1 SEL Analytes: HG</i>				
				IONBALANCE		df-met		
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
2007367-003A	MW-39_07102020	7/10/2020 1145h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3	
				<i>Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
2007367-003B				300.0-W		df - wc	1	
				<i>3 SEL Analytes: CL F SO4</i>				
2007367-003C				ALK-W-2320B-LL		df - wc		
				<i>2 SEL Analytes: ALKB ALKC</i>				
2007367-003D				TDS-W-2540C		df - tds		
				<i>1 SEL Analytes: TDS</i>				
2007367-003E				NH3-W-350.1		df - no2/no3 & nh3		
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		df - no2/no3 & nh3		
				NO2/NO3-W-353.2		df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>				
				200.7-DIS		df-met		
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		df-met		
				200.8-DIS		df-met		
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		df-met		
				HG-DW-DIS-245.1		df-met		
				<i>1 SEL Analytes: HG</i>				

WORK ORDER Summary

Work Order: **2007367**

Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 7/29/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
2007367-003E	MW-39_07102020	7/10/2020 1145h	7/14/2020 1105h	HG-DW-DIS-PR	Aqueous	df-met	1
				IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
2007367-004A	MW-40_07102020	7/10/2020 1105h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4			
2007367-004B				300.0-W		df - wc	1
				3 SEL Analytes: CL F SO4			
2007367-004C				ALK-W-2320B-LL		df - wc	
				2 SEL Analytes: ALKB ALKC			
2007367-004D				TDS-W-2540C		df - tds	
				1 SEL Analytes: TDS			
2007367-004E				NH3-W-350.1		df - no2/no3 & nh3	
				1 SEL Analytes: NH3N			
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N			
2007367-004E				200.7-DIS		df-met	
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				1 SEL Analytes: HG			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
2007367-005A	MW-65_07102020	7/10/2020 1145h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4			
2007367-005B				300.0-W		df - wc	1
				3 SEL Analytes: CL F SO4			
2007367-005C				ALK-W-2320B-LL		df - wc	
				2 SEL Analytes: ALKB ALKC			
2007367-005D				TDS-W-2540C		df - tds	
				1 SEL Analytes: TDS			
2007367-005D				NH3-W-350.1		df - no2/no3 & nh3	
				1 SEL Analytes: NH3N			

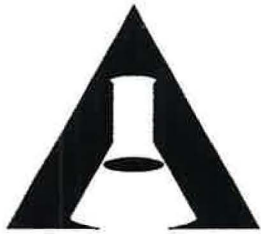
WORK ORDER Summary

Work Order: **2007367** Page 4 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 7/29/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2007367-005D	MW-65_07102020	7/10/2020 1145h	7/14/2020 1105h	NH3-W-PR	Aqueous	df - no2/no3 & nh3	1
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
2007367-005E				1 SEL Analytes: NO3NO2N			
				200.7-DIS	df-met		
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR	df-met		
				200.8-DIS	df-met		
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR	df-met		
				HG-DW-DIS-245.1	df-met		
				1 SEL Analytes: HG			
				HG-DW-DIS-PR	df-met		
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
				IONBALANCE	df-met		
2007367-006A	Trip Blank	7/10/2020 0755h	7/14/2020 1105h	8260D-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4			



American West Analytical Laboratories

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

CHAIN OF CUSTODY

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

2007367

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 #:
gpalmer@energyfuels.com; KWeinel@energyfuels.com;
 Email: **tholliday@energyfuels.com**

Project Name: **3rd 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 (353.2)	NH3 (4500G or 350.1)	F1, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL <input checked="" type="checkbox"/> Field Filtered For: Dissolved Metals	Laboratory Use Only			
												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:		Samples Were: <i>u p f</i> 1 Shipped or hand delivered 2 Ambient or Chilled <i>1.0</i> °C 3 Temperature 4 Received Broken/Leaking (Improperly Sealed) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5 Properly Preserved 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"/>	
Known Hazards & Sample Comments												COC Tape Was:			
1	MW-24_07102020	7/10/2020	830	7	W	x	x	x	x	x	x	x	x		1 Present on Outer Package Y <input checked="" type="checkbox"/> N <input type="checkbox"/> <i>NA</i>
2	MW-38_07102020	7/10/2020	755	7	W	x	x	x	x	x	x	x	x		2 Unbroken on Outer Package Y <input checked="" type="checkbox"/> N <input type="checkbox"/> <i>NA</i>
3	MW-39_07102020	7/10/2020	1145	7	W	x	x	x	x	x	x	x	x		3 Present on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> <i>NA</i>
4	MW-40_07102020	7/10/2020	1105	7	W	x	x	x	x	x	x	x	x		4 Unbroken on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> <i>NA</i>
5	MW-65_07102020	7/10/2020	1145	7	W	x	x	x	x	x	x	x	x		Discrepancies Between Sample Labels and COC Record? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
6	Trip Blank	7/10/2020	755	3	W									x	
7															
8															
9															
10															
11															
12															

Relinquished by: Signature <i>Jeanie Holliday</i>	Date: 7/13/2020	Received by: Signature <i>William H. J.</i>	Date: 7-14-20
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time: 1105
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

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

Lab Set ID: 2007367

pH Lot #: 0387

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5												
Ammonia	pH <2 H ₂ SO ₄	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												
NO ₂ /NO ₃	pH <2 H ₂ SO ₄	Yes	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.



August 03, 2020

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

Re: White Mesa Mill GW
Work Order: 515995

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 16, 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,

Nina Gampe for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 515995

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 515995**

August 03, 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 July 16, 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>
515995001	MW-24_07102020
515995002	MW-38_07102020
515995003	MW-39_07102020
515995004	MW-40_07102020
515995005	MW-65_07102020

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, appearing to read "Nina Gampe".

Nina Gampe for
Julie Robinson
Project Manager

SAMPLE RECEIPT & REVIEW FORM

515995

Client: <u>DMM</u>		SDG/AR/COC/Work Order:	
Received By: <u>ZKW</u>		Date Received: <u>7/16/20</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground <u>UPS</u> Field Services Courier Other <u>1Z 1B7 44Y 12 9059 3206</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
		No	
		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>20°C</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>R3-18</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 ___
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 by use of GEL labels?	<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):			

PM (or PMA) review: Initials SH Date 7/17/20 Page 1 of 1

GEL Laboratories LLC – Login Review Report

Report Date: 03-AUG-20
 Work Order: 515995
 Page 1 of 2

GEL Work Order/SDG: 515995 **Q3 Ground Water 2020**
Client SDG: 515995
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: 13-AUG-20
Package Due Date: 11-AUG-20
EDD Due Date: 13-AUG-20
Due Date: 13-AUG-20
 NG1

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

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
515995001	MW-24_07102020		10-JUL-20 08:30	16-JUL-20 10:00	-2	1	GROUND WATER		20		1		
515995002	MW-38_07102020		10-JUL-20 07:55	16-JUL-20 10:00	-2	1	GROUND WATER		20		1		
515995003	MW-39_07102020		10-JUL-20 11:45	16-JUL-20 10:00	-2	1	GROUND WATER		20		1		
515995004	MW-40_07102020		10-JUL-20 11:05	16-JUL-20 10:00	-2	1	GROUND WATER		20		1		
515995005	MW-65_07102020		10-JUL-20 11:45	16-JUL-20 10:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-24_07102020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-38_07102020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-39_07102020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-40_07102020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-65_07102020	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

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

Parmname Check: All parmnames scheduled properly

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

GEL Laboratories LLC – Login Review Report

Report Date: 03-AUG-20
Work Order: 515995
Page 2 of 2

Action	Product Name	Description	Samples
Contingent Tests			

Login Requirements:

Requirement	Include?	Comments
-------------	----------	----------

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

List of current GEL Certifications as of 03 August 2020

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	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	T104704235-20-17
Utah NELAP	SC000122020-32
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 515995**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

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

Analytical Batch: 2021854

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
515995001	MW-24_07102020
515995002	MW-38_07102020
515995003	MW-39_07102020
515995004	MW-40_07102020
515995005	MW-65_07102020
1204601563	Method Blank (MB)
1204601564	515723008(MW-36_07062020) Sample Duplicate (DUP)
1204601565	515723008(MW-36_07062020) Matrix Spike (MS)
1204601566	515723008(MW-36_07062020) Matrix Spike Duplicate (MSD)
1204601567	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 1204601565 (MW-36_07062020MS) and 1204601566 (MW-36_07062020MSD) were recounted due to low recovery. The recounts are reported.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1204601565 (MW-36_07062020MS) and 1204601566 (MW-36_07062020MSD), aliquots were reduced to conserve sample volume.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 515995 GEL Work Order: 515995

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: 07 AUG 2020

Title: Group Leader

GEL LABORATORIES LLC

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QC Summary

Report Date: August 3, 2020

Page 1 of

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

Contact: Ms. Kathy Weinel

Workorder: 515995

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2021854										
QC1204601564	515723008	DUP									
Gross Radium Alpha	U	0.226	U	0.583	pCi/L	N/A		N/A	JXC9	07/29/20	17:5
	Uncertainty	+/-0.269		+/-0.309							
QC1204601567	LCS										
Gross Radium Alpha	570			458	pCi/L		80.3	(75%-125%)		07/29/20	18:0
	Uncertainty			+/-6.31							
QC1204601563	MB										
Gross Radium Alpha			U	-0.246	pCi/L					07/29/20	17:5
	Uncertainty			+/-0.153							
QC1204601565	515723008	MS									
Gross Radium Alpha	2300	U	0.226	1770	pCi/L		76.6	(75%-125%)		07/31/20	10:1
	Uncertainty		+/-0.269	+/-21.0							
QC1204601566	515723008	MSD									
Gross Radium Alpha	2300	U	0.226	1770	pCi/L	0.0434	76.7	(0%-20%)		07/31/20	10:1
	Uncertainty		+/-0.269	+/-21.0							

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

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QC Summary

Workorder: 515995

Page 2 of

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

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

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

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

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

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

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

August 2020



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-001
Client Sample ID: MW-11_08112020
Collection Date: 8/11/2020 1140h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	8/20/2020 1151h	8/22/2020 1756h	E200.8	0.0100	0.276	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-001
Client Sample ID: MW-11_08112020
Collection Date: 8/11/2020 1140h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/18/2020 744h	E300.0	2.00	43.9	
Sulfate	mg/L		8/18/2020 221h	E300.0	375	1,220	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-002
Client Sample ID: MW-25_08102020
Collection Date: 8/10/2020 1140h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	8/20/2020 1151h	8/22/2020 1805h	E200.8	0.000500	0.00154	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-003
Client Sample ID: MW-26_08112020
Collection Date: 8/11/2020 1300h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/18/2020 238h	E300.0	2.00	57.5	
Nitrate/Nitrite (as N)	mg/L		8/19/2020 1220h	E353.2	0.100	0.407	1

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: August Ground Water 2020
Lab Sample ID: 2008385-003C
Client Sample ID: MW-26_08112020
Collection Date: 8/11/2020 1300h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 8/14/2020 1026h **Extracted:**
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	1,940	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	5,260	5,000	105	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	4,930	5,000	98.6	85-121	
Surr: Dibromofluoromethane		1868-53-7	4,950	5,000	99.0	78-132	
Surr: Toluene-d8		2037-26-5	5,120	5,000	102	81-123	

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

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

The reporting limits were raised due to high analyte concentrations.

Analyzed: 8/14/2020 821h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	2.67	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.9	50.00	104	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	48.5	50.00	97.0	85-121	
Surr: Dibromofluoromethane		1868-53-7	49.6	50.00	99.3	78-132	
Surr: Toluene-d8		2037-26-5	50.8	50.00	102	81-123	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-004
Client Sample ID: MW-30_08112020
Collection Date: 8/11/2020 1030h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	8/20/2020 1151h	8/22/2020 1808h	E200.8	0.00500	0.0560	
Uranium	mg/L	8/20/2020 1151h	8/22/2020 1832h	E200.8	0.000300	0.0106	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-004
Client Sample ID: MW-30_08112020
Collection Date: 8/11/2020 1030h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/18/2020 255h	E300.0	5.00	183	
Nitrate/Nitrite (as N)	mg/L		8/19/2020 1229h	E353.2	0.200	21.1	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-005
Client Sample ID: MW-31_08102020
Collection Date: 8/10/2020 1325h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	8/20/2020 1151h	8/22/2020 1835h	E200.8	0.000300	0.0197	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-005
Client Sample ID: MW-31_08102020
Collection Date: 8/10/2020 1325h
Received Date: 8/13/2020 1315h

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		8/18/2020 312h	E300.0	10.0	368	
Nitrate/Nitrite (as N)	mg/L		8/19/2020 1230h	E353.2	0.200	21.6	
Sulfate	mg/L		8/18/2020 312h	E300.0	75.0	1,100	
Total Dissolved Solids	mg/L		8/14/2020 1120h	SM2540C	20.0	2,580	

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Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-006
Client Sample ID: MW-65_08112020
Collection Date: 8/11/2020 1030h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	8/20/2020 1151h	8/22/2020 1811h	E200.8	0.00500	0.0536	
Uranium	mg/L	8/20/2020 1151h	8/22/2020 1838h	E200.8	0.000300	0.0104	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-006
Client Sample ID: MW-65_08112020
Collection Date: 8/11/2020 1030h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/18/2020 435h	E300.0	5.00	185	
Nitrate/Nitrite (as N)	mg/L		8/19/2020 1239h	E353.2	0.200	20.1	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Sample ID: 2008385-007A
Client Sample ID: Trip Blank
Collection Date: 8/11/2020 1300h
Received Date: 8/13/2020 1315h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 8/14/2020 800h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
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	51.7	50.00	103	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	50.6	50.00	101	85-121	
Surr: Dibromofluoromethane		1868-53-7	50.7	50.00	101	78-132	
Surr: Toluene-d8		2037-26-5	51.9	50.00	104	81-123	

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: August Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2008385

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American West Analytical Laboratories received sample(s) on 8/13/2020 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.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

Jose G. Rocha	Digitally signed by Jose G. Rocha Date: 2020.08.31 13:56:55 -06'00'
--------------------------	---

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: August Ground Water 2020
Lab Set ID: 2008385
Date Received: 8/13/2020 1315h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2008385-001A	MW-11_08112020	8/11/2020 1140h	Aqueous	ICPMS Metals, Dissolved
2008385-001B	MW-11_08112020	8/11/2020 1140h	Aqueous	Anions, E300.0
2008385-002A	MW-25_08102020	8/10/2020 1140h	Aqueous	ICPMS Metals, Dissolved
2008385-003A	MW-26_08112020	8/11/2020 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
2008385-003B	MW-26_08112020	8/11/2020 1300h	Aqueous	Anions, E300.0
2008385-003C	MW-26_08112020	8/11/2020 1300h	Aqueous	VOA by GC/MS Method 8260D/5030C
2008385-004A	MW-30_08112020	8/11/2020 1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
2008385-004B	MW-30_08112020	8/11/2020 1030h	Aqueous	Anions, E300.0
2008385-004C	MW-30_08112020	8/11/2020 1030h	Aqueous	ICPMS Metals, Dissolved
2008385-005A	MW-31_08102020	8/10/2020 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
2008385-005B	MW-31_08102020	8/10/2020 1325h	Aqueous	Anions, E300.0
2008385-005C	MW-31_08102020	8/10/2020 1325h	Aqueous	Total Dissolved Solids, A2540C
2008385-005D	MW-31_08102020	8/10/2020 1325h	Aqueous	ICPMS Metals, Dissolved
2008385-006A	MW-65_08112020	8/11/2020 1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
2008385-006B	MW-65_08112020	8/11/2020 1030h	Aqueous	Anions, E300.0
2008385-006C	MW-65_08112020	8/11/2020 1030h	Aqueous	ICPMS Metals, Dissolved
2008385-007A	Trip Blank	8/11/2020 1300h	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: August Ground Water 2020
Lab Set ID: 2008385

3440 South 700 West
 Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 8/13/2020
Date of Collection: 8/10-8/11/2020
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
2008385-002B	Nitrate-Nitrite	MS	Sample matrix interference

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

Corrective Action: None required.

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

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Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: August Ground Water 2020
Lab Set ID: 2008385

3440 South 700 West
Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 8/13/2020
Date of Collection: 8/10-8/11/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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

web: www.awal-labs.com

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.

Kyle F. Gross

Laboratory Director

Analytical QC Requirements: All instrument calibration and calibration check requirements were met, with CCV exceptions noted on the reports. All internal standard recoveries met method criterion.

Jose Rocha

QA Officer

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

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: the MSD percent recovery for Chloroform on sample 2008385-003C was outside of the control limits due to sample matrix interference.

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: 2008385
Project: August 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-71954	Date Analyzed:		08/22/2020 1542h										
Test Code: 200.8-DIS	Date Prepared:		08/20/2020 1151h										
Cadmium	0.200	mg/L	E200.8	0.0000742	0.000500	0.2000	0	100	85 - 115				
Manganese	0.207	mg/L	E200.8	0.000766	0.00200	0.2000	0	104	85 - 115				
Selenium	0.200	mg/L	E200.8	0.000508	0.00200	0.2000	0	100	85 - 115				
Uranium	0.222	mg/L	E200.8	0.000176	0.00200	0.2000	0	111	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: 2008385
Project: August 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-71954	Date Analyzed: 08/22/2020 1539h												
Test Code: 200.8-DIS	Date Prepared: 08/20/2020 1151h												
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								
Lab Sample ID: MB-FILTER-71942	Date Analyzed: 08/22/2020 1814h												
Test Code: 200.8-DIS	Date Prepared: 08/20/2020 1151h												
Cadmium	< 0.000500	mg/L	E200.8	0.0000742	0.000500								
Manganese	< 0.00200	mg/L	E200.8	0.000766	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000508	0.00200								
Lab Sample ID: MB-FILTER-71943	Date Analyzed: 08/22/2020 1817h												
Test Code: 200.8-DIS	Date Prepared: 08/20/2020 1151h												
Uranium	< 0.00200	mg/L	E200.8	0.000176	0.00200								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2008385

Project: August 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: 2008385-001AMS	Date Analyzed:		08/22/2020 1759h										
Test Code: 200.8-DIS	Date Prepared:		08/20/2020 1151h										
Cadmium	0.203	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000154	101	75 - 125				
Manganese	0.454	mg/L	E200.8	0.000766	0.00200	0.2000	0.276	88.8	75 - 125				
Selenium	0.198	mg/L	E200.8	0.000508	0.00200	0.2000	0.00299	97.6	75 - 125				
Uranium	0.221	mg/L	E200.8	0.000176	0.00200	0.2000	0.00154	110	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: 2008385
Project: August 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: 2008385-001AMSD	Date Analyzed:		08/22/2020 1802h										
Test Code: 200.8-DIS	Date Prepared:		08/20/2020 1151h										
Cadmium	0.199	mg/L	E200.8	0.0000742	0.000500	0.2000	0.000154	99.3	75 - 125	0.203	1.88	20	
Manganese	0.457	mg/L	E200.8	0.000766	0.00200	0.2000	0.276	90.4	75 - 125	0.454	0.686	20	
Selenium	0.201	mg/L	E200.8	0.000508	0.00200	0.2000	0.00299	99.2	75 - 125	0.198	1.57	20	
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0.00154	107	75 - 125	0.221	2.19	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: 2008385
Project: August 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: 2008385-005CDUP													
Date Analyzed: 08/14/2020 1120h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,600	mg/L	SM2540C	16.0	20.0					2580	0.926	5	



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2008385

Project: August 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-R142351		Date Analyzed: 08/18/2020 114h											
Test Code: 300.0-W													
Chloride	5.01	mg/L	E300.0	0.0565	0.100	5.000	0	100	90 - 110				
Sulfate	4.97	mg/L	E300.0	0.136	0.750	5.000	0	99.4	90 - 110				
Lab Sample ID: LCS-R142408		Date Analyzed: 08/19/2020 1157h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00494	0.0100	1.000	0	110	90 - 110				§
Lab Sample ID: LCS-R142298		Date Analyzed: 08/14/2020 1120h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	202	mg/L	SM2540C	8.00	10.0	205.0	0	98.5	80 - 120				

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



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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2008385
Project: August 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-R142351													
Date Analyzed: 08/18/2020 058h													
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-R142408													
Date Analyzed: 08/19/2020 1156h													
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-R142298													
Date Analyzed: 08/14/2020 1120h													
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: 2008385

Project: August 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: 2008385-005BMS		Date Analyzed: 08/18/2020 328h											
Test Code: 300.0-W													
Chloride	1,360	mg/L	E300.0	11.3	20.0	1,000	368	98.7	90 - 110				
Sulfate	2,090	mg/L	E300.0	27.2	150	1,000	1100	99.2	90 - 110				
Lab Sample ID: 2008385-003AMS		Date Analyzed: 08/19/2020 1221h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.11	mg/L	E353.2	0.0247	0.0500	5.000	0.407	114	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: 2008385
Project: August 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: 2008385-005BMSD		Date Analyzed: 08/18/2020 418h											
Test Code: 300.0-W													
Chloride	1,350	mg/L	E300.0	11.3	20.0	1,000	368	97.9	90 - 110	1360	0.616	20	
Sulfate	2,090	mg/L	E300.0	27.2	150	1,000	1100	98.8	90 - 110	2090	0.209	20	
Lab Sample ID: 2008385-003AMSD		Date Analyzed: 08/19/2020 1227h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.66	mg/L	E353.2	0.0247	0.0500	5.000	0.407	125	90 - 110	6.11	8.69	10	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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2008385
Project: August 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 081420A		Date Analyzed: 08/14/2020 700h											
Test Code: 8260D-W-DEN100													
Chloroform	20.9	µg/L	SW8260D	0.166	1.00	20.00	0	105	74 - 117				
Methylene chloride	22.7	µg/L	SW8260D	0.381	1.00	20.00	0	114	65 - 154				
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260D			50.00		105	80 - 136				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260D			50.00		99.4	85 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260D			50.00		100	78 - 132				
Surr: Toluene-d8	51.1	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: 2008385
Project: August 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 081420A		Date Analyzed: 08/14/2020 720h											
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	51.9	µg/L	SW8260D			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260D			50.00		95.6	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260D			50.00		98.4	78 - 132				
Surr: Toluene-d8	51.9	µg/L	SW8260D			50.00		104	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: 2008385

Project: August 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: 2008385-003CMS		Date Analyzed: 08/14/2020 1046h											
Test Code: 8260D-W-DEN100													
Chloroform	3,580	µg/L	SW8260D	16.6	100	2,000	1940	82.2	74 - 117				
Methylene chloride	1,790	µg/L	SW8260D	38.1	100	2,000	2.67	89.6	65 - 154				
Surr: 1,2-Dichloroethane-d4	5,170	µg/L	SW8260D			5,000		103	80 - 136				
Surr: 4-Bromofluorobenzene	4,780	µg/L	SW8260D			5,000		95.6	85 - 121				
Surr: Dibromofluoromethane	4,890	µg/L	SW8260D			5,000		97.8	78 - 132				
Surr: Toluene-d8	4,920	µg/L	SW8260D			5,000		98.5	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 2008385

Project: August 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: 2008385-003CMSD		Date Analyzed: 08/14/2020 1107h											
Test Code: 8260D-W-DEN100													
Chloroform	3,400	µg/L	SW8260D	16.6	100	2,000	1940	73.2	74 - 117	3590	5.15	35	1
Methylene chloride	1,690	µg/L	SW8260D	38.1	100	2,000	2.67	84.4	65 - 154	1790	5.91	35	
Surr: 1,2-Dichloroethane-d4	5,220	µg/L	SW8260D			5,000		104	80 - 136				
Surr: 4-Bromofluorobenzene	4,940	µg/L	SW8260D			5,000		98.8	85 - 121				
Surr: Dibromofluoromethane	4,980	µg/L	SW8260D			5,000		99.7	78 - 132				
Surr: Toluene-d8	5,020	µg/L	SW8260D			5,000		100	81 - 123				

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

WORK ORDER Summary

Work Order: **2008385**

Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 8/27/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: August Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2008385-001A	MW-11_08112020	8/11/2020 1140h	8/13/2020 1315h	200.8-DIS 1 SEL Analytes: MN	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
2008385-001B				300.0-W 2 SEL Analytes: CL SO4		df - cl/so4		
2008385-002A	MW-25_08102020	8/10/2020 1140h	8/13/2020 1315h	200.8-DIS 1 SEL Analytes: CD	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
2008385-003A	MW-26_08112020	8/11/2020 1300h	8/13/2020 1315h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	df - no2/no3		1
2008385-003B				300.0-W 1 SEL Analytes: CL		df - cl		
2008385-003C				8260D-W-DEN100 Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4		VOCFridge		3
2008385-004A	MW-30_08112020	8/11/2020 1030h	8/13/2020 1315h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	df - no2/no3		1
2008385-004B				300.0-W 1 SEL Analytes: CL		df - cl		
2008385-004C				200.8-DIS 2 SEL Analytes: SE U		df - dis met		
				200.8-DIS-PR		df - dis met		
2008385-005A	MW-31_08102020	8/10/2020 1325h	8/13/2020 1315h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	df - no2/no3		1
2008385-005B				300.0-W 2 SEL Analytes: CL SO4		df - cl/so4		
2008385-005C				TDS-W-2540C 1 SEL Analytes: TDS		df - tds		
2008385-005D				200.8-DIS 1 SEL Analytes: U		df - dis met		
				200.8-DIS-PR		df - dis met		

WORK ORDER Summary

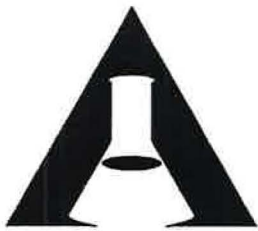
Work Order: **2008385**

Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 8/27/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2008385-006A	MW-65_08112020	8/11/2020 1030h	8/13/2020 1315h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	df - no2/no3		1
2008385-006B				300.0-W <i>1 SEL Analytes: CL</i>		df - cl		
2008385-006C				200.8-DIS <i>2 SEL Analytes: SE U</i>		df f- met		
				200.8-DIS-PR		df f- met		
2008385-007A	Trip Blank	8/11/2020 1300h	8/13/2020 1315h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>	Aqueous	VOCFridge		3



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CHAIN OF CUSTODY

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

2008385

AWAL Lab Sample Set #
Page 1 of 1

Due Date: 8/27/20

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #: _____
Email: **tholliday@energyfuels.com; kweinel@energyfuels.com;**
Project Name: **August Ground Water 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.							
3		Standard									
# of Containers	Sample Matrix	NO2/NO3 (353.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Fluoride (A4500-F C or 300.0)	SO4 (4500 or 300.0)	VOCs Chloroform, Dichloromethane, (8260C)
2	W		X	X						X	
1	W						X				
5	W	X	X								X
3	W	X	X	X	X	X				X	
4	W	X	X	X	X	X		X			
3	W	X	X		X	X		X			
3	W										X

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

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

Known Hazards & Sample Comments

Laboratory Use Only	
Samples Were:	WPS DB 8/13/20
1 Shipped or being delivered	
2 Ambient or Chilled	
3 Temperature	0.4 °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 Packaging	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
MW-11_08112020	8/11/2020	1140	2	W
MW-25_08102020	8/10/2020	1140	1	W
MW-26_08112020	8/11/2020	1300	5	W
MW-30_08112020	8/11/2020	1030	3	W
MW-31_08102020	8/10/2020	1325	4	W
MW-65_08112020	8/11/2020	1030	3	W
Trip Blank	8/11/2020	1300	3	W

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 8/12/2020	Received by: Signature:	Date:	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature: <i>Denise Bruhn</i>	Date: 8/13/20	
Print Name:	Time:	Print Name: <i>Denise Bruhn</i>	Time: 13:15	

Lab Set ID: 2008385

pH Lot #: 6387

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006												
Ammonia	pH <2 H ₂ SO ₄																		
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	yes	yes		yes	yes	yes												
NO ₂ /NO ₃	pH <2 H ₂ SO ₄	yes	yes	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

September 2020



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-001
Client Sample ID: MW-11_09022020
Collection Date: 9/2/2020 1200h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	9/10/2020 1237h	9/11/2020 1040h	E200.8	0.0100	0.230	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-001
Client Sample ID: MW-11_09022020
Collection Date: 9/2/2020 1200h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/11/2020 229h	E300.0	2.00	40.6	
Sulfate	mg/L		9/11/2020 120h	E300.0	150	1,170	

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Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-002
Client Sample ID: MW-25_09022020
Collection Date: 9/2/2020 1115h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/10/2020 1237h	9/11/2020 1043h	E200.8	0.000500	0.00161	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-003
Client Sample ID: MW-26_09022020
Collection Date: 9/2/2020 930h
Received Date: 9/4/2020 1020h

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		9/11/2020 246h	E300.0	1.00	59.8	
Nitrate/Nitrite (as N)	mg/L		9/15/2020 1330h	E353.2	0.100	0.623	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-003C
Client Sample ID: MW-26_09022020
Collection Date: 9/2/2020 930h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 9/9/2020 1228h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	1,070	1

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	518	500.0	104	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	518	500.0	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	508	500.0	102	78-132	
Surr: Toluene-d8		2037-26-5	511	500.0	102	81-123	

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

Analyzed: 9/9/2020 1149h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	< 1.00	1@

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.3	50.00	105	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	52.3	50.00	105	85-121	
Surr: Dibromofluoromethane		1868-53-7	51.1	50.00	102	78-132	
Surr: Toluene-d8		2037-26-5	51.4	50.00	103	81-123	

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS. @ - High RPD due to suspected sample non-homogeneity or matrix interference.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-004
Client Sample ID: MW-30_09012020
Collection Date: 9/1/2020 1035h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	9/10/2020 1237h	9/11/2020 1101h	E200.8	0.00500	0.0553	
Uranium	mg/L	9/10/2020 1237h	9/11/2020 1118h	E200.8	0.000300	0.00990	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-004
Client Sample ID: MW-30_09012020
Collection Date: 9/1/2020 1035h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/11/2020 303h	E300.0	5.00	166	
Nitrate/Nitrite (as N)	mg/L		9/15/2020 1331h	E353.2	0.200	18.3	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-005
Client Sample ID: MW-31_09012020
Collection Date: 9/1/2020 1410h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	9/10/2020 1237h	9/11/2020 1122h	E200.8	0.000300	0.0185	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-005
Client Sample ID: MW-31_09012020
Collection Date: 9/1/2020 1410h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/11/2020 320h	E300.0	10.0	367	
Nitrate/Nitrite (as N)	mg/L		9/15/2020 1332h	E353.2	0.200	18.4	
Sulfate	mg/L		9/11/2020 320h	E300.0	75.0	1,110	
Total Dissolved Solids	mg/L		9/4/2020 1240h	SM2540C	20.0	2,650	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-006
Client Sample ID: MW-65_09022020
Collection Date: 9/2/2020 1200h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	9/10/2020 1237h	9/11/2020 1104h	E200.8	0.0100	0.226	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-006
Client Sample ID: MW-65_09022020
Collection Date: 9/2/2020 1200h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/11/2020 412h	E300.0	5.00	40.4	
Sulfate	mg/L		9/11/2020 138h	E300.0	150	1,170	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Sample ID: 2009135-007A
Client Sample ID: Trip Blank
Collection Date: 9/2/2020 930h
Received Date: 9/4/2020 1020h

Contact: Tanner Holliday

Test Code: 8260D-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260D/5030C

Analyzed: 9/9/2020 1425h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.8	50.00	106	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	52.3	50.00	105	85-121	
Surr: Dibromofluoromethane		1868-53-7	51.0	50.00	102	78-132	
Surr: Toluene-d8		2037-26-5	51.5	50.00	103	81-123	

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: September Ground Water 2020

Dear Tanner Holliday:

Lab Set ID: 2009135

3440 South 700 West

Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 9/4/2020 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.

web: www.awal-labs.com

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:

Kyle F.	Digitally signed by Kyle F. Gross
Gross	Date: 2020.09.21 16:54:41 -06'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: September Ground Water 2020
Lab Set ID: 2009135
Date Received: 9/4/2020 1020h

Contact: Tanner Holliday

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
2009135-001A	MW-11_09022020	9/2/2020 1200h	Aqueous	Anions, E300.0
2009135-001B	MW-11_09022020	9/2/2020 1200h	Aqueous	ICPMS Metals, Dissolved
2009135-002A	MW-25_09022020	9/2/2020 1115h	Aqueous	ICPMS Metals, Dissolved
2009135-003A	MW-26_09022020	9/2/2020 930h	Aqueous	Anions, E300.0
2009135-003B	MW-26_09022020	9/2/2020 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
2009135-003C	MW-26_09022020	9/2/2020 930h	Aqueous	VOA by GC/MS Method 8260D/5030C
2009135-004A	MW-30_09012020	9/1/2020 1035h	Aqueous	Anions, E300.0
2009135-004B	MW-30_09012020	9/1/2020 1035h	Aqueous	Nitrite/Nitrate (as N), E353.2
2009135-004C	MW-30_09012020	9/1/2020 1035h	Aqueous	ICPMS Metals, Dissolved
2009135-005A	MW-31_09012020	9/1/2020 1410h	Aqueous	Anions, E300.0
2009135-005B	MW-31_09012020	9/1/2020 1410h	Aqueous	Nitrite/Nitrate (as N), E353.2
2009135-005C	MW-31_09012020	9/1/2020 1410h	Aqueous	Total Dissolved Solids, A2540C
2009135-005D	MW-31_09012020	9/1/2020 1410h	Aqueous	ICPMS Metals, Dissolved
2009135-006A	MW-65_09022020	9/2/2020 1200h	Aqueous	Anions, E300.0
2009135-006B	MW-65_09022020	9/2/2020 1200h	Aqueous	ICPMS Metals, Dissolved
2009135-007A	Trip Blank	9/2/2020 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: September Ground Water 2020
Lab Set ID: 2009135

3440 South 700 West
 Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 9/4/2020
Date of Collection: 9/1-9/2/2020
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
2009135-002A	Manganese	MS	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: September Ground Water 2020
Lab Set ID: 2009135

3440 South 700 West
Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 9/4/2020
Date of Collection: 9/1-9/2/2020
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260D/5030C
Analysis: Volatile Organic Compounds

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

web: www.awal-labs.com

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.

Kyle F. Gross

Laboratory Director

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

Jose Rocha

QA Officer

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

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: the MS percent recovery, MSD percent recovery, and/or RPD for Chloroform and Methylene chloride on sample 2009135-003C were outside of the control limits due to sample matrix interference or sample non-homogeneity.

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: 2009135
Project: September 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-72349	Date Analyzed:		09/11/2020 1036h										
Test Code: 200.8-DIS	Date Prepared:		09/10/2020 1237h										
Cadmium	0.208	mg/L	E200.8	0.0000742	0.000500	0.2000	0	104	85 - 115				
Manganese	0.209	mg/L	E200.8	0.000766	0.00200	0.2000	0	104	85 - 115				
Selenium	0.201	mg/L	E200.8	0.000508	0.00200	0.2000	0	101	85 - 115				
Uranium	0.216	mg/L	E200.8	0.000176	0.00200	0.2000	0	108	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: 2009135
Project: September 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-72349	Date Analyzed:	09/11/2020	1033h										
Test Code: 200.8-DIS	Date Prepared:	09/10/2020	1237h										
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: 2009135
Project: September 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: 2009135-002AMS	Date Analyzed:	09/11/2020	1054h										
Test Code: 200.8-DIS	Date Prepared:	09/10/2020	1237h										
Cadmium	0.216	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00161	107	75 - 125				
Manganese	1.80	mg/L	E200.8	0.000766	0.00200	0.2000	1.51	147	75 - 125				2
Selenium	0.212	mg/L	E200.8	0.000508	0.00200	0.2000	0	106	75 - 125				
Uranium	0.225	mg/L	E200.8	0.000176	0.00200	0.2000	0.00732	109	75 - 125				

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: 2009135
Project: September 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: 2009135-002AMSD	Date Analyzed:		09/11/2020 1057h										
Test Code: 200.8-DIS	Date Prepared:		09/10/2020 1237h										
Cadmium	0.212	mg/L	E200.8	0.0000742	0.000500	0.2000	0.00161	105	75 - 125	0.216	1.87	20	
Manganese	1.74	mg/L	E200.8	0.000766	0.00200	0.2000	1.51	117	75 - 125	1.8	3.37	20	
Selenium	0.212	mg/L	E200.8	0.000508	0.00200	0.2000	0	106	75 - 125	0.212	0.0258	20	
Uranium	0.224	mg/L	E200.8	0.000176	0.00200	0.2000	0.00732	108	75 - 125	0.225	0.231	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: 2009135
Project: September 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: 2009135-005CDUP													
Date Analyzed: 09/04/2020 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,620	mg/L	SM2540C	16.0	20.0					2650	0.910	5	



American West
ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2009135
Project: September 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-R143169		Date Analyzed: 09/11/2020 103h											
Test Code: 300.0-W													
Chloride	5.06	mg/L	E300.0	0.0565	0.100	5.000	0	101	90 - 110				
Sulfate	4.95	mg/L	E300.0	0.136	0.750	5.000	0	99.1	90 - 110				
Lab Sample ID: LCS-R143274		Date Analyzed: 09/15/2020 1314h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00494	0.0100	1.000	0	107	90 - 110				
Lab Sample ID: LCS-R143056		Date Analyzed: 09/04/2020 1240h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	218	mg/L	SM2540C	8.00	10.0	205.0	0	106	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: 2009135
Project: September 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-R143169													
Date Analyzed: 09/11/2020 047h													
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-R143274													
Date Analyzed: 09/15/2020 1313h													
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-R143056													
Date Analyzed: 09/04/2020 1240h													
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: 2009135
Project: September 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: 2009135-005AMS		Date Analyzed: 09/11/2020 337h											
Test Code: 300.0-W													
Chloride	1,360	mg/L	E300.0	11.3	20.0	1,000	367	99.6	90 - 110				
Sulfate	2,100	mg/L	E300.0	27.2	150	1,000	1110	99.0	90 - 110				
Lab Sample ID: 2009135-005BMS		Date Analyzed: 09/15/2020 1333h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	38.4	mg/L	E353.2	0.0988	0.200	20.00	18.4	100	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: 2009135
Project: September 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: 2009135-005AMSD		Date Analyzed: 09/11/2020 355h											
Test Code: 300.0-W													
Chloride	1,370	mg/L	E300.0	11.3	20.0	1,000	367	99.9	90 - 110	1360	0.247	20	
Sulfate	2,100	mg/L	E300.0	27.2	150	1,000	1110	99.1	90 - 110	2100	0.0363	20	
Lab Sample ID: 2009135-005BMSD		Date Analyzed: 09/15/2020 1334h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	38.4	mg/L	E353.2	0.0988	0.200	20.00	18.4	100	90 - 110	38.4	0.0521	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: 2009135
Project: September 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-2 090920A	Date Analyzed: 09/09/2020 954h												
Test Code: 8260D-W-DEN100													
Chloroform	19.6	µg/L	SW8260D	0.166	1.00	20.00	0	98.0	74 - 117				
Methylene chloride	18.7	µg/L	SW8260D	0.381	1.00	20.00	0	93.7	65 - 154				
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260D			50.00		98.4	85 - 121				
Surr: Dibromofluoromethane	49.9	µg/L	SW8260D			50.00		99.9	78 - 132				
Surr: Toluene-d8	51.0	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: 2009135
Project: September 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-2 090920A		Date Analyzed: 09/09/2020 1014h											
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	53.0	µg/L	SW8260D			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	51.7	µg/L	SW8260D			50.00		103	85 - 121				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260D			50.00		103	78 - 132				
Surr: Toluene-d8	52.1	µg/L	SW8260D			50.00		104	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: 2009135
Project: September 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: 2009135-003CMS		Date Analyzed: 09/09/2020 1248h											
Test Code: 8260D-W-DEN100													
Chloroform	1,240	µg/L	SW8260D	1.66	10.0	200.0	1070	85.2	74 - 117				
Methylene chloride	319	µg/L	SW8260D	3.81	10.0	200.0	0	159	65 - 154				
Surr: 1,2-Dichloroethane-d4	515	µg/L	SW8260D			500.0		103	80 - 136				
Surr: 4-Bromofluorobenzene	498	µg/L	SW8260D			500.0		99.5	85 - 121				
Surr: Dibromofluoromethane	504	µg/L	SW8260D			500.0		101	78 - 132				
Surr: Toluene-d8	514	µg/L	SW8260D			500.0		103	81 - 123				

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: 2009135
Project: September 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: 2009135-003CMSD		Date Analyzed: 09/09/2020 1307h											
Test Code: 8260D-W-DEN100													
Chloroform	1,220	µg/L	SW8260D	1.66	10.0	200.0	1070	73.0	74 - 117	1240	1.98	35	†
Methylene chloride	204	µg/L	SW8260D	3.81	10.0	200.0	0	102	65 - 154	319	43.8	35	@
Surr: 1,2-Dichloroethane-d4	516	µg/L	SW8260D			500.0		103	80 - 136				
Surr: 4-Bromofluorobenzene	509	µg/L	SW8260D			500.0		102	85 - 121				
Surr: Dibromofluoromethane	515	µg/L	SW8260D			500.0		103	78 - 132				
Surr: Toluene-d8	514	µg/L	SW8260D			500.0		103	81 - 123				

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

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

WORK ORDER Summary

Work Order: **2009135**

Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 9/21/2020

Client ID: ENE300

Contact: Tanner Holliday

Project: September Ground Water 2020

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2009135-001A	MW-11_09022020	9/2/2020 1200h	9/4/2020 1020h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	df - wc	1
2009135-001B				200.8-DIS <i>1 SEL Analytes: MN</i>		df-met	
				200.8-DIS-PR		df-met	
2009135-002A	MW-25_09022020	9/2/2020 1115h	9/4/2020 1020h	200.8-DIS <i>1 SEL Analytes: CD</i>	Aqueous	DF-Metals	1
				200.8-DIS-PR		DF-Metals	
2009135-003A	MW-26_09022020	9/2/2020 0930h	9/4/2020 1020h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	DF-WC	1
2009135-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		DF-NO2/NO3	
2009135-003C				8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>		Purge	3
2009135-004A	MW-30_09012020	9/1/2020 1035h	9/4/2020 1020h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	DF-WC	1
2009135-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		DF-NO2/NO3	
2009135-004C				200.8-DIS <i>2 SEL Analytes: SE U</i>		DF-Metals	
				200.8-DIS-PR		DF-Metals	
2009135-005A	MW-31_09012020	9/1/2020 1410h	9/4/2020 1020h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	DF-WC	1
2009135-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		DF-NO2/NO3	
2009135-005C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		DF-tds	
2009135-005D				200.8-DIS <i>1 SEL Analytes: U</i>		DF-Metals	
				200.8-DIS-PR		DF-Metals	

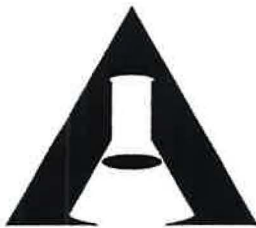
WORK ORDER Summary

Work Order: **2009135** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 9/21/2020

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2009135-006A	MW-65_09022020	9/2/2020 1200h	9/4/2020 1020h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous		df - wc	1
2009135-006B				200.8-DIS <i>1 SEL Analytes: MN</i>			df-met	
				200.8-DIS-PR			df-met	
2009135-007A	Trip Blank	9/2/2020 0930h	9/4/2020 1020h	8260D-W-DEN100 <i>Test Group: 8260D-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>	Aqueous		Purge	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 analyses 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.

2009135
 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: **September 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)	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 (A4500-F C or 300.0)	SO4 (4500 or 300.0)	VOCs Chloroform, Dichloromethane, (8260C)	Known Hazards & Sample Comments
MW-11_09022020	9/2/2020	1200	2	W		X	X					X			
MW-25_09022020	9/2/2020	1115	1	W					X						
MW-26_09022020	9/2/2020	930	5	W	X	X								X	
MW-30_09012020	9/1/2020	1035	3	W	X	X		X	X						
MW-31_09012020	9/1/2020	1410	4	W	X	X	X	X				X			
MW-65_09022020	9/2/2020	1200	2	W		X	X					X			
Trip Blank	9/2/2020	930	3	W										X	

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

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

Laboratory Use Only

Samples Were: **URS**

- Shipped or hand delivered
- Ambient or Chilled
- Temperature **0.0** °C
- Received Broken/Leaking (Improperly Sealed)
Y **(N)**
- Properly Preserved
Y **(N)**
Checked at bench
Y **(N)**
- Received Within Holding Times
Y **(N)**

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

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

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 9/3/2020	Received by: Signature: <i>Selma Haywood</i>	Date: 9/4/20
Print Name: Tanner Holliday	Time: 1100	Print Name: Selma Haywood	Time: 1020
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:

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

Lab Set ID: 2009135

pH Lot #: 6387

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6											
Ammonia	pH <2 H ₂ SO ₄																	
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO ₃	Yes	Yes		Yes	Yes	Yes											
NO ₂ /NO ₃	pH <2 H ₂ SO ₄			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: Quarterly Field QA/QC Evaluation

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
MW-11	29.17	58.59	58.34	okay	2857	2860	0.10	7.52	7.52	0.00	15.40	15.38	0.13	411	414	0.73	0	0	0.00	54.0	53.0	1.87
MW-12	14.77	30.38	29.54	okay	4084	4095	0.27	6.52	6.52	0.00	15.48	15.40	0.52	489	487	0.41	0	0	0.00	68.0	66.0	2.99
MW-14	17.29	39.06	34.58	okay	3525	3521	0.11	7.20	7.18	0.28	15.38	15.25	0.85	377	379	0.53	0	0	0.00	57.0	54.0	5.41
MW-24	5.98	11.50	11.96	Pumped Dry	4255	4271	0.38	5.67	5.70	0.53	15.49	15.40	0.58	NM		NC	NM		NC	NM		NC
MW-24A	6.62	13.44	13.24	Pumped Dry	4337	4330	0.16	5.20	5.21	0.19	15.88	15.75	0.82	NM		NC	NM		NC	NM		NC
MW-25	22.54	45.57	45.08	okay	3069	3040	0.95	7.13	7.10	0.42	15.20	15.19	0.07	436	439	0.69	5.5	5.8	5.31	55.0	53.4	2.95
MW-26	NA	Continuously Pumped well	--		3408		NC	6.86		NC	15.65		NC	467		NC	0		NC	48.0		NC
MW-27	24.65	52.08	49.3	okay	1096	1095	0.09	6.57	6.65	1.21	15.53	15.50	0.19	517	517	0.00	0	0	0.00	82.6	82.5	0.12
MW-28	23.10	52.08	46.2	okay	4031	4039	0.20	5.79	5.80	0.17	15.85	15.82	0.19	550	550	0.00	0	0	0.00	77.0	75.0	2.63
MW-30	22.80	46.65	45.6	okay	2131	2132	0.05	7.19	7.18	0.14	15.15	15.07	0.53	460	460	0.00	0	0	0.00	43.0	44.0	2.30
MW-31	39.78	80.29	79.56	okay	3111	3117	0.19	7.46	7.44	0.27	15.49	15.49	0.00	431	433	0.46	0	0	0.00	83.0	85.0	2.38
MW-32	32.29	65.10	64.58	okay	3651	3646	0.14	7.00	6.98	0.29	15.40	15.42	0.13	241	234	2.95	8.5	9.0	5.71	50.0	49.0	2.02
MW-35	7.90	16.27	15.8	okay	4046	4053	0.17	7.20	7.16	0.56	15.60	15.50	0.64	340	336	1.18	0	0	0.00	61.0	61.0	0.00
MW-36	7.20	15.19	14.4	okay	4777	4776	0.02	7.51	7.47	0.53	15.45	15.40	0.32	385	388	0.78	0	0	0.00	71.0	70.7	0.42
MW-38	2.51	5.00	5.02	Pumped Dry	4319	4312	0.16	7.09	7.10	0.14	16.45	16.36	0.55	NM		NC	NM		NC	NM		NC
MW-39	24.38	52.08	48.76	okay	4590	4592	0.04	5.09	5.08	0.20	15.40	15.40	0.00	452	453	0.22	1.9	1.9	0.00	61.5	59.0	4.15
MW-40	26.10	53.16	52.2	okay	3864	3858	0.16	6.60	6.63	0.45	15.35	15.35	0.00	495	497	0.40	210.0	220.0	4.65	82.0	83.0	1.21

MW-26 is a continually pumped well.

MW-24, MW-24A, MW-38 were pumped dry and sampled after recovery.

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

RPD = Relative Percent Difference

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

G-1B: Accelerated Field QA/QC Evaluation

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temperature		RPD	Redox		RPD	Turbidity		RPD	Dissolved Oxygen		RPD
August																						
MW-11	29.14	58.59	58.28	okay	2974	2986	0.40	7.72	7.70	0.26	15.23	15.19	0.26	414	413	0.24	0	0	0.00	48.0	45.0	6.45
MW-25	22.46	52.08	44.92	okay	3097	3095	0.06	7.08	7.06	0.28	15.18	15.20	0.13	438	439	0.23	12.0	12.0	0.00	36.0	35.0	2.82
MW-26	NA	Continuously Pumped well	--		3352		NC	6.96		NC	18.88		NC	392		NC	1.2		NC	60.3		NC
MW-30	22.77	45.57	45.54	okay	2148	2147	0.05	7.55	7.55	0.00	15.09	15.10	0.07	426	428	0.47	0	0	0.00	61.0	60.0	1.65
MW-31	39.75	80.29	79.5	okay	3130	3141	0.35	7.43	7.40	0.40	15.40	15.45	0.32	414	415	0.24	14.0	14.5	3.51	74.0	76.0	2.67
September																						
MW-11	29.10	58.59	58.2	okay	2936	2930	0.20	7.42	7.41	0.13	15.30	15.32	0.13	306	306	0.00	0	0	0.00	1.4	1.3	7.41
MW-25	22.41	45.57	44.82	okay	3040	3049	0.30	6.73	6.68	0.75	15.52	15.54	0.13	262	267	1.89	4.5	4.6	2.20	1.2	1.3	8.00
MW-26	NA	Continuously Pumped well	--		3309		NC	6.86		NC	16.42		NC	379		NC	3.5		NC	29.0		NC
MW-30	22.82	46.65	45.64	okay	2131	2129	0.09	7.06	7.07	0.14	15.08	15.08	0.00	405	408	0.74	4.6	4.5	2.20	52.0	51.0	1.94
MW-31	39.81	80.29	79.62	okay	3111	3123	0.38	7.15	7.12	0.42	15.50	15.51	0.06	413	417	0.96	4.8	4.7	2.11	102.0	101.0	0.99

MW-26, is a continually pumped well.

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

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

RPD = Relative Percent Difference

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

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	2-Butanone	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Acetone	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Benzene	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Carbon tetrachloride	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Chloroform	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Chloromethane	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Methylene chloride	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Naphthalene	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Tetrahydrofuran	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Toluene	7/6/2020	7/11/2020	5	14	OK
Trip Blank	Xylenes, Total	7/6/2020	7/11/2020	5	14	OK
Trip Blank	2-Butanone	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Acetone	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Benzene	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Chloroform	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Chloromethane	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Methylene chloride	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Naphthalene	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Toluene	7/10/2020	7/15/2020	5	14	OK
Trip Blank	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-11	2-Butanone	7/7/2020	7/11/2020	4	14	OK
MW-11	Acetone	7/7/2020	7/11/2020	4	14	OK
MW-11	Ammonia (as N)	7/7/2020	7/23/2020	16	28	OK
MW-11	Arsenic	7/7/2020	7/15/2020	8	180	OK
MW-11	Benzene	7/7/2020	7/11/2020	4	14	OK
MW-11	Beryllium	7/7/2020	7/15/2020	8	180	OK
MW-11	Bicarbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-11	Cadmium	7/7/2020	7/15/2020	8	180	OK
MW-11	Calcium	7/7/2020	7/22/2020	15	180	OK
MW-11	Carbon tetrachloride	7/7/2020	7/11/2020	4	14	OK
MW-11	Carbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-11	Chloride	7/7/2020	7/21/2020	14	28	OK
MW-11	Chloroform	7/7/2020	7/11/2020	4	14	OK
MW-11	Chloromethane	7/7/2020	7/11/2020	4	14	OK
MW-11	Chromium	7/7/2020	7/15/2020	8	180	OK
MW-11	Cobalt	7/7/2020	7/15/2020	8	180	OK
MW-11	Copper	7/7/2020	7/15/2020	8	180	OK
MW-11	Fluoride	7/7/2020	7/23/2020	16	28	OK
MW-11	Gross Radium Alpha	7/7/2020	7/29/2020	22	180	OK
MW-11	Iron	7/7/2020	7/15/2020	8	180	OK
MW-11	Lead	7/7/2020	7/15/2020	8	180	OK
MW-11	Magnesium	7/7/2020	7/22/2020	15	180	OK
MW-11	Manganese	7/7/2020	7/15/2020	8	180	OK
MW-11	Mercury	7/7/2020	7/22/2020	15	180	OK
MW-11	Methylene chloride	7/7/2020	7/11/2020	4	14	OK
MW-11	Molybdenum	7/7/2020	7/15/2020	8	180	OK
MW-11	Naphthalene	7/7/2020	7/11/2020	4	14	OK
MW-11	Nickel	7/7/2020	7/15/2020	8	180	OK
MW-11	Nitrate/Nitrite (as N)	7/7/2020	7/25/2020	18	28	OK
MW-11	Potassium	7/7/2020	7/23/2020	16	180	OK
MW-11	Selenium	7/7/2020	7/15/2020	8	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-11	Silver	7/7/2020	7/15/2020	8	180	OK
MW-11	Sodium	7/7/2020	7/22/2020	15	180	OK
MW-11	Sulfate	7/7/2020	7/21/2020	14	28	OK
MW-11	Tetrahydrofuran	7/7/2020	7/11/2020	4	14	OK
MW-11	Thallium	7/7/2020	7/15/2020	8	180	OK
MW-11	Tin	7/7/2020	7/15/2020	8	180	OK
MW-11	Toluene	7/7/2020	7/11/2020	4	14	OK
MW-11	Total Dissolved Solids	7/7/2020	7/13/2020	6	7	OK
MW-11	Uranium	7/7/2020	7/15/2020	8	180	OK
MW-11	Vanadium	7/7/2020	7/23/2020	16	180	OK
MW-11	Xylenes, Total	7/7/2020	7/11/2020	4	14	OK
MW-11	Zinc	7/7/2020	7/15/2020	8	180	OK
MW-12	Selenium	7/8/2020	7/18/2020	10	180	OK
MW-12	Uranium	7/8/2020	7/18/2020	10	180	OK
MW-14	2-Butanone	7/6/2020	7/11/2020	5	14	OK
MW-14	Acetone	7/6/2020	7/11/2020	5	14	OK
MW-14	Ammonia (as N)	7/6/2020	7/23/2020	17	28	OK
MW-14	Arsenic	7/6/2020	7/15/2020	9	180	OK
MW-14	Benzene	7/6/2020	7/11/2020	5	14	OK
MW-14	Beryllium	7/6/2020	7/15/2020	9	180	OK
MW-14	Bicarbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-14	Cadmium	7/6/2020	7/15/2020	9	180	OK
MW-14	Calcium	7/6/2020	7/22/2020	16	180	OK
MW-14	Carbon tetrachloride	7/6/2020	7/11/2020	5	14	OK
MW-14	Carbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-14	Chloride	7/6/2020	7/22/2020	16	28	OK
MW-14	Chloroform	7/6/2020	7/11/2020	5	14	OK
MW-14	Chloromethane	7/6/2020	7/11/2020	5	14	OK
MW-14	Chromium	7/6/2020	7/15/2020	9	180	OK
MW-14	Cobalt	7/6/2020	7/15/2020	9	180	OK
MW-14	Copper	7/6/2020	7/15/2020	9	180	OK
MW-14	Fluoride	7/6/2020	7/23/2020	17	28	OK
MW-14	Gross Radium Alpha	7/6/2020	7/29/2020	23	180	OK
MW-14	Iron	7/6/2020	7/15/2020	9	180	OK
MW-14	Lead	7/6/2020	7/15/2020	9	180	OK
MW-14	Magnesium	7/6/2020	7/22/2020	16	180	OK
MW-14	Manganese	7/6/2020	7/15/2020	9	180	OK
MW-14	Mercury	7/6/2020	7/22/2020	16	180	OK
MW-14	Methylene chloride	7/6/2020	7/11/2020	5	14	OK
MW-14	Molybdenum	7/6/2020	7/15/2020	9	180	OK
MW-14	Naphthalene	7/6/2020	7/11/2020	5	14	OK
MW-14	Nickel	7/6/2020	7/15/2020	9	180	OK
MW-14	Nitrate/Nitrite (as N)	7/6/2020	7/25/2020	19	28	OK
MW-14	Potassium	7/6/2020	7/23/2020	17	180	OK
MW-14	Selenium	7/6/2020	7/15/2020	9	180	OK
MW-14	Silver	7/6/2020	7/15/2020	9	180	OK
MW-14	Sodium	7/6/2020	7/22/2020	16	180	OK
MW-14	Sulfate	7/6/2020	7/21/2020	15	28	OK
MW-14	Tetrahydrofuran	7/6/2020	7/11/2020	5	14	OK
MW-14	Thallium	7/6/2020	7/15/2020	9	180	OK
MW-14	Tin	7/6/2020	7/15/2020	9	180	OK
MW-14	Toluene	7/6/2020	7/11/2020	5	14	OK
MW-14	Total Dissolved Solids	7/6/2020	7/10/2020	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-14	Uranium	7/6/2020	7/15/2020	9	180	OK
MW-14	Vanadium	7/6/2020	7/23/2020	17	180	OK
MW-14	Xylenes, Total	7/6/2020	7/11/2020	5	14	OK
MW-14	Zinc	7/6/2020	7/15/2020	9	180	OK
MW-24	2-Butanone	7/10/2020	7/15/2020	5	14	OK
MW-24	Acetone	7/10/2020	7/15/2020	5	14	OK
MW-24	Ammonia (as N)	7/10/2020	7/27/2020	17	28	OK
MW-24	Arsenic	7/10/2020	7/18/2020	8	180	OK
MW-24	Benzene	7/10/2020	7/15/2020	5	14	OK
MW-24	Beryllium	7/10/2020	7/18/2020	8	180	OK
MW-24	Bicarbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-24	Cadmium	7/10/2020	7/18/2020	8	180	OK
MW-24	Calcium	7/10/2020	7/27/2020	17	180	OK
MW-24	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
MW-24	Carbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-24	Chloride	7/10/2020	7/29/2020	19	28	OK
MW-24	Chloroform	7/10/2020	7/15/2020	5	14	OK
MW-24	Chloromethane	7/10/2020	7/15/2020	5	14	OK
MW-24	Chromium	7/10/2020	7/18/2020	8	180	OK
MW-24	Cobalt	7/10/2020	7/18/2020	8	180	OK
MW-24	Copper	7/10/2020	7/18/2020	8	180	OK
MW-24	Fluoride	7/10/2020	7/29/2020	19	28	OK
MW-24	Gross Radium Alpha	7/10/2020	7/29/2020	19	180	OK
MW-24	Iron	7/10/2020	7/18/2020	8	180	OK
MW-24	Lead	7/10/2020	7/18/2020	8	180	OK
MW-24	Magnesium	7/10/2020	7/27/2020	17	180	OK
MW-24	Manganese	7/10/2020	7/18/2020	8	180	OK
MW-24	Mercury	7/10/2020	7/22/2020	12	180	OK
MW-24	Methylene chloride	7/10/2020	7/15/2020	5	14	OK
MW-24	Molybdenum	7/10/2020	7/18/2020	8	180	OK
MW-24	Naphthalene	7/10/2020	7/15/2020	5	14	OK
MW-24	Nickel	7/10/2020	7/18/2020	8	180	OK
MW-24	Nitrate/Nitrite (as N)	7/10/2020	7/25/2020	15	28	OK
MW-24	Potassium	7/10/2020	7/27/2020	17	180	OK
MW-24	Selenium	7/10/2020	7/18/2020	8	180	OK
MW-24	Silver	7/10/2020	7/18/2020	8	180	OK
MW-24	Sodium	7/10/2020	7/27/2020	17	180	OK
MW-24	Sulfate	7/10/2020	7/30/2020	20	28	OK
MW-24	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK
MW-24	Thallium	7/10/2020	7/18/2020	8	180	OK
MW-24	Tin	7/10/2020	7/18/2020	8	180	OK
MW-24	Toluene	7/10/2020	7/15/2020	5	14	OK
MW-24	Total Dissolved Solids	7/10/2020	7/15/2020	5	7	OK
MW-24	Uranium	7/10/2020	7/18/2020	8	180	OK
MW-24	Vanadium	7/10/2020	7/27/2020	17	180	OK
MW-24	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-24	Zinc	7/10/2020	7/18/2020	8	180	OK
MW-24A	2-Butanone	7/8/2020	7/11/2020	3	14	OK
MW-24A	Acetone	7/8/2020	7/11/2020	3	14	OK
MW-24A	Ammonia (as N)	7/8/2020	7/23/2020	15	28	OK
MW-24A	Arsenic	7/8/2020	7/15/2020	7	180	OK
MW-24A	Benzene	7/8/2020	7/11/2020	3	14	OK
MW-24A	Beryllium	7/8/2020	7/15/2020	7	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-24A	Bicarbonate (as CaCO3)	7/8/2020	7/14/2020	6	14	OK
MW-24A	Cadmium	7/8/2020	7/15/2020	7	180	OK
MW-24A	Calcium	7/8/2020	7/22/2020	14	180	OK
MW-24A	Carbon tetrachloride	7/8/2020	7/11/2020	3	14	OK
MW-24A	Carbonate (as CaCO3)	7/8/2020	7/14/2020	6	14	OK
MW-24A	Chloride	7/8/2020	7/22/2020	14	28	OK
MW-24A	Chloroform	7/8/2020	7/11/2020	3	14	OK
MW-24A	Chloromethane	7/8/2020	7/11/2020	3	14	OK
MW-24A	Chromium	7/8/2020	7/15/2020	7	180	OK
MW-24A	Cobalt	7/8/2020	7/15/2020	7	180	OK
MW-24A	Copper	7/8/2020	7/15/2020	7	180	OK
MW-24A	Fluoride	7/8/2020	7/23/2020	15	28	OK
MW-24A	Gross Radium Alpha	7/8/2020	7/29/2020	21	180	OK
MW-24A	Iron	7/8/2020	7/15/2020	7	180	OK
MW-24A	Lead	7/8/2020	7/15/2020	7	180	OK
MW-24A	Magnesium	7/8/2020	7/22/2020	14	180	OK
MW-24A	Manganese	7/8/2020	7/15/2020	7	180	OK
MW-24A	Mercury	7/8/2020	7/22/2020	14	180	OK
MW-24A	Methylene chloride	7/8/2020	7/11/2020	3	14	OK
MW-24A	Molybdenum	7/8/2020	7/15/2020	7	180	OK
MW-24A	Naphthalene	7/8/2020	7/11/2020	3	14	OK
MW-24A	Nickel	7/8/2020	7/15/2020	7	180	OK
MW-24A	Nitrate/Nitrite (as N)	7/8/2020	7/25/2020	17	28	OK
MW-24A	Potassium	7/8/2020	7/23/2020	15	180	OK
MW-24A	Selenium	7/8/2020	7/15/2020	7	180	OK
MW-24A	Silver	7/8/2020	7/15/2020	7	180	OK
MW-24A	Sodium	7/8/2020	7/22/2020	14	180	OK
MW-24A	Sulfate	7/8/2020	7/21/2020	13	28	OK
MW-24A	Tetrahydrofuran	7/8/2020	7/11/2020	3	14	OK
MW-24A	Thallium	7/8/2020	7/15/2020	7	180	OK
MW-24A	Tin	7/8/2020	7/15/2020	7	180	OK
MW-24A	Toluene	7/8/2020	7/11/2020	3	14	OK
MW-24A	Total Dissolved Solids	7/8/2020	7/13/2020	5	7	OK
MW-24A	Uranium	7/8/2020	7/15/2020	7	180	OK
MW-24A	Vanadium	7/8/2020	7/23/2020	15	180	OK
MW-24A	Xylenes, Total	7/8/2020	7/11/2020	3	14	OK
MW-24A	Zinc	7/8/2020	7/15/2020	7	180	OK
MW-25	2-Butanone	7/7/2020	7/11/2020	4	14	OK
MW-25	Acetone	7/7/2020	7/11/2020	4	14	OK
MW-25	Ammonia (as N)	7/7/2020	7/23/2020	16	28	OK
MW-25	Arsenic	7/7/2020	7/15/2020	8	180	OK
MW-25	Benzene	7/7/2020	7/11/2020	4	14	OK
MW-25	Beryllium	7/7/2020	7/15/2020	8	180	OK
MW-25	Bicarbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-25	Cadmium	7/7/2020	7/15/2020	8	180	OK
MW-25	Calcium	7/7/2020	7/22/2020	15	180	OK
MW-25	Carbon tetrachloride	7/7/2020	7/11/2020	4	14	OK
MW-25	Carbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-25	Chloride	7/7/2020	7/21/2020	14	28	OK
MW-25	Chloroform	7/7/2020	7/11/2020	4	14	OK
MW-25	Chloromethane	7/7/2020	7/11/2020	4	14	OK
MW-25	Chromium	7/7/2020	7/15/2020	8	180	OK
MW-25	Cobalt	7/7/2020	7/15/2020	8	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Copper	7/7/2020	7/15/2020	8	180	OK
MW-25	Fluoride	7/7/2020	7/23/2020	16	28	OK
MW-25	Gross Radium Alpha	7/7/2020	7/29/2020	22	180	OK
MW-25	Iron	7/7/2020	7/15/2020	8	180	OK
MW-25	Lead	7/7/2020	7/15/2020	8	180	OK
MW-25	Magnesium	7/7/2020	7/22/2020	15	180	OK
MW-25	Manganese	7/7/2020	7/15/2020	8	180	OK
MW-25	Mercury	7/7/2020	7/22/2020	15	180	OK
MW-25	Methylene chloride	7/7/2020	7/11/2020	4	14	OK
MW-25	Molybdenum	7/7/2020	7/15/2020	8	180	OK
MW-25	Naphthalene	7/7/2020	7/11/2020	4	14	OK
MW-25	Nickel	7/7/2020	7/15/2020	8	180	OK
MW-25	Nitrate/Nitrite (as N)	7/7/2020	7/25/2020	18	28	OK
MW-25	Potassium	7/7/2020	7/23/2020	16	180	OK
MW-25	Selenium	7/7/2020	7/15/2020	8	180	OK
MW-25	Silver	7/7/2020	7/15/2020	8	180	OK
MW-25	Sodium	7/7/2020	7/22/2020	15	180	OK
MW-25	Sulfate	7/7/2020	7/21/2020	14	28	OK
MW-25	Tetrahydrofuran	7/7/2020	7/11/2020	4	14	OK
MW-25	Thallium	7/7/2020	7/15/2020	8	180	OK
MW-25	Tin	7/7/2020	7/15/2020	8	180	OK
MW-25	Toluene	7/7/2020	7/11/2020	4	14	OK
MW-25	Total Dissolved Solids	7/7/2020	7/13/2020	6	7	OK
MW-25	Uranium	7/7/2020	7/15/2020	8	180	OK
MW-25	Vanadium	7/7/2020	7/23/2020	16	180	OK
MW-25	Xylenes, Total	7/7/2020	7/11/2020	4	14	OK
MW-25	Zinc	7/7/2020	7/15/2020	8	180	OK
MW-26	2-Butanone	7/9/2020	7/11/2020	2	14	OK
MW-26	Acetone	7/9/2020	7/11/2020	2	14	OK
MW-26	Ammonia (as N)	7/9/2020	7/23/2020	14	28	OK
MW-26	Arsenic	7/9/2020	7/15/2020	6	180	OK
MW-26	Benzene	7/9/2020	7/11/2020	2	14	OK
MW-26	Beryllium	7/9/2020	7/15/2020	6	180	OK
MW-26	Bicarbonate (as CaCO3)	7/9/2020	7/14/2020	5	14	OK
MW-26	Cadmium	7/9/2020	7/15/2020	6	180	OK
MW-26	Calcium	7/9/2020	7/22/2020	13	180	OK
MW-26	Carbon tetrachloride	7/9/2020	7/11/2020	2	14	OK
MW-26	Carbonate (as CaCO3)	7/9/2020	7/14/2020	5	14	OK
MW-26	Chloride	7/9/2020	7/22/2020	13	28	OK
MW-26	Chloroform	7/9/2020	7/13/2020	4	14	OK
MW-26	Chloromethane	7/9/2020	7/11/2020	2	14	OK
MW-26	Chromium	7/9/2020	7/15/2020	6	180	OK
MW-26	Cobalt	7/9/2020	7/15/2020	6	180	OK
MW-26	Copper	7/9/2020	7/15/2020	6	180	OK
MW-26	Fluoride	7/9/2020	7/23/2020	14	28	OK
MW-26	Gross Radium Alpha	7/9/2020	7/29/2020	20	180	OK
MW-26	Iron	7/9/2020	7/15/2020	6	180	OK
MW-26	Lead	7/9/2020	7/15/2020	6	180	OK
MW-26	Magnesium	7/9/2020	7/22/2020	13	180	OK
MW-26	Manganese	7/9/2020	7/15/2020	6	180	OK
MW-26	Mercury	7/9/2020	7/22/2020	13	180	OK
MW-26	Methylene chloride	7/9/2020	7/11/2020	2	14	OK
MW-26	Molybdenum	7/9/2020	7/15/2020	6	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Naphthalene	7/9/2020	7/11/2020	2	14	OK
MW-26	Nickel	7/9/2020	7/15/2020	6	180	OK
MW-26	Nitrate/Nitrite (as N)	7/9/2020	7/25/2020	16	28	OK
MW-26	Potassium	7/9/2020	7/23/2020	14	180	OK
MW-26	Selenium	7/9/2020	7/15/2020	6	180	OK
MW-26	Silver	7/9/2020	7/15/2020	6	180	OK
MW-26	Sodium	7/9/2020	7/22/2020	13	180	OK
MW-26	Sulfate	7/9/2020	7/21/2020	12	28	OK
MW-26	Tetrahydrofuran	7/9/2020	7/11/2020	2	14	OK
MW-26	Thallium	7/9/2020	7/15/2020	6	180	OK
MW-26	Tin	7/9/2020	7/15/2020	6	180	OK
MW-26	Toluene	7/9/2020	7/11/2020	2	14	OK
MW-26	Total Dissolved Solids	7/9/2020	7/13/2020	4	7	OK
MW-26	Uranium	7/9/2020	7/15/2020	6	180	OK
MW-26	Vanadium	7/9/2020	7/23/2020	14	180	OK
MW-26	Xylenes, Total	7/9/2020	7/11/2020	2	14	OK
MW-26	Zinc	7/9/2020	7/15/2020	6	180	OK
MW-27	Nitrate/Nitrite (as N)	7/8/2020	7/25/2020	17	28	OK
MW-28	Chloride	7/8/2020	7/20/2020	12	28	OK
MW-28	Gross Radium Alpha	7/8/2020	7/29/2020	21	180	OK
MW-28	Nitrate/Nitrite (as N)	7/8/2020	7/25/2020	17	28	OK
MW-28	Selenium	7/8/2020	7/18/2020	10	180	OK
MW-28	Uranium	7/8/2020	7/18/2020	10	180	OK
MW-30	2-Butanone	7/6/2020	7/13/2020	7	14	OK
MW-30	Acetone	7/6/2020	7/13/2020	7	14	OK
MW-30	Ammonia (as N)	7/6/2020	7/23/2020	17	28	OK
MW-30	Arsenic	7/6/2020	7/15/2020	9	180	OK
MW-30	Benzene	7/6/2020	7/13/2020	7	14	OK
MW-30	Beryllium	7/6/2020	7/15/2020	9	180	OK
MW-30	Bicarbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-30	Cadmium	7/6/2020	7/15/2020	9	180	OK
MW-30	Calcium	7/6/2020	7/22/2020	16	180	OK
MW-30	Carbon tetrachloride	7/6/2020	7/13/2020	7	14	OK
MW-30	Carbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-30	Chloride	7/6/2020	7/21/2020	15	28	OK
MW-30	Chloroform	7/6/2020	7/13/2020	7	14	OK
MW-30	Chloromethane	7/6/2020	7/13/2020	7	14	OK
MW-30	Chromium	7/6/2020	7/15/2020	9	180	OK
MW-30	Cobalt	7/6/2020	7/15/2020	9	180	OK
MW-30	Copper	7/6/2020	7/15/2020	9	180	OK
MW-30	Fluoride	7/6/2020	7/29/2020	23	28	OK
MW-30	Gross Radium Alpha	7/6/2020	7/29/2020	23	180	OK
MW-30	Iron	7/6/2020	7/15/2020	9	180	OK
MW-30	Lead	7/6/2020	7/15/2020	9	180	OK
MW-30	Magnesium	7/6/2020	7/22/2020	16	180	OK
MW-30	Manganese	7/6/2020	7/15/2020	9	180	OK
MW-30	Mercury	7/6/2020	7/22/2020	16	180	OK
MW-30	Methylene chloride	7/6/2020	7/13/2020	7	14	OK
MW-30	Molybdenum	7/6/2020	7/15/2020	9	180	OK
MW-30	Naphthalene	7/6/2020	7/13/2020	7	14	OK
MW-30	Nickel	7/6/2020	7/15/2020	9	180	OK
MW-30	Nitrate/Nitrite (as N)	7/6/2020	7/25/2020	19	28	OK
MW-30	Potassium	7/6/2020	7/23/2020	17	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Selenium	7/6/2020	7/15/2020	9	180	OK
MW-30	Silver	7/6/2020	7/15/2020	9	180	OK
MW-30	Sodium	7/6/2020	7/22/2020	16	180	OK
MW-30	Sulfate	7/6/2020	7/21/2020	15	28	OK
MW-30	Tetrahydrofuran	7/6/2020	7/13/2020	7	14	OK
MW-30	Thallium	7/6/2020	7/15/2020	9	180	OK
MW-30	Tin	7/6/2020	7/15/2020	9	180	OK
MW-30	Toluene	7/6/2020	7/13/2020	7	14	OK
MW-30	Total Dissolved Solids	7/6/2020	7/10/2020	4	7	OK
MW-30	Uranium	7/6/2020	7/15/2020	9	180	OK
MW-30	Vanadium	7/6/2020	7/23/2020	17	180	OK
MW-30	Xylenes, Total	7/6/2020	7/13/2020	7	14	OK
MW-30	Zinc	7/6/2020	7/15/2020	9	180	OK
MW-31	2-Butanone	7/7/2020	7/11/2020	4	14	OK
MW-31	Acetone	7/7/2020	7/11/2020	4	14	OK
MW-31	Ammonia (as N)	7/7/2020	7/23/2020	16	28	OK
MW-31	Arsenic	7/7/2020	7/15/2020	8	180	OK
MW-31	Benzene	7/7/2020	7/11/2020	4	14	OK
MW-31	Beryllium	7/7/2020	7/15/2020	8	180	OK
MW-31	Bicarbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-31	Cadmium	7/7/2020	7/15/2020	8	180	OK
MW-31	Calcium	7/7/2020	7/22/2020	15	180	OK
MW-31	Carbon tetrachloride	7/7/2020	7/11/2020	4	14	OK
MW-31	Carbonate (as CaCO3)	7/7/2020	7/14/2020	7	14	OK
MW-31	Chloride	7/7/2020	7/21/2020	14	28	OK
MW-31	Chloroform	7/7/2020	7/11/2020	4	14	OK
MW-31	Chloromethane	7/7/2020	7/11/2020	4	14	OK
MW-31	Chromium	7/7/2020	7/15/2020	8	180	OK
MW-31	Cobalt	7/7/2020	7/15/2020	8	180	OK
MW-31	Copper	7/7/2020	7/15/2020	8	180	OK
MW-31	Fluoride	7/7/2020	7/23/2020	16	28	OK
MW-31	Gross Radium Alpha	7/7/2020	7/29/2020	22	180	OK
MW-31	Iron	7/7/2020	7/15/2020	8	180	OK
MW-31	Lead	7/7/2020	7/15/2020	8	180	OK
MW-31	Magnesium	7/7/2020	7/22/2020	15	180	OK
MW-31	Manganese	7/7/2020	7/15/2020	8	180	OK
MW-31	Mercury	7/7/2020	7/22/2020	15	180	OK
MW-31	Methylene chloride	7/7/2020	7/11/2020	4	14	OK
MW-31	Molybdenum	7/7/2020	7/15/2020	8	180	OK
MW-31	Naphthalene	7/7/2020	7/11/2020	4	14	OK
MW-31	Nickel	7/7/2020	7/15/2020	8	180	OK
MW-31	Nitrate/Nitrite (as N)	7/7/2020	7/25/2020	18	28	OK
MW-31	Potassium	7/7/2020	7/23/2020	16	180	OK
MW-31	Selenium	7/7/2020	7/15/2020	8	180	OK
MW-31	Silver	7/7/2020	7/15/2020	8	180	OK
MW-31	Sodium	7/7/2020	7/22/2020	15	180	OK
MW-31	Sulfate	7/7/2020	7/21/2020	14	28	OK
MW-31	Tetrahydrofuran	7/7/2020	7/11/2020	4	14	OK
MW-31	Thallium	7/7/2020	7/15/2020	8	180	OK
MW-31	Tin	7/7/2020	7/15/2020	8	180	OK
MW-31	Toluene	7/7/2020	7/11/2020	4	14	OK
MW-31	Total Dissolved Solids	7/7/2020	7/13/2020	6	7	OK
MW-31	Uranium	7/7/2020	7/15/2020	8	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-31	Vanadium	7/7/2020	7/23/2020	16	180	OK
MW-31	Xylenes, Total	7/7/2020	7/11/2020	4	14	OK
MW-31	Zinc	7/7/2020	7/15/2020	8	180	OK
MW-32	Chloride	7/6/2020	7/20/2020	14	28	OK
MW-35	Ammonia (as N)	7/6/2020	7/23/2020	17	28	OK
MW-36	2-Butanone	7/6/2020	7/11/2020	5	14	OK
MW-36	Acetone	7/6/2020	7/11/2020	5	14	OK
MW-36	Ammonia (as N)	7/6/2020	7/23/2020	17	28	OK
MW-36	Arsenic	7/6/2020	7/15/2020	9	180	OK
MW-36	Benzene	7/6/2020	7/11/2020	5	14	OK
MW-36	Beryllium	7/6/2020	7/15/2020	9	180	OK
MW-36	Bicarbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-36	Cadmium	7/6/2020	7/15/2020	9	180	OK
MW-36	Calcium	7/6/2020	7/22/2020	16	180	OK
MW-36	Carbon tetrachloride	7/6/2020	7/11/2020	5	14	OK
MW-36	Carbonate (as CaCO3)	7/6/2020	7/14/2020	8	14	OK
MW-36	Chloride	7/6/2020	7/22/2020	16	28	OK
MW-36	Chloroform	7/6/2020	7/11/2020	5	14	OK
MW-36	Chloromethane	7/6/2020	7/11/2020	5	14	OK
MW-36	Chromium	7/6/2020	7/15/2020	9	180	OK
MW-36	Cobalt	7/6/2020	7/15/2020	9	180	OK
MW-36	Copper	7/6/2020	7/15/2020	9	180	OK
MW-36	Fluoride	7/6/2020	7/23/2020	17	28	OK
MW-36	Gross Radium Alpha	7/6/2020	7/29/2020	23	180	OK
MW-36	Iron	7/6/2020	7/15/2020	9	180	OK
MW-36	Lead	7/6/2020	7/15/2020	9	180	OK
MW-36	Magnesium	7/6/2020	7/22/2020	16	180	OK
MW-36	Manganese	7/6/2020	7/15/2020	9	180	OK
MW-36	Mercury	7/6/2020	7/22/2020	16	180	OK
MW-36	Methylene chloride	7/6/2020	7/11/2020	5	14	OK
MW-36	Molybdenum	7/6/2020	7/15/2020	9	180	OK
MW-36	Naphthalene	7/6/2020	7/11/2020	5	14	OK
MW-36	Nickel	7/6/2020	7/15/2020	9	180	OK
MW-36	Nitrate/Nitrite (as N)	7/6/2020	7/25/2020	19	28	OK
MW-36	Potassium	7/6/2020	7/23/2020	17	180	OK
MW-36	Selenium	7/6/2020	7/15/2020	9	180	OK
MW-36	Silver	7/6/2020	7/15/2020	9	180	OK
MW-36	Sodium	7/6/2020	7/22/2020	16	180	OK
MW-36	Sulfate	7/6/2020	7/21/2020	15	28	OK
MW-36	Tetrahydrofuran	7/6/2020	7/11/2020	5	14	OK
MW-36	Thallium	7/6/2020	7/15/2020	9	180	OK
MW-36	Tin	7/6/2020	7/15/2020	9	180	OK
MW-36	Toluene	7/6/2020	7/11/2020	5	14	OK
MW-36	Total Dissolved Solids	7/6/2020	7/10/2020	4	7	OK
MW-36	Uranium	7/6/2020	7/29/2020	23	180	OK
MW-36	Vanadium	7/6/2020	7/23/2020	17	180	OK
MW-36	Xylenes, Total	7/6/2020	7/11/2020	5	14	OK
MW-36	Zinc	7/6/2020	7/15/2020	9	180	OK
MW-38	2-Butanone	7/10/2020	7/15/2020	5	14	OK
MW-38	Acetone	7/10/2020	7/15/2020	5	14	OK
MW-38	Ammonia (as N)	7/10/2020	7/27/2020	17	28	OK
MW-38	Arsenic	7/10/2020	7/18/2020	8	180	OK
MW-38	Benzene	7/10/2020	7/15/2020	5	14	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-38	Beryllium	7/10/2020	7/18/2020	8	180	OK
MW-38	Bicarbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-38	Cadmium	7/10/2020	7/18/2020	8	180	OK
MW-38	Calcium	7/10/2020	7/27/2020	17	180	OK
MW-38	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
MW-38	Carbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-38	Chloride	7/10/2020	7/29/2020	19	28	OK
MW-38	Chloroform	7/10/2020	7/15/2020	5	14	OK
MW-38	Chloromethane	7/10/2020	7/15/2020	5	14	OK
MW-38	Chromium	7/10/2020	7/18/2020	8	180	OK
MW-38	Cobalt	7/10/2020	7/18/2020	8	180	OK
MW-38	Copper	7/10/2020	7/18/2020	8	180	OK
MW-38	Fluoride	7/10/2020	7/29/2020	19	28	OK
MW-38	Gross Radium Alpha	7/10/2020	7/29/2020	19	180	OK
MW-38	Iron	7/10/2020	7/18/2020	8	180	OK
MW-38	Lead	7/10/2020	7/18/2020	8	180	OK
MW-38	Magnesium	7/10/2020	7/27/2020	17	180	OK
MW-38	Manganese	7/10/2020	7/18/2020	8	180	OK
MW-38	Mercury	7/10/2020	7/22/2020	12	180	OK
MW-38	Methylene chloride	7/10/2020	7/15/2020	5	14	OK
MW-38	Molybdenum	7/10/2020	7/18/2020	8	180	OK
MW-38	Naphthalene	7/10/2020	7/15/2020	5	14	OK
MW-38	Nickel	7/10/2020	7/18/2020	8	180	OK
MW-38	Nitrate/Nitrite (as N)	7/10/2020	7/25/2020	15	28	OK
MW-38	Potassium	7/10/2020	7/27/2020	17	180	OK
MW-38	Selenium	7/10/2020	7/18/2020	8	180	OK
MW-38	Silver	7/10/2020	7/18/2020	8	180	OK
MW-38	Sodium	7/10/2020	7/27/2020	17	180	OK
MW-38	Sulfate	7/10/2020	7/28/2020	18	28	OK
MW-38	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK
MW-38	Thallium	7/10/2020	7/18/2020	8	180	OK
MW-38	Tin	7/10/2020	7/18/2020	8	180	OK
MW-38	Toluene	7/10/2020	7/15/2020	5	14	OK
MW-38	Total Dissolved Solids	7/10/2020	7/15/2020	5	7	OK
MW-38	Uranium	7/10/2020	7/18/2020	8	180	OK
MW-38	Vanadium	7/10/2020	7/27/2020	17	180	OK
MW-38	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-38	Zinc	7/10/2020	7/18/2020	8	180	OK
MW-39	2-Butanone	7/10/2020	7/15/2020	5	14	OK
MW-39	Acetone	7/10/2020	7/15/2020	5	14	OK
MW-39	Ammonia (as N)	7/10/2020	7/27/2020	17	28	OK
MW-39	Arsenic	7/10/2020	7/18/2020	8	180	OK
MW-39	Benzene	7/10/2020	7/15/2020	5	14	OK
MW-39	Beryllium	7/10/2020	7/18/2020	8	180	OK
MW-39	Bicarbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-39	Cadmium	7/10/2020	7/18/2020	8	180	OK
MW-39	Calcium	7/10/2020	7/27/2020	17	180	OK
MW-39	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
MW-39	Carbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-39	Chloride	7/10/2020	7/29/2020	19	28	OK
MW-39	Chloroform	7/10/2020	7/15/2020	5	14	OK
MW-39	Chloromethane	7/10/2020	7/15/2020	5	14	OK
MW-39	Chromium	7/10/2020	7/18/2020	8	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-39	Cobalt	7/10/2020	7/18/2020	8	180	OK
MW-39	Copper	7/10/2020	7/18/2020	8	180	OK
MW-39	Fluoride	7/10/2020	7/29/2020	19	28	OK
MW-39	Gross Radium Alpha	7/10/2020	7/29/2020	19	180	OK
MW-39	Iron	7/10/2020	7/18/2020	8	180	OK
MW-39	Lead	7/10/2020	7/18/2020	8	180	OK
MW-39	Magnesium	7/10/2020	7/27/2020	17	180	OK
MW-39	Manganese	7/10/2020	7/18/2020	8	180	OK
MW-39	Mercury	7/10/2020	7/22/2020	12	180	OK
MW-39	Methylene chloride	7/10/2020	7/15/2020	5	14	OK
MW-39	Molybdenum	7/10/2020	7/18/2020	8	180	OK
MW-39	Naphthalene	7/10/2020	7/15/2020	5	14	OK
MW-39	Nickel	7/10/2020	7/18/2020	8	180	OK
MW-39	Nitrate/Nitrite (as N)	7/10/2020	7/25/2020	15	28	OK
MW-39	Potassium	7/10/2020	7/27/2020	17	180	OK
MW-39	Selenium	7/10/2020	7/18/2020	8	180	OK
MW-39	Silver	7/10/2020	7/18/2020	8	180	OK
MW-39	Sodium	7/10/2020	7/27/2020	17	180	OK
MW-39	Sulfate	7/10/2020	7/29/2020	19	28	OK
MW-39	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK
MW-39	Thallium	7/10/2020	7/18/2020	8	180	OK
MW-39	Tin	7/10/2020	7/18/2020	8	180	OK
MW-39	Toluene	7/10/2020	7/15/2020	5	14	OK
MW-39	Total Dissolved Solids	7/10/2020	7/15/2020	5	7	OK
MW-39	Uranium	7/10/2020	7/18/2020	8	180	OK
MW-39	Vanadium	7/10/2020	7/27/2020	17	180	OK
MW-39	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-39	Zinc	7/10/2020	7/18/2020	8	180	OK
MW-40	2-Butanone	7/10/2020	7/15/2020	5	14	OK
MW-40	Acetone	7/10/2020	7/15/2020	5	14	OK
MW-40	Ammonia (as N)	7/10/2020	7/30/2020	20	28	OK
MW-40	Arsenic	7/10/2020	7/18/2020	8	180	OK
MW-40	Benzene	7/10/2020	7/15/2020	5	14	OK
MW-40	Beryllium	7/10/2020	7/18/2020	8	180	OK
MW-40	Bicarbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-40	Cadmium	7/10/2020	7/18/2020	8	180	OK
MW-40	Calcium	7/10/2020	7/27/2020	17	180	OK
MW-40	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
MW-40	Carbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-40	Chloride	7/10/2020	7/29/2020	19	28	OK
MW-40	Chloroform	7/10/2020	7/15/2020	5	14	OK
MW-40	Chloromethane	7/10/2020	7/15/2020	5	14	OK
MW-40	Chromium	7/10/2020	7/18/2020	8	180	OK
MW-40	Cobalt	7/10/2020	7/18/2020	8	180	OK
MW-40	Copper	7/10/2020	7/18/2020	8	180	OK
MW-40	Fluoride	7/10/2020	7/29/2020	19	28	OK
MW-40	Gross Radium Alpha	7/10/2020	7/29/2020	19	180	OK
MW-40	Iron	7/10/2020	7/18/2020	8	180	OK
MW-40	Lead	7/10/2020	7/18/2020	8	180	OK
MW-40	Magnesium	7/10/2020	7/27/2020	17	180	OK
MW-40	Manganese	7/10/2020	7/18/2020	8	180	OK
MW-40	Mercury	7/10/2020	7/22/2020	12	180	OK
MW-40	Methylene chloride	7/10/2020	7/15/2020	5	14	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-40	Molybdenum	7/10/2020	7/18/2020	8	180	OK
MW-40	Naphthalene	7/10/2020	7/15/2020	5	14	OK
MW-40	Nickel	7/10/2020	7/18/2020	8	180	OK
MW-40	Nitrate/Nitrite (as N)	7/10/2020	7/25/2020	15	28	OK
MW-40	Potassium	7/10/2020	7/27/2020	17	180	OK
MW-40	Selenium	7/10/2020	7/18/2020	8	180	OK
MW-40	Silver	7/10/2020	7/18/2020	8	180	OK
MW-40	Sodium	7/10/2020	7/27/2020	17	180	OK
MW-40	Sulfate	7/10/2020	7/29/2020	19	28	OK
MW-40	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK
MW-40	Thallium	7/10/2020	7/18/2020	8	180	OK
MW-40	Tin	7/10/2020	7/18/2020	8	180	OK
MW-40	Toluene	7/10/2020	7/15/2020	5	14	OK
MW-40	Total Dissolved Solids	7/10/2020	7/15/2020	5	7	OK
MW-40	Uranium	7/10/2020	7/18/2020	8	180	OK
MW-40	Vanadium	7/10/2020	7/27/2020	17	180	OK
MW-40	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-40	Zinc	7/10/2020	7/18/2020	8	180	OK
MW-65	2-Butanone	7/10/2020	7/15/2020	5	14	OK
MW-65	Acetone	7/10/2020	7/15/2020	5	14	OK
MW-65	Ammonia (as N)	7/10/2020	7/27/2020	17	28	OK
MW-65	Arsenic	7/10/2020	7/18/2020	8	180	OK
MW-65	Benzene	7/10/2020	7/15/2020	5	14	OK
MW-65	Beryllium	7/10/2020	7/18/2020	8	180	OK
MW-65	Bicarbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-65	Cadmium	7/10/2020	7/18/2020	8	180	OK
MW-65	Calcium	7/10/2020	7/27/2020	17	180	OK
MW-65	Carbon tetrachloride	7/10/2020	7/15/2020	5	14	OK
MW-65	Carbonate (as CaCO3)	7/10/2020	7/15/2020	5	14	OK
MW-65	Chloride	7/10/2020	7/29/2020	19	28	OK
MW-65	Chloroform	7/10/2020	7/15/2020	5	14	OK
MW-65	Chloromethane	7/10/2020	7/15/2020	5	14	OK
MW-65	Chromium	7/10/2020	7/18/2020	8	180	OK
MW-65	Cobalt	7/10/2020	7/18/2020	8	180	OK
MW-65	Copper	7/10/2020	7/18/2020	8	180	OK
MW-65	Fluoride	7/10/2020	7/29/2020	19	28	OK
MW-65	Gross Radium Alpha	7/10/2020	7/29/2020	19	180	OK
MW-65	Iron	7/10/2020	7/18/2020	8	180	OK
MW-65	Lead	7/10/2020	7/18/2020	8	180	OK
MW-65	Magnesium	7/10/2020	7/27/2020	17	180	OK
MW-65	Manganese	7/10/2020	7/18/2020	8	180	OK
MW-65	Mercury	7/10/2020	7/22/2020	12	180	OK
MW-65	Methylene chloride	7/10/2020	7/15/2020	5	14	OK
MW-65	Molybdenum	7/10/2020	7/18/2020	8	180	OK
MW-65	Naphthalene	7/10/2020	7/15/2020	5	14	OK
MW-65	Nickel	7/10/2020	7/18/2020	8	180	OK
MW-65	Nitrate/Nitrite (as N)	7/10/2020	7/25/2020	15	28	OK
MW-65	Potassium	7/10/2020	7/27/2020	17	180	OK
MW-65	Selenium	7/10/2020	7/18/2020	8	180	OK
MW-65	Silver	7/10/2020	7/18/2020	8	180	OK
MW-65	Sodium	7/10/2020	7/27/2020	17	180	OK
MW-65	Sulfate	7/10/2020	7/29/2020	19	28	OK
MW-65	Tetrahydrofuran	7/10/2020	7/15/2020	5	14	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Thallium	7/10/2020	7/18/2020	8	180	OK
MW-65	Tin	7/10/2020	7/18/2020	8	180	OK
MW-65	Toluene	7/10/2020	7/15/2020	5	14	OK
MW-65	Total Dissolved Solids	7/10/2020	7/15/2020	5	7	OK
MW-65	Uranium	7/10/2020	7/18/2020	8	180	OK
MW-65	Vanadium	7/10/2020	7/27/2020	17	180	OK
MW-65	Xylenes, Total	7/10/2020	7/15/2020	5	14	OK
MW-65	Zinc	7/10/2020	7/18/2020	8	180	OK

G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	8/11/2020	8/14/2020	3	14	OK
Trip Blank	Methylene chloride	8/11/2020	8/14/2020	3	14	OK
Trip Blank	Chloroform	9/2/2020	9/9/2020	7	14	OK
Trip Blank	Methylene chloride	9/2/2020	9/9/2020	7	14	OK
MW-11	Sulfate	8/11/2020	8/18/2020	7	28	OK
MW-11	Chloride	8/11/2020	8/18/2020	7	28	OK
MW-11	Manganese	8/11/2020	8/22/2020	11	180	OK
MW-11	Sulfate	9/2/2020	9/11/2020	9	28	OK
MW-11	Chloride	9/2/2020	9/11/2020	9	28	OK
MW-11	Manganese	9/2/2020	9/11/2020	9	180	OK
MW-25	Cadmium	8/10/2020	8/22/2020	12	180	OK
MW-25	Cadmium	9/2/2020	9/11/2020	9	180	OK
MW-26	Chloride	8/11/2020	8/18/2020	7	28	OK
MW-26	Chloroform	8/11/2020	8/14/2020	3	14	OK
MW-26	Methylene chloride	8/11/2020	8/14/2020	3	14	OK
MW-26	Nitrate/Nitrite (as N)	8/11/2020	8/19/2020	8	28	OK
MW-26	Chloride	9/2/2020	9/11/2020	9	28	OK
MW-26	Chloroform	9/2/2020	9/9/2020	7	14	OK
MW-26	Methylene chloride	9/2/2020	9/9/2020	7	14	OK
MW-26	Nitrate/Nitrite (as N)	9/2/2020	9/15/2020	13	28	OK
MW-30	Chloride	8/11/2020	8/18/2020	7	28	OK
MW-30	Uranium	8/11/2020	8/22/2020	11	180	OK
MW-30	Selenium	8/11/2020	8/22/2020	11	180	OK
MW-30	Nitrate/Nitrite (as N)	8/11/2020	8/19/2020	8	28	OK
MW-30	Chloride	9/1/2020	9/11/2020	10	28	OK
MW-30	Uranium	9/1/2020	9/11/2020	10	180	OK
MW-30	Selenium	9/1/2020	9/11/2020	10	180	OK
MW-30	Nitrate/Nitrite (as N)	9/1/2020	9/15/2020	14	28	OK
MW-31	Sulfate	8/10/2020	8/18/2020	8	28	OK
MW-31	Chloride	8/10/2020	8/18/2020	8	28	OK
MW-31	Uranium	8/10/2020	8/22/2020	12	180	OK
MW-31	Nitrate/Nitrite (as N)	8/10/2020	8/19/2020	9	28	OK
MW-31	Total Dissolved Solids	8/10/2020	8/14/2020	4	7	OK
MW-31	Sulfate	9/1/2020	9/11/2020	10	28	OK
MW-31	Chloride	9/1/2020	9/11/2020	10	28	OK
MW-31	Uranium	9/1/2020	9/11/2020	10	180	OK
MW-31	Nitrate/Nitrite (as N)	9/1/2020	9/15/2020	14	28	OK
MW-31	Total Dissolved Solids	9/1/2020	9/4/2020	3	7	OK
MW-65	Chloride	8/11/2020	8/18/2020	7	28	OK
MW-65	Uranium	8/11/2020	8/22/2020	11	180	OK
MW-65	Selenium	8/11/2020	8/22/2020	11	180	OK
MW-65	Nitrate/Nitrite (as N)	8/11/2020	8/19/2020	8	28	OK
MW-65	Sulfate	9/2/2020	9/11/2020	9	28	OK
MW-65	Chloride	9/2/2020	9/11/2020	9	28	OK
MW-65	Manganese	9/2/2020	9/11/2020	9	180	OK

G-3A: Quarterly Sample Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 515723	MW-11, MW-14, MW-24A, MW-25, MW-26, MW-28, MW-30, MW-31, MW-36	NA
GEL 515995	MW-24, MW-38, MW-39, MW-40, MW-65	NA
AWAL 2007288	MW-11, MW-14, MW-24A, MW-25, MW-26, MW-28, MW-30, MW-31, MW-36, Trip Blank	0.3 °C
AWAL 2007367	MW-24, MW-38, MW-39, MW-40, MW-65, Trip Blank	1.0 °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 2008385- February	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.4 °C
AWAL 2003334 - March	MW-11, MW-25, MW-26, MW-30, MW-31, MW-65, Trip Blank	0.0 °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
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L		1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L		1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	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	1	mg/L		10	1	OK
MW-11	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloromethane	1	ug/L	U	1	1	OK
MW-11	Chromium	25	ug/L	U	20	25	OK
MW-11	Cobalt	10	ug/L	U	20	10	OK
MW-11	Copper	10	ug/L	U	20	10	OK
MW-11	Fluoride	0.2	mg/L		2	0.1	OK
MW-11	Gross Radium Alpha	0.906	pCi/L	U	1	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	20	mg/L		20	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	20	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	20	20	OK
MW-11	Nitrate/Nitrite (as N)	0.1	mg/L		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	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-11	Sodium	20	mg/L		20	0.5	OK
MW-11	Sulfate	150	mg/L		200	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	1	15	OK
MW-11	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L	U	20	10	OK
MW-12	Selenium	5	ug/L		20	5	OK
MW-12	Uranium	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		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
MW-14	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-14	Chloride	1	mg/L		10	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	20	25	OK
MW-14	Cobalt	10	ug/L	U	20	10	OK
MW-14	Copper	10	ug/L	U	20	10	OK
MW-14	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-14	Gross Radium Alpha	0.894	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	20	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	20	20	OK
MW-14	Nitrate/Nitrite (as N)	0.1	mg/L	U	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	20	10	OK
MW-14	Sodium	20	mg/L		20	0.5	OK
MW-14	Sulfate	750	mg/L		1000	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	0.5	ug/L		5	0.3	OK
MW-14	Vanadium	15	ug/L	U	1	15	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-14	Xylenes, Total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		20	10	OK
MW-24	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		10	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	20	25	OK
MW-24	Cobalt	10	ug/L		20	10	OK
MW-24	Copper	10	ug/L		20	10	OK
MW-24	Fluoride	0.2	mg/L		2	0.1	OK
MW-24	Gross Radium Alpha	0.923	pCi/L		1	1	OK
MW-24	Iron	30	ug/L		5	30	OK
MW-24	Lead	1	ug/L		5	1	OK
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	750	mg/L		1000	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		5	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	20	mg/L		20	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-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	0.4	mg/L		4	0.1	OK
MW-24A	Gross Radium Alpha	0.914	pCi/L		1	1	OK
MW-24A	Iron	30	ug/L	U	5	30	OK
MW-24A	Lead	1	ug/L	U	5	1	OK
MW-24A	Magnesium	20	mg/L		20	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
MW-24A	Sodium	20	mg/L		20	0.5	OK
MW-24A	Sulfate	750	mg/L		1000	1	OK
MW-24A	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24A	Thallium	0.5	ug/L		5	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	20	mg/L		200	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	20	10	OK
MW-25	Fluoride	0.2	mg/L		2	0.1	OK
MW-25	Gross Radium Alpha	0.954	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	5	30	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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		20	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	20	20	OK
MW-25	Nitrate/Nitrite (as N)	0.1	mg/L	U	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	20	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	1	15	OK
MW-25	Xylenes, Total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	20	10	OK
MW-26	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		1	1	OK
MW-26	Chromium	25	ug/L	U	20	25	OK
MW-26	Cobalt	10	ug/L	U	20	10	OK
MW-26	Copper	10	ug/L	U	20	10	OK
MW-26	Fluoride	0.2	mg/L		2	0.1	OK
MW-26	Gross Radium Alpha	0.885	pCi/L		1	1	OK
MW-26	Iron	30	ug/L		5	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	20	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	20	20	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		2	0.1	OK
MW-26	Potassium	1	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L	U	20	5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	Silver	10	ug/L	U	20	10	OK
MW-26	Sodium	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	0.5	ug/L		5	0.3	OK
MW-26	Vanadium	15	ug/L	U	1	15	OK
MW-26	Xylenes, Total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	5	10	OK
MW-27	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	OK
MW-28	Chloride	10	mg/L		100	1	OK
MW-28	Gross Radium Alpha	0.906	pCi/L		1	1	OK
MW-28	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	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
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	10	mg/L		100	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	20	25	OK
MW-30	Cobalt	10	ug/L	U	20	10	OK
MW-30	Copper	10	ug/L	U	20	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.887	pCi/L		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	U	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	20	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	20	20	OK
MW-30	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
MW-30	Potassium	1	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Silver	10	ug/L	U	20	10	OK
MW-30	Sodium	20	mg/L		20	0.5	OK
MW-30	Sulfate	75	mg/L		100	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	5	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Tin	100	ug/L	U	20	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Vanadium	15	ug/L	U	1	15	OK
MW-30	Xylenes, Total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	20	10	OK
MW-31	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		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	20	10	OK
MW-31	Fluoride	0.2	mg/L		2	0.1	OK
MW-31	Gross Radium Alpha	0.919	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	20	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	20	20	OK
MW-31	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
MW-31	Potassium	1	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Silver	10	ug/L	U	20	10	OK
MW-31	Sodium	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	1	15	OK
MW-31	Xylenes, Total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	20	10	OK
MW-32	Chloride	2	mg/L		20	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

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Ammonia (as N)	0.05	mg/L		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		10	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	20	25	OK
MW-36	Cobalt	10	ug/L	U	20	10	OK
MW-36	Copper	10	ug/L	U	20	10	OK
MW-36	Fluoride	0.2	mg/L		2	0.1	OK
MW-36	Gross Radium Alpha	0.941	pCi/L	U	1	1	OK
MW-36	Iron	30	ug/L	U	5	30	OK
MW-36	Lead	1	ug/L	U	5	1	OK
MW-36	Magnesium	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	20	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	20	20	OK
MW-36	Nitrate/Nitrite (as N)	0.1	mg/L		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	20	10	OK
MW-36	Sodium	20	mg/L		20	0.5	OK
MW-36	Sulfate	750	mg/L		1000	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	1	15	OK
MW-36	Xylenes, Total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	20	10	OK
MW-38	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		10	1	OK
MW-38	Chloroform	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-38	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	0.2	mg/L		2	0.1	OK
MW-38	Gross Radium Alpha	0.907	pCi/L	U	1	1	OK
MW-38	Iron	30	ug/L	U	5	30	OK
MW-38	Lead	1	ug/L	U	5	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		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)	0.2	mg/L		20	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	5	0.5	OK
MW-38	Tin	100	ug/L	U	20	100	OK
MW-38	Toluene	1	ug/L	U	1	1	OK
MW-38	Total Dissolved Solids	20	MG/L		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	5	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		10	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	0.2	mg/L		2	0.1	OK
MW-39	Gross Radium Alpha	0.885	pCi/L		1	1	OK
MW-39	Iron	1000	ug/L		200	30	OK
MW-39	Lead	1	ug/L	U	5	1	OK
MW-39	Magnesium	10	mg/L		10	0.5	OK
MW-39	Manganese	20	ug/L		200	10	OK
MW-39	Mercury	0.5	ug/L	U	1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-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	20	mg/L		20	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		5	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
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		10	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	0.2	mg/L		2	0.1	OK
MW-40	Gross Radium Alpha	0.954	pCi/L		1	1	OK
MW-40	Iron	30	ug/L	U	5	30	OK
MW-40	Lead	1	ug/L	U	5	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		2	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

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-40	Thallium	0.5	ug/L	U	5	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		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		5	0.5	OK
MW-65	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L		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	20	mg/L		200	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	20	25	OK
MW-65	Cobalt	10	ug/L		20	10	OK
MW-65	Copper	10	ug/L		20	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.926	pCi/L		1	1	OK
MW-65	Iron	1000	ug/L		200	30	OK
MW-65	Lead	1	ug/L	U	5	1	OK
MW-65	Magnesium	10	mg/L		10	0.5	OK
MW-65	Manganese	20	ug/L		200	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		20	20	OK
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-65	Potassium	1	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L	U	20	5	OK
MW-65	Silver	10	ug/L	U	20	10	OK
MW-65	Sodium	20	mg/L		20	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		5	0.5	OK
MW-65	Tin	100	ug/L	U	20	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		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		20	10	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	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	375	mg/L		500	1	OK
MW-11	Chloride	2	mg/L		20	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Sulfate	150	mg/L		200	1	OK
MW-11	Chloride	2	mg/L		20	1	OK
MW-11	Manganese	10	ug/L		20	10	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	2	mg/L		20	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		2	0.1	OK
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Chloroform	10	ug/L		10	1	OK
MW-26	Methylene chloride	1	ug/L	U	1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		5	0.1	OK
MW-30	Chloride	5	mg/L		50	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-30	Chloride	5	mg/L		50	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	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Nitrate/Nitrite (as N)	0.2	mg/L		20	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	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Chloride	5	mg/L		50	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
MW-65	Sulfate	150	mg/L		200	1	OK
MW-65	Chloride	5	mg/L		50	1	OK
MW-65	Manganese	10	ug/L		20	10	OK

G-6A: Quarterly Sample Trip Blank Evaluation

Lab Report	Constituent	Result
AWAL 2007288	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	4.38
	Toluene	ND
	Xylenes, Total	ND
AWAL 2007367	2-Butanone	ND
	Acetone	ND
	Benzene	ND
	Carbon Tetrachloride	ND
	Chloroform	ND
	Chloromethane	ND
	Methylene Chloride	ND
	Naphthalene	ND
	Tetrahydrofuran	5.65
	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 2008385	8/11/2020	AWAL
AWAL 2009135	9/2/2020	AWAL

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

Constituent	MW-39 07/10/2020	MW-65 07/10/2020	%RPD
Ammonia (as N) (mg/L)	0.245	0.370	40.65
Beryllium	0.00418	0.00426	1.90
Bicarbonate as CaCO3 (mg/L)	ND	202	N/A
Cadmium (mg/L)	0.00273	0.00274	0.37
Calcium (mg/L)	491	503	2.41
Chloride (mg/L)	35.3	39.0	9.96
Cobalt	0.0706	0.0719	1.82
Copper	0.0283	0.0289	2.10
Fluoride (mg/L)	0.713	0.526	30.19
Iron (mg/L)	14.9	14.7	1.35
Magnesium (mg/L)	213	216	1.40
Manganese (mg/L)	2.44	2.41	1.24
Nickel	0.0347	0.0354	2.00
Potassium (mg/L)	16.2	16.2	0.00
Sodium (mg/L)	631	623	1.28
Sulfate (mg/L)	2910	2830	2.79
TDS (mg/L)	4380	4100	6.60
Thallium (mg/L)	0.00383	0.00381	0.52
Uranium (mg/L)	0.0118	0.0123	4.15
Zinc	0.244	0.252	3.23
Radiologic Duplicate Tests			
Gross Alpha minus Rn & U*	3.15	3.47	0.40
Gross Alpha minus Rn & U Precision (±)	0.571	0.570	
* 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.			
N/A - The duplicate test was not performed because both results were not greater than the RL.			

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

Constituent	MW-30 8/11/20	MW-65 8/11/20	%RPD*
Nitrate + Nitrite (as N) (mg/L)	21.1	20.1	4.85
Selenium (mg/L)	0.0560	0.0536	4.38
Uranium (mg/L)	0.0106	0.01040	1.90
Chloride (mg/L)	183	185	1.09
Constituent	MW-11 9/2/20	MW-65 9/2/20	%RPD
Manganese (mg/L)	0.230	0.226	1.75
Sulfate (mg/L)	1170	1170	0.00
Chloride (mg/L)	40.6	40.4	0.49

G-8B: Radiologics Counting Error for Accelerated Samples

There are no accelerated samples collected for Gross Alpha.

G-8A: Quarterly Sample Radiologics Counting Error

Well	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-11	1.00 U	0.237	NC	3.75	NC
MW-14	1.00 U	0.244	NC	7.5	NC
MW-24	3.72	0.589	Y	7.5	N/A
MW-24A	2.76	0.476	Y	-	-
MW-25	1.00 U	0.292	NC	7.5	NC
MW-26	2.68	0.483	Y	4.69	N/A
MW-28	1.60	0.411	N	2.42	Y
MW-30	1.28	0.373	N	3.75	Y
MW-31	1.00 U	0.321	NC	7.5	NC
MW-36	1.00 U	0.269	NC	7.5	NC
MW-38	1.00 U	0.234	NC	-	-
MW-39	3.15	0.571	Y	-	-
MW-40	1.12	0.377	N	-	-
MW-65	3.47	0.570	Y	-	-

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-9A: Quarterly Sample Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
2007288	MW-36	Sodium*	NC	NC	70-130	NC	20
2007288	MW-36	Calcium*	NC	NC	70-130	NC	20
2007288	MW-36	Magnesium*	NC	NC	70-130	NC	20
2007367	MW-24	Calcium*	NC	NC	70-130	NC	20
2007367	MW-24	Sodium*	NC	NC	70-130	NC	20

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

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

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

G-9B: Accelerated Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
2008385 - August Monthly	MW-26	Nitrate	114	125	90-110	8.69	10
2008385 - August Monthly	MW-26	Chloroform	82.2	73.2	74-117	5.15	35
2009135 - September Monthly	MW-25	Manganese*	NC	NC	75-125	NC	20
2009135 - September Monthly	MW-26	Methylene Chloride	159	102	65-154	43.8	35
2009135 - September Monthly	MW-26	Chloroform	85.2	73	74-117	1.98	35

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

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicates were within acceptance limits for the quarter.

Method Blank Detections

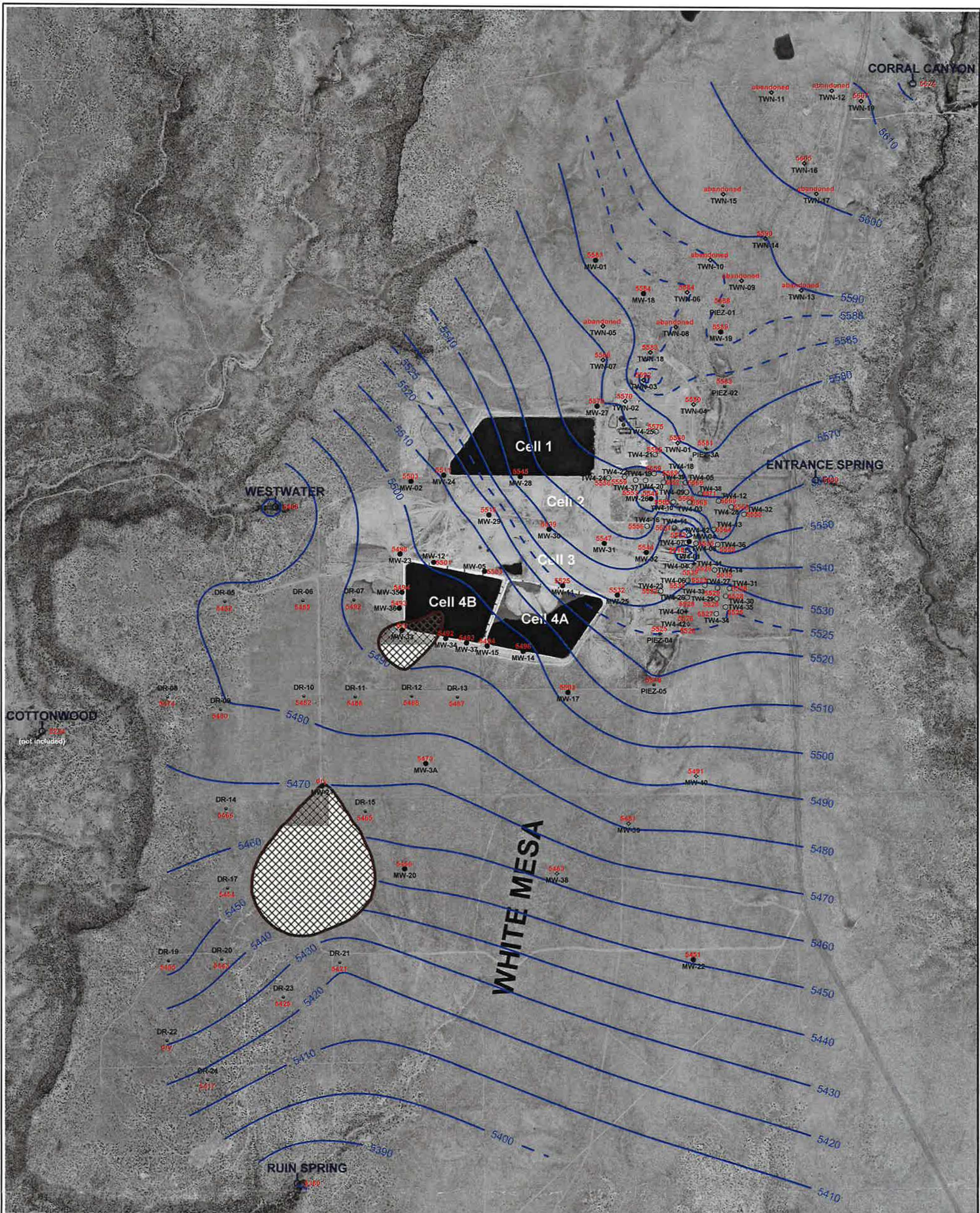
All Method Blanks for the quarter were non-detect.










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**
 5526 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**
 5503 perched monitoring well showing elevation in feet amsl
 - TW4-12**
 5569 temporary perched monitoring well showing elevation in feet amsl
 - TWN-7**
 5568 temporary perched nitrate monitoring well showing elevation in feet amsl
 - PIEZ-1**
 5588 perched piezometer showing elevation in feet amsl
 - RUIN SPRING**
 5380 seep or spring showing elevation in feet amsl

1 mile

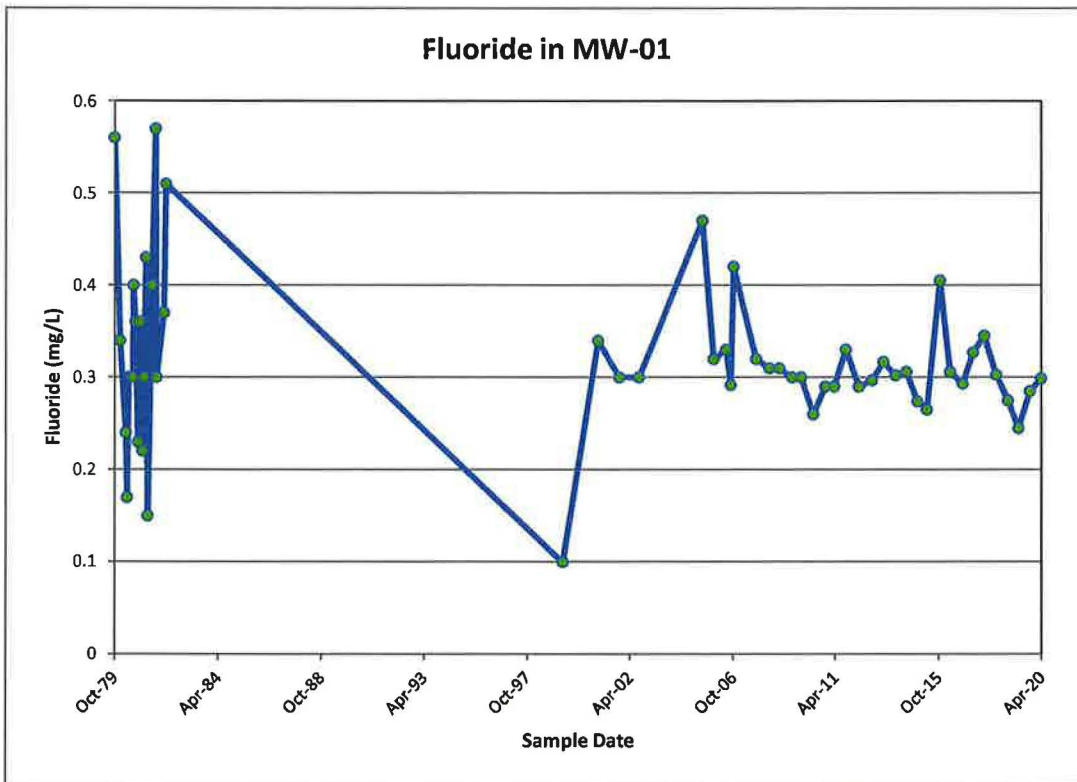
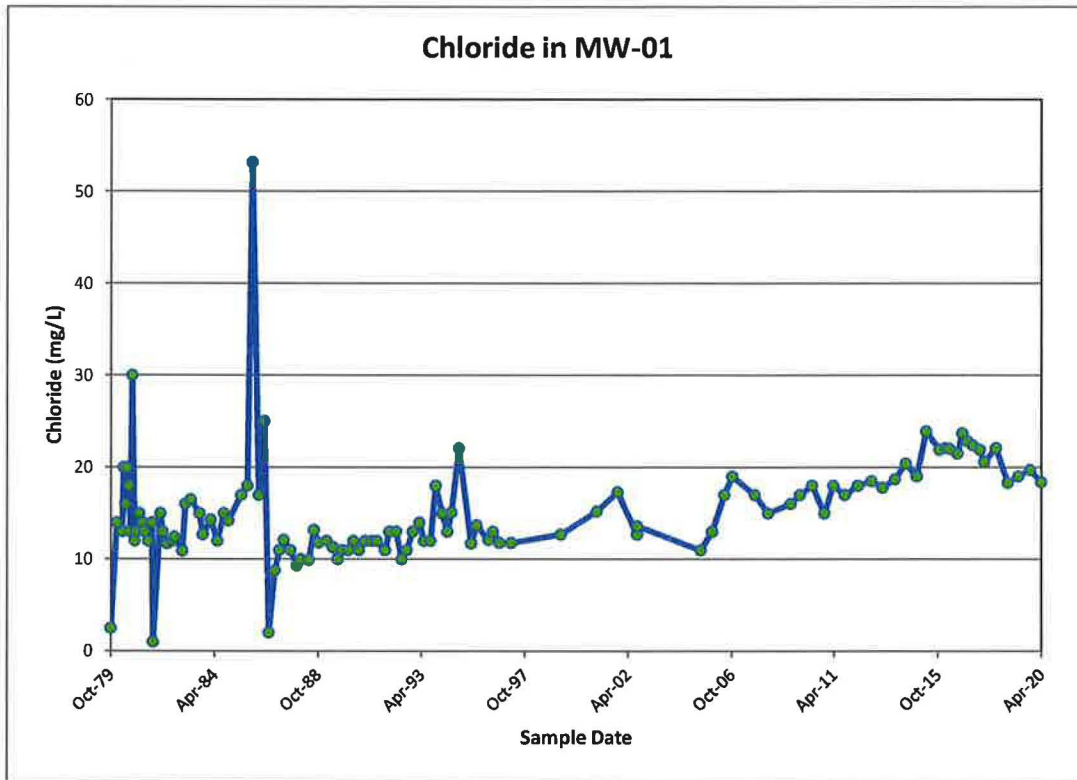
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

 <p>HYDRO GEO CHEM, INC.</p>	KRIGED 3rd QUARTER, 2020 WATER LEVELS WHITE MESA SITE			FIGURE H-1
	APPROVED	DATE	REFERENCE H:718000/nov20/WL/Uw10920.srf	

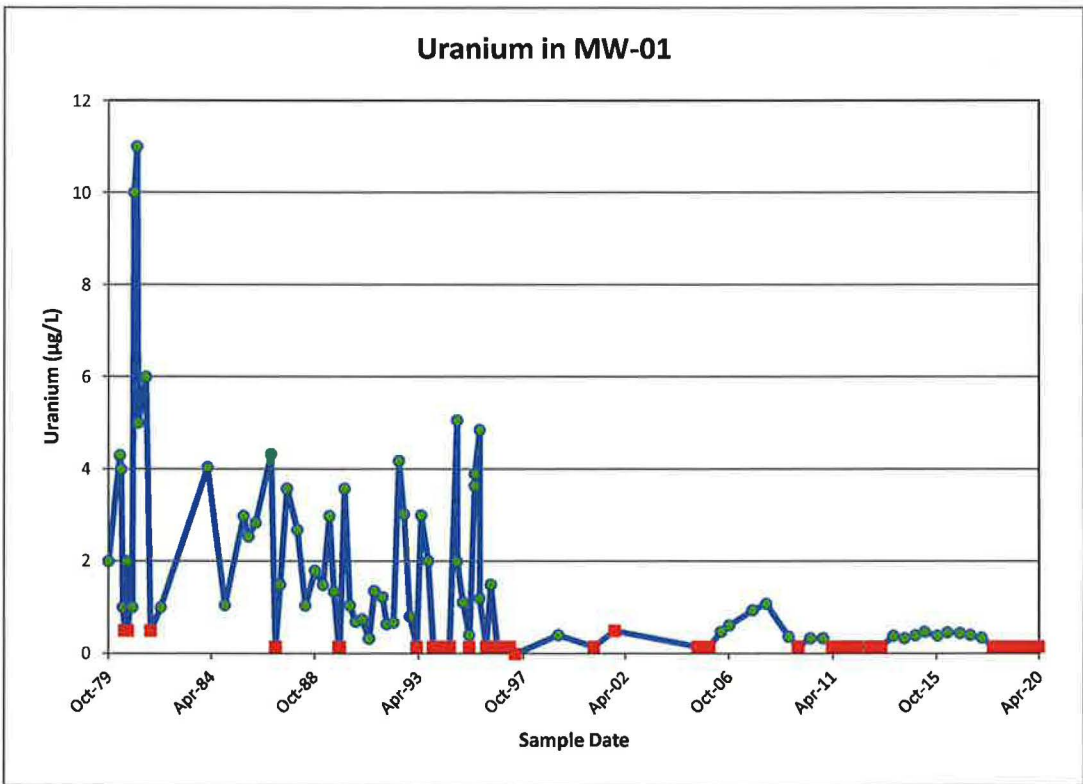
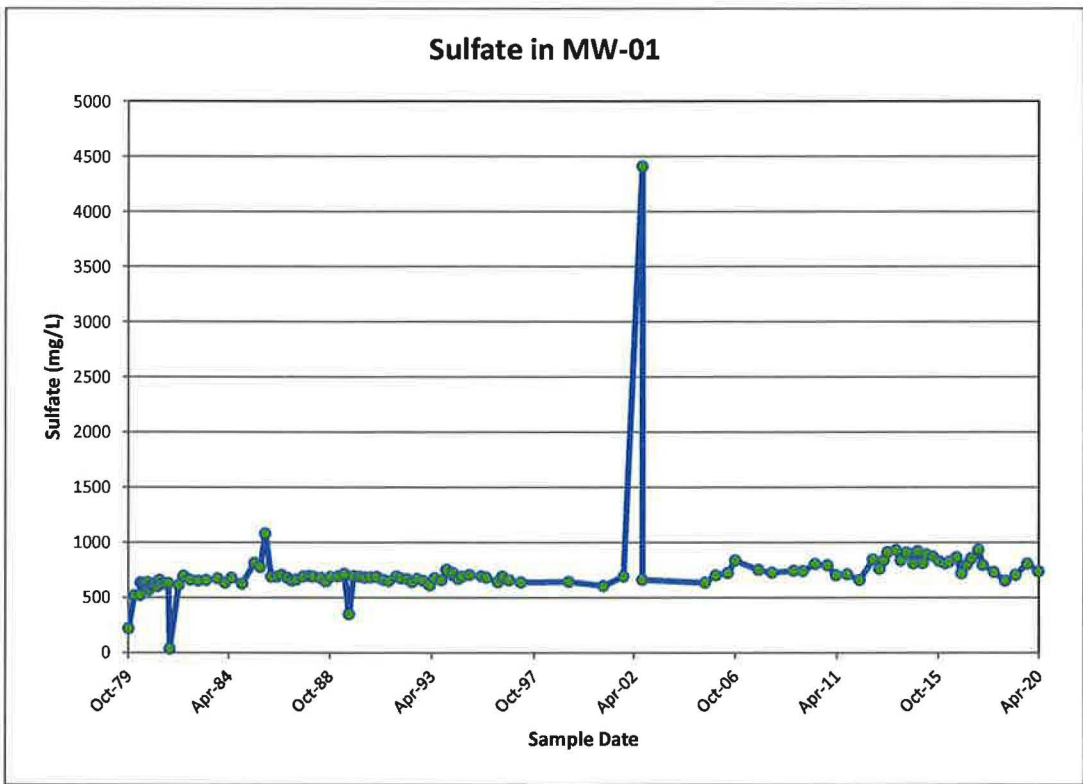
Tab I

Groundwater Time Concentration Plots

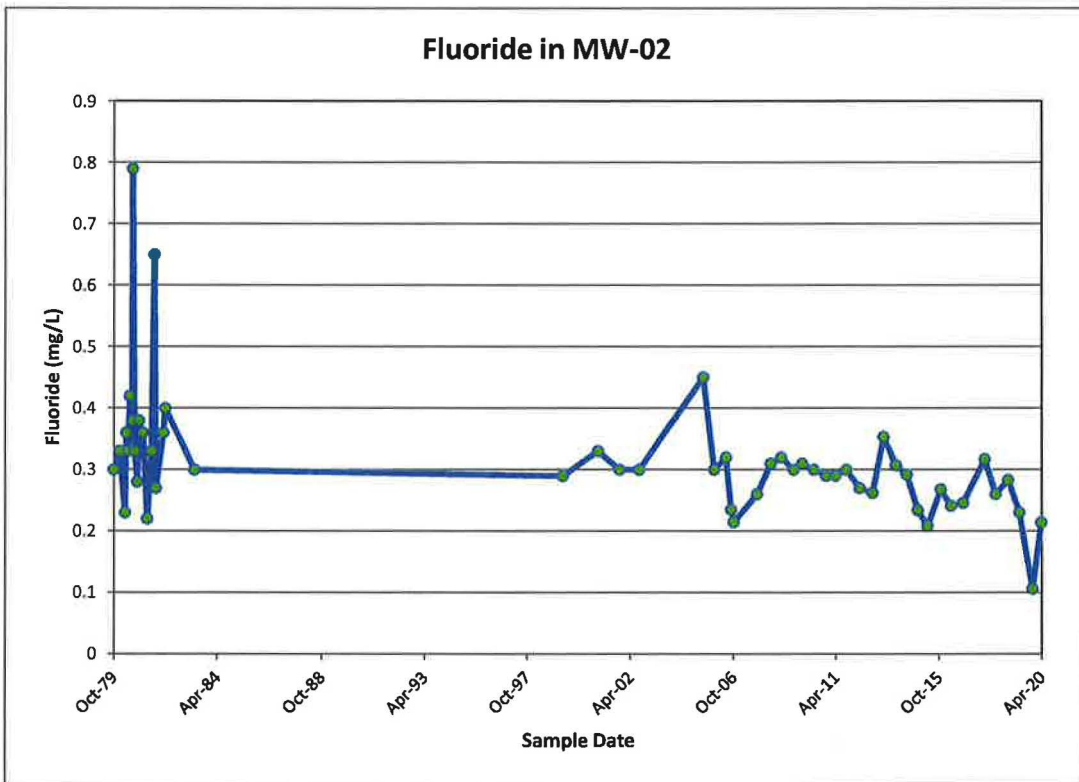
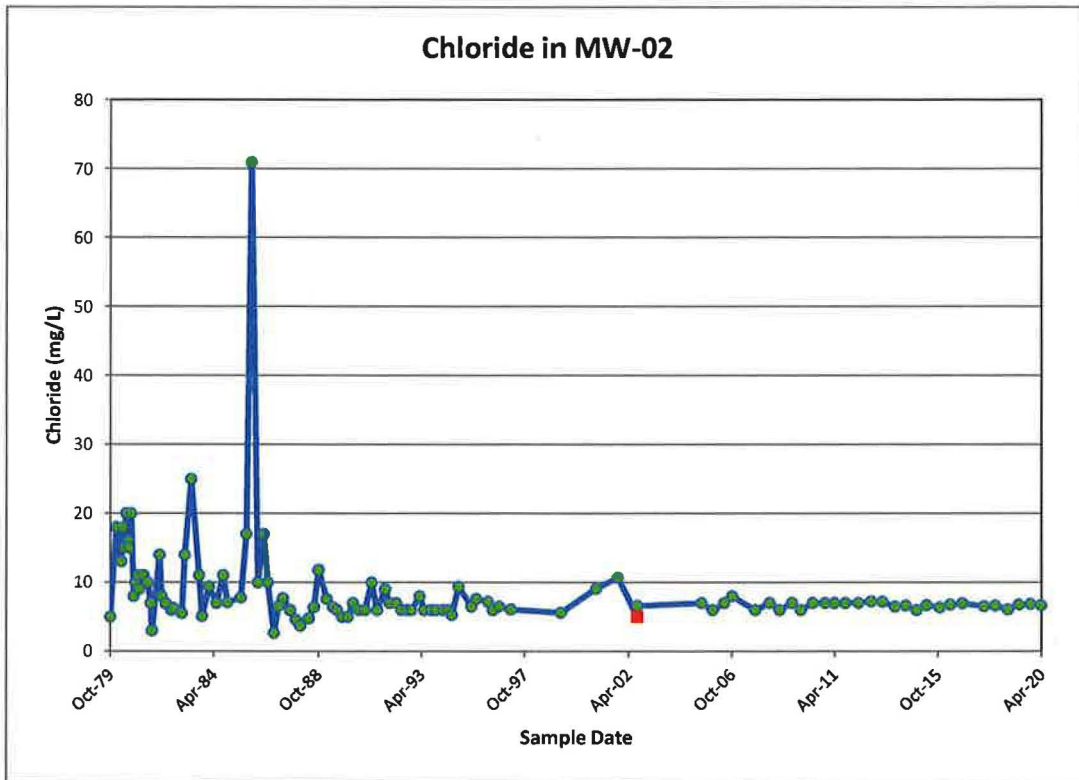
Time concentration plots for MW-01



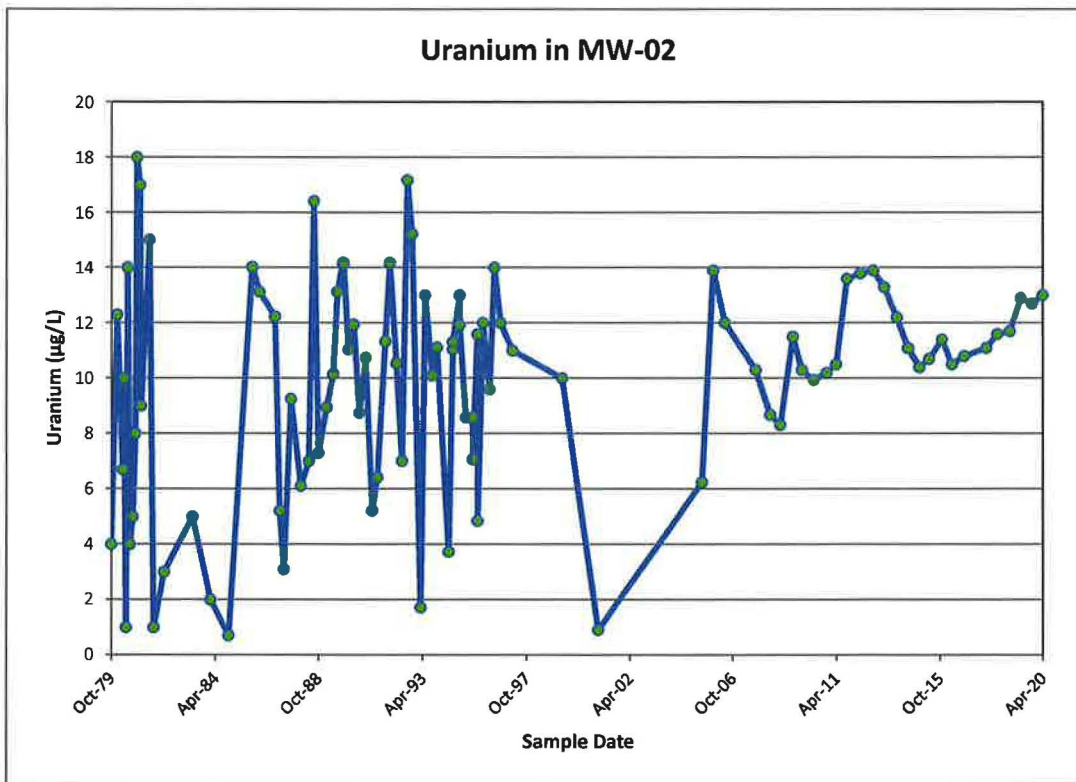
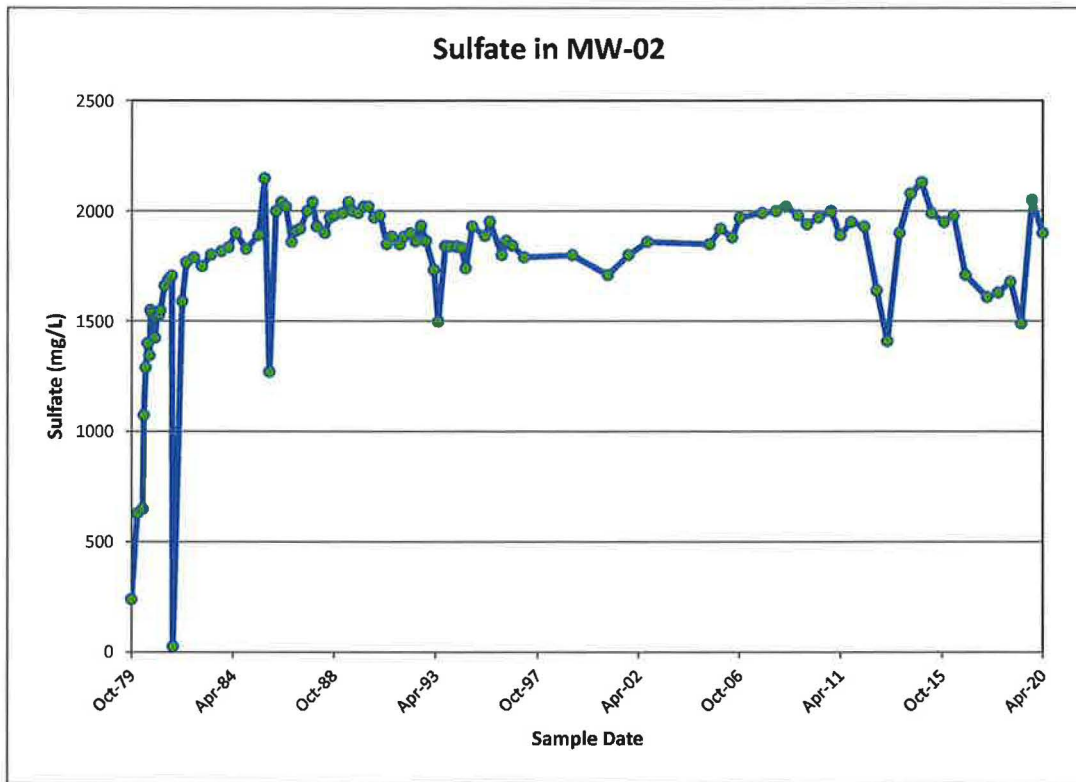
Time concentration plots for MW-01



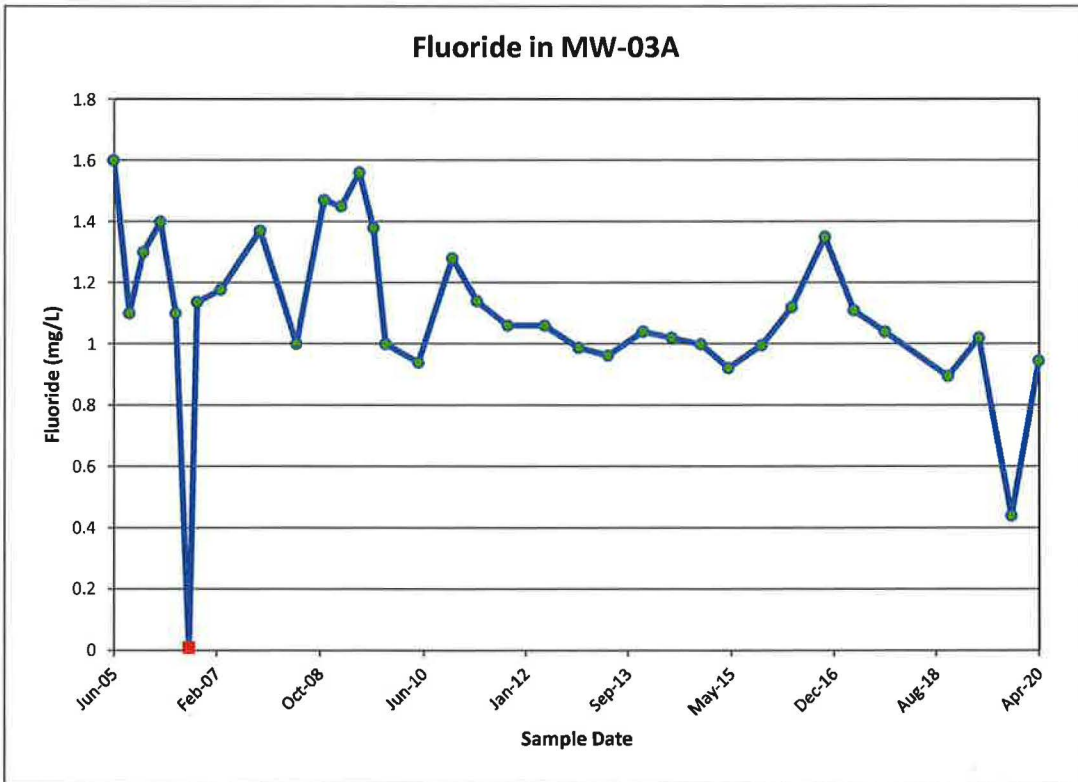
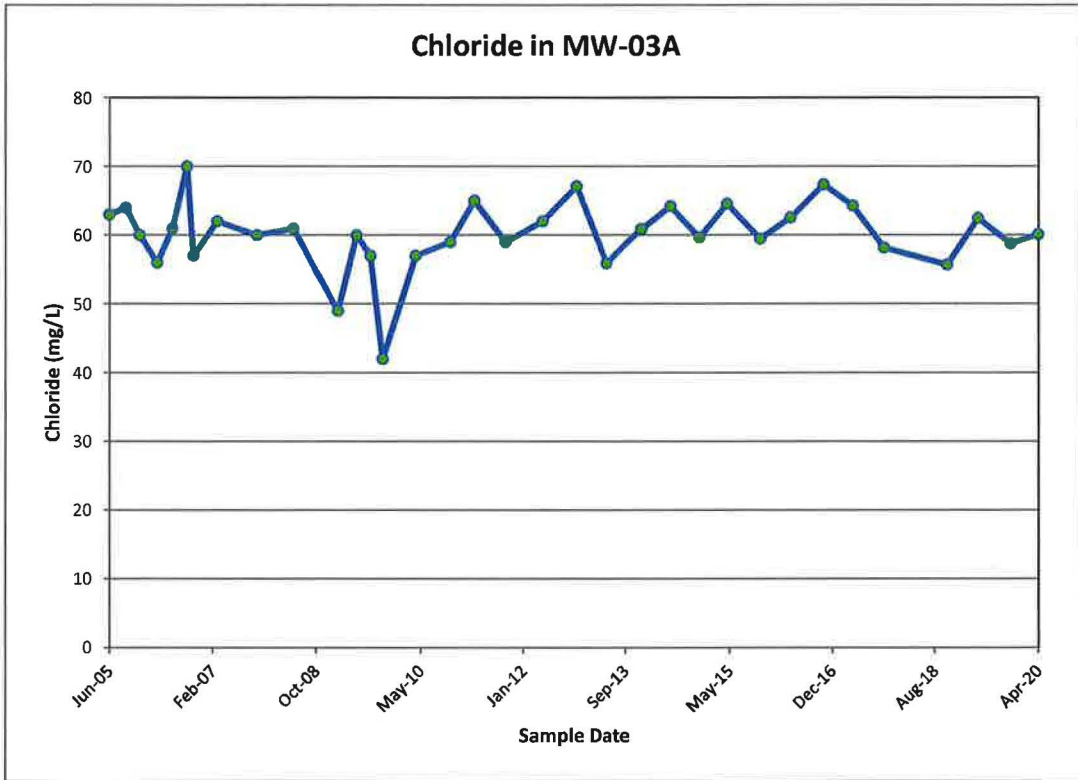
Time concentration plots for MW-02



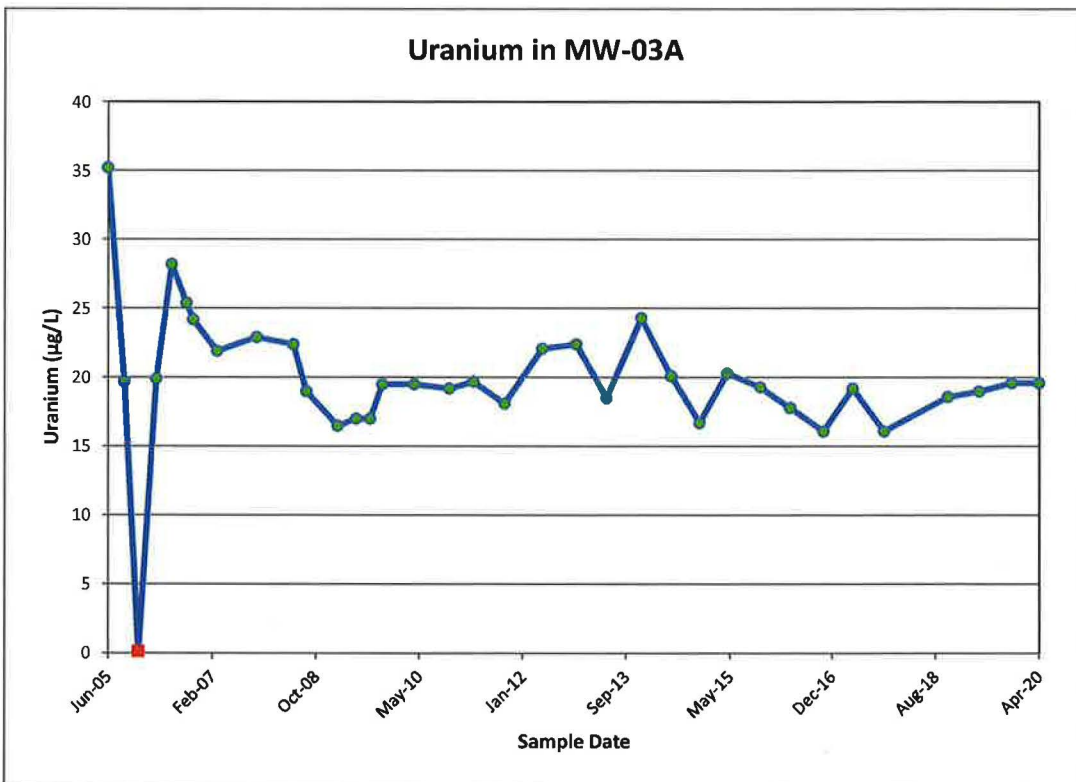
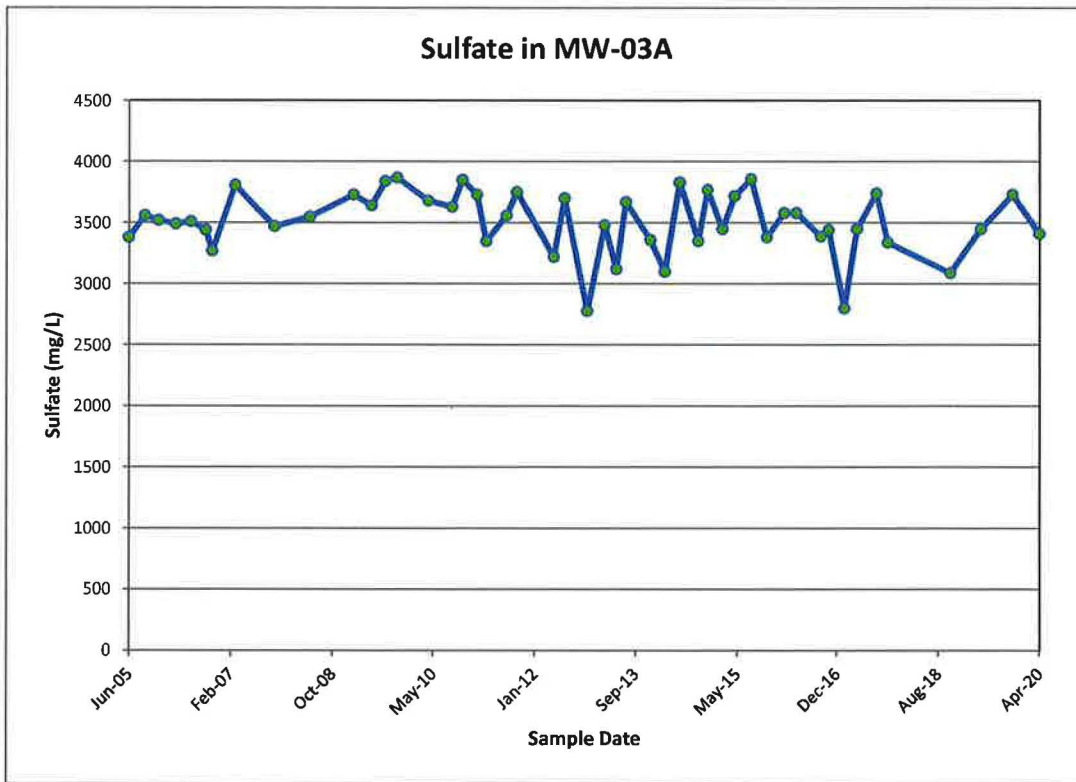
Time concentration plots for MW-02



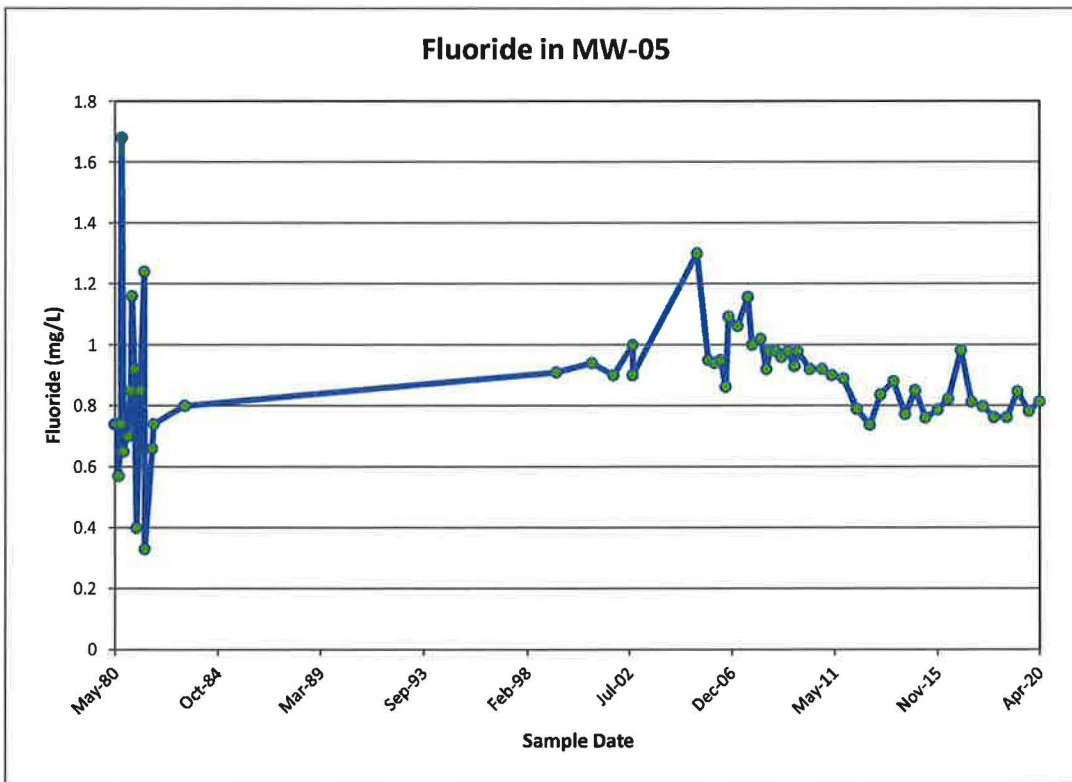
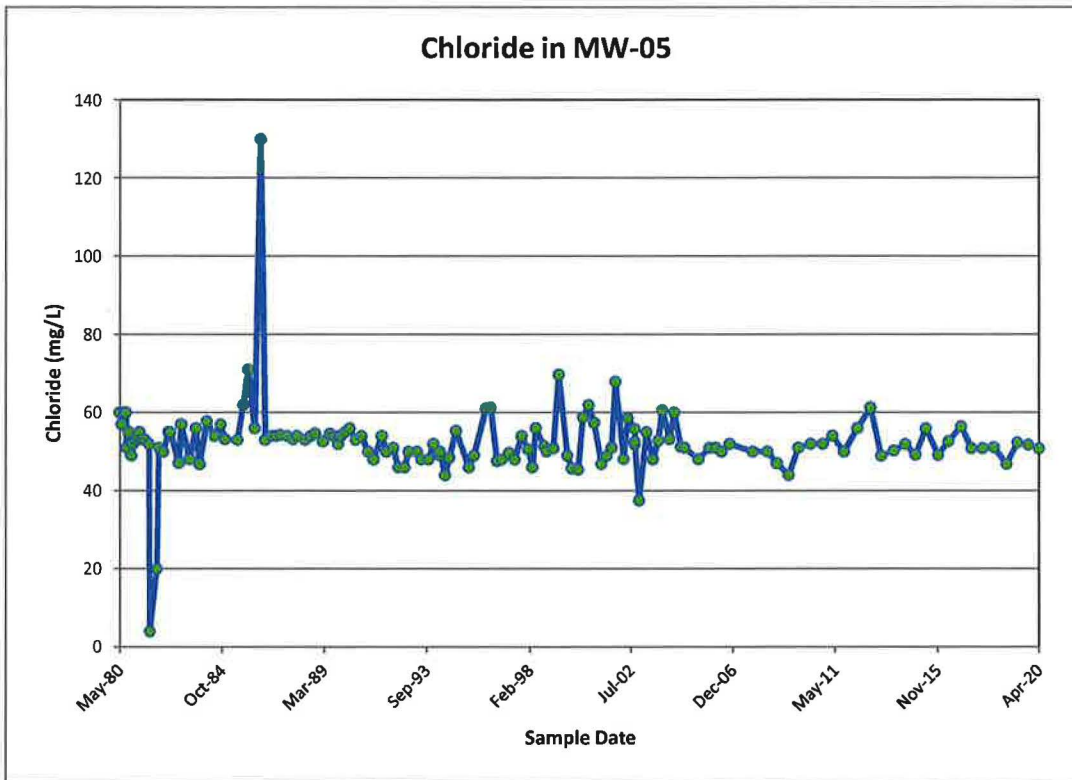
Time concentration plots for MW-03A



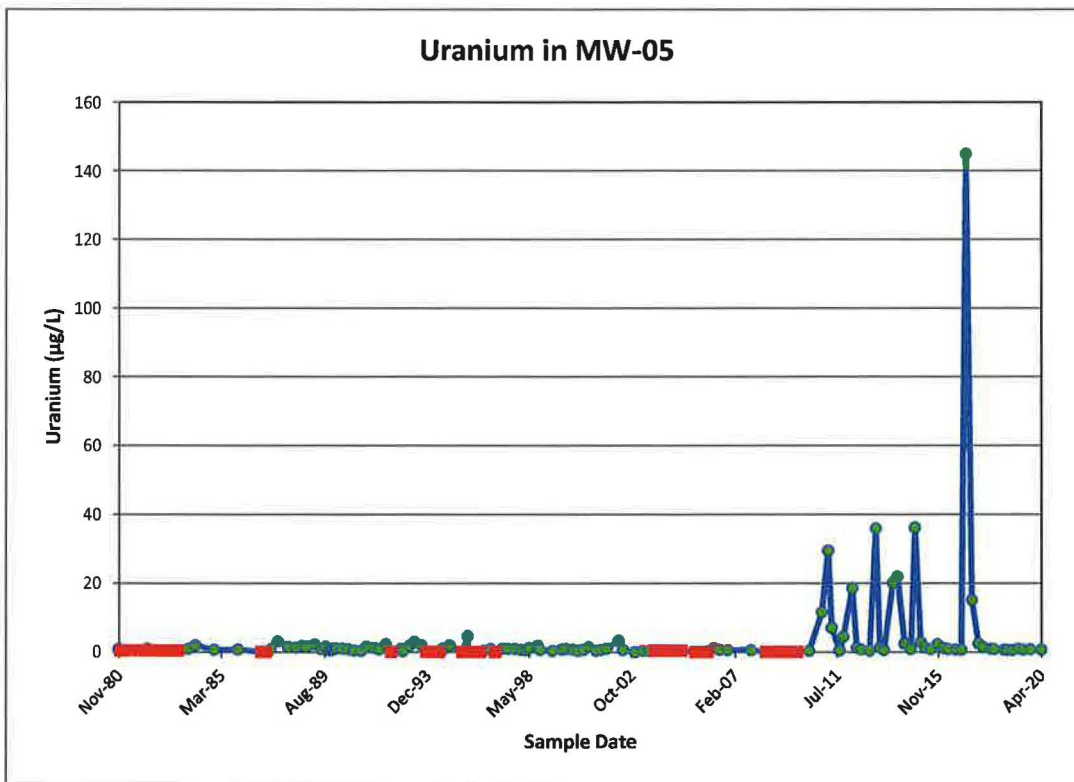
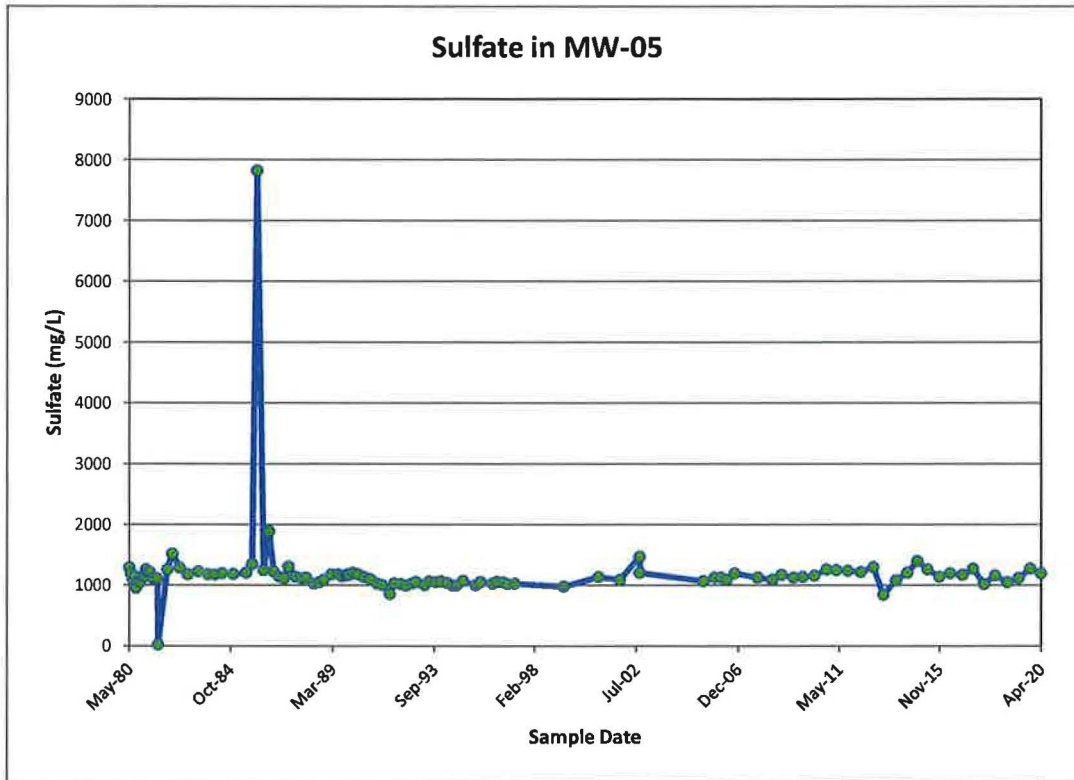
Time concentration plots for MW-03A



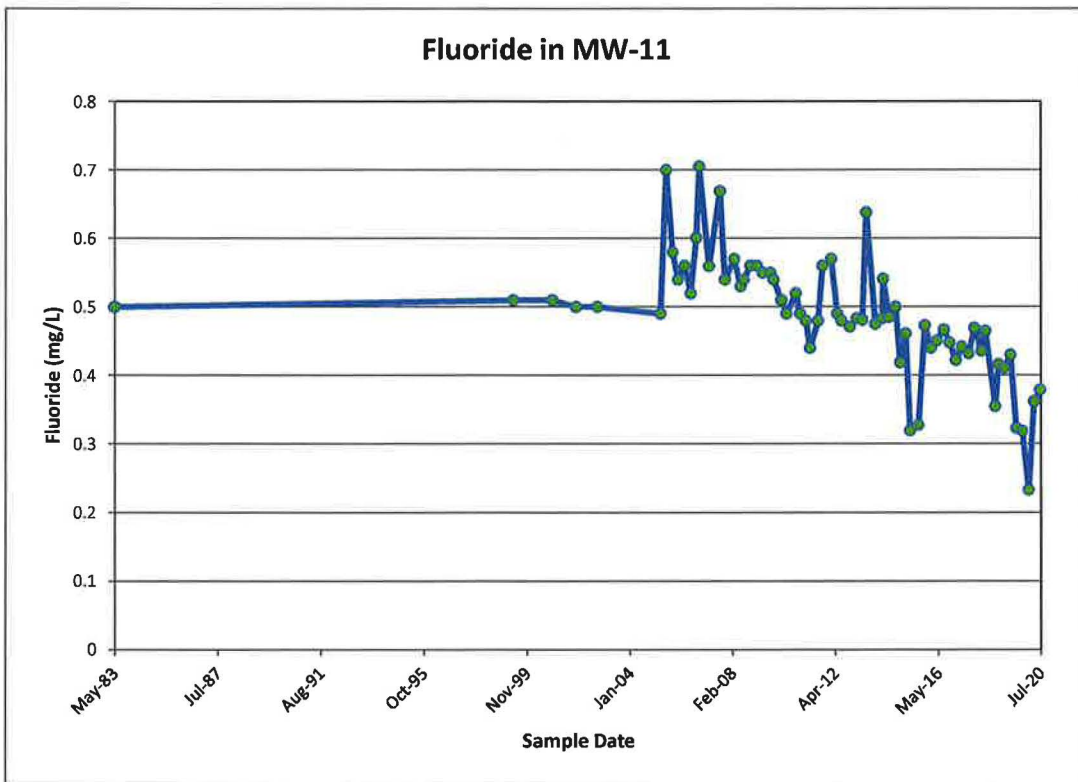
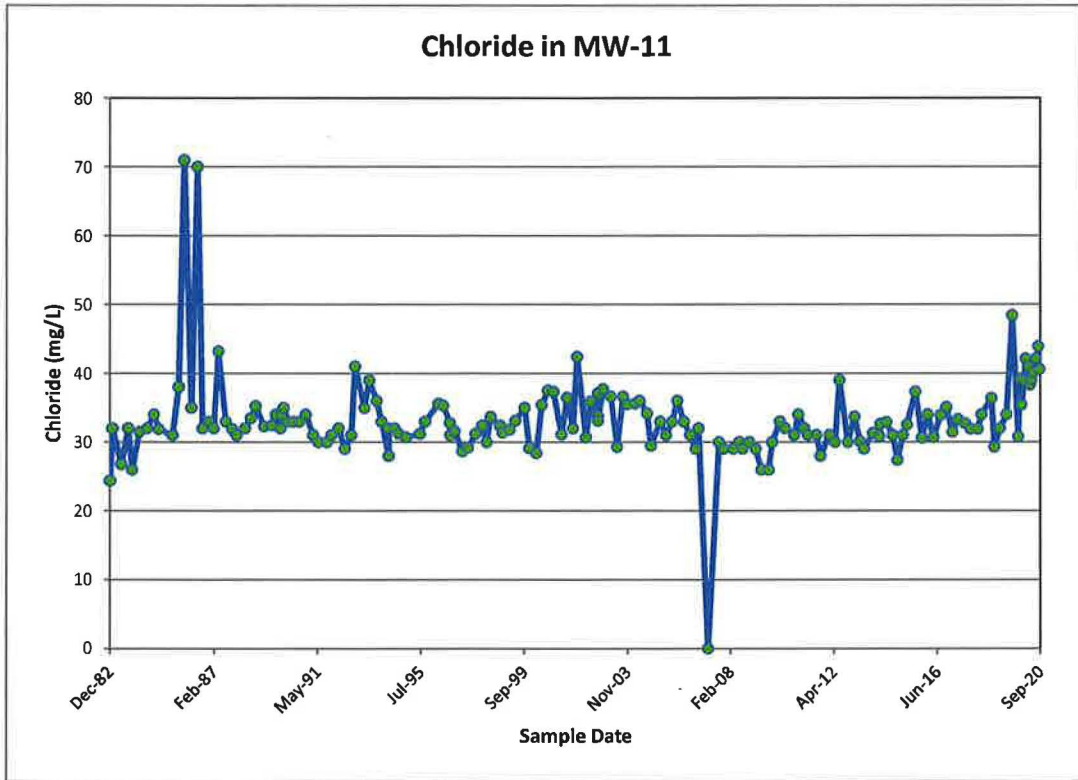
Time concentration plots for MW-05



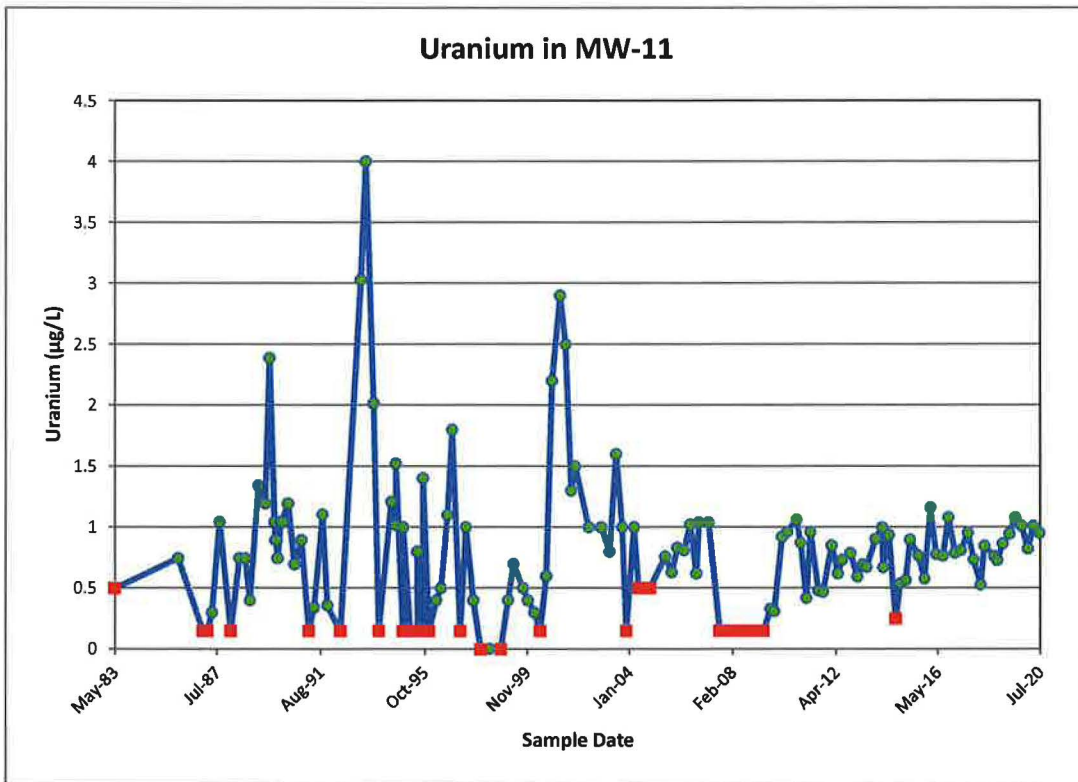
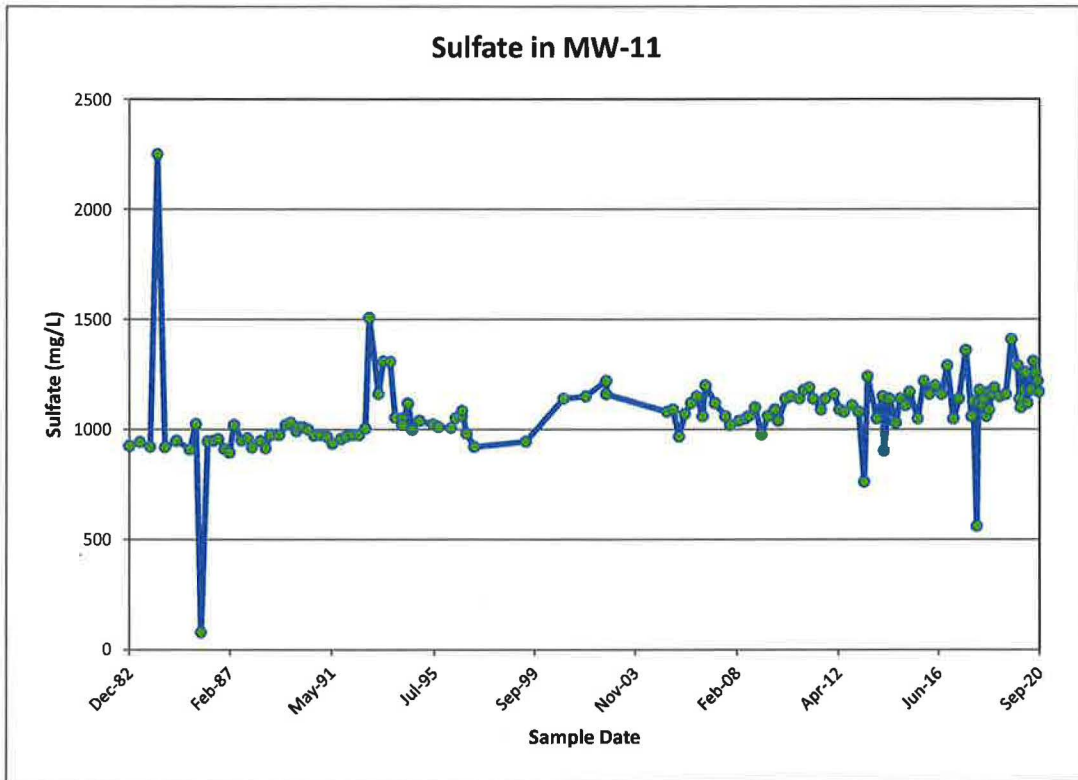
Time concentration plots for MW-05



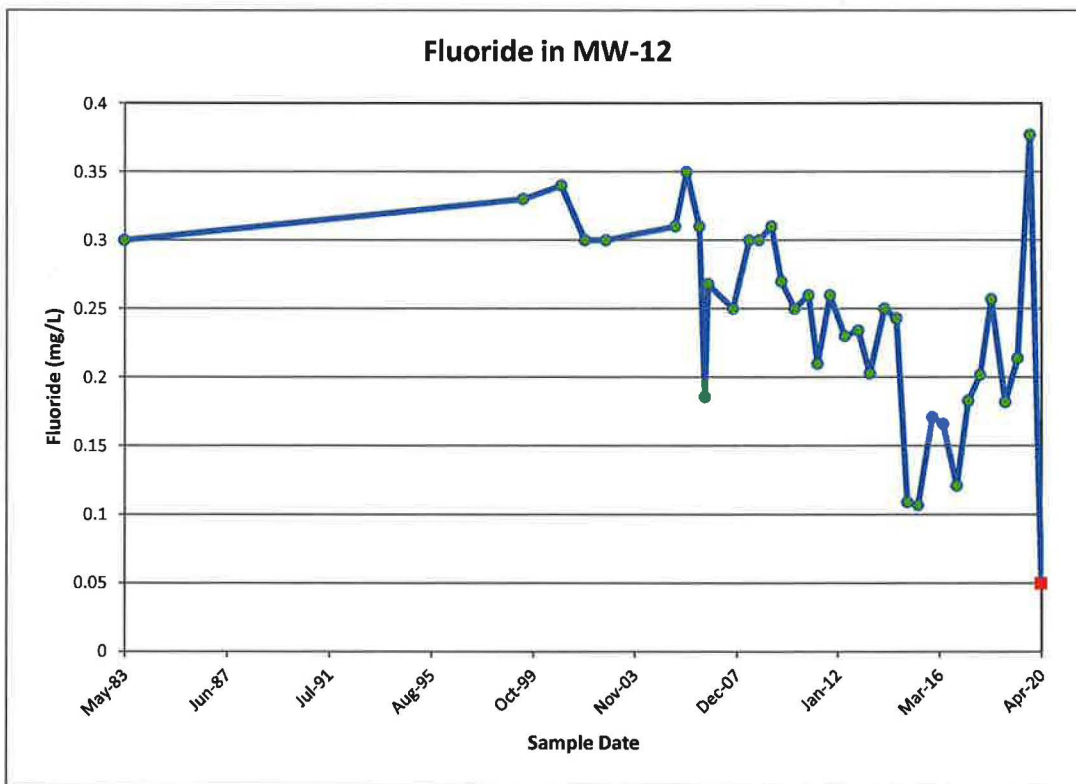
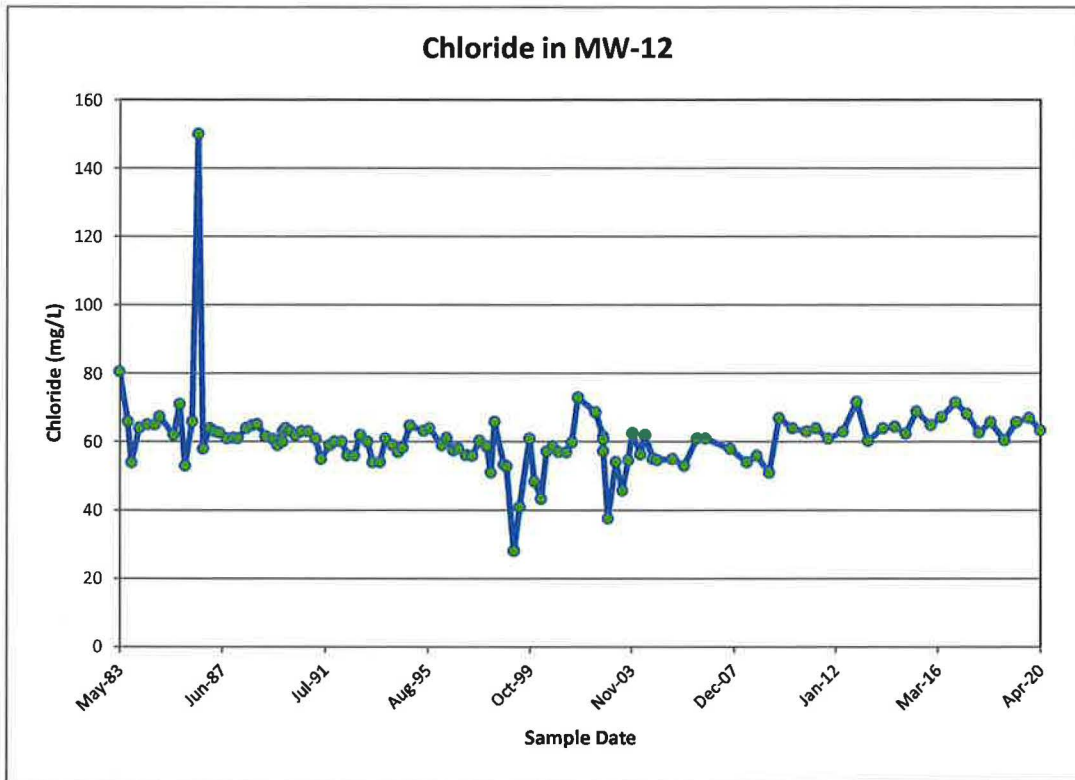
Time concentration plots for MW-11



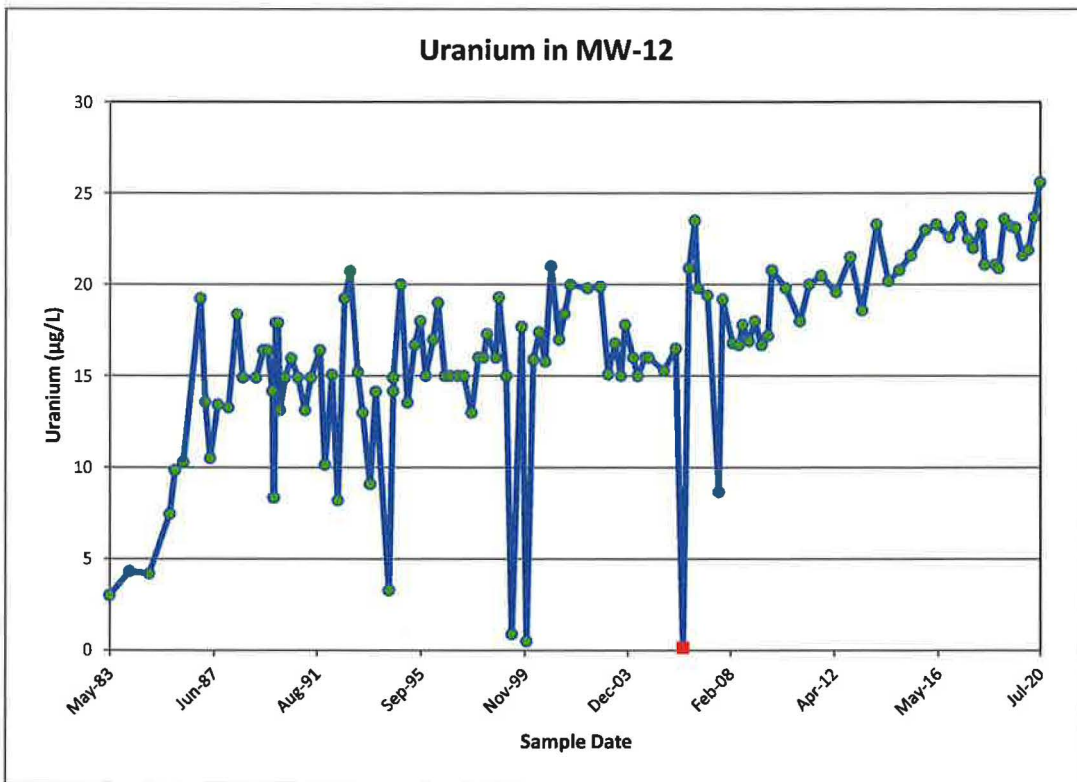
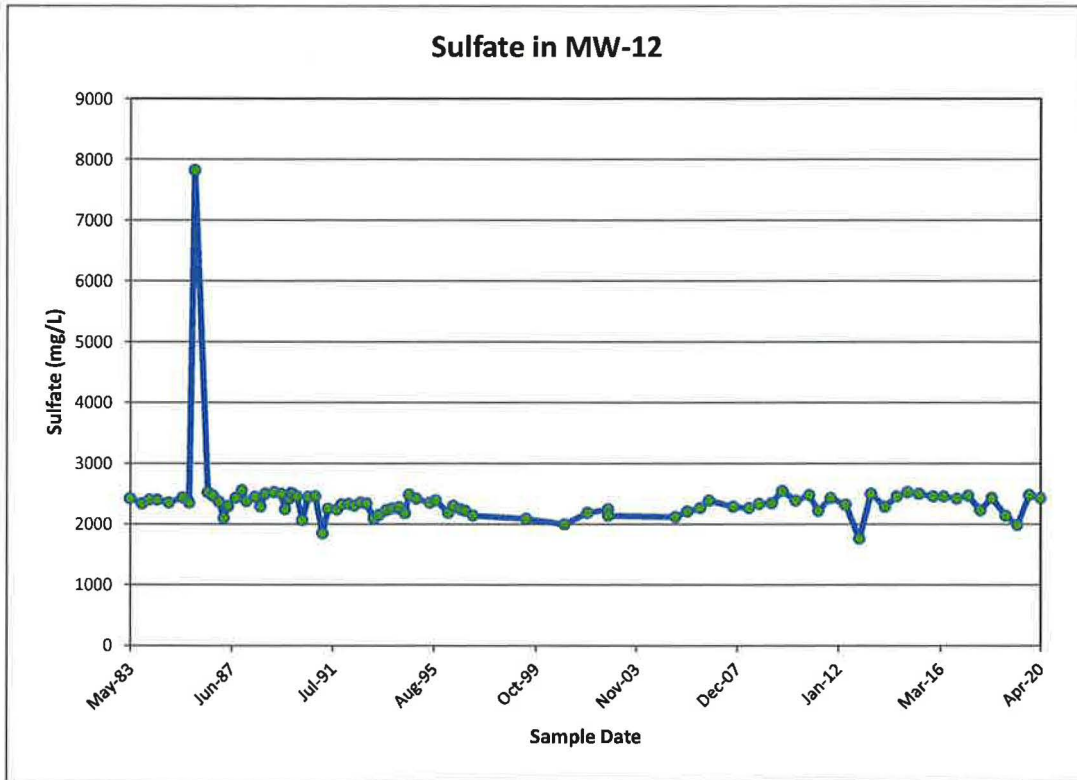
Time concentration plots for MW-11



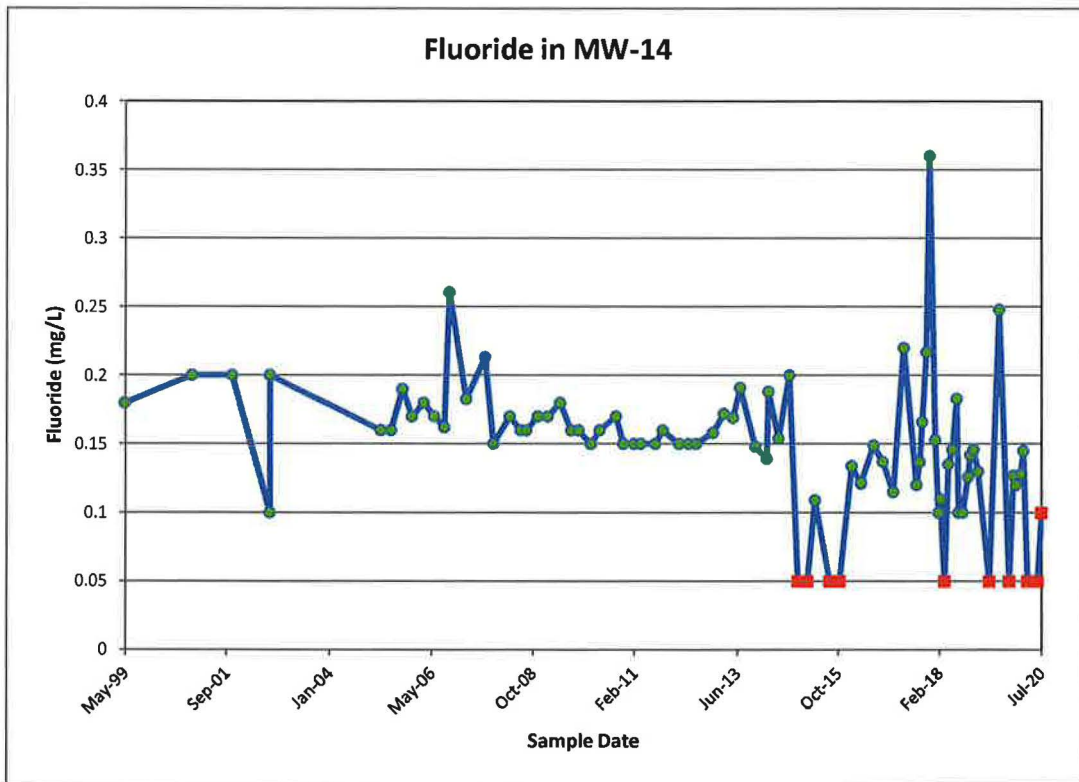
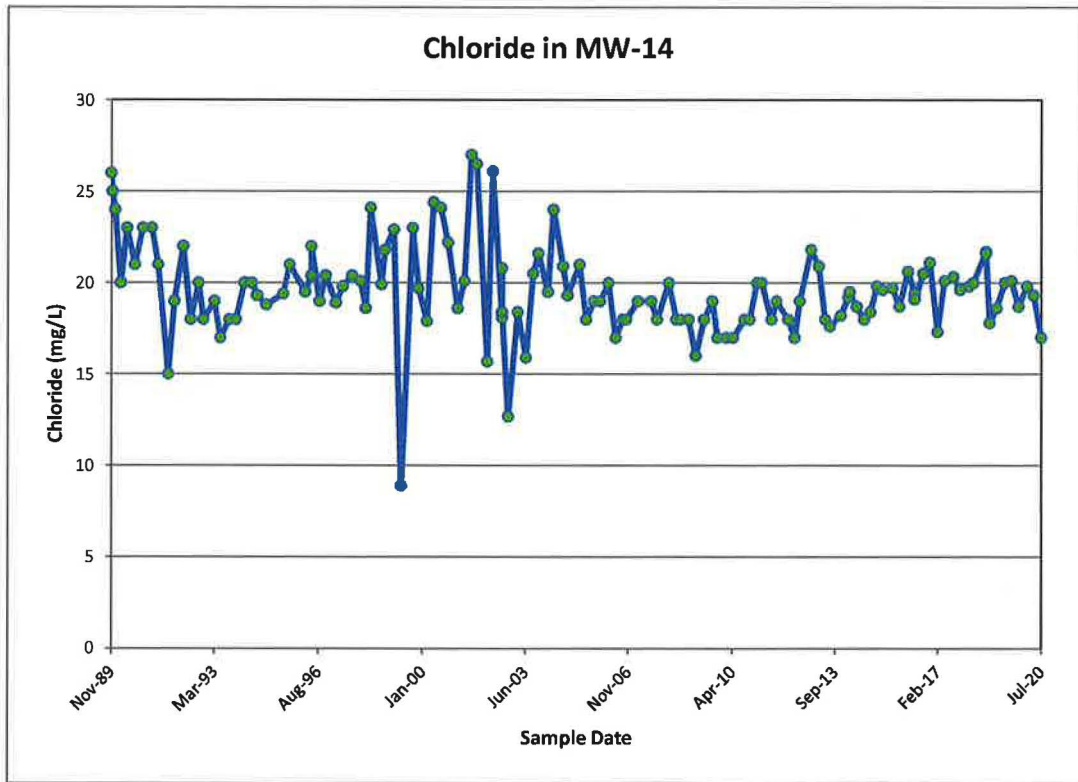
Time concentration plots for MW-12



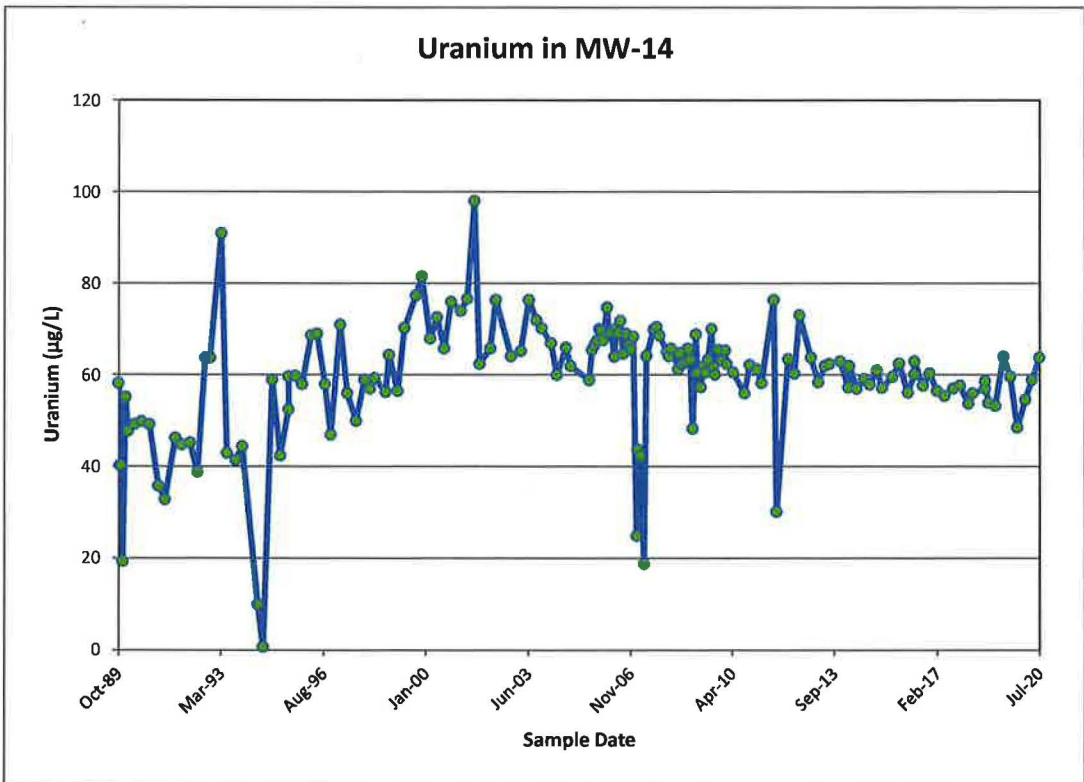
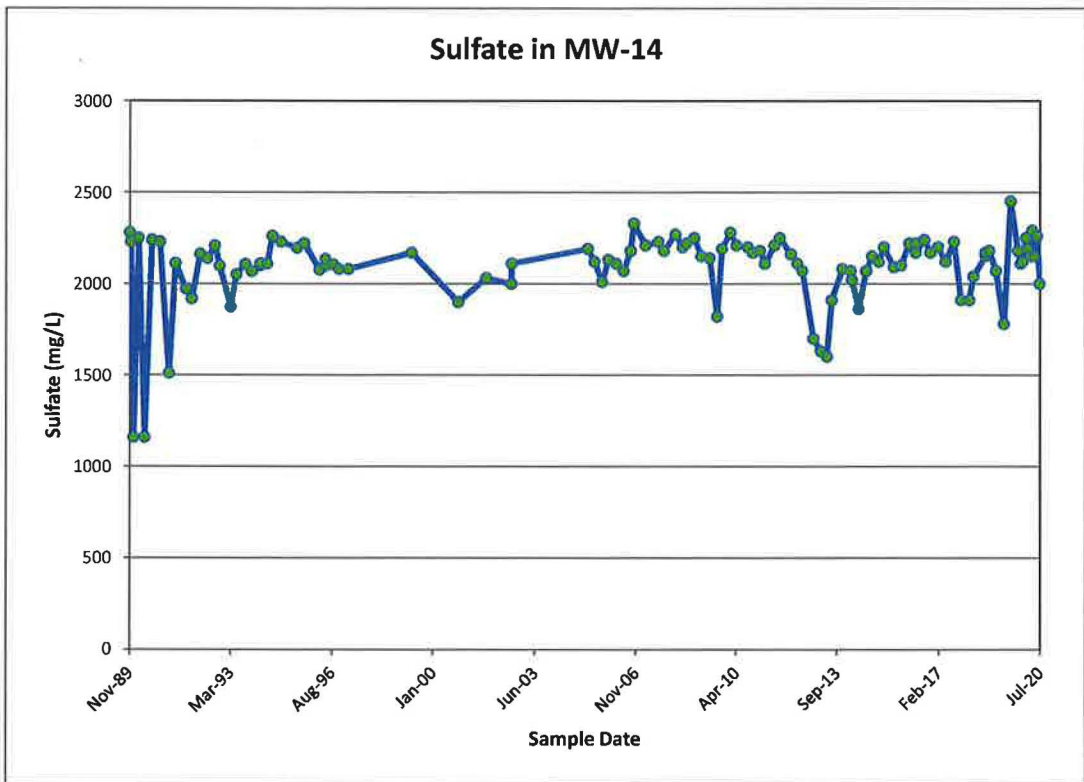
Time concentration plots for MW-12



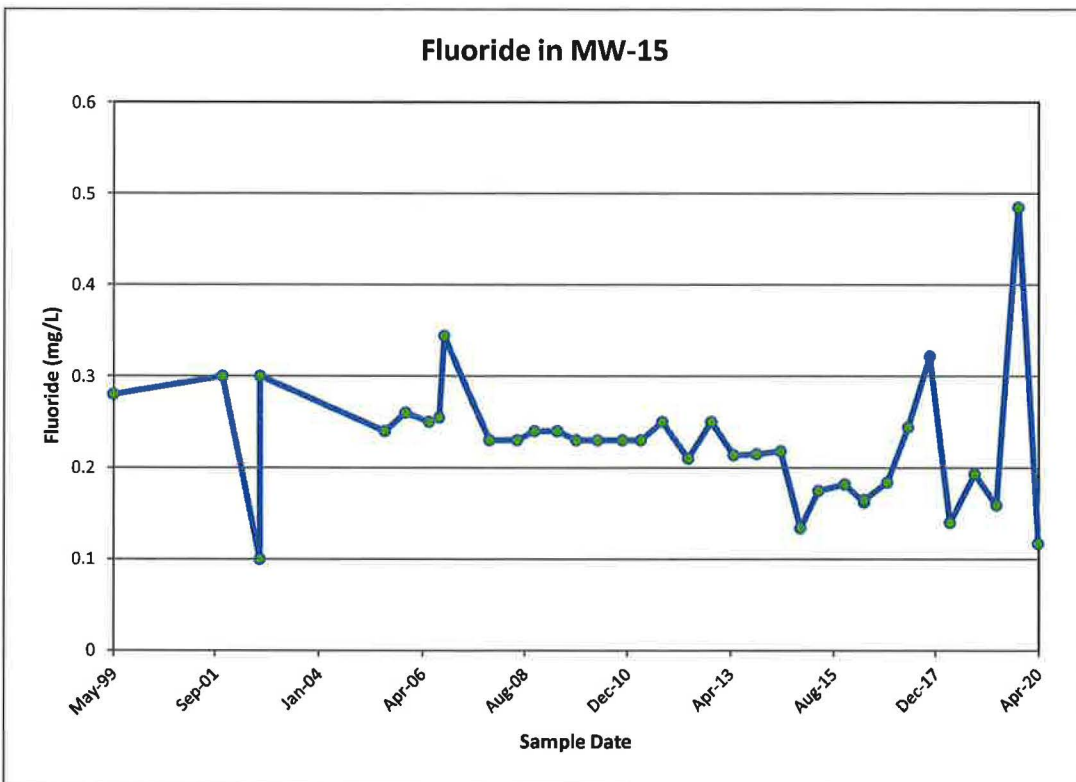
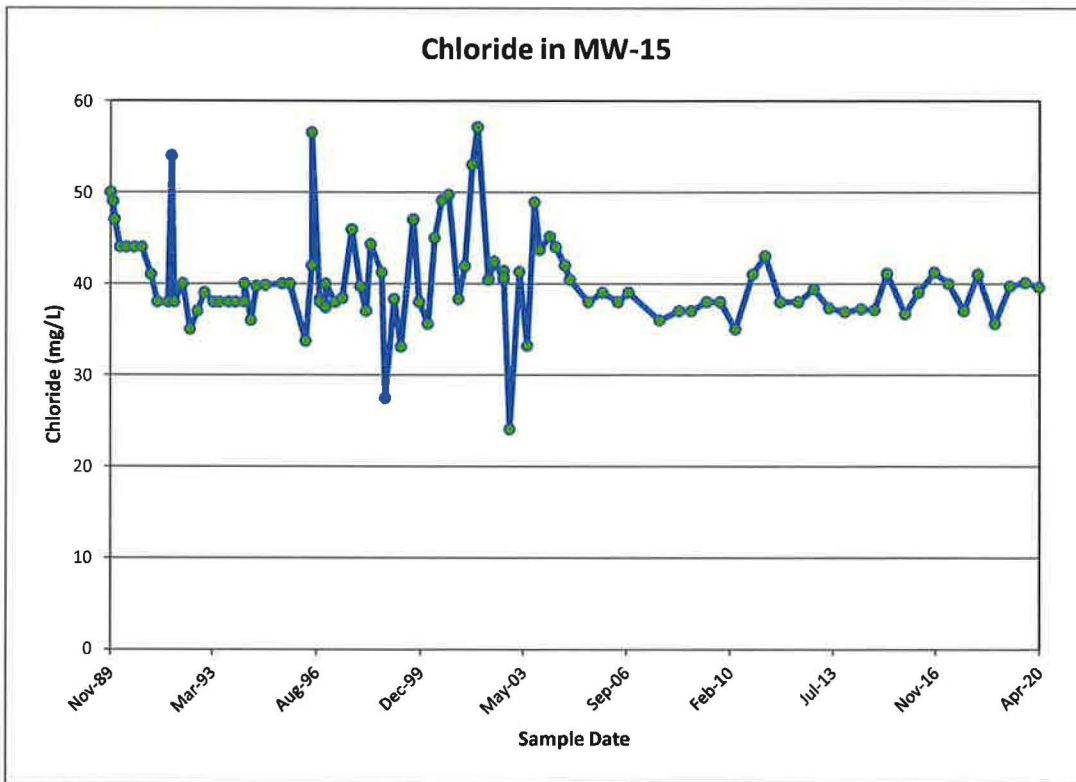
Time concentration plots for MW-14



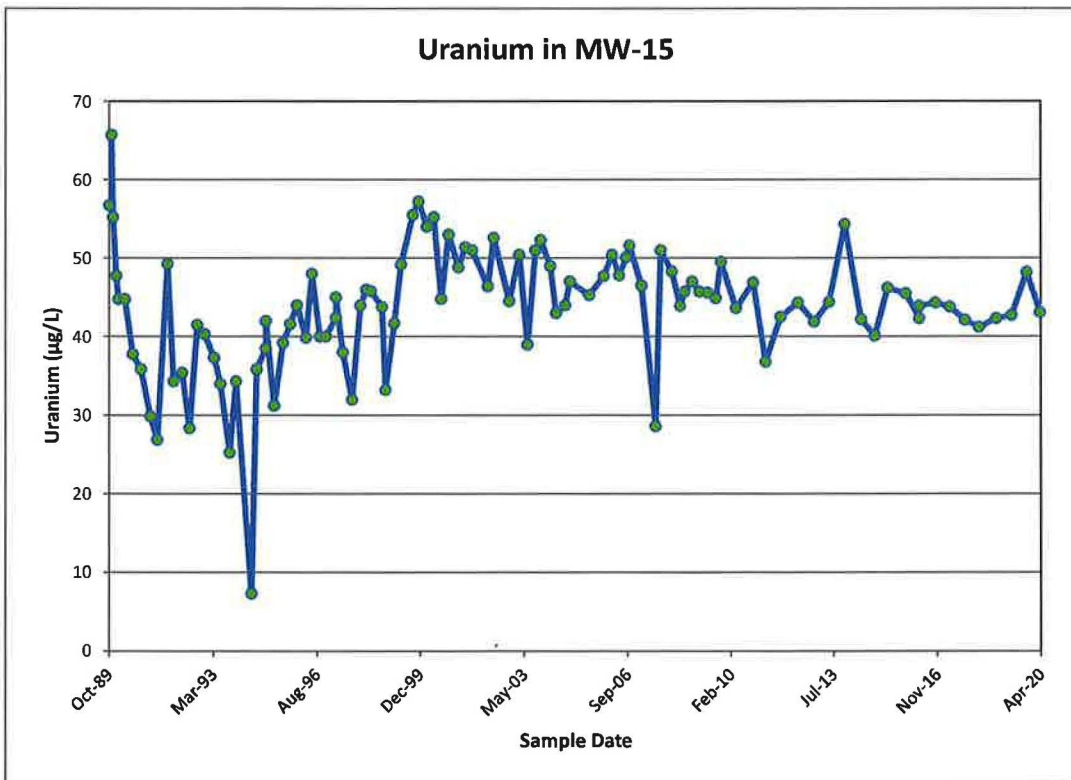
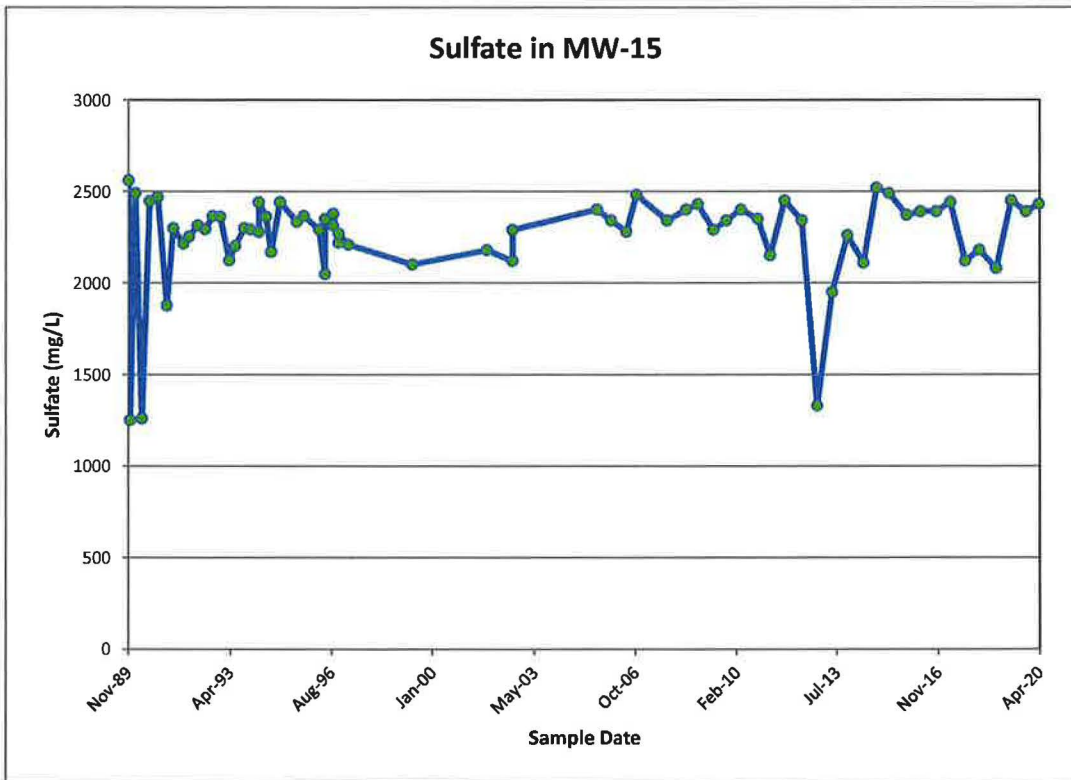
Time concentration plots for MW-14



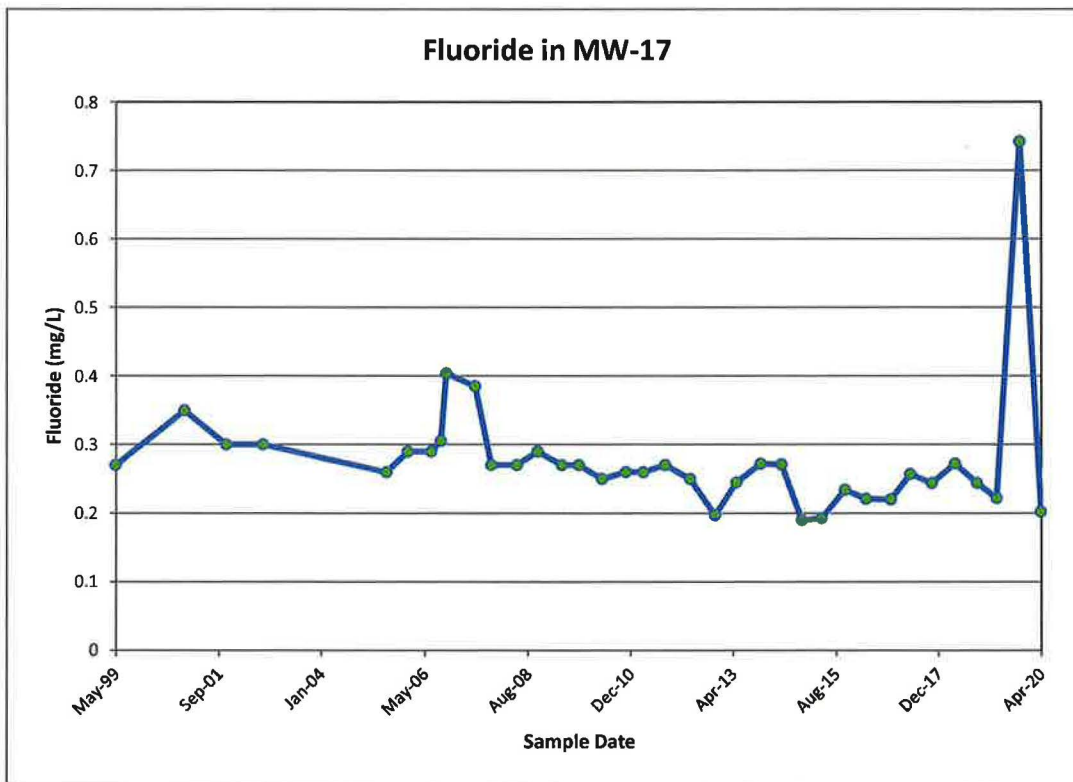
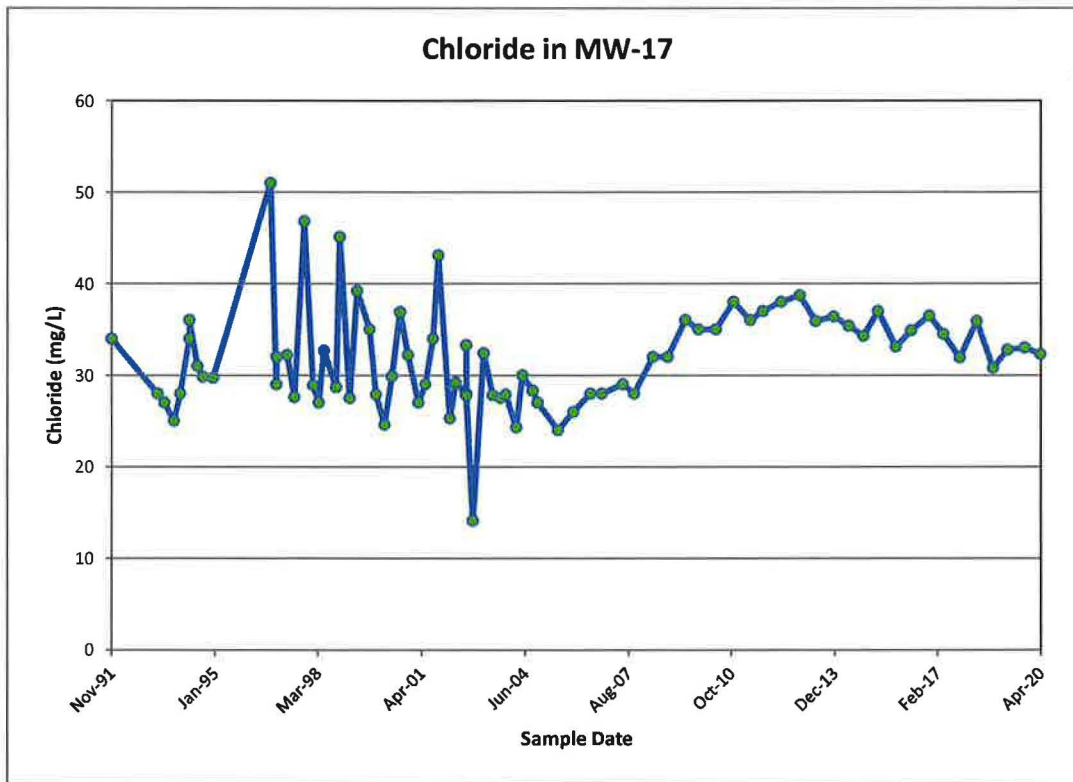
Time concentration plots for MW-15



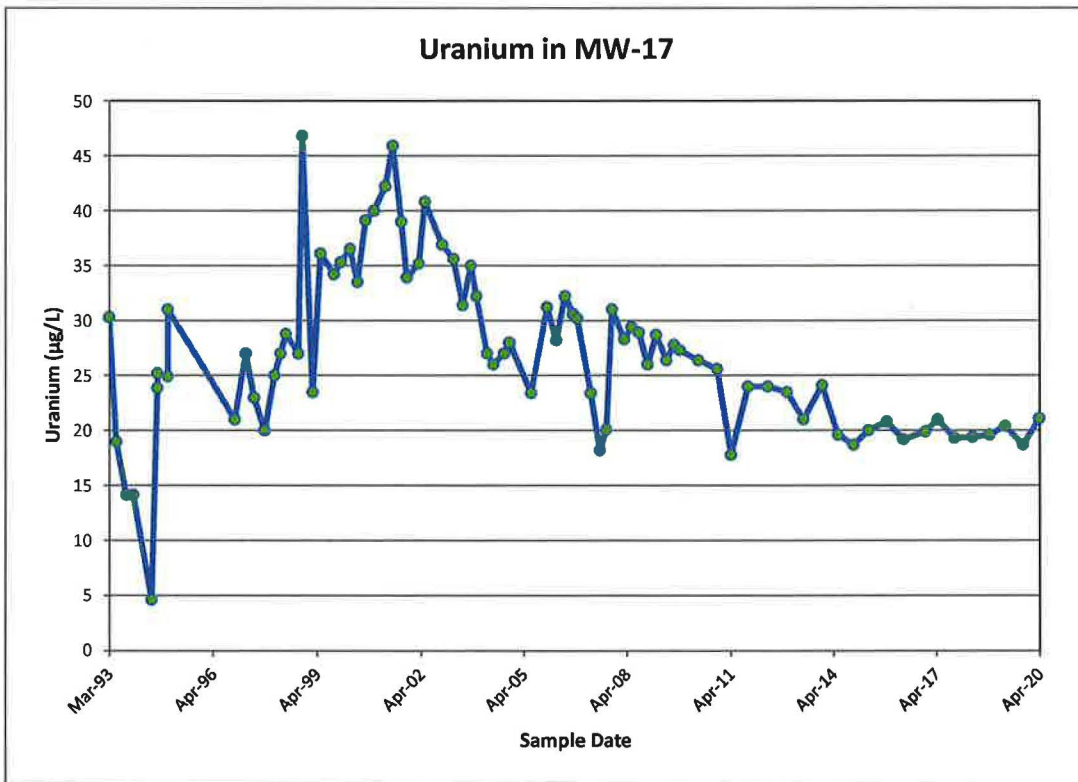
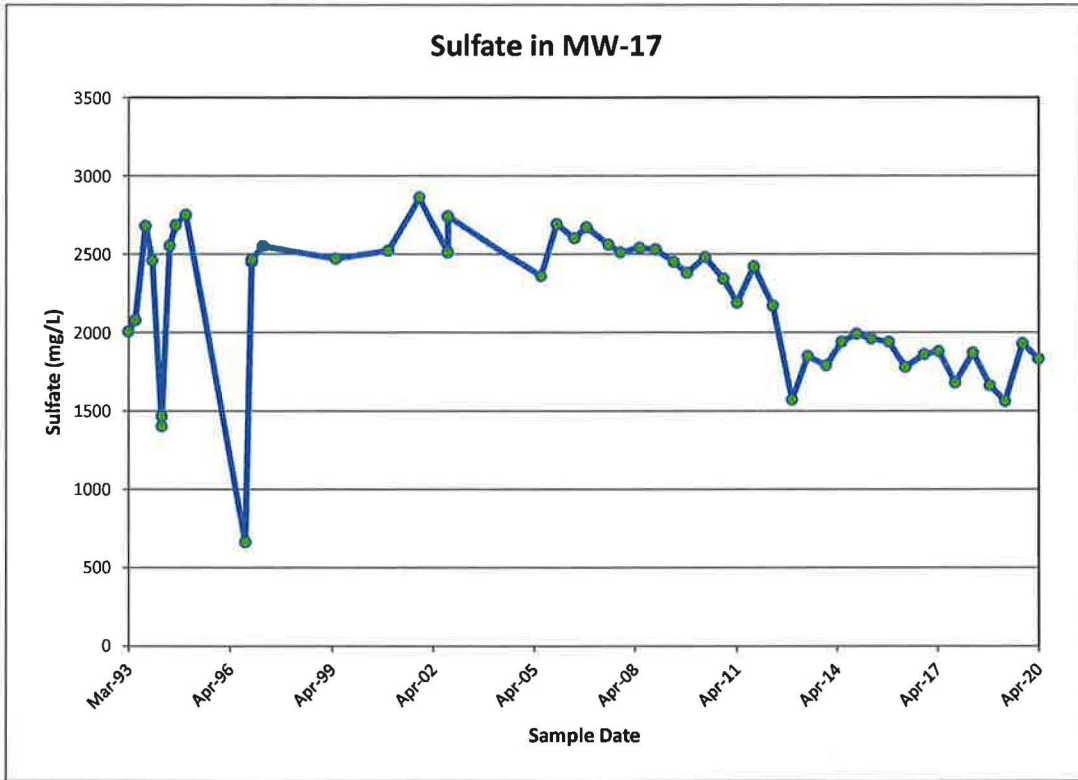
Time concentration plots for MW-15



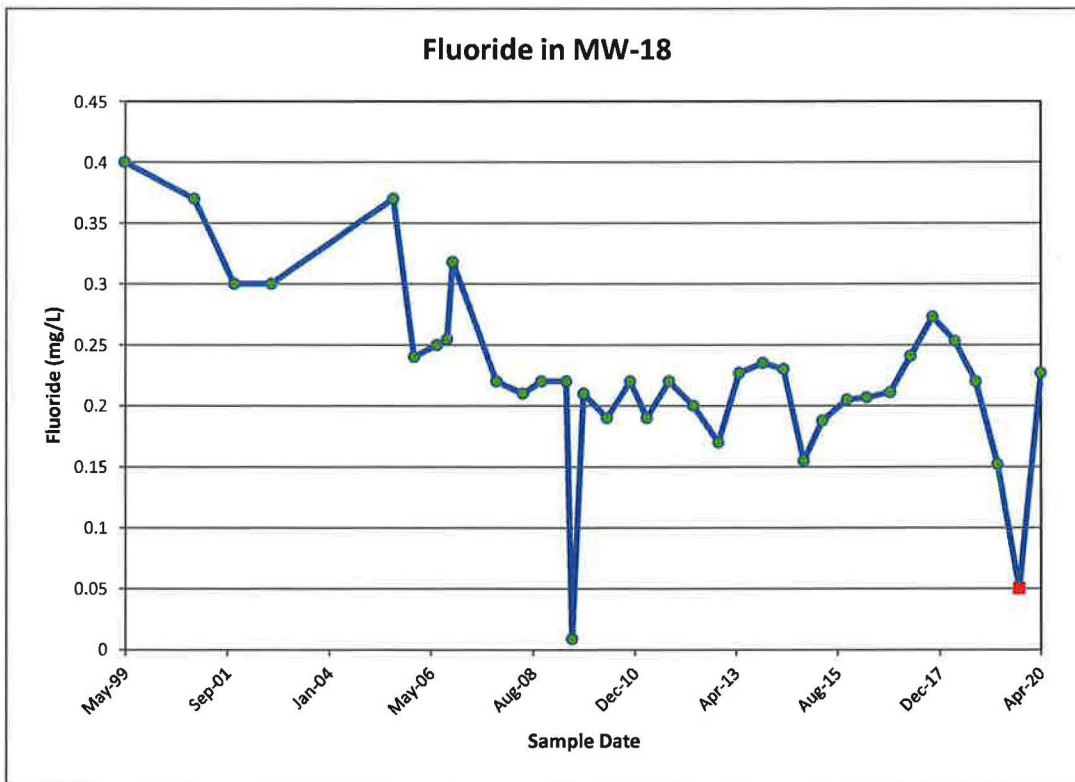
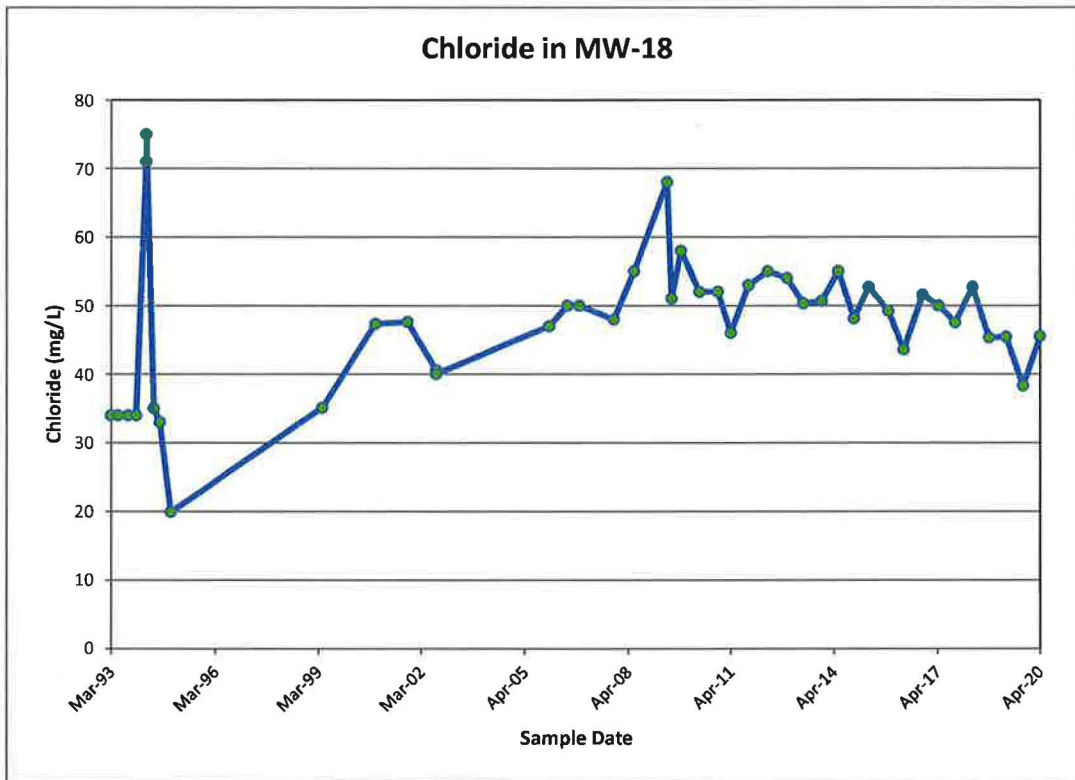
Time concentration plots for MW-17



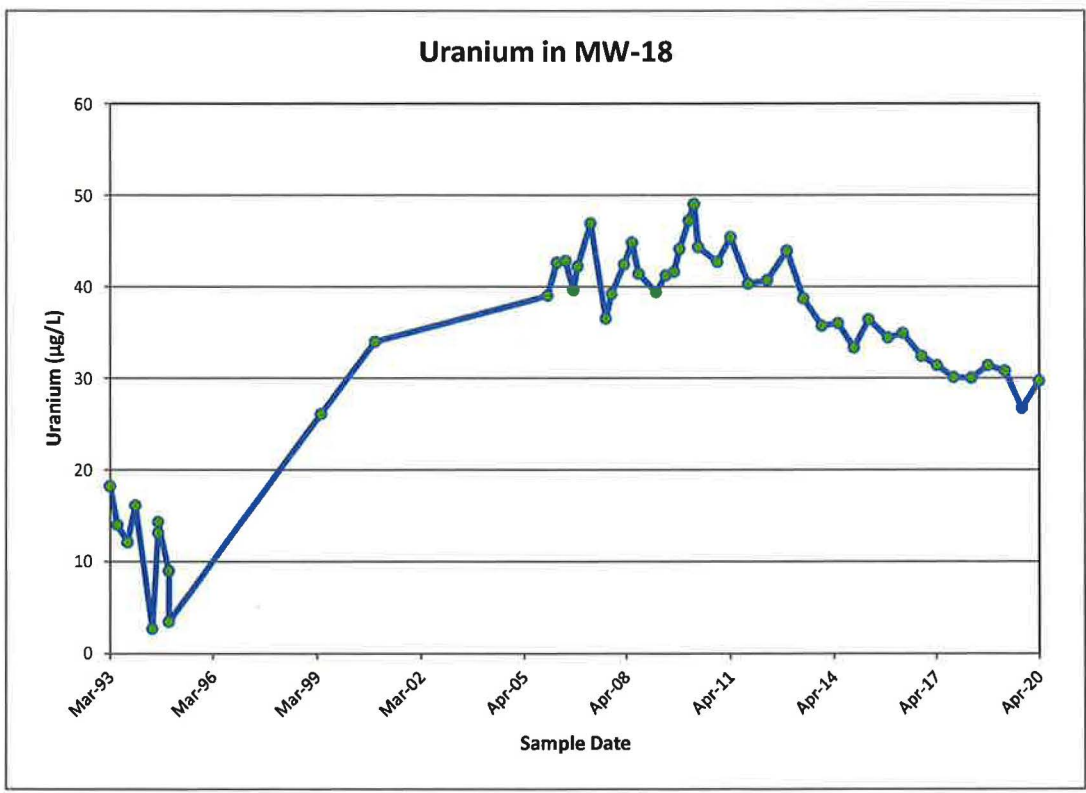
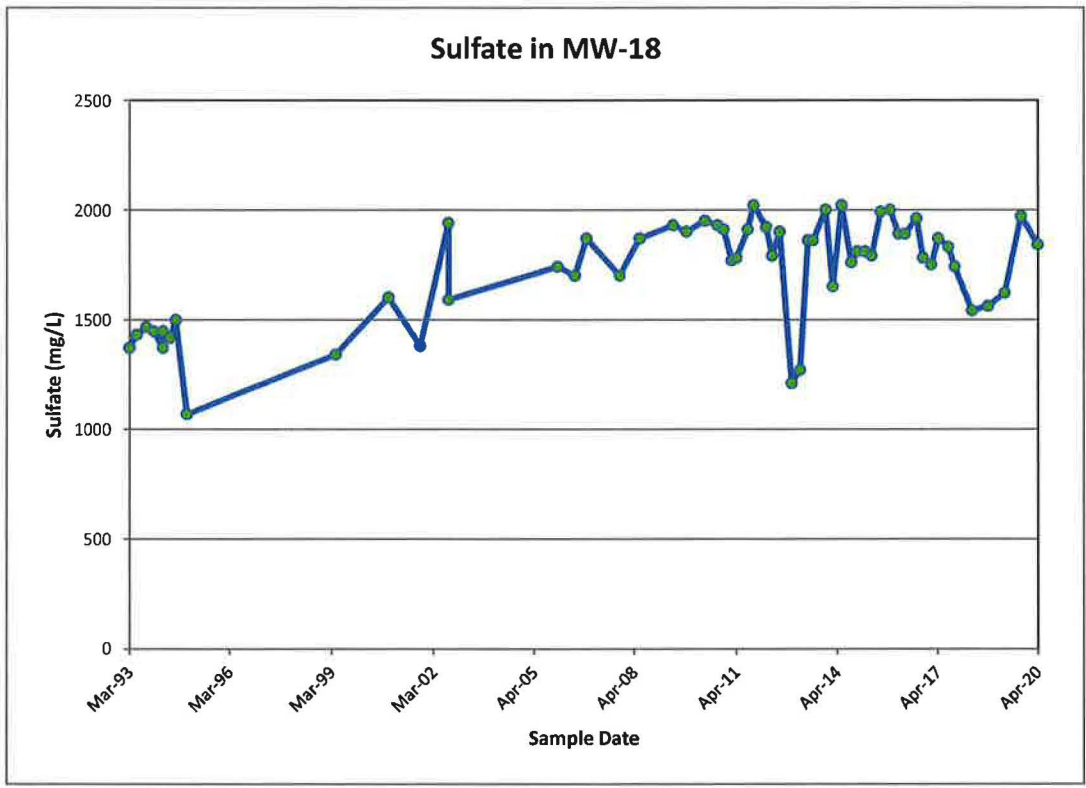
Time concentration plots for MW-17



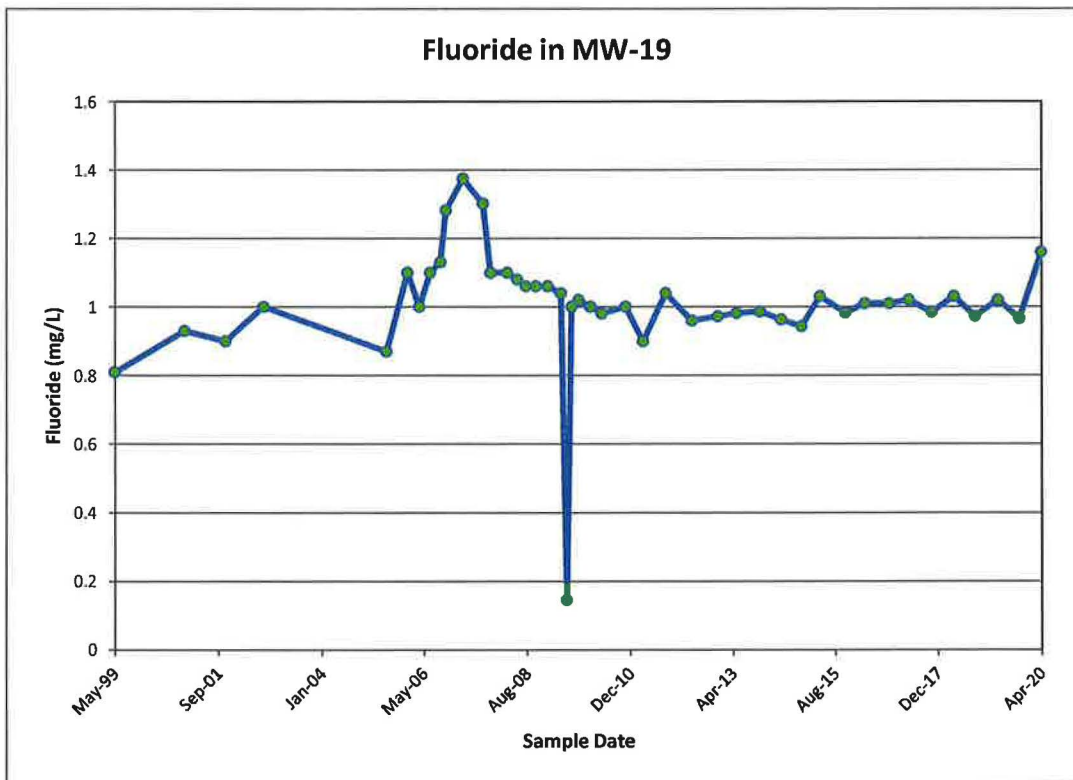
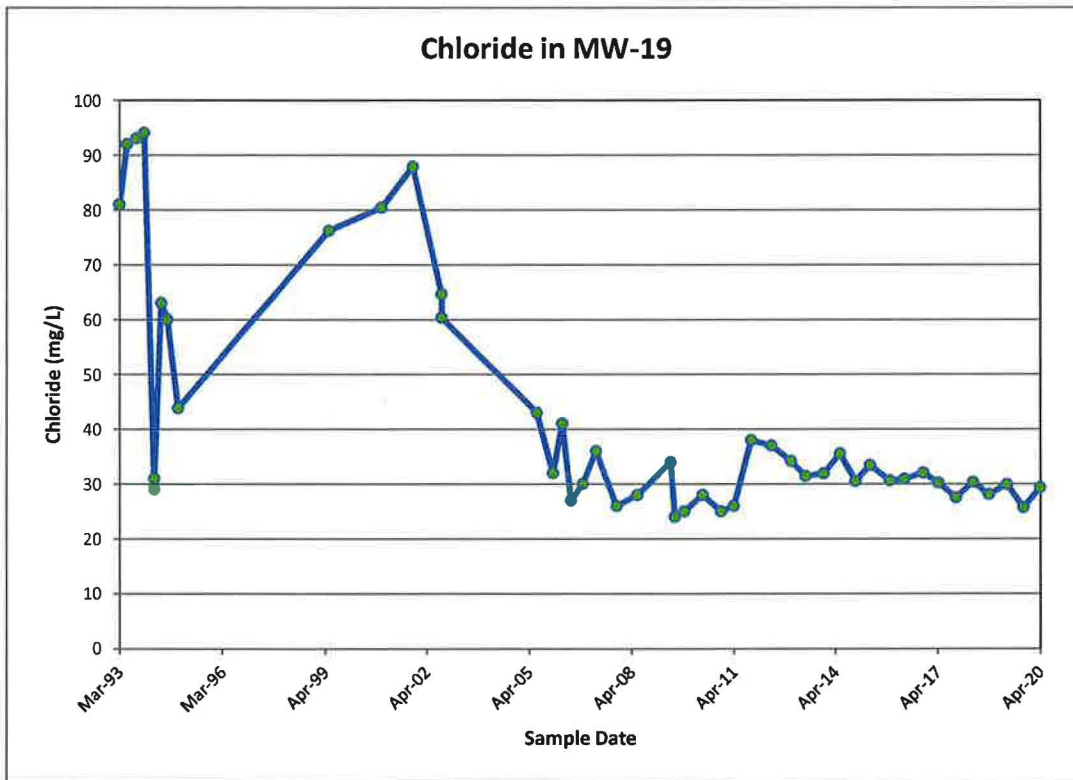
Time concentration plots for MW-18



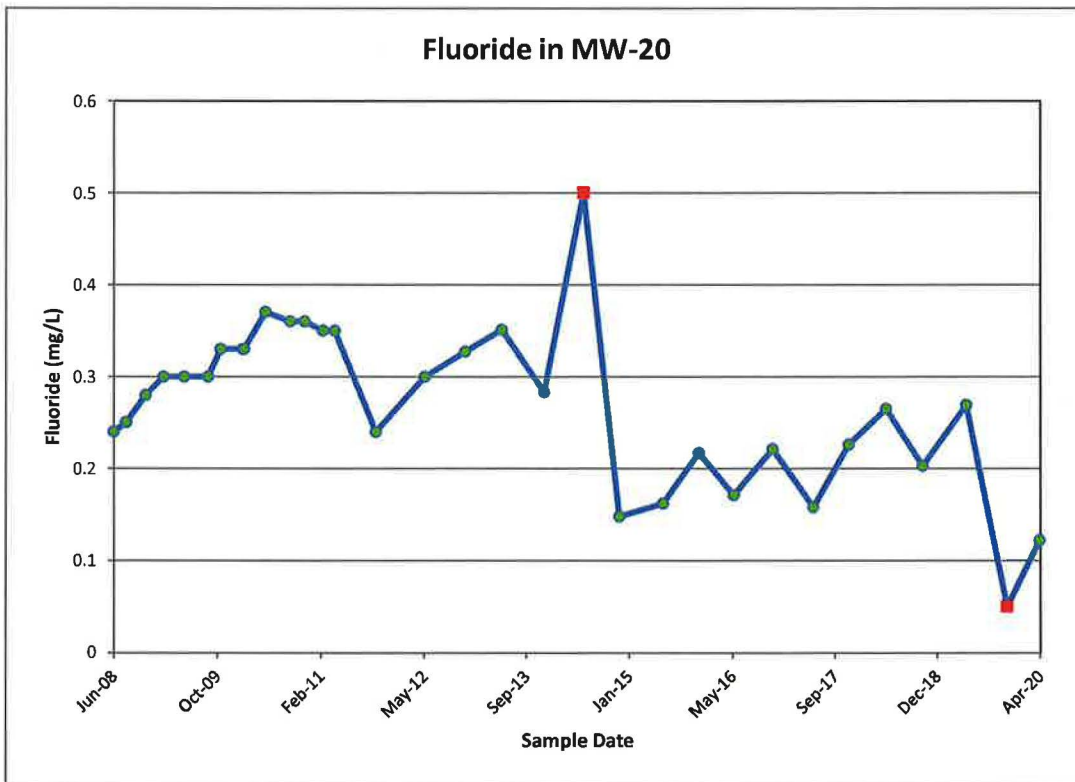
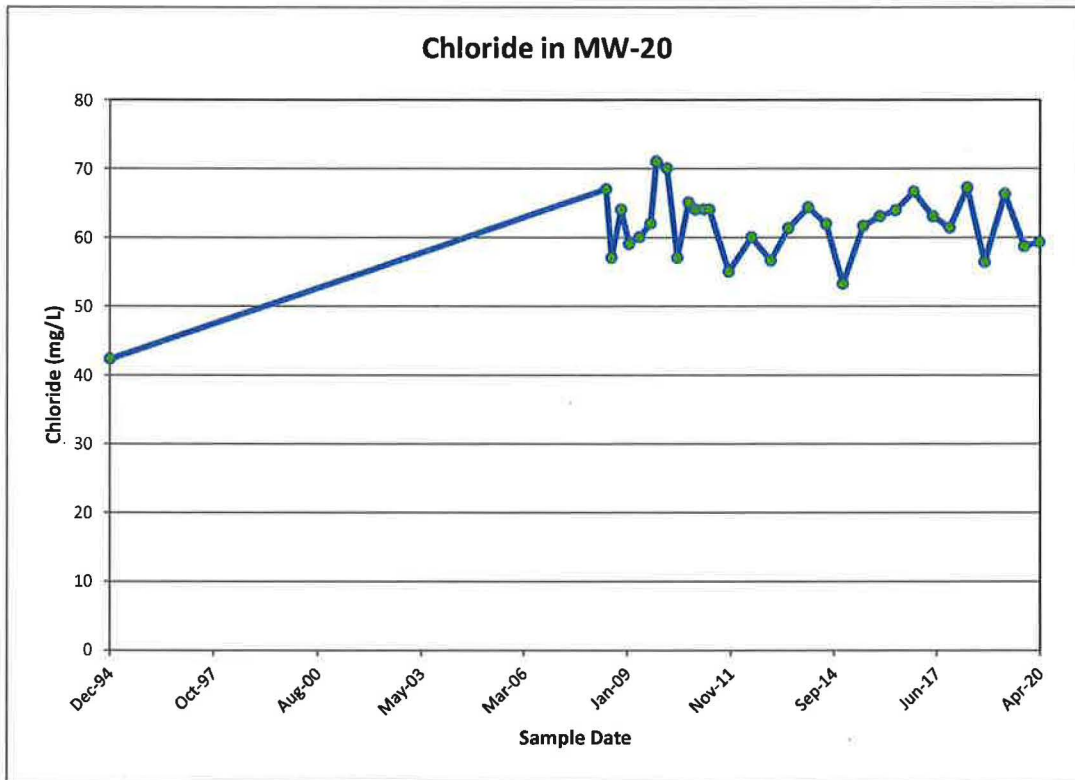
Time concentration plots for MW-18



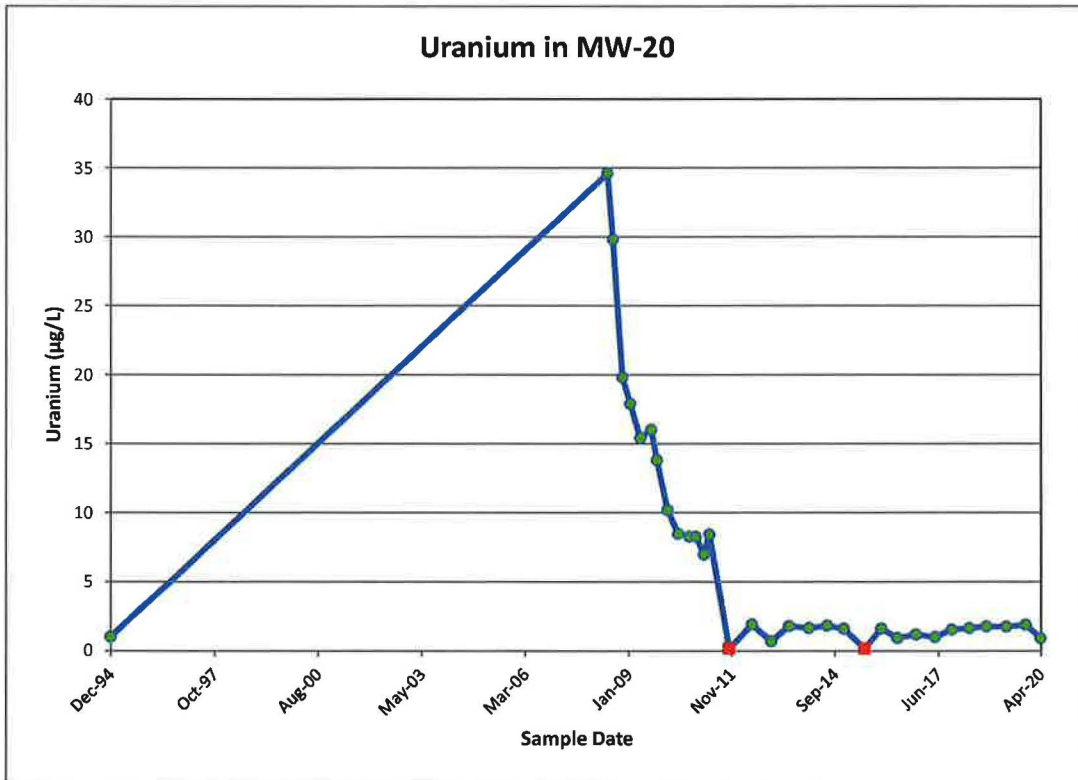
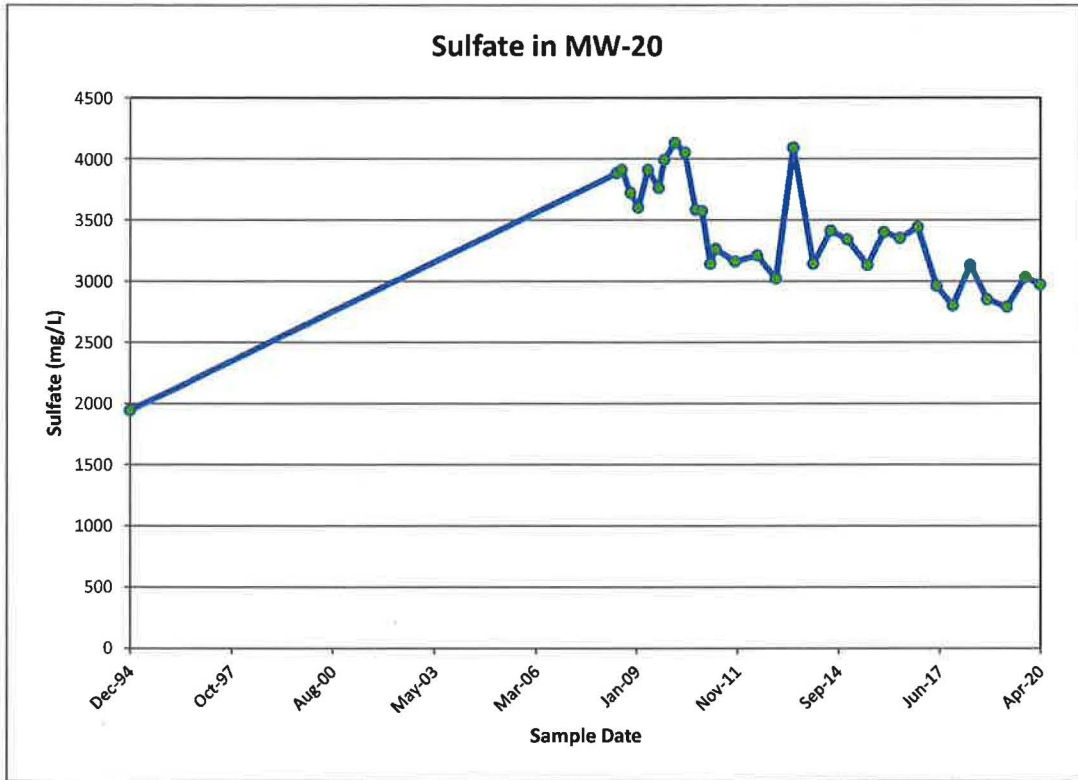
Time concentration plots for MW-19



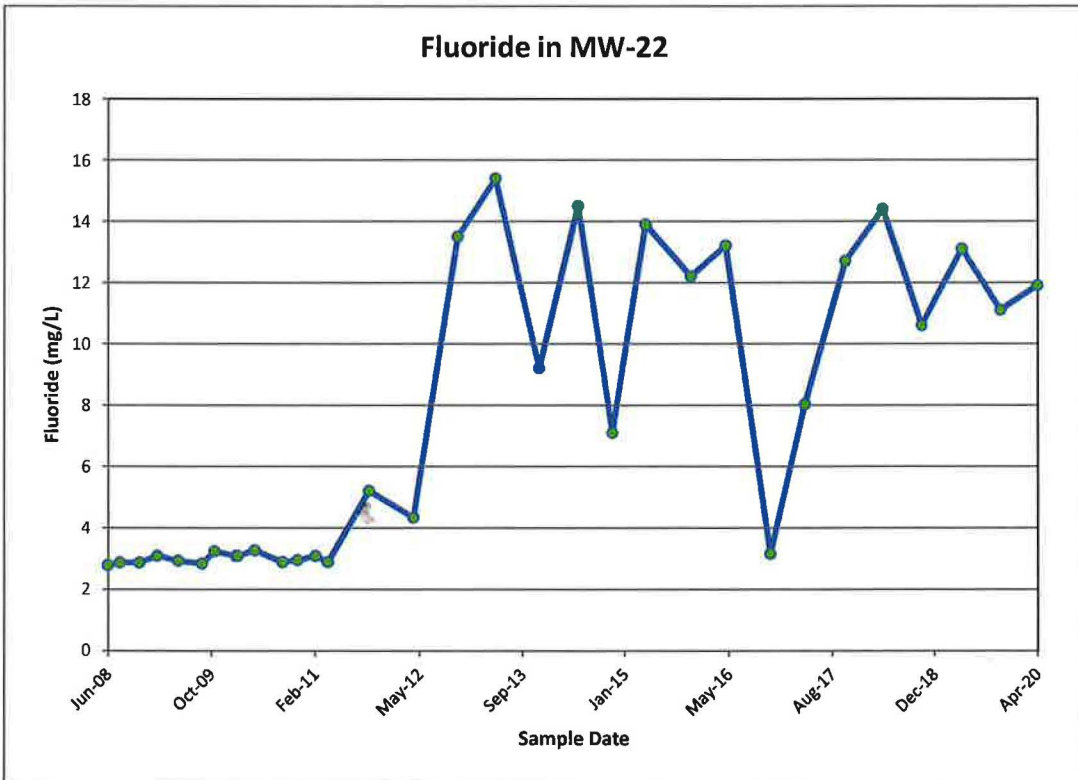
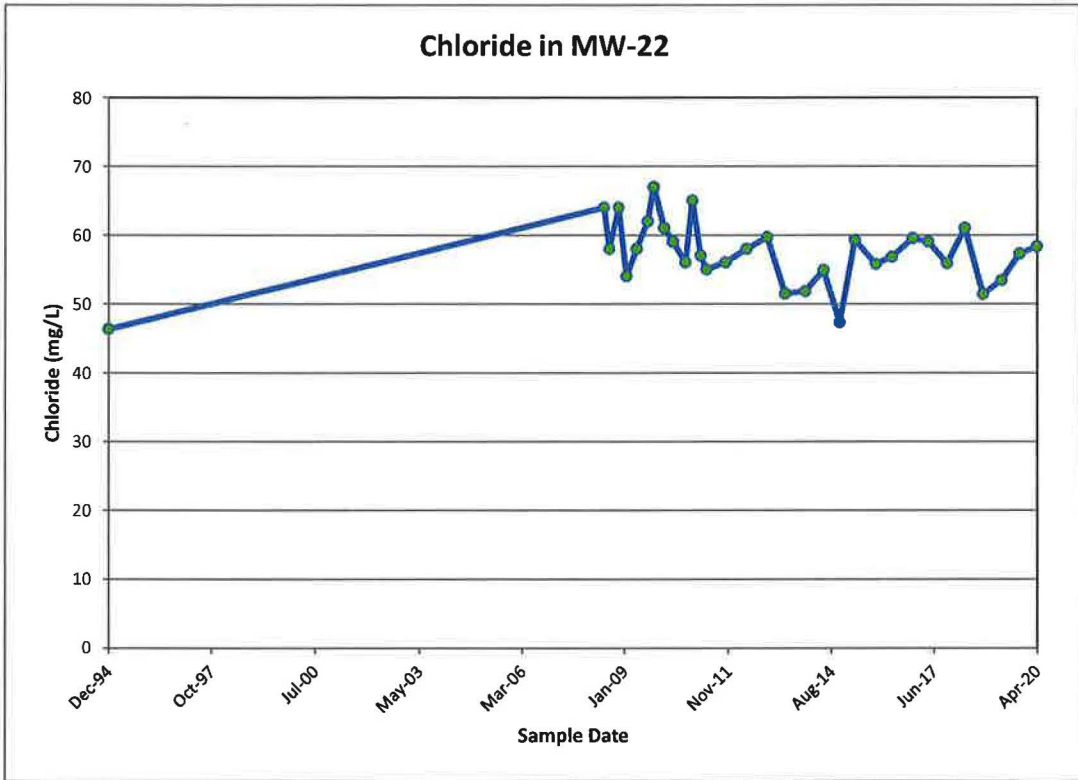
Time concentration plots for MW-20



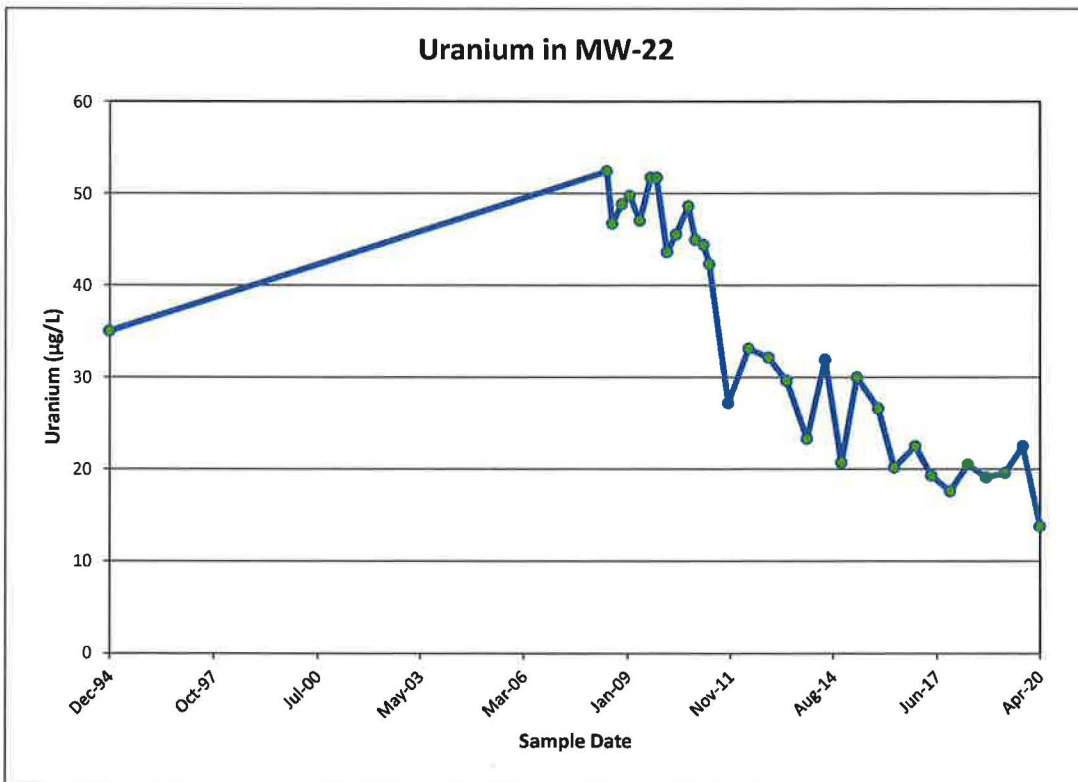
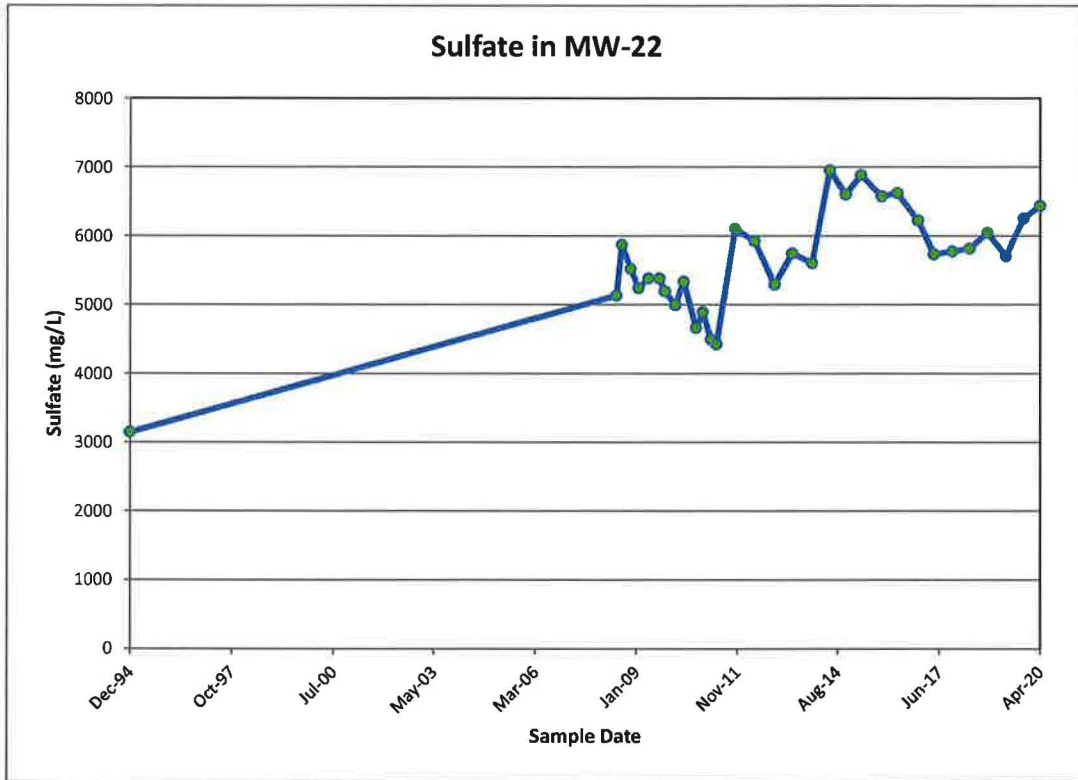
Time concentration plots for MW-20



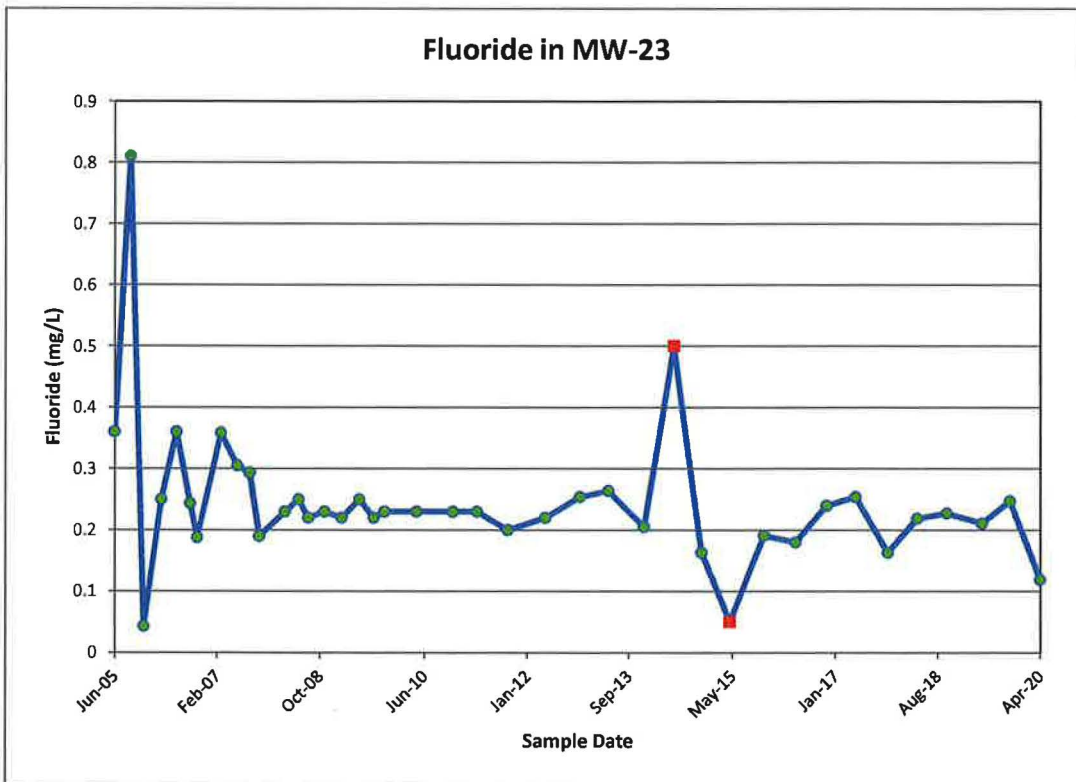
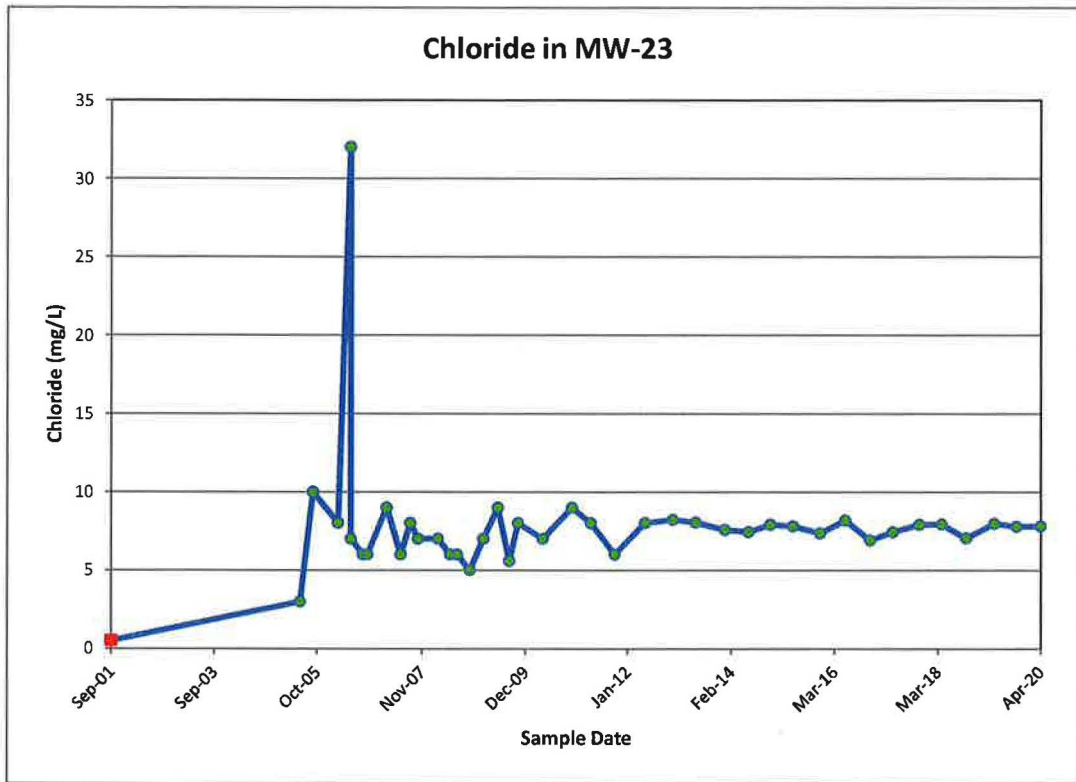
Time concentration plots for MW-22



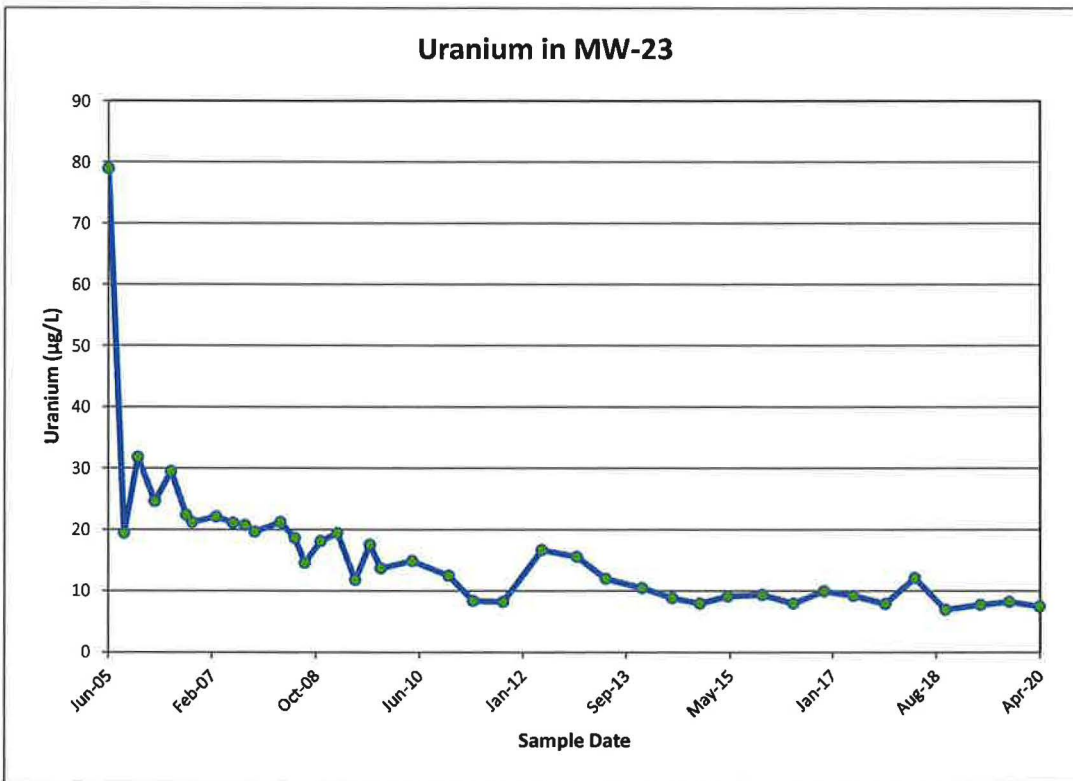
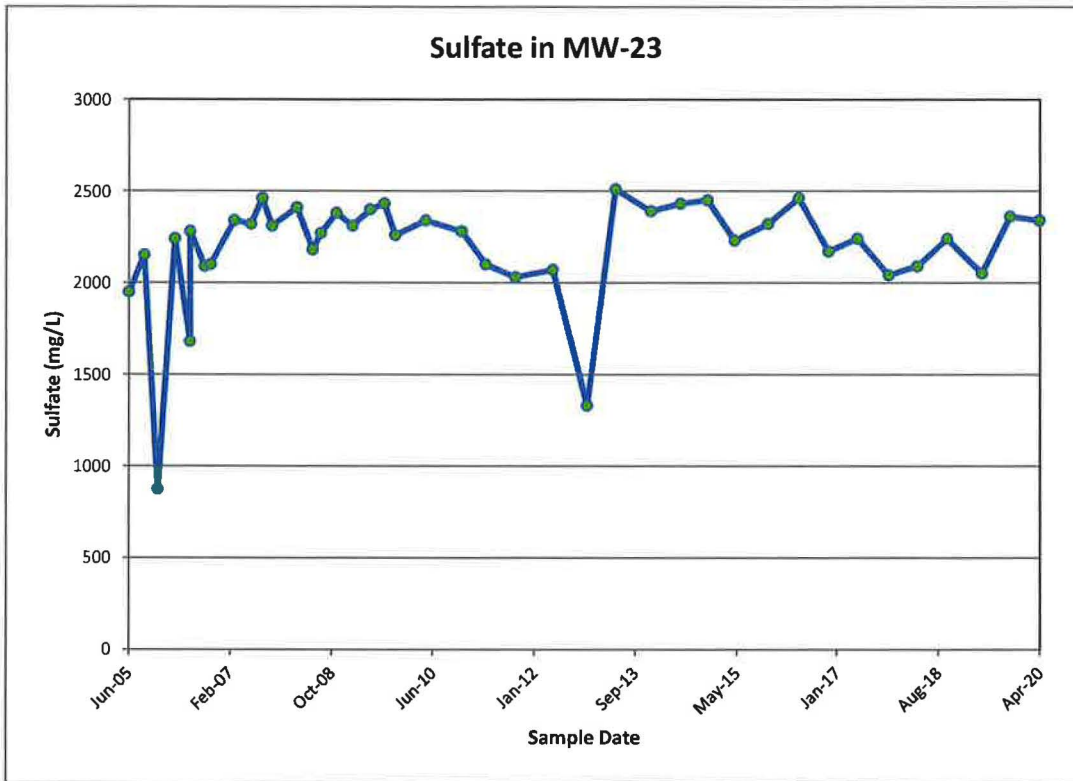
Time concentration plots for MW-22



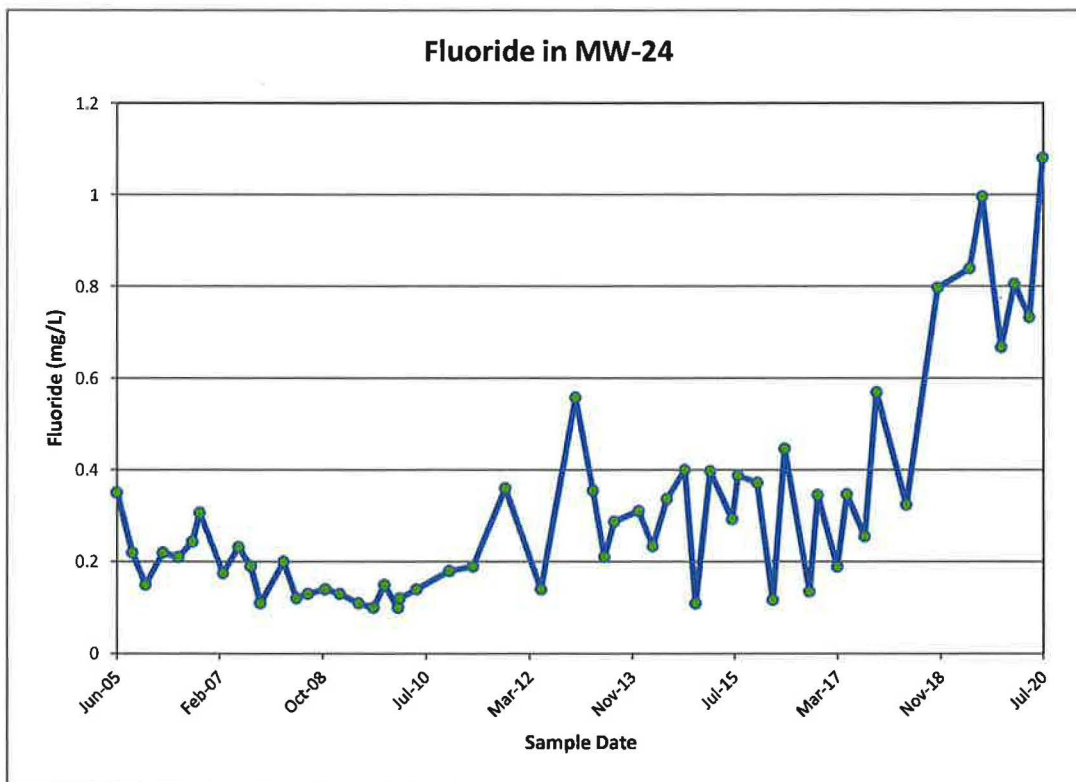
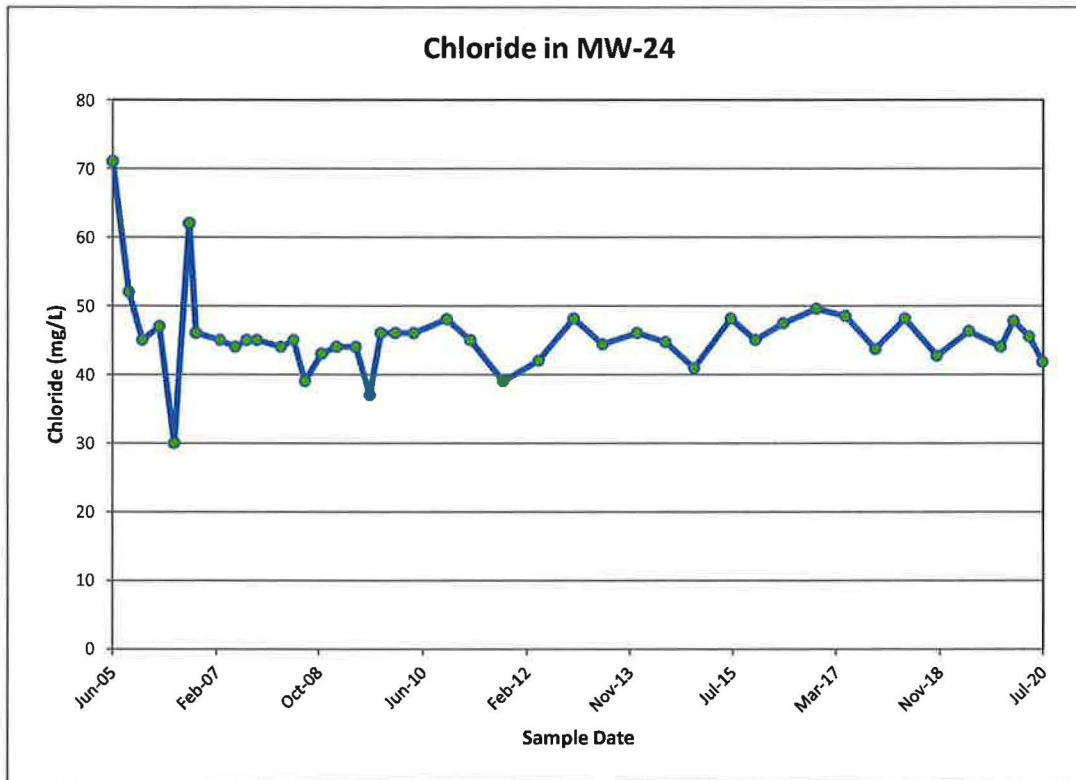
Time concentration plots for MW-23



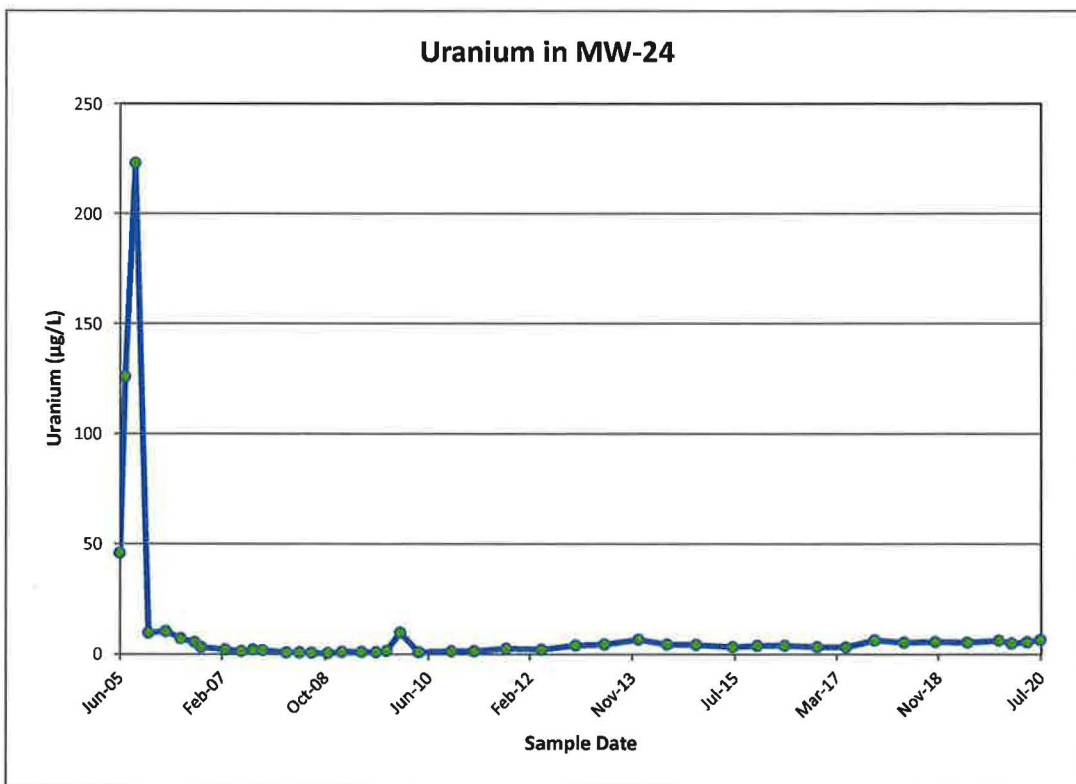
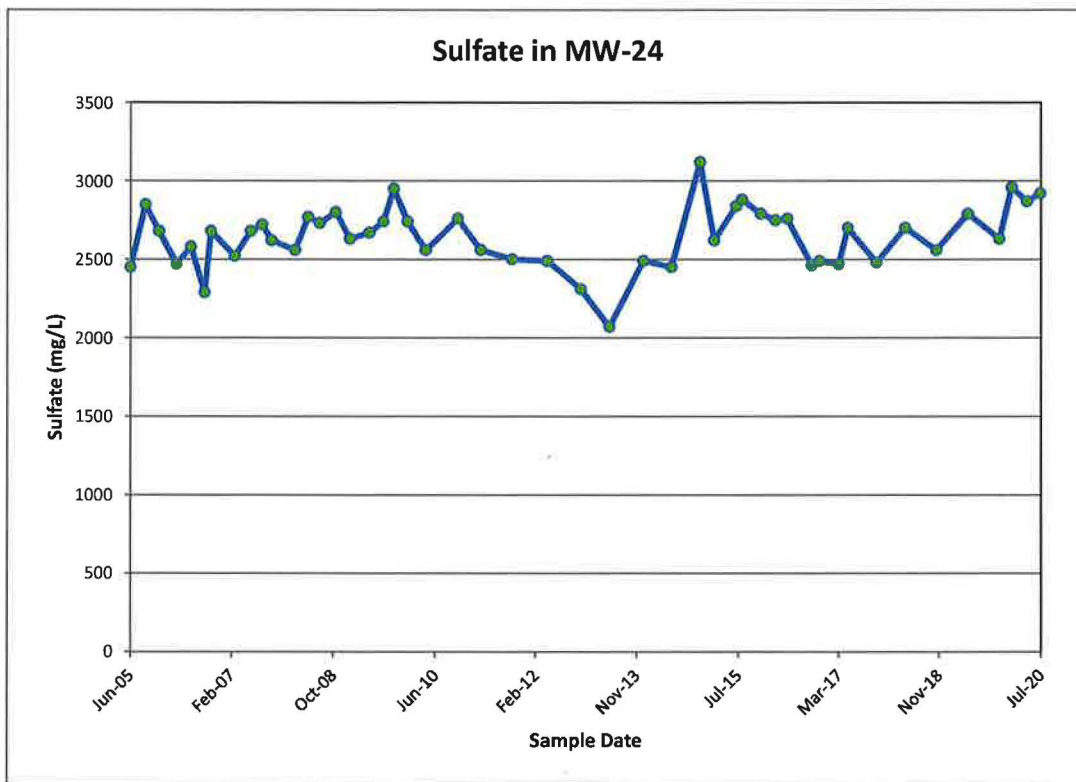
Time concentration plots for MW-23



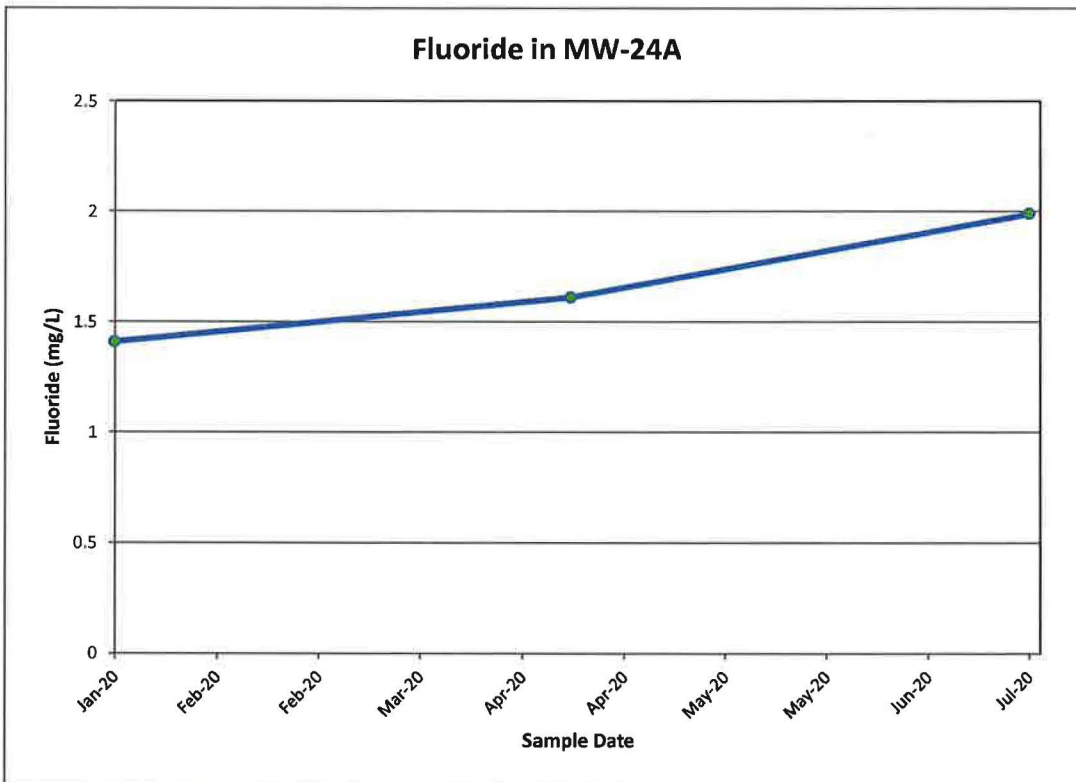
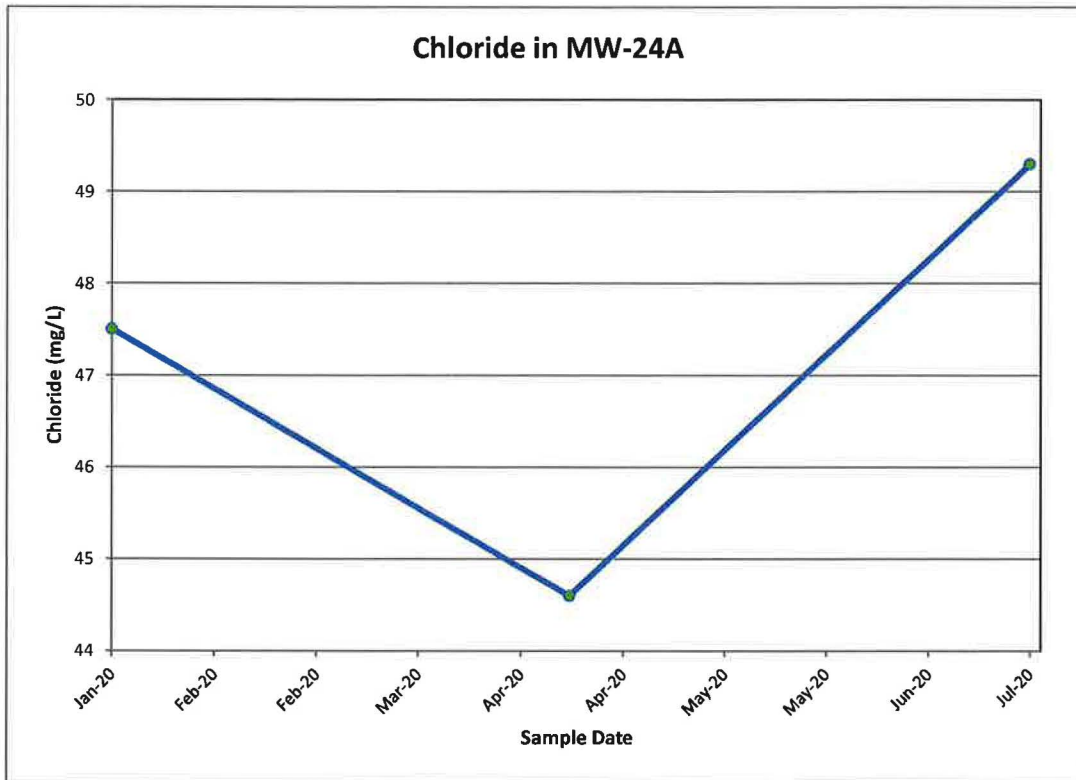
Time concentration plots for MW-24



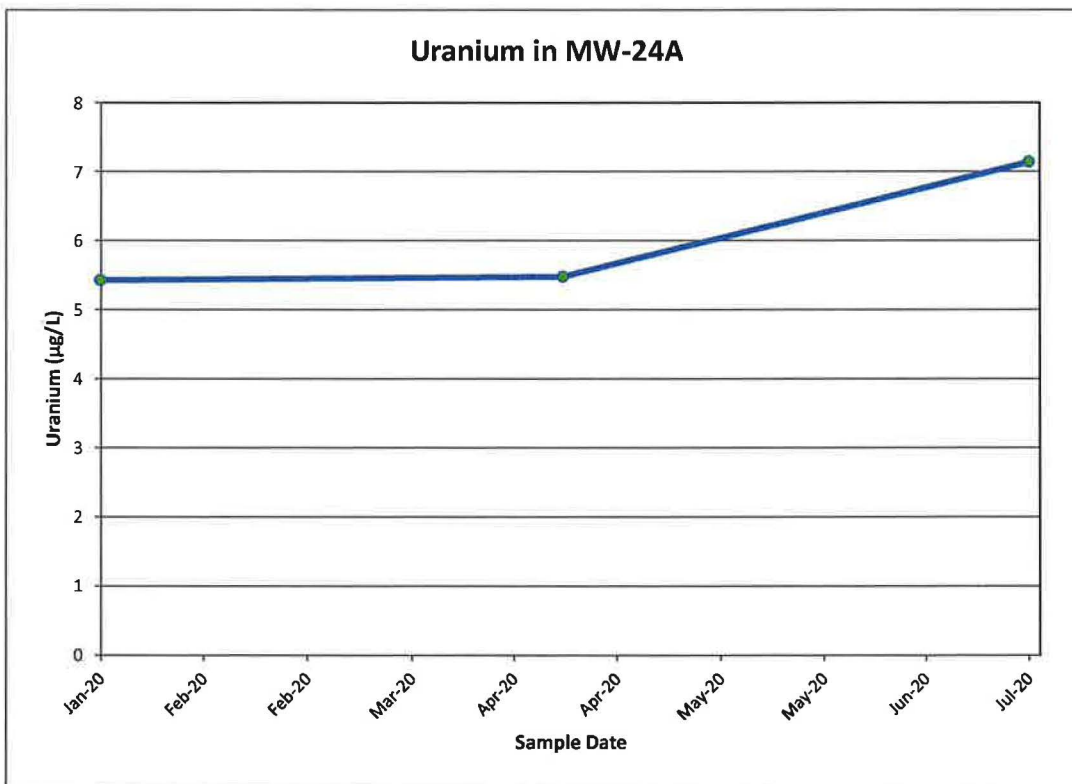
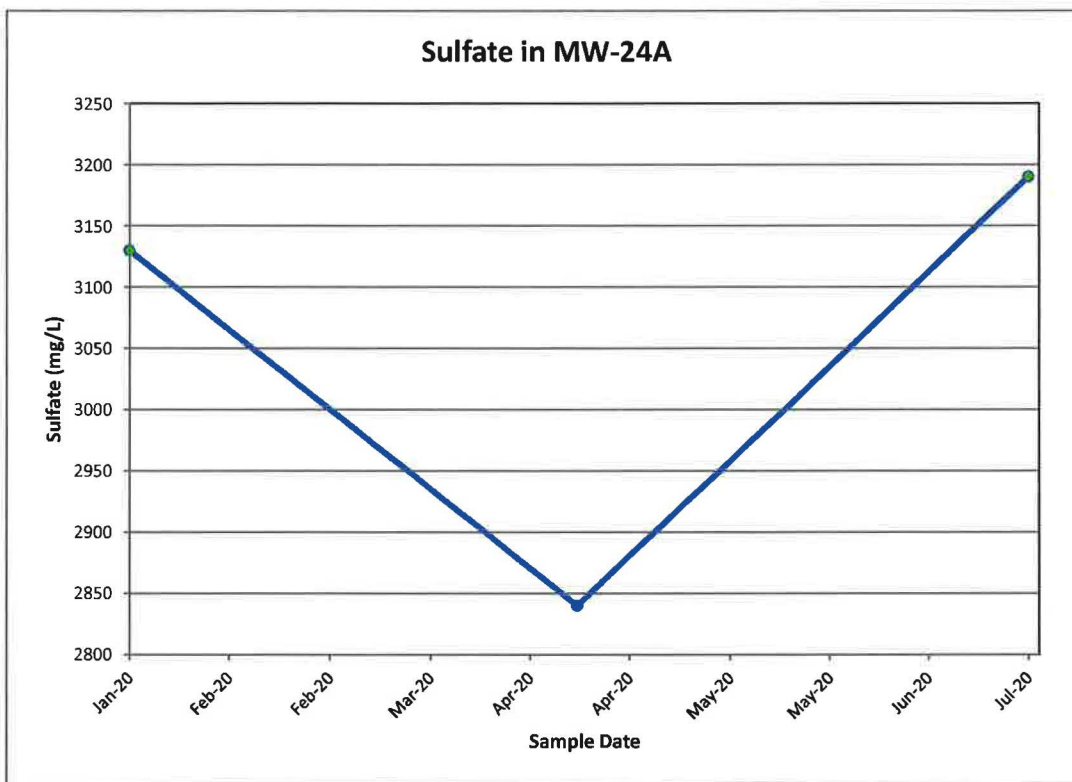
Time concentration plots for MW-24



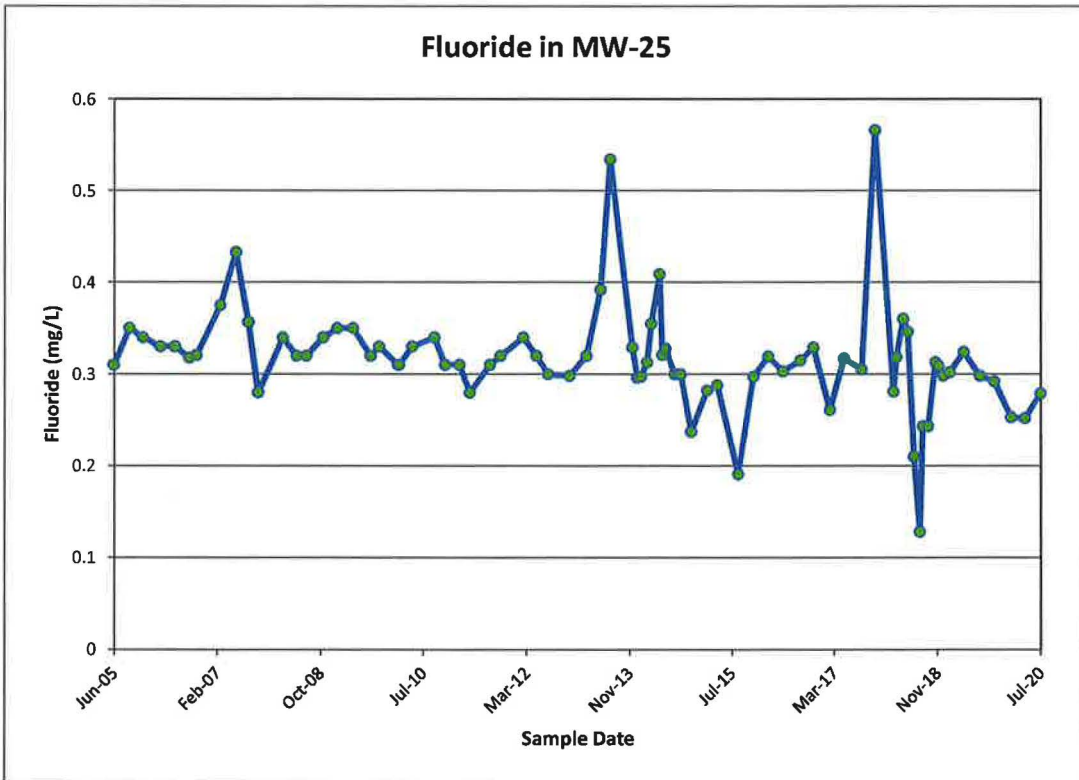
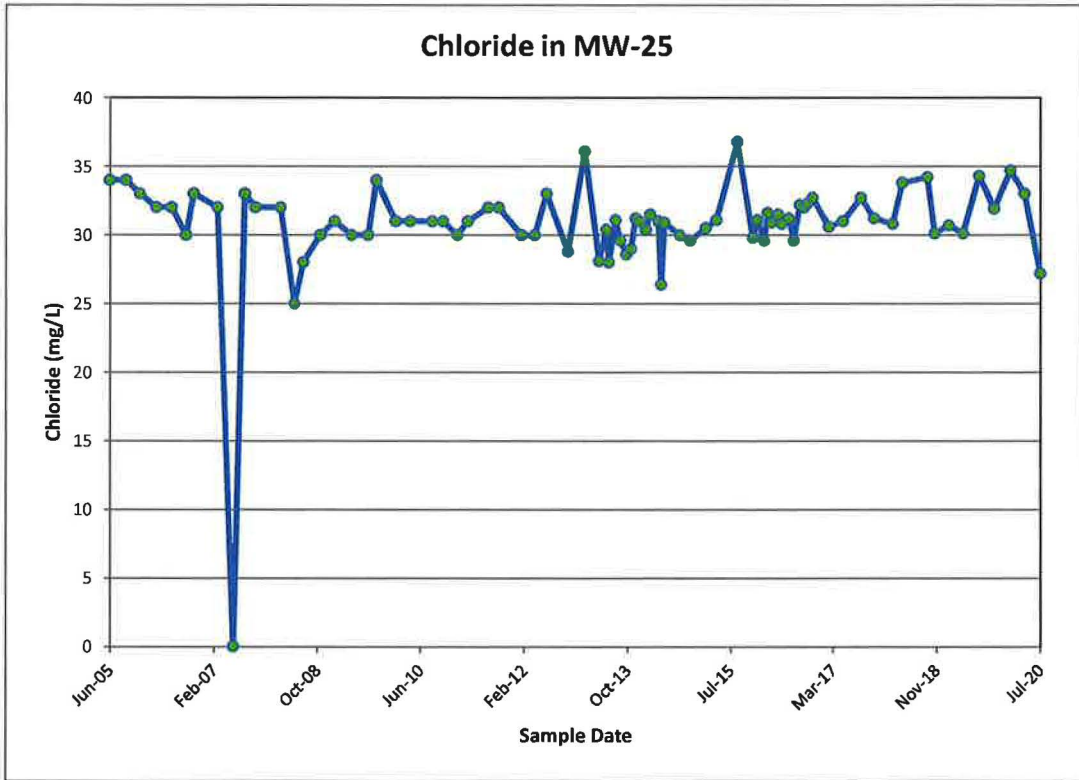
Time concentration plots for MW-24A



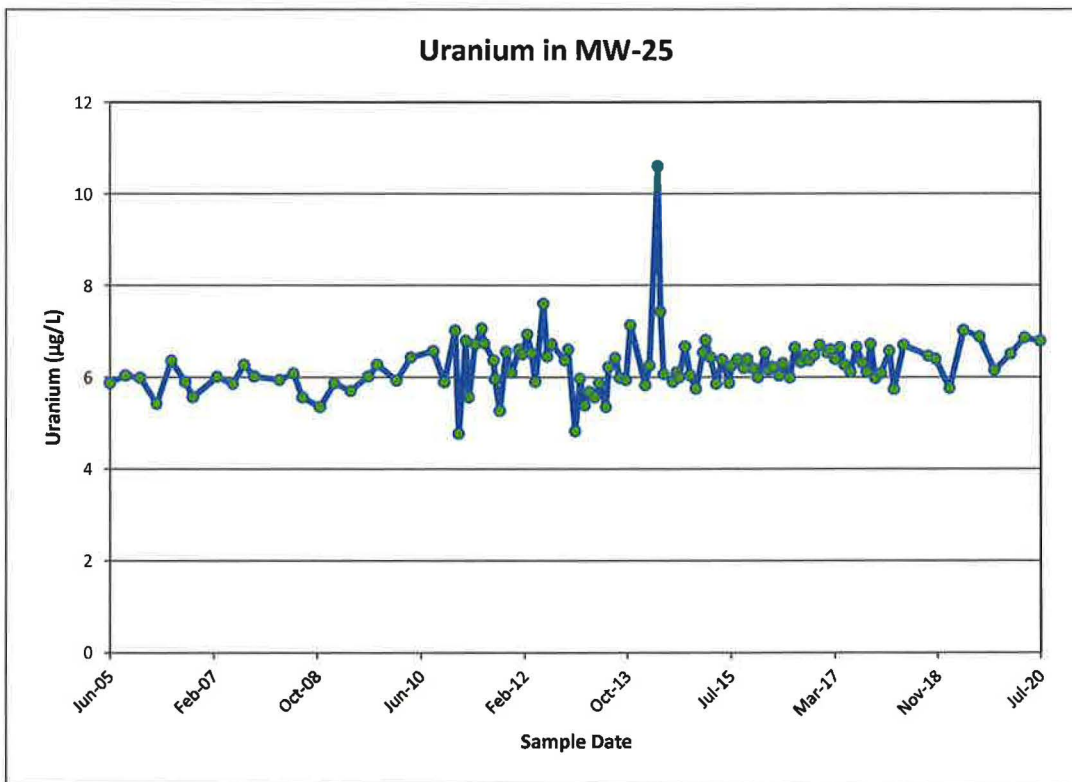
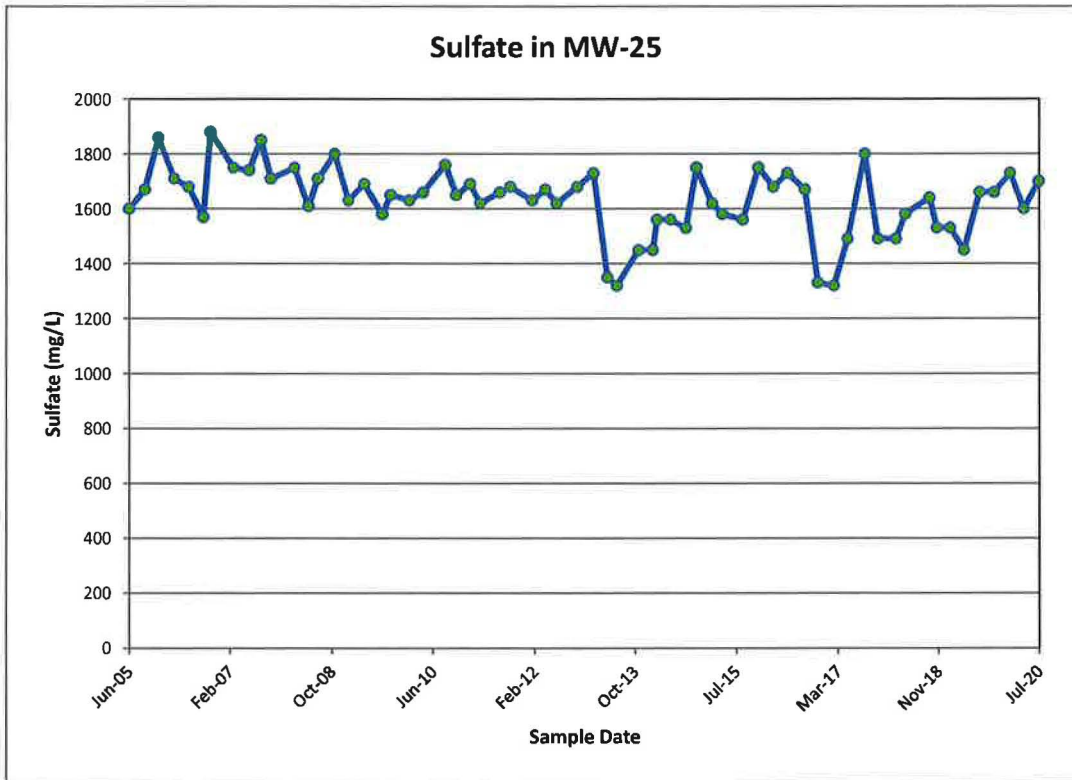
Time concentration plots for MW-24A



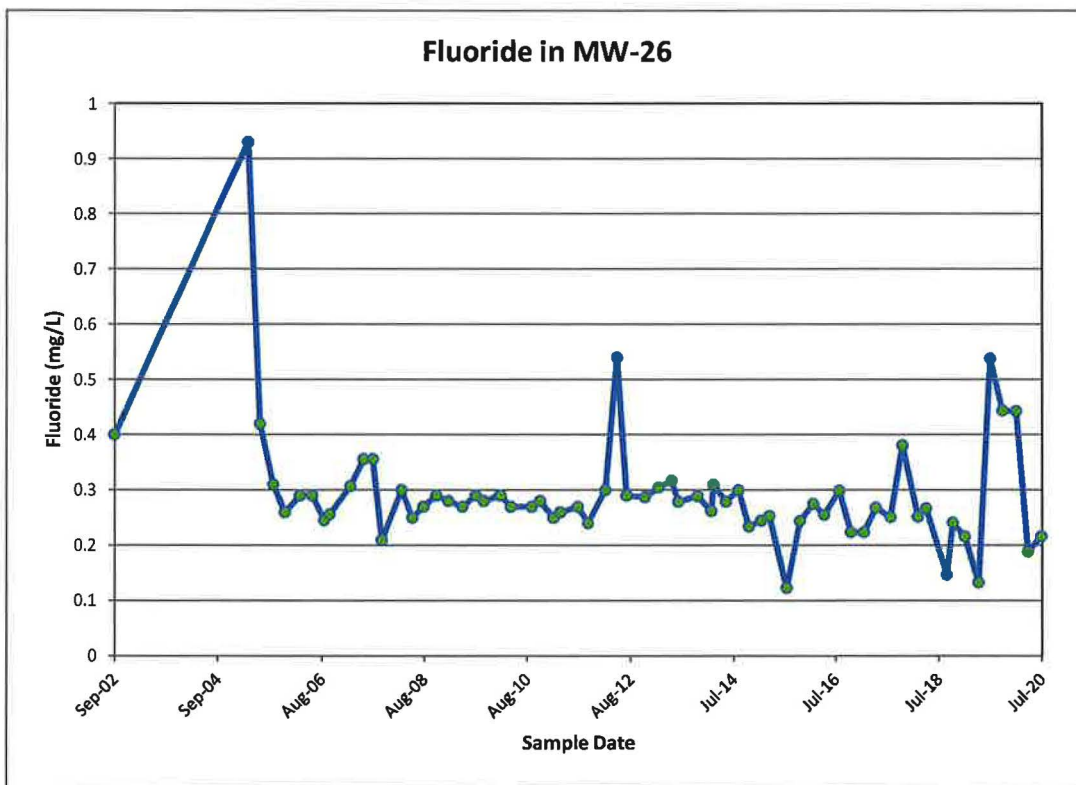
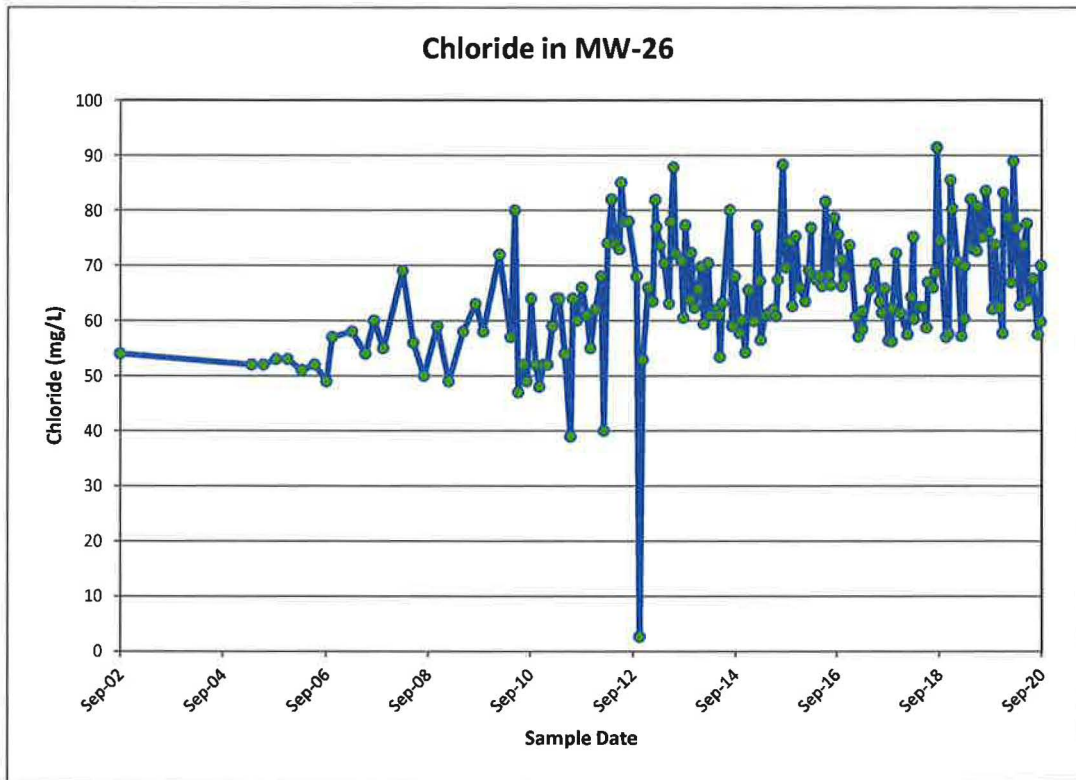
Time concentration plots for MW-25



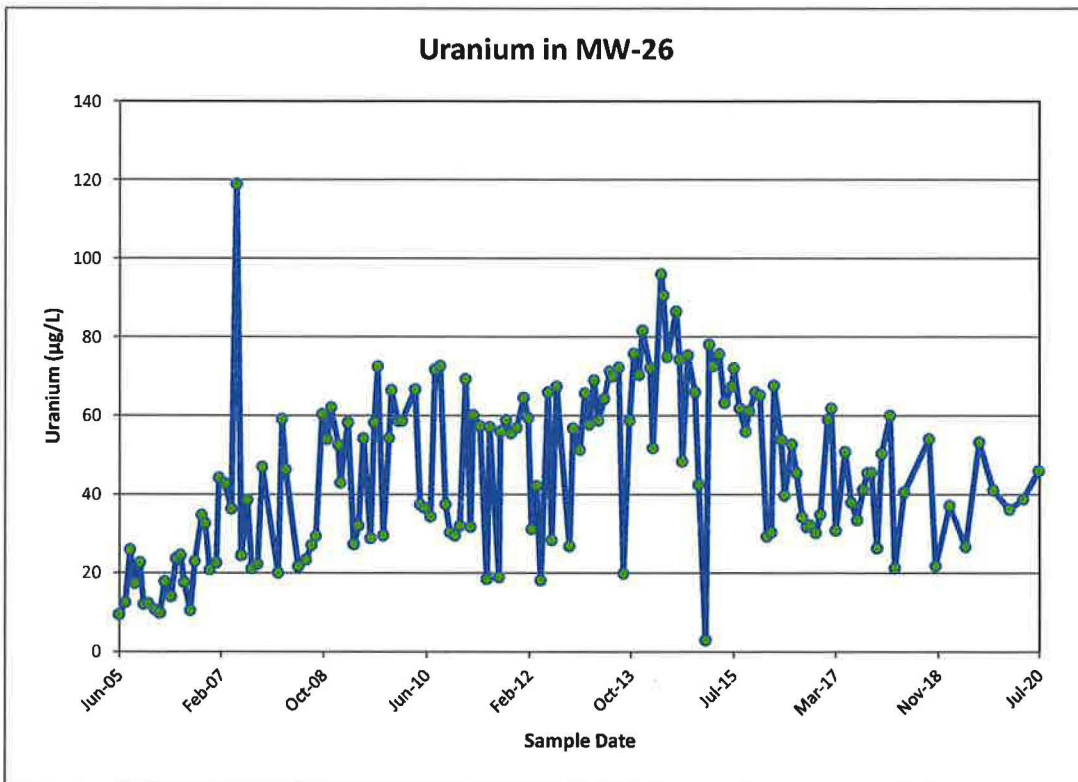
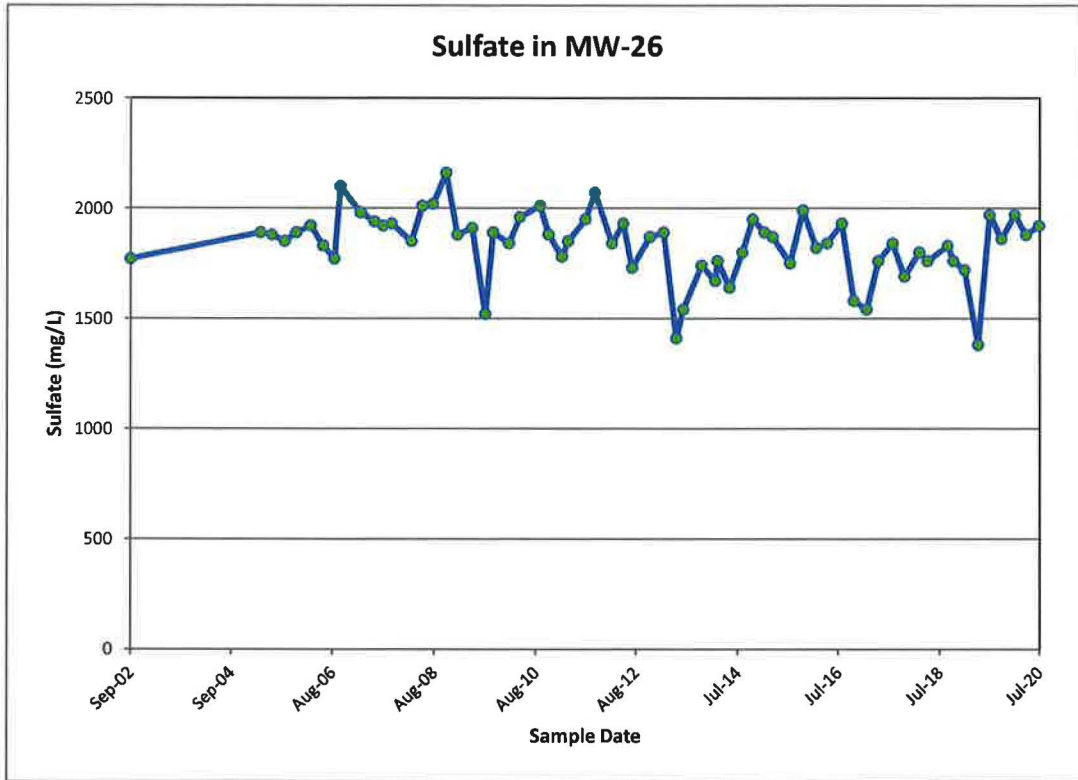
Time concentration plots for MW-25



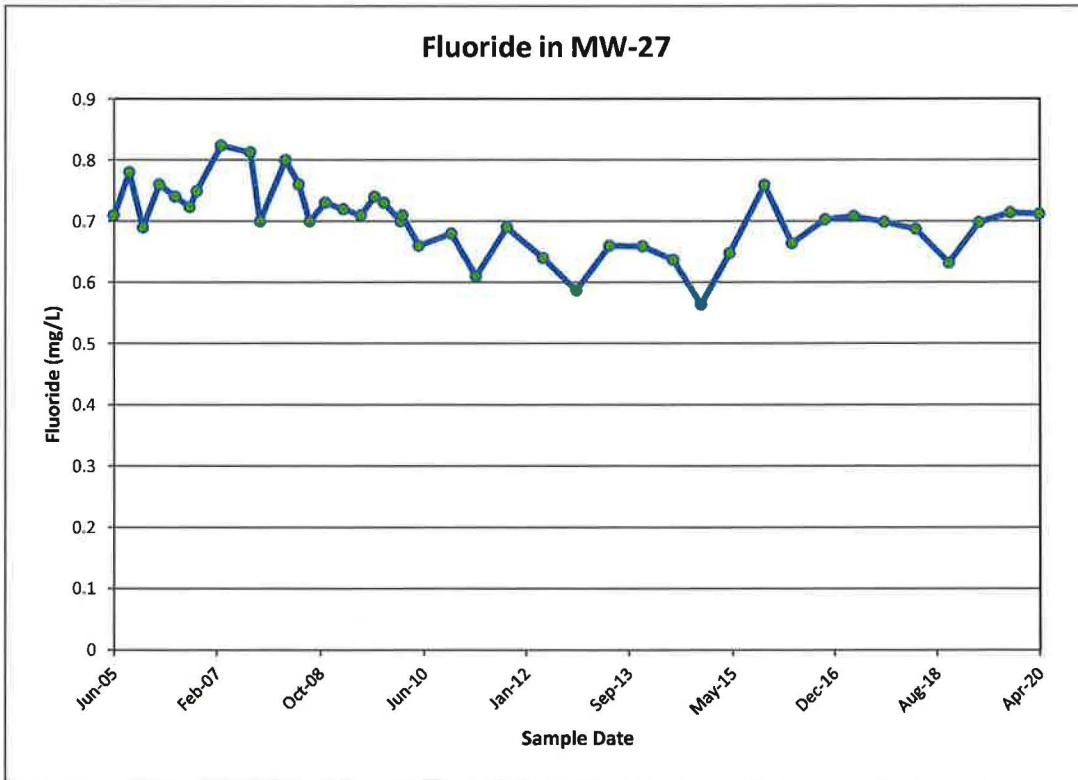
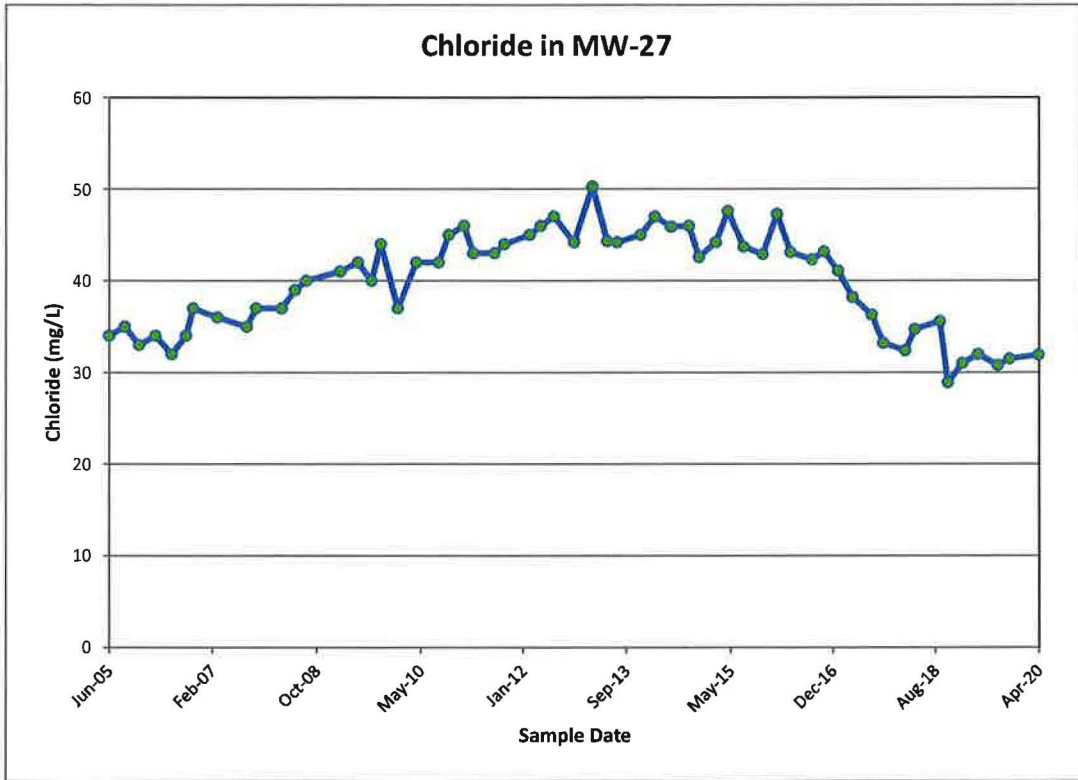
Time concentration plots for MW-26



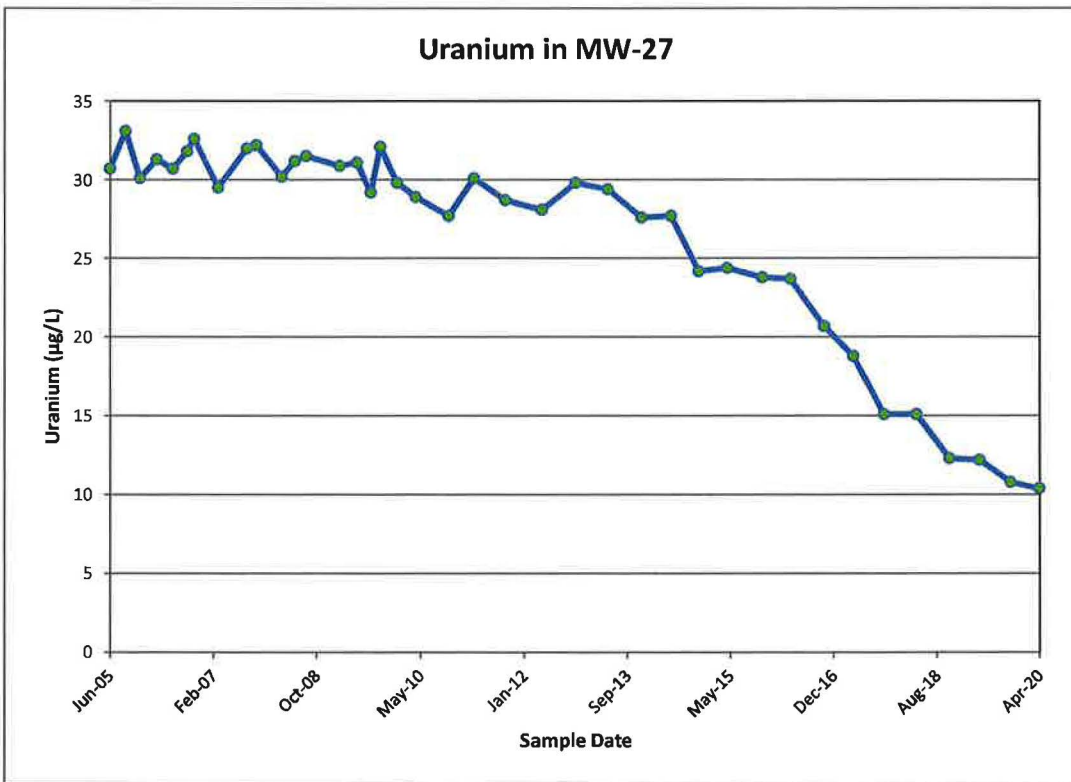
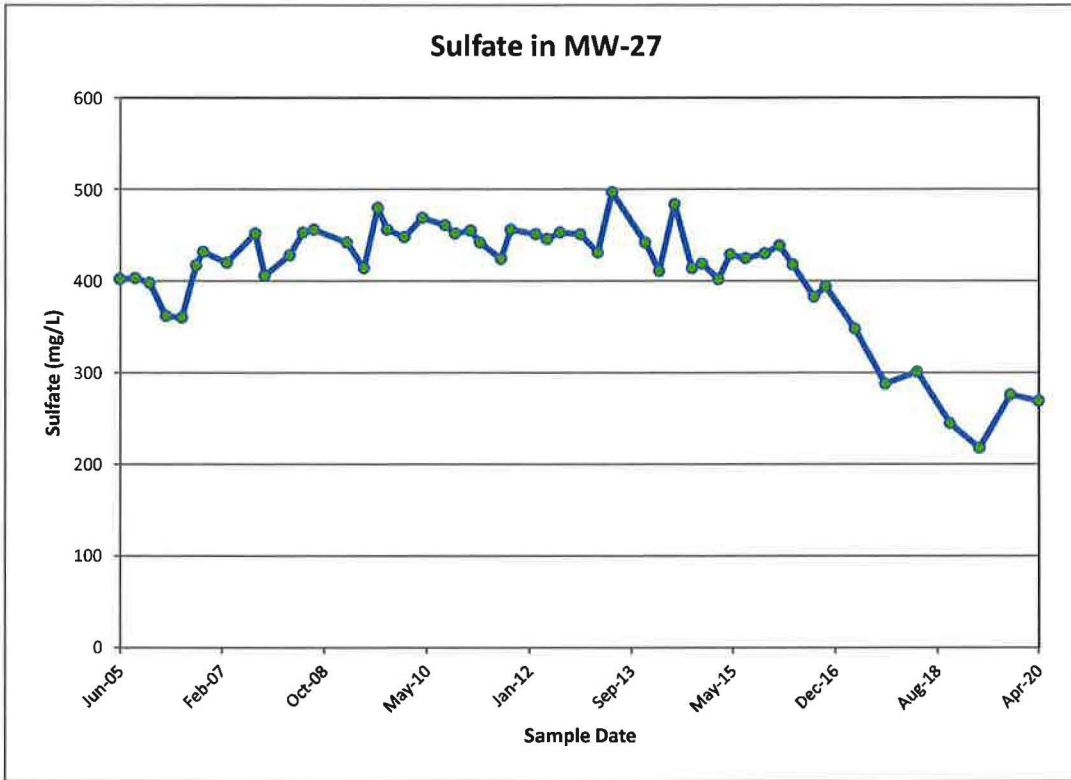
Time concentration plots for MW-26



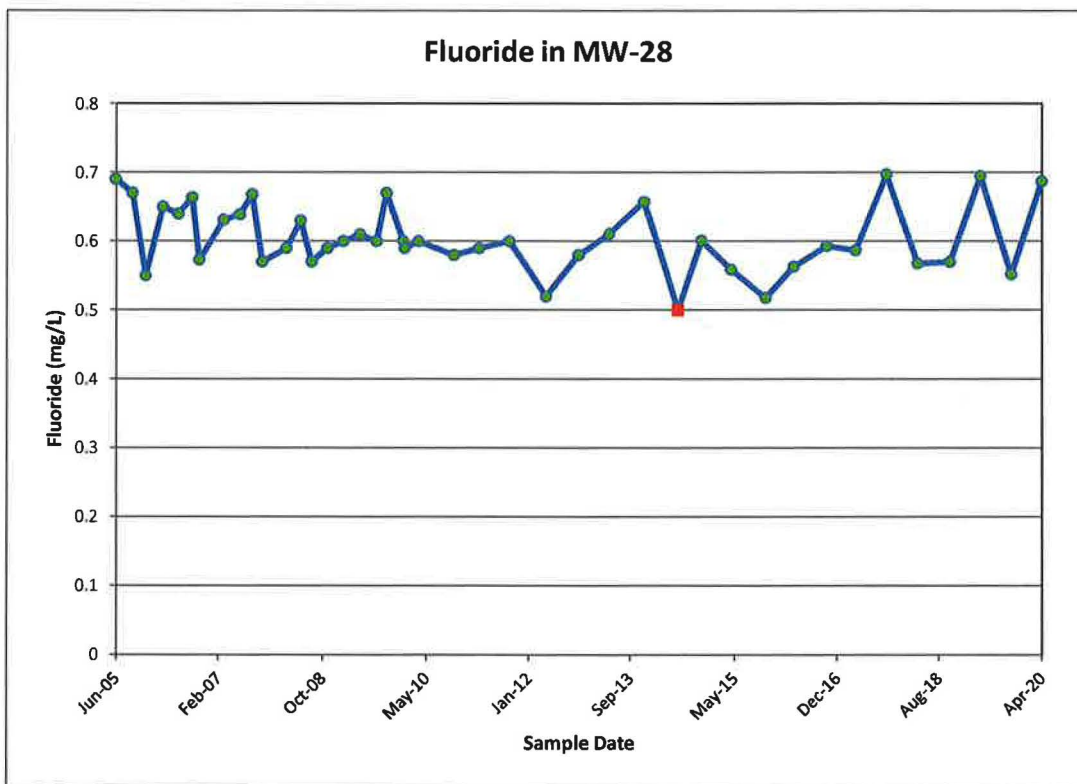
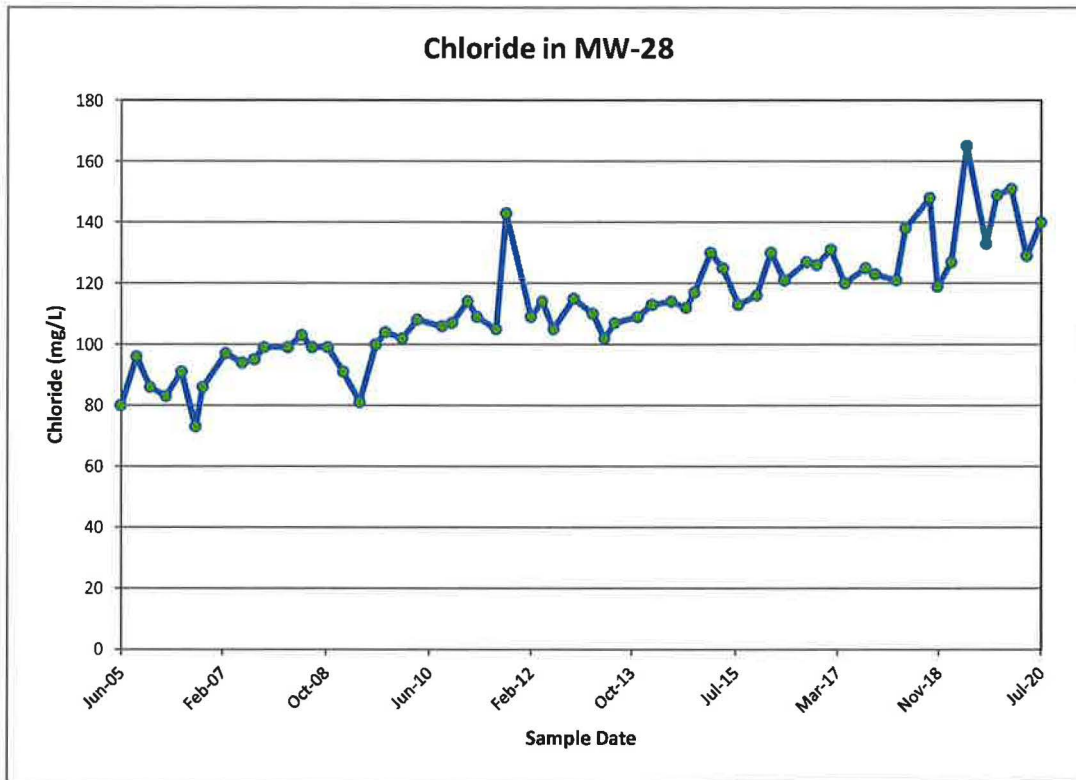
Time concentration plots for MW-27



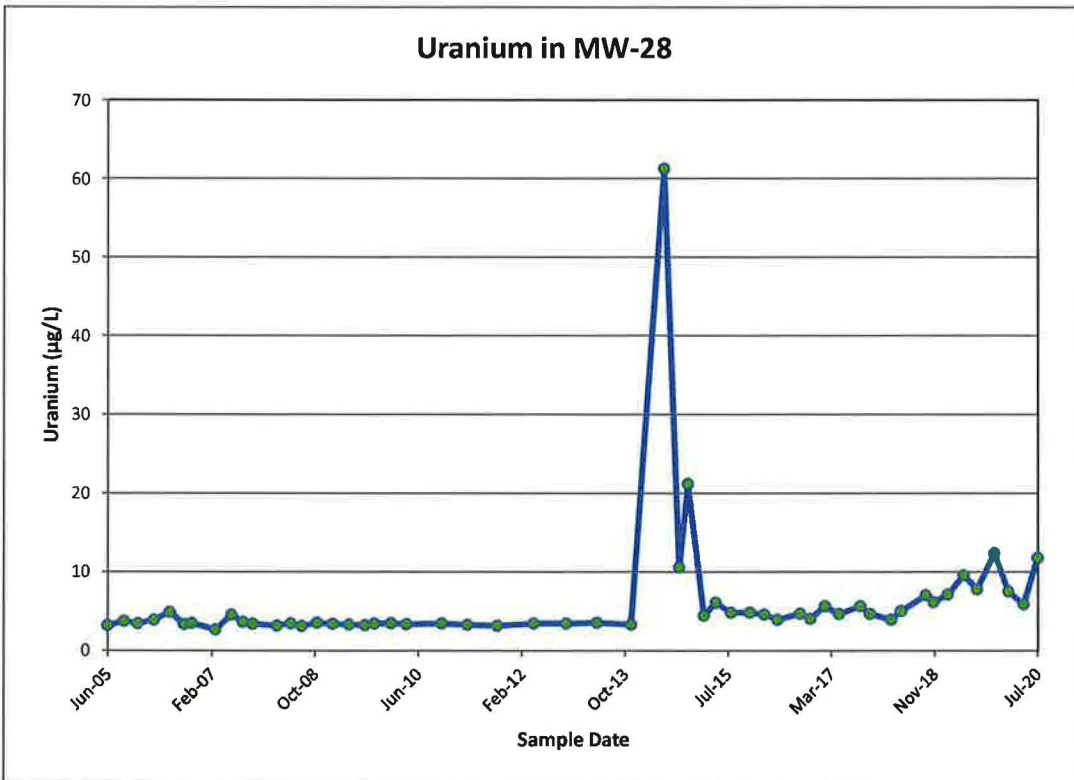
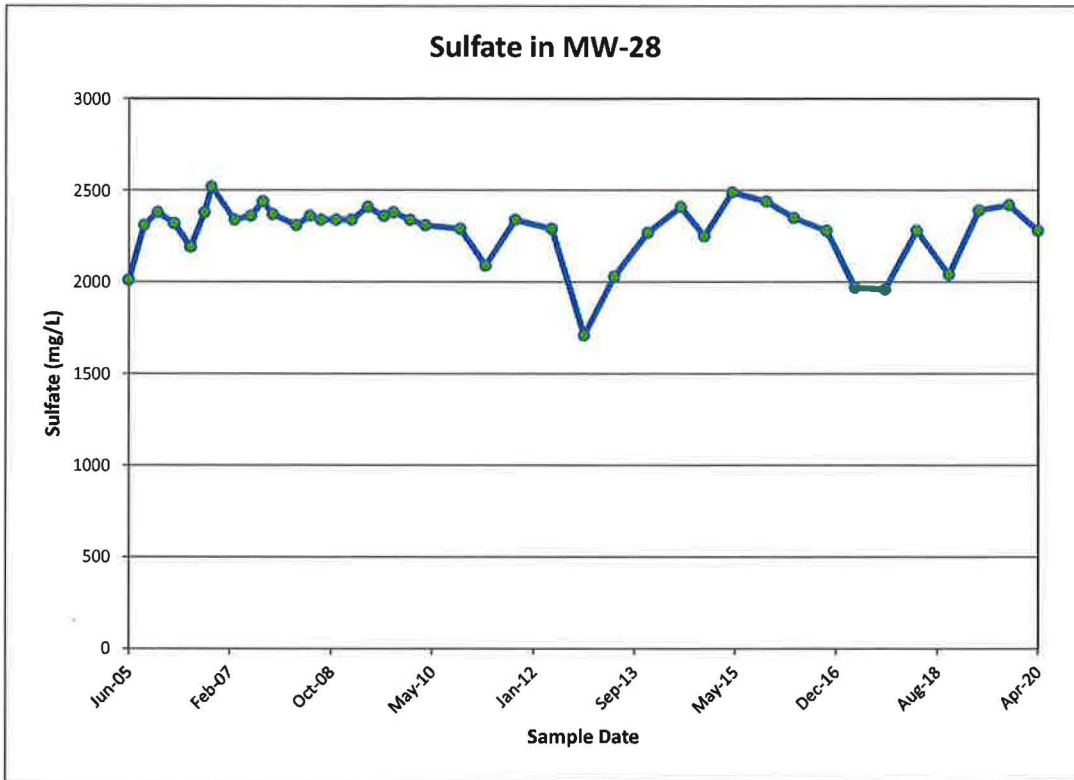
Time concentration plots for MW-27



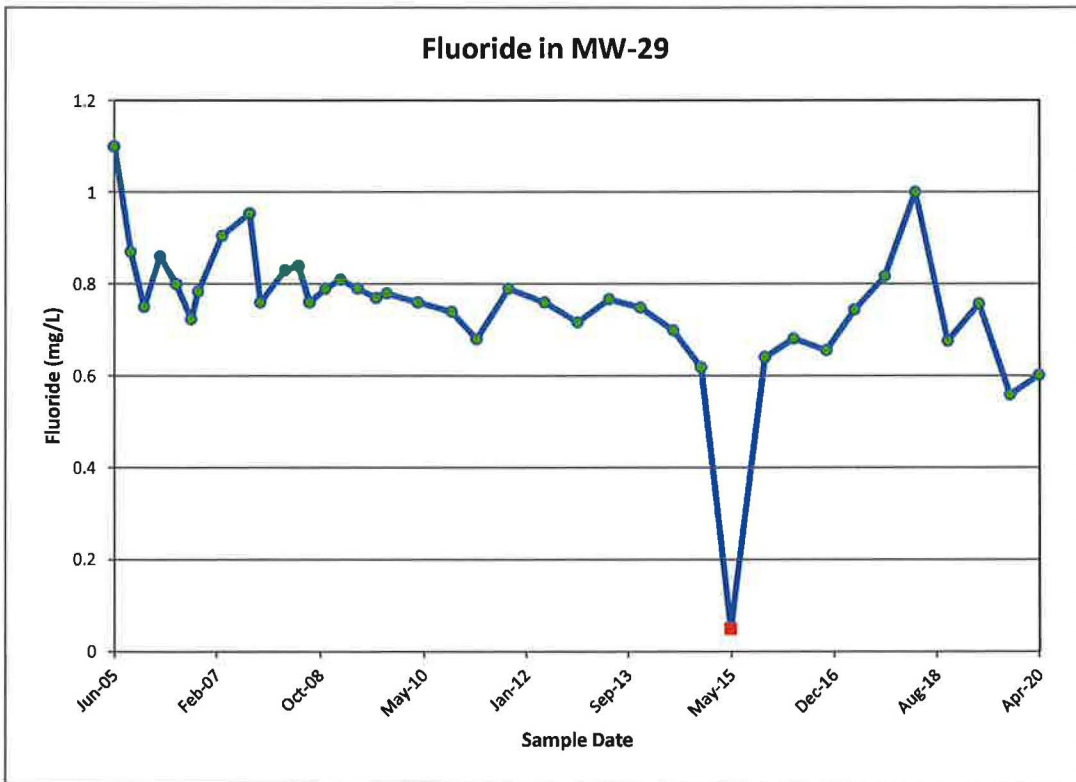
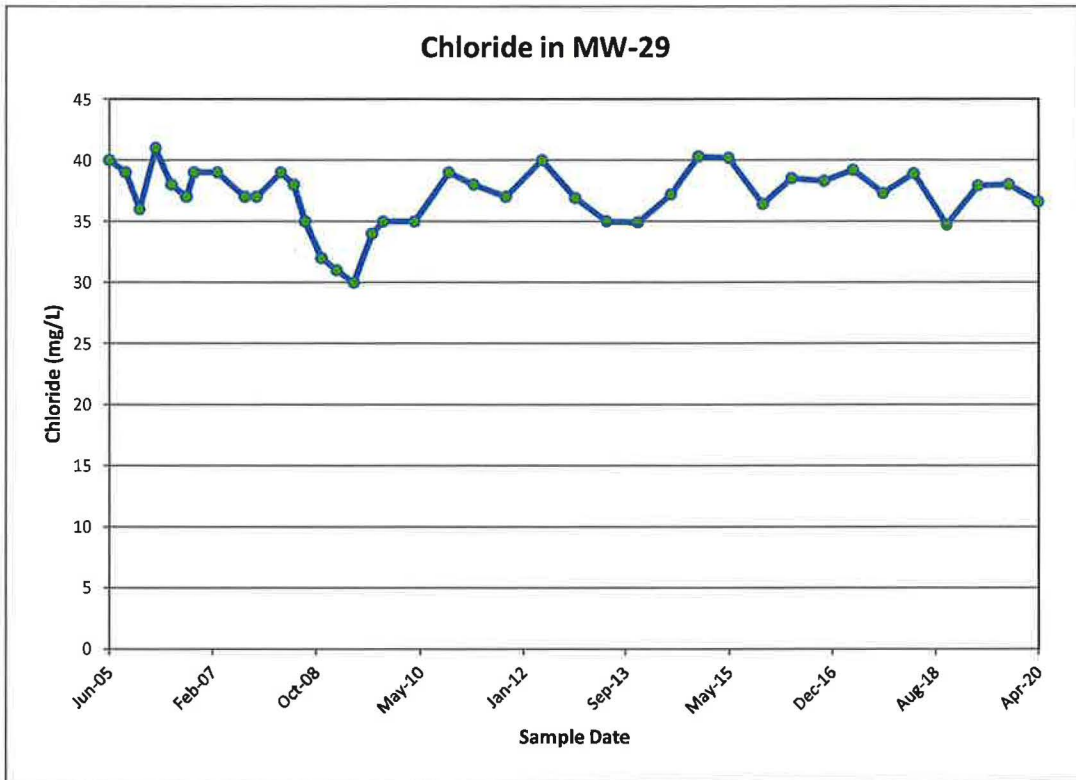
Time concentration plots for MW-28



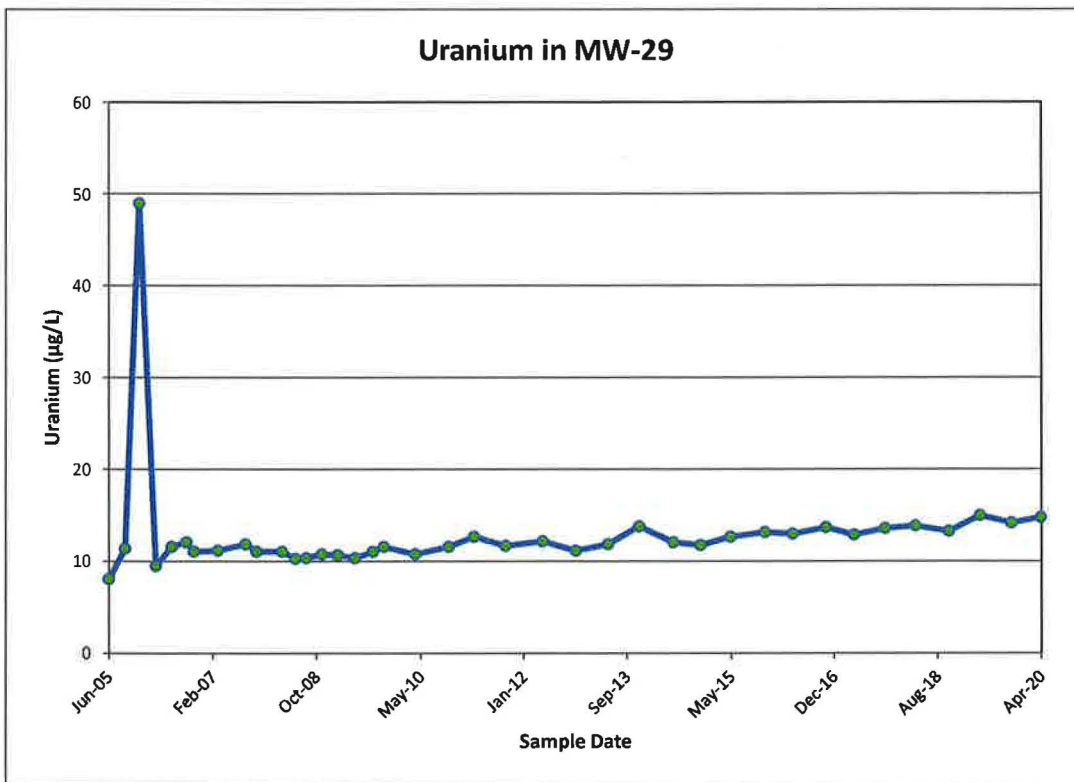
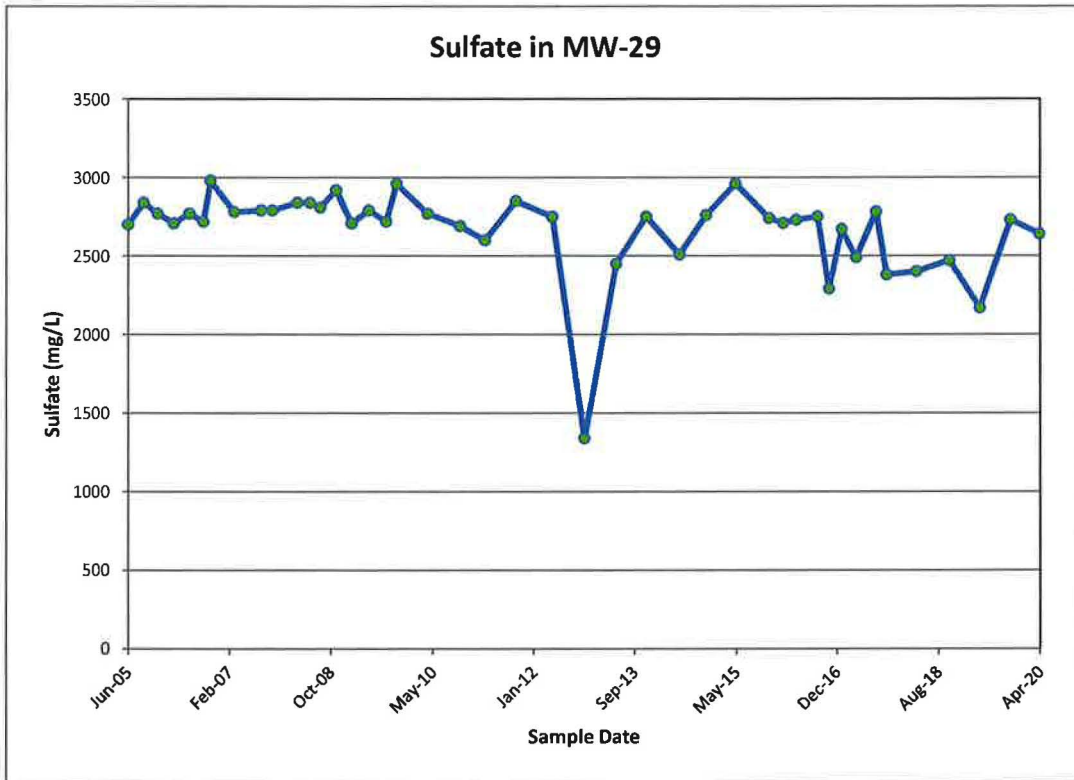
Time concentration plots for MW-28



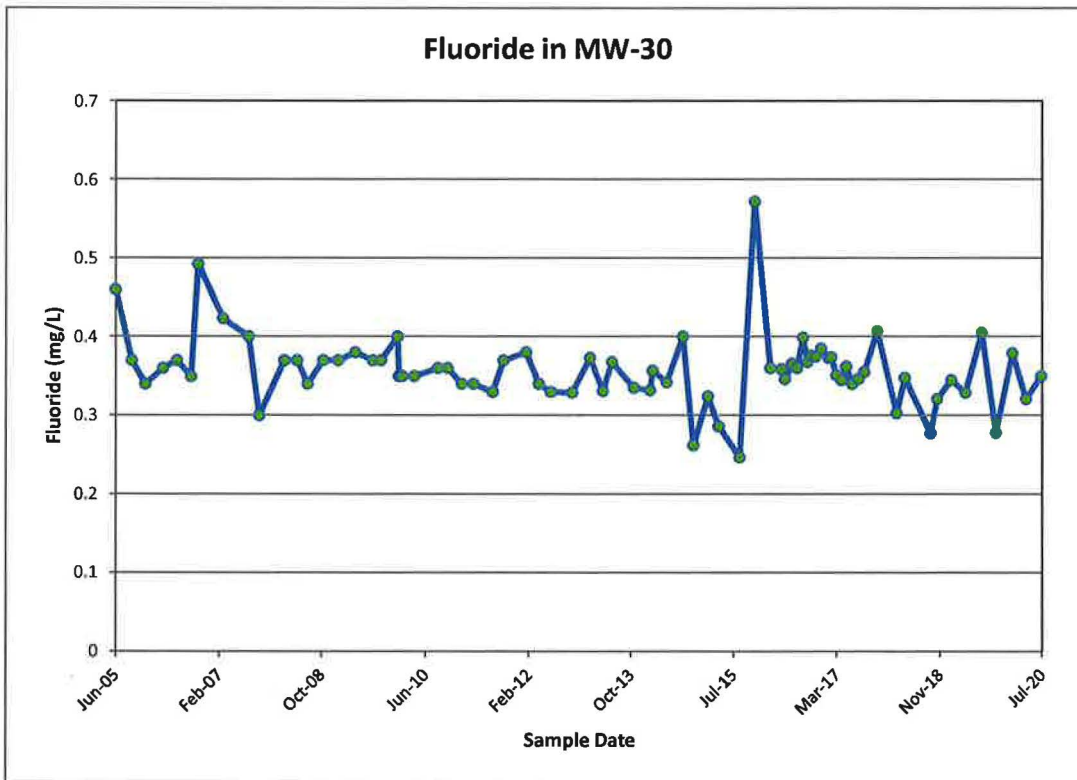
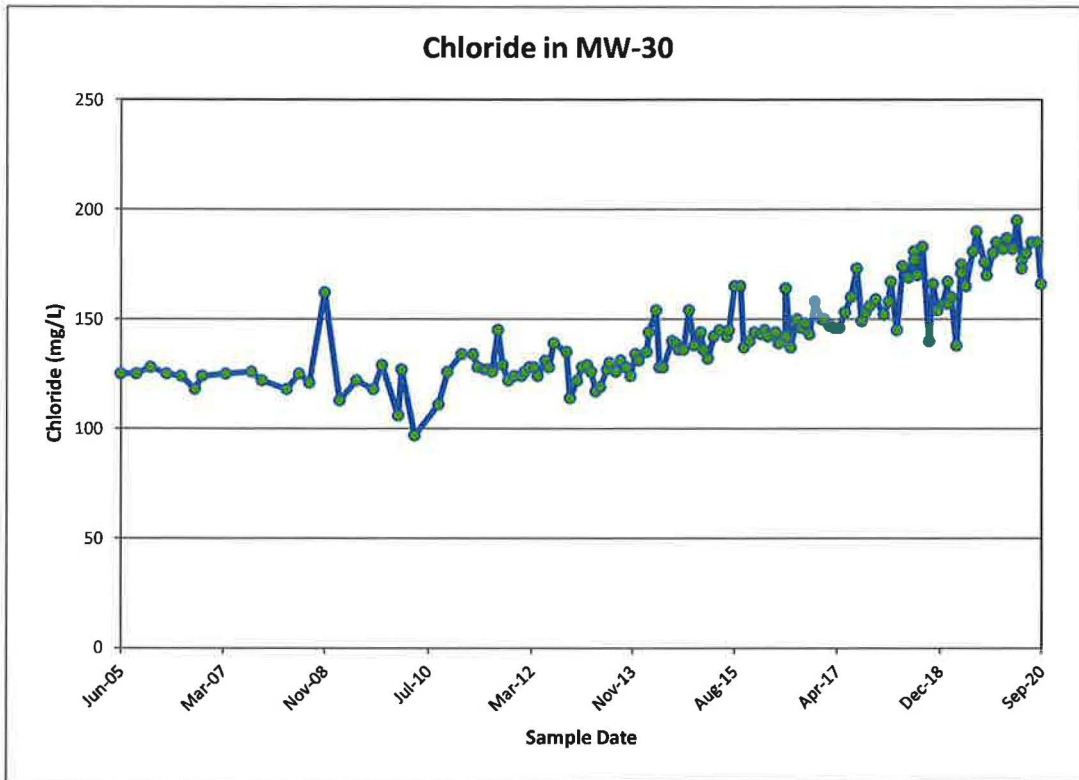
Time concentration plots for MW-29



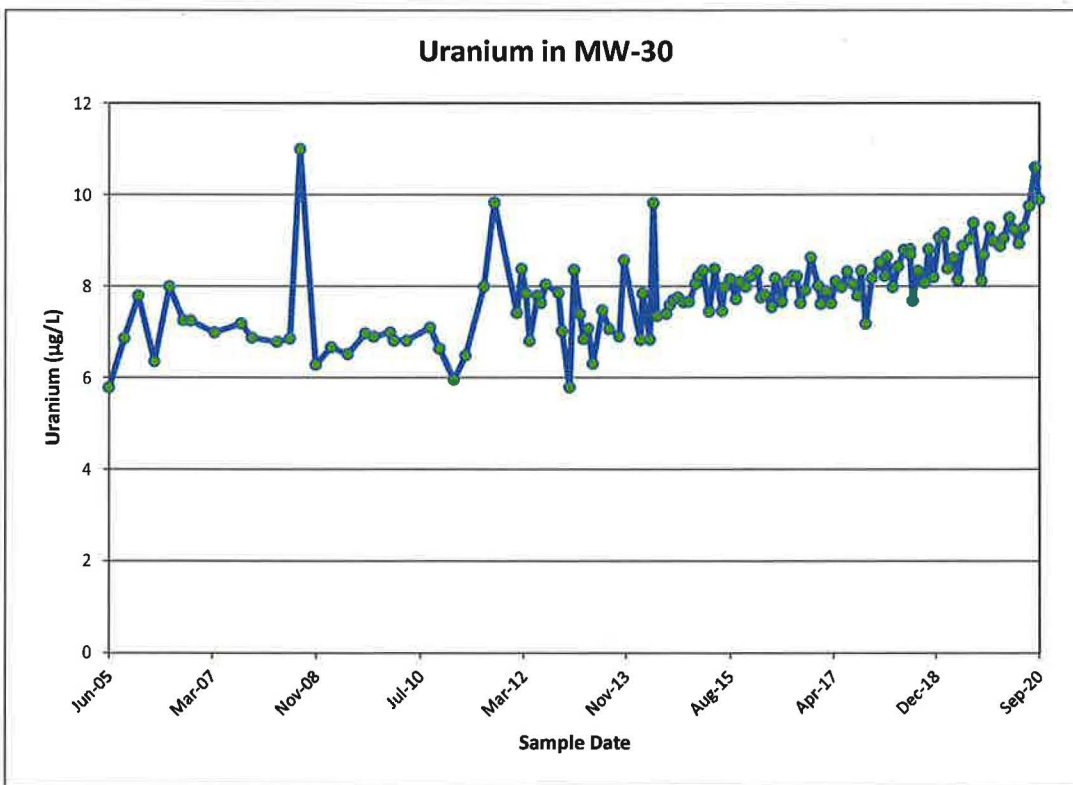
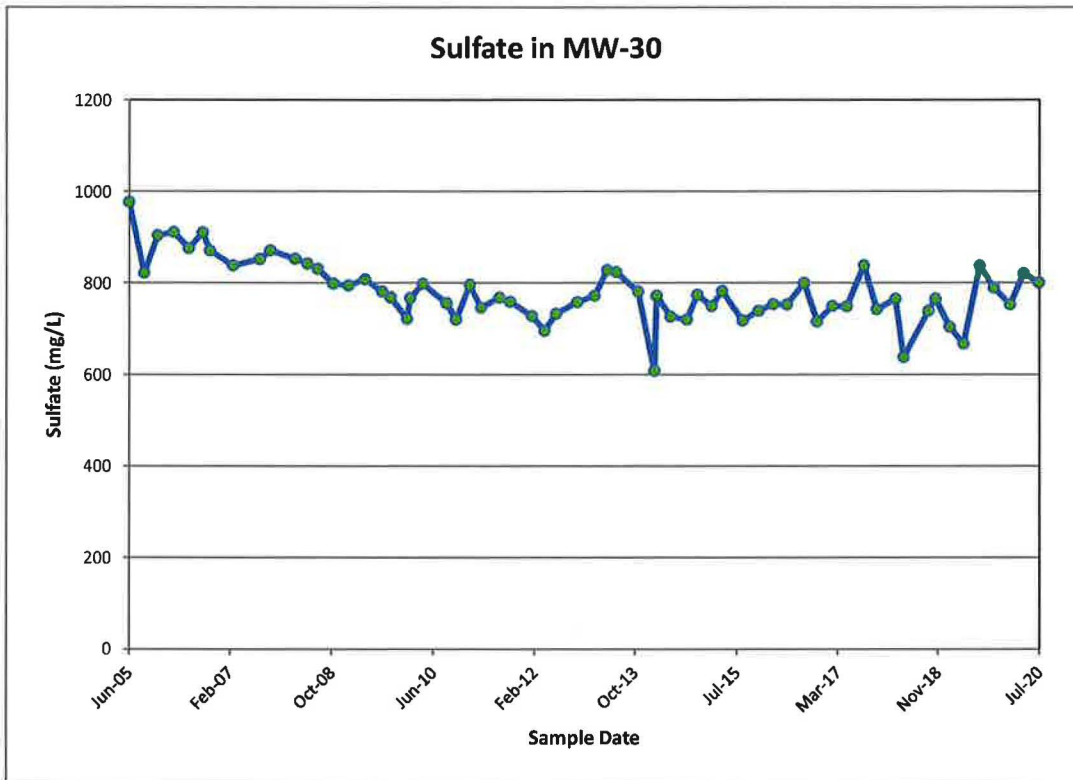
Time concentration plots for MW-29



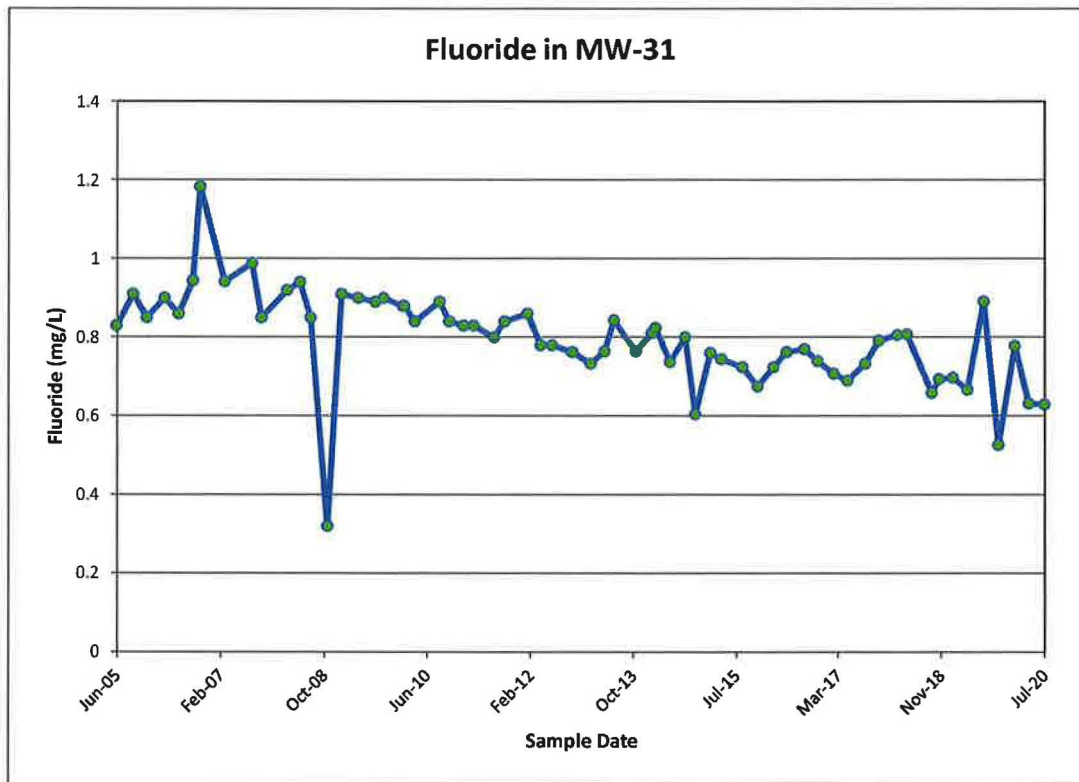
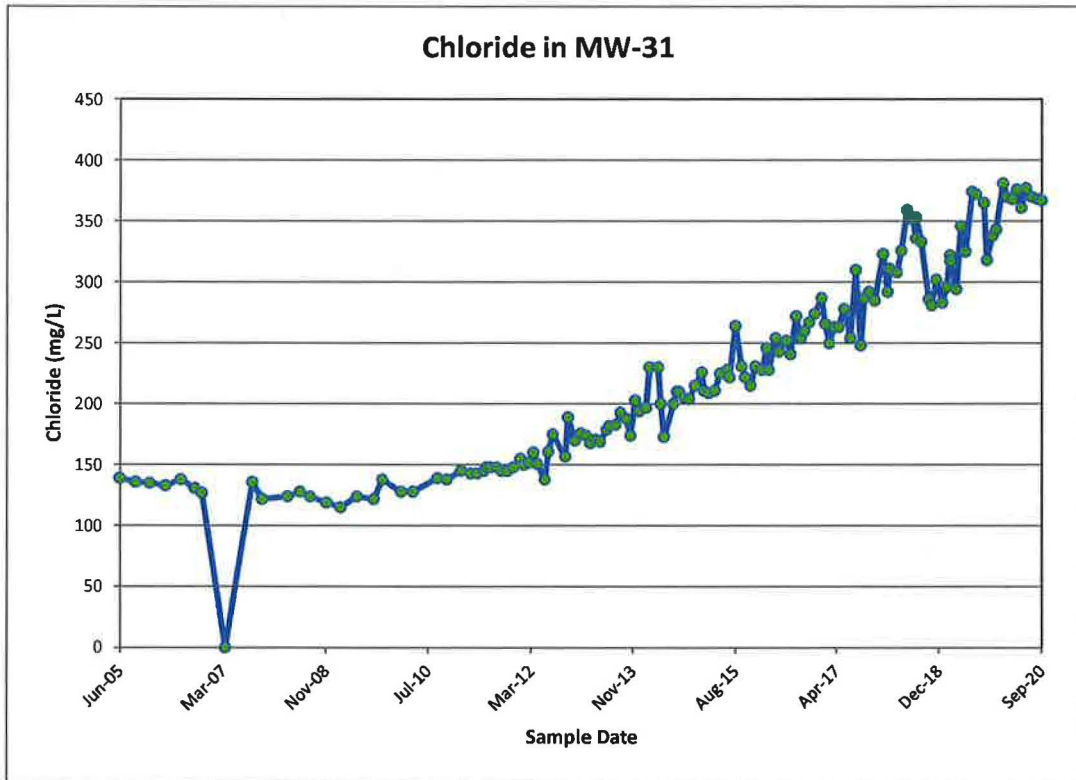
Time concentration plots for MW-30



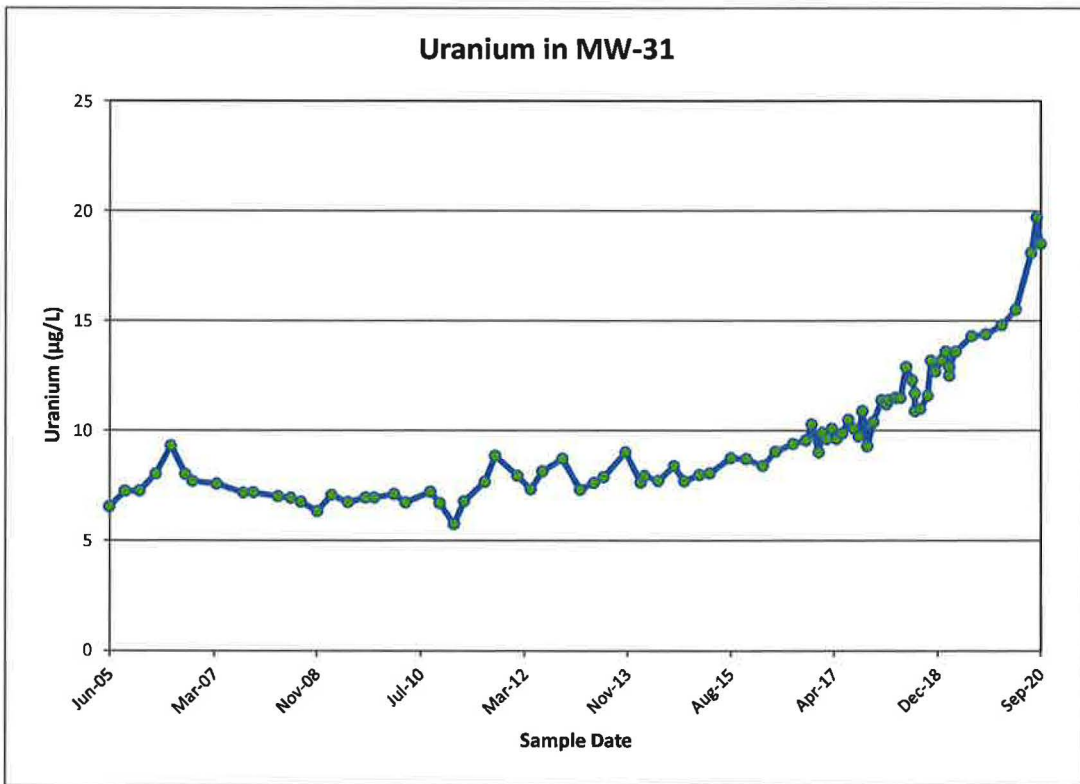
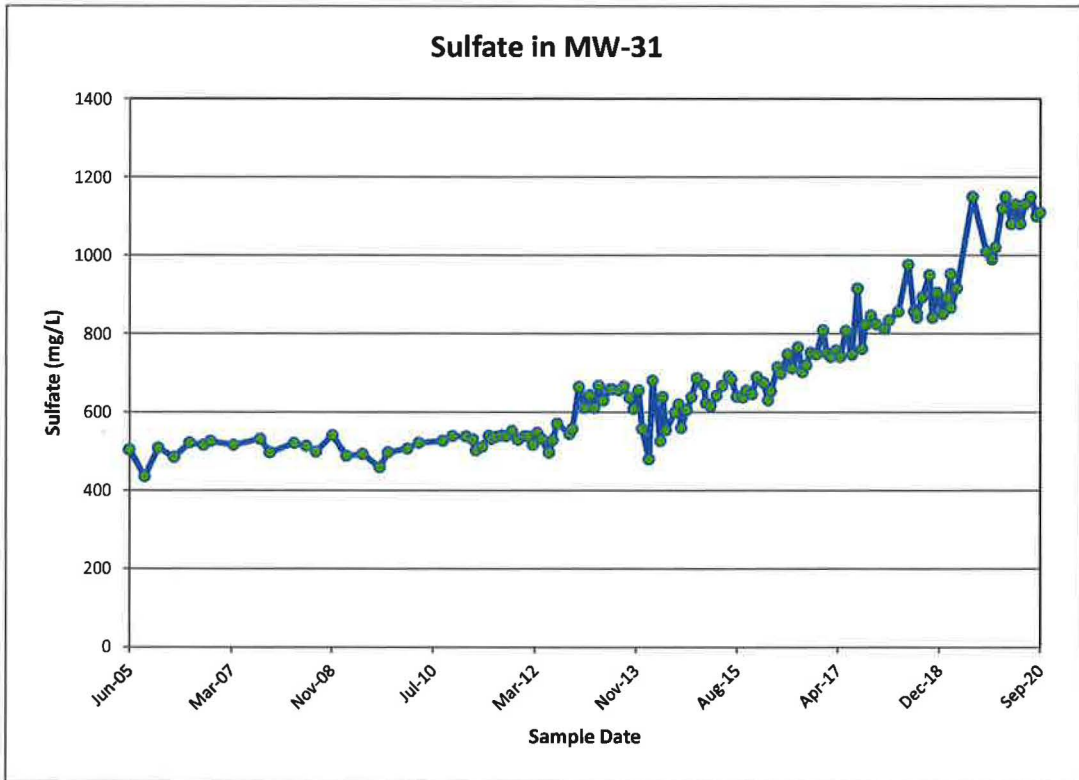
Time concentration plots for MW-30



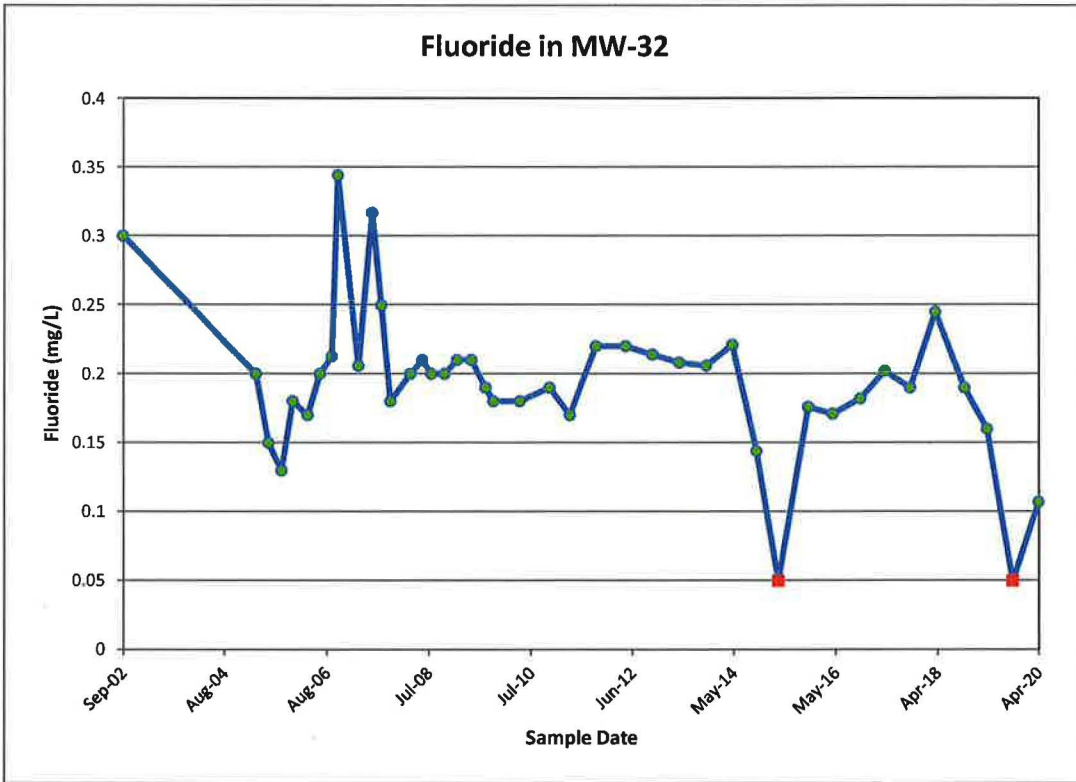
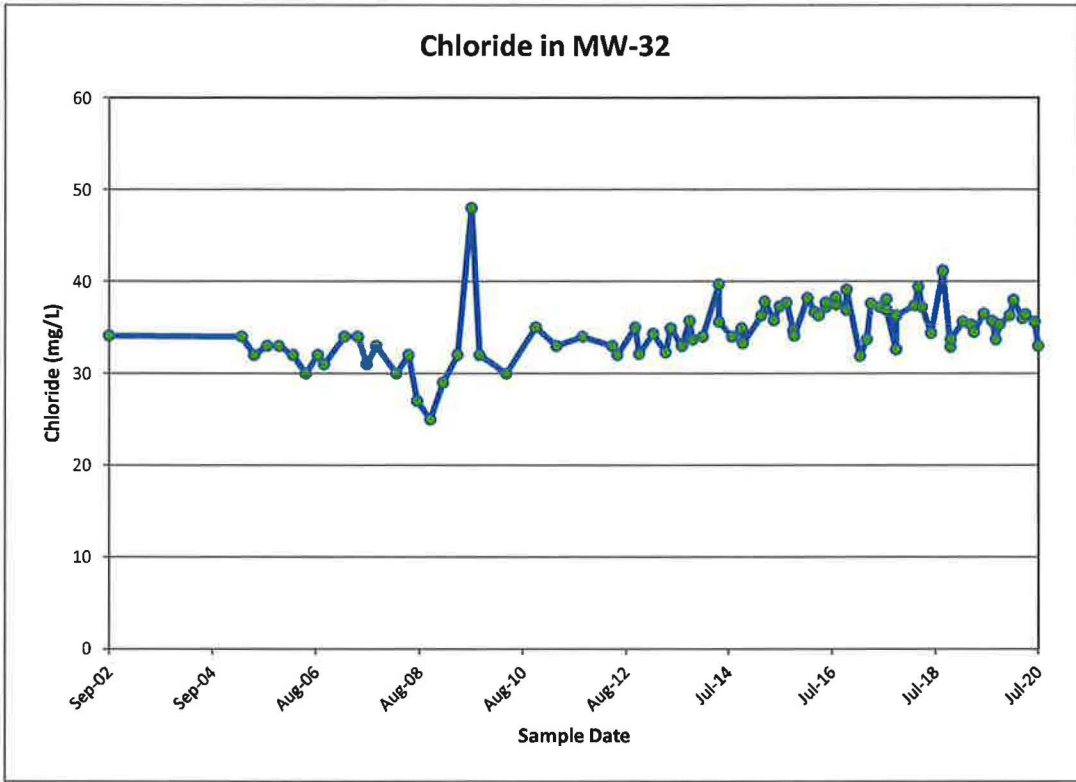
Time concentration plots for MW-31



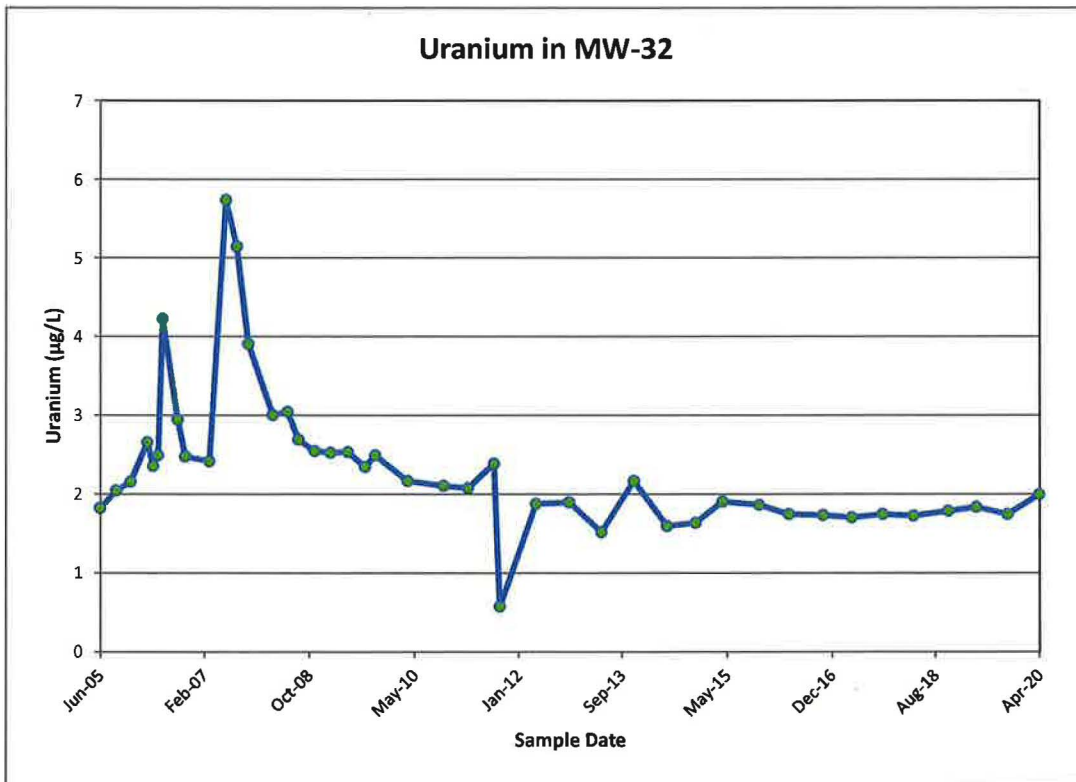
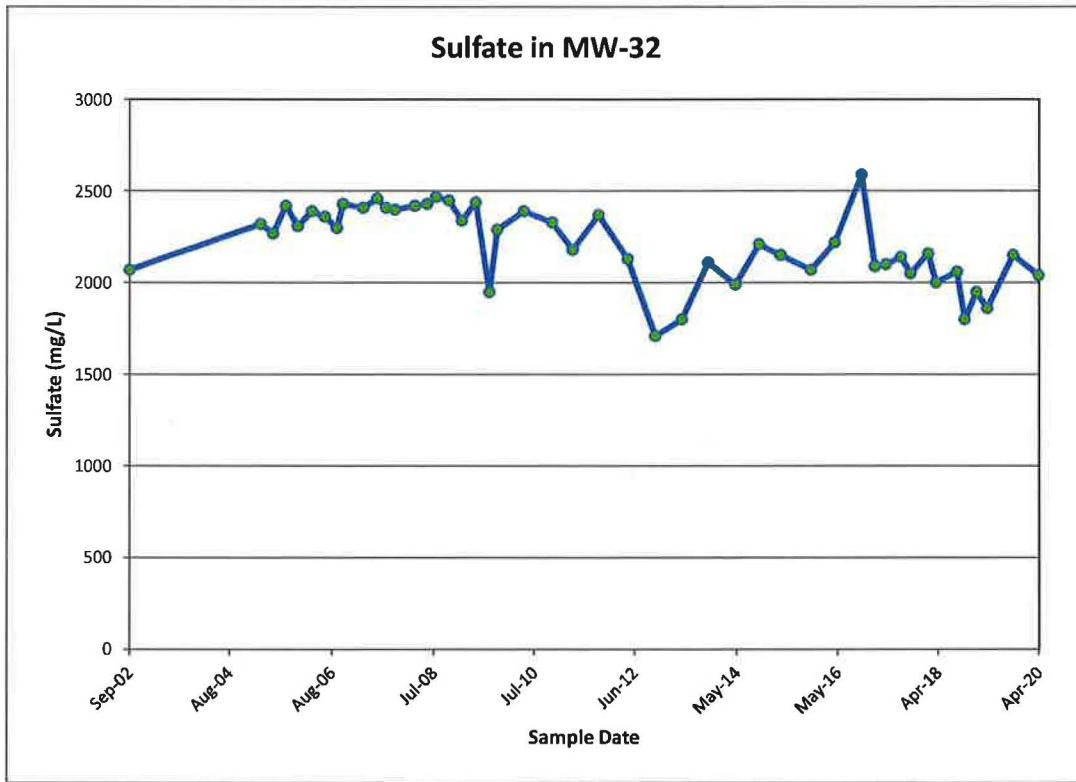
Time concentration plots for MW-31



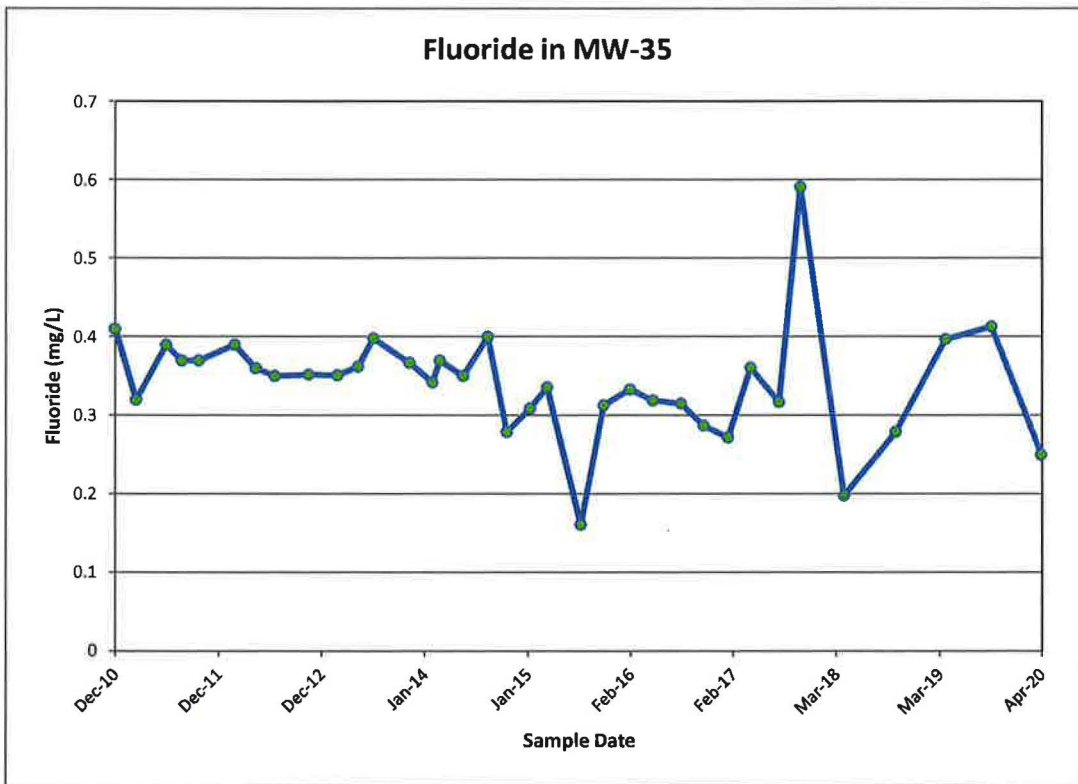
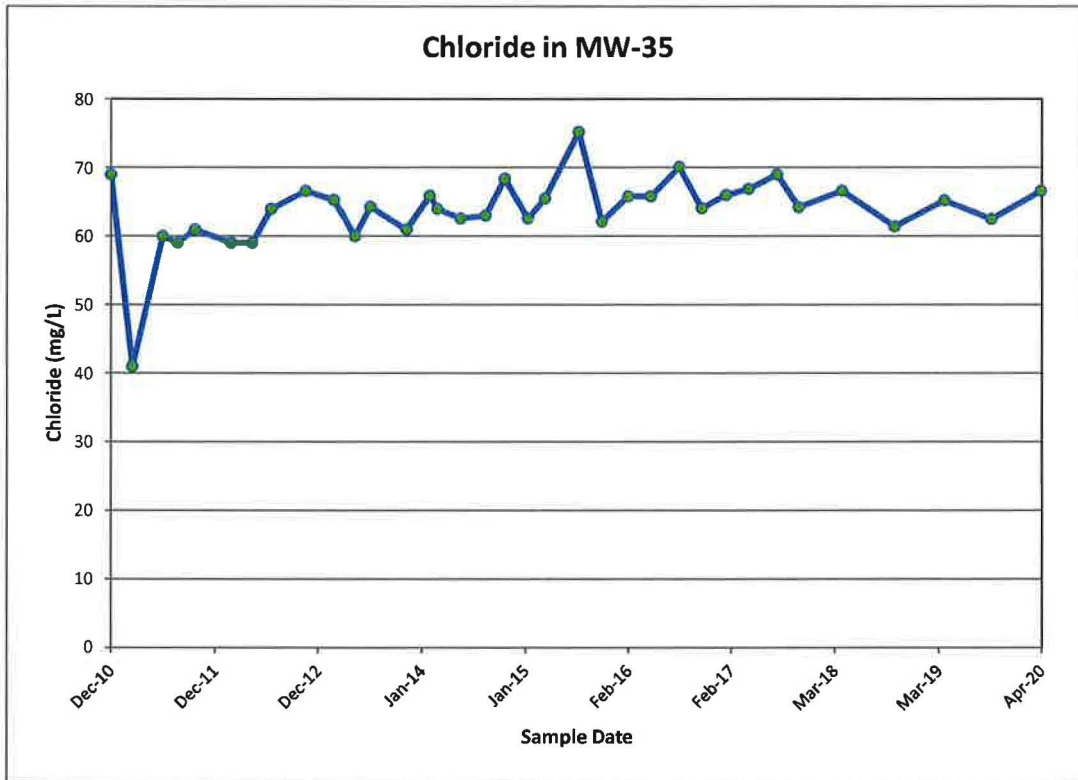
Time concentration plots for MW-32



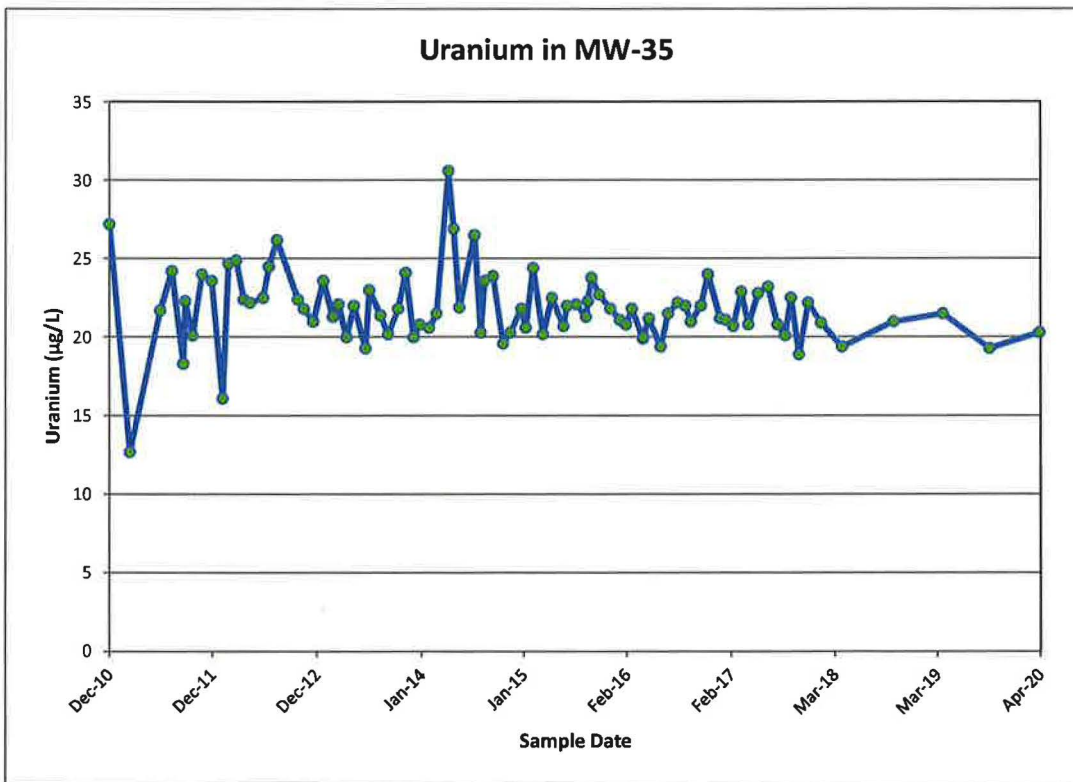
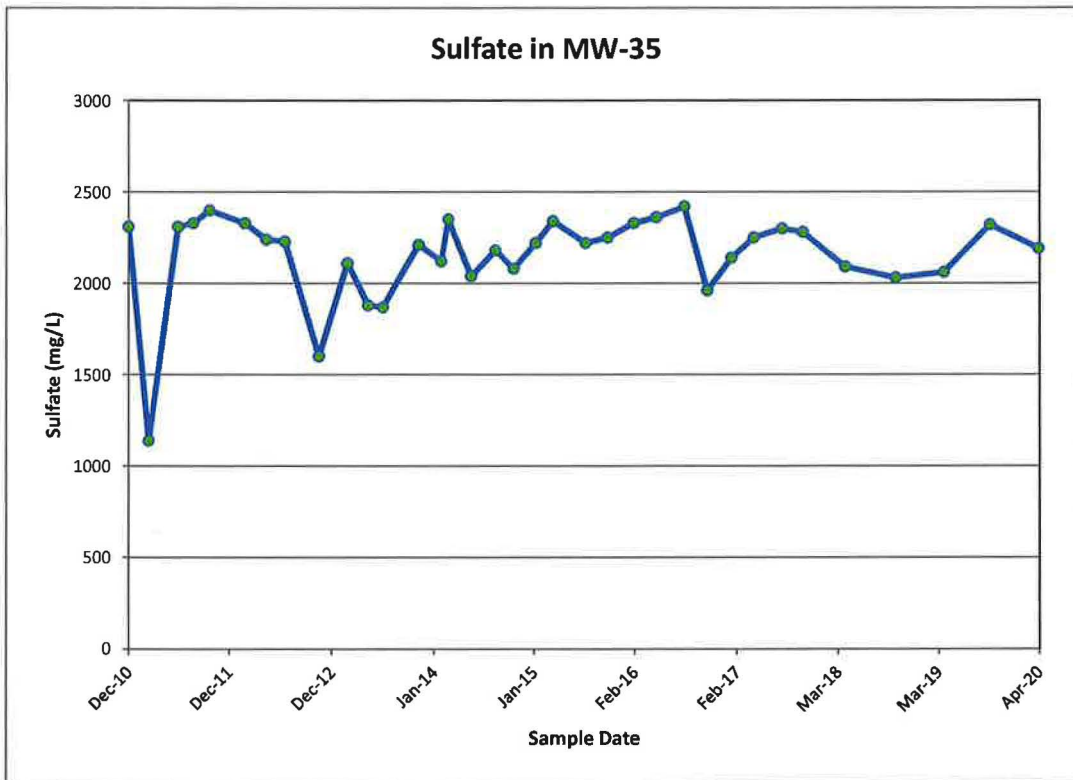
Time concentration plots for MW-32



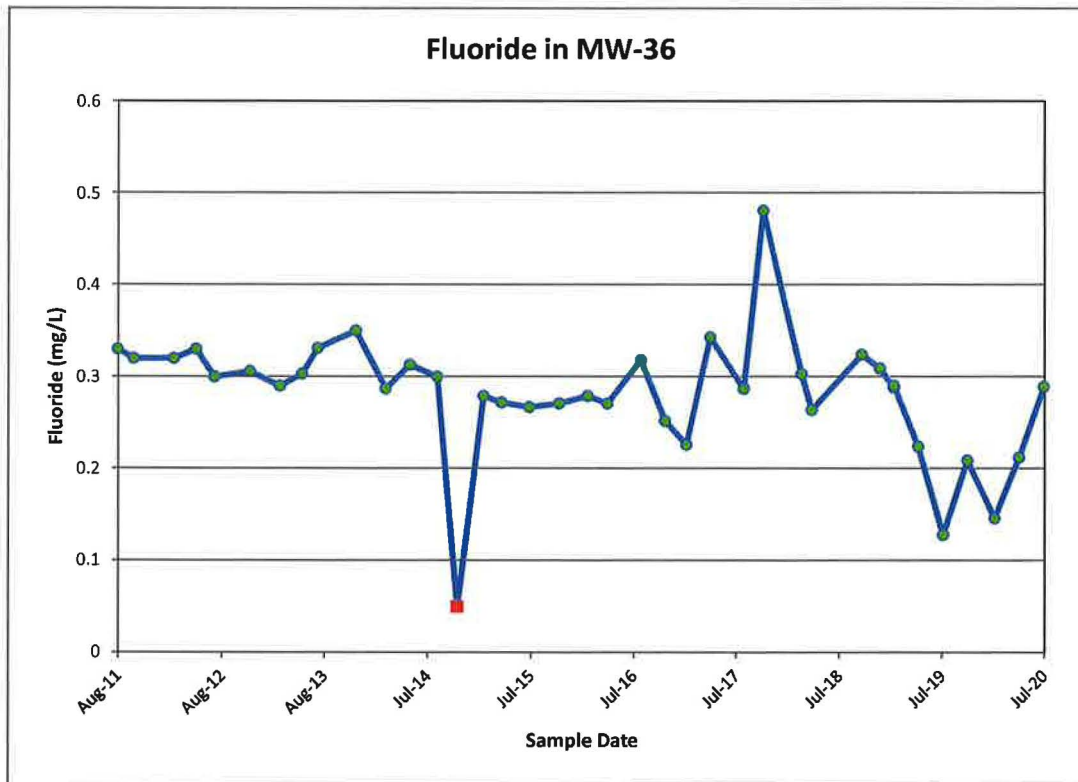
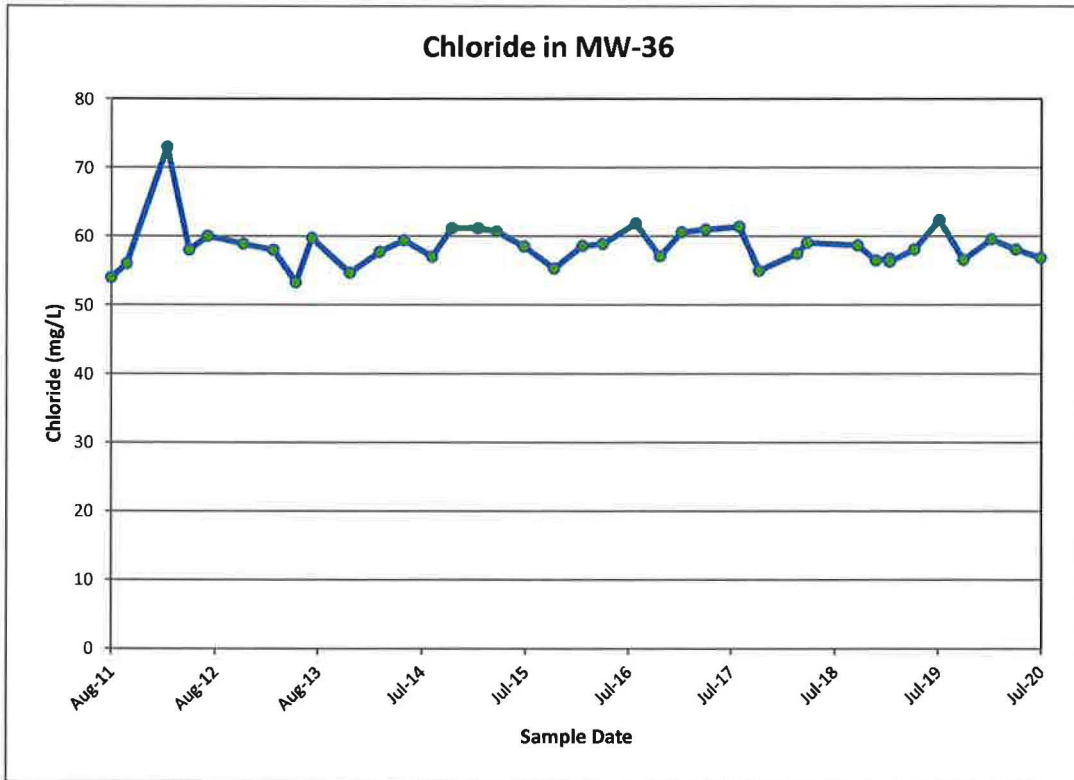
Time concentration plots for MW-35



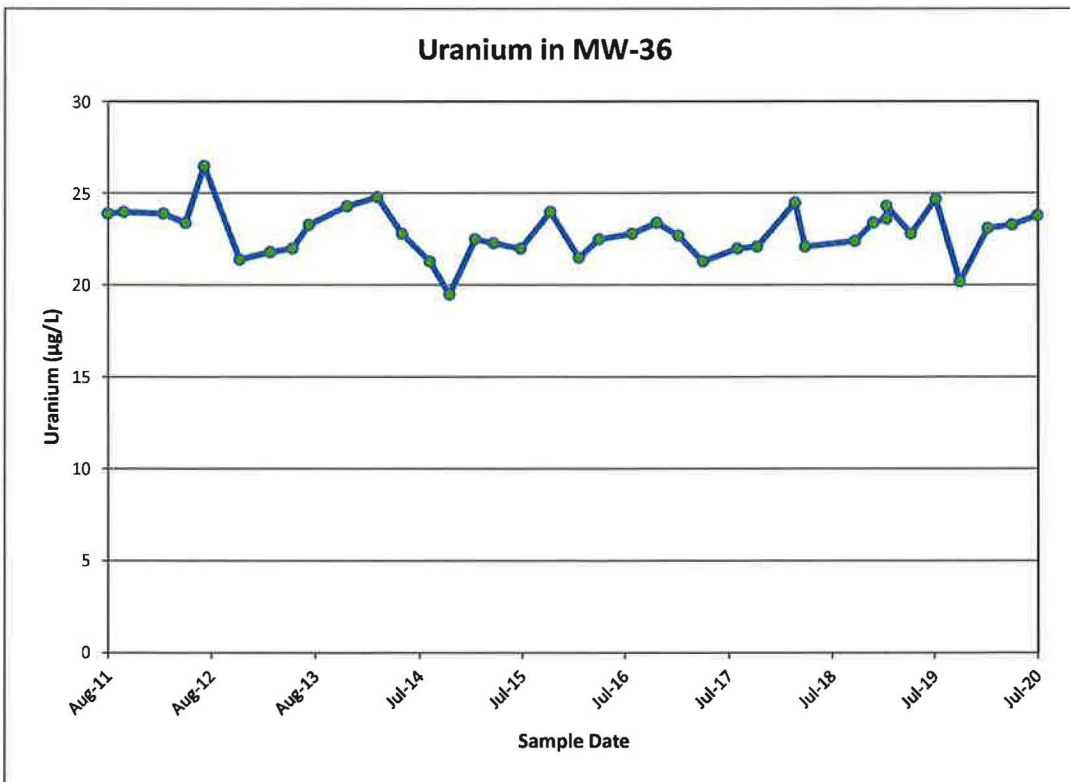
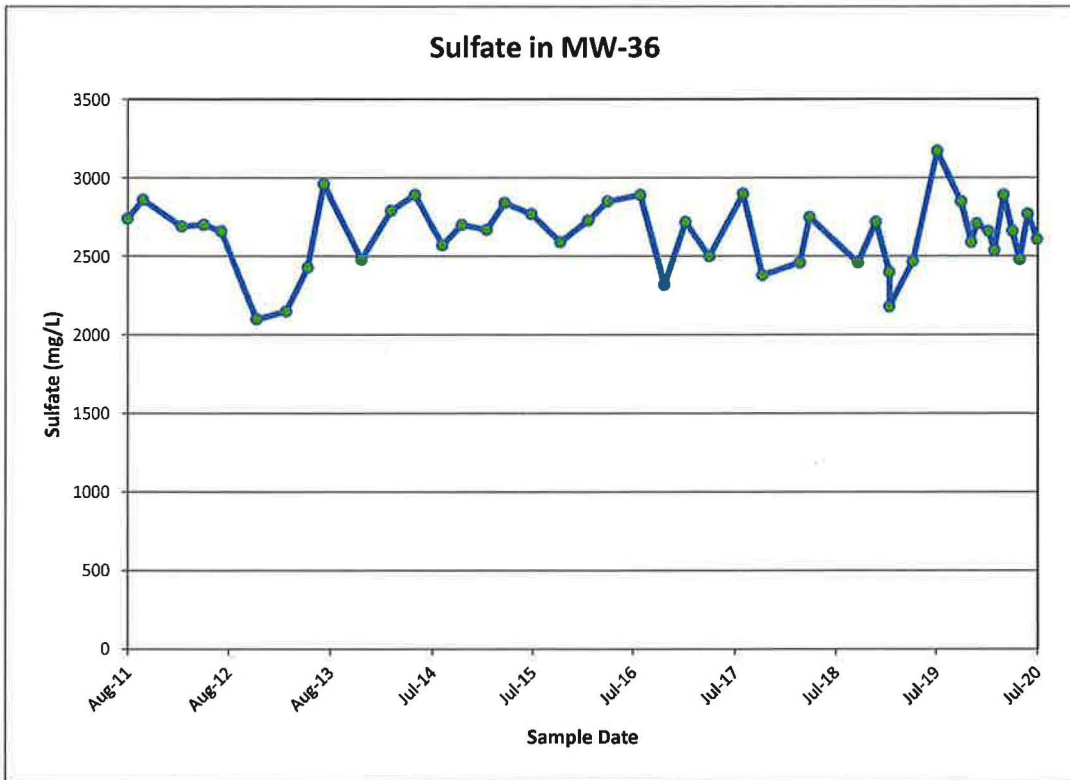
Time concentration plots for MW-35



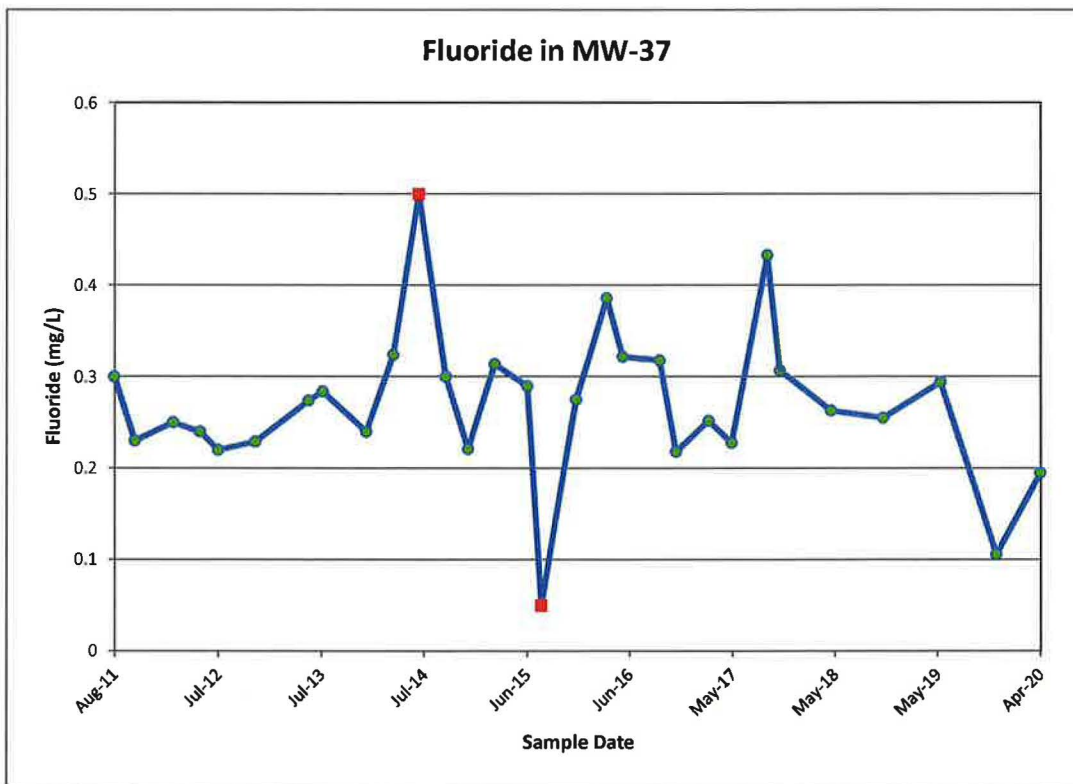
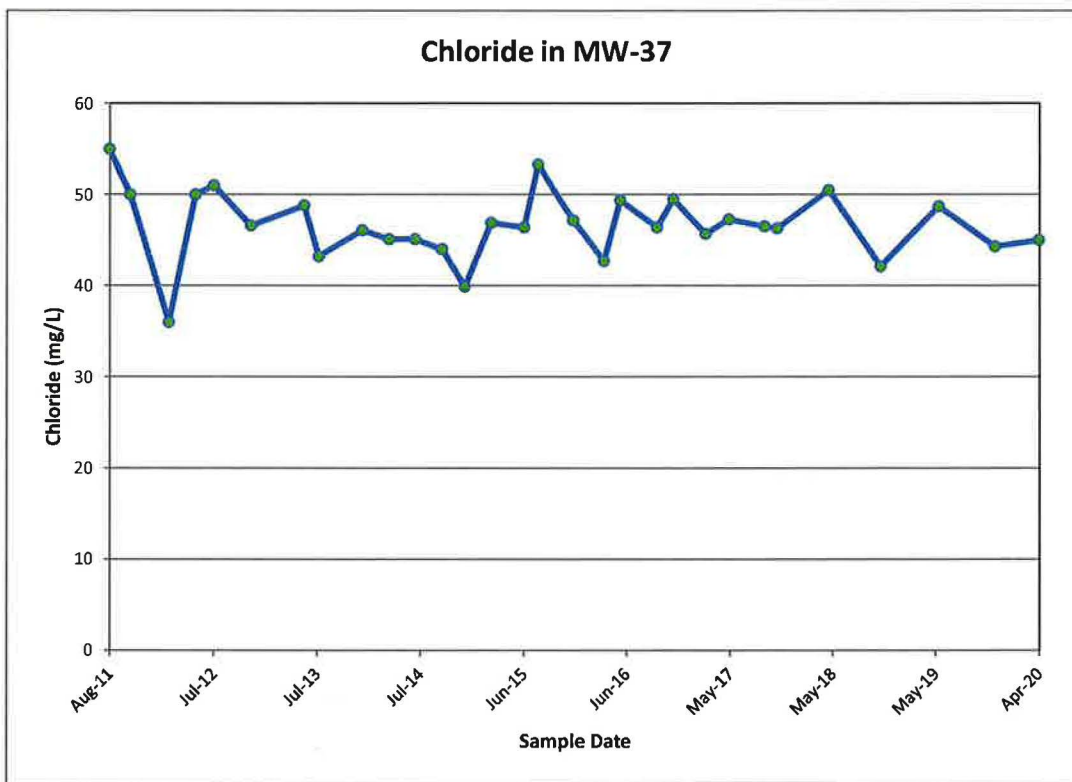
Time concentration plots for MW-36



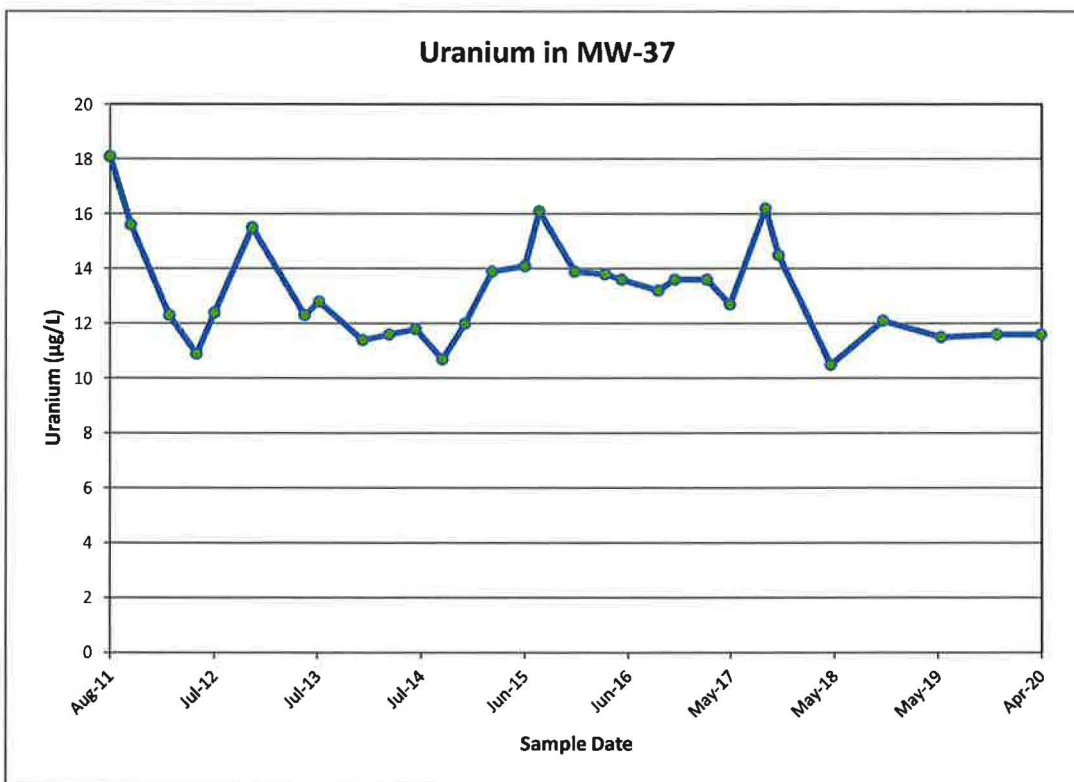
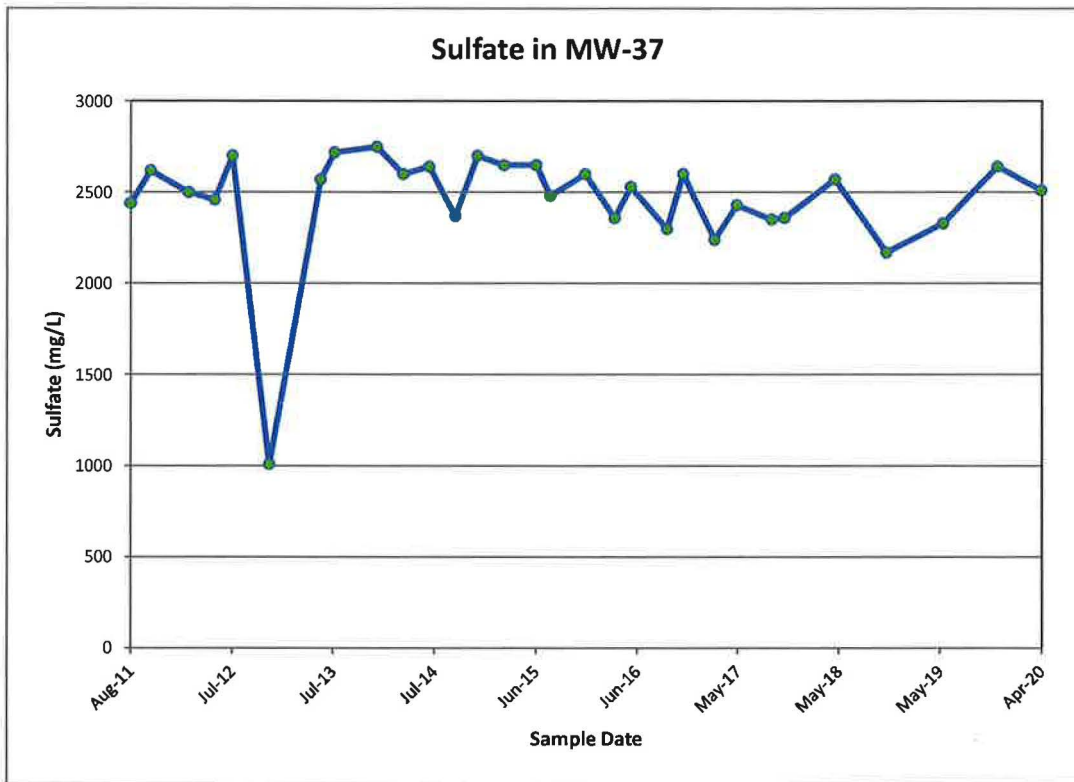
Time concentration plots for MW-36



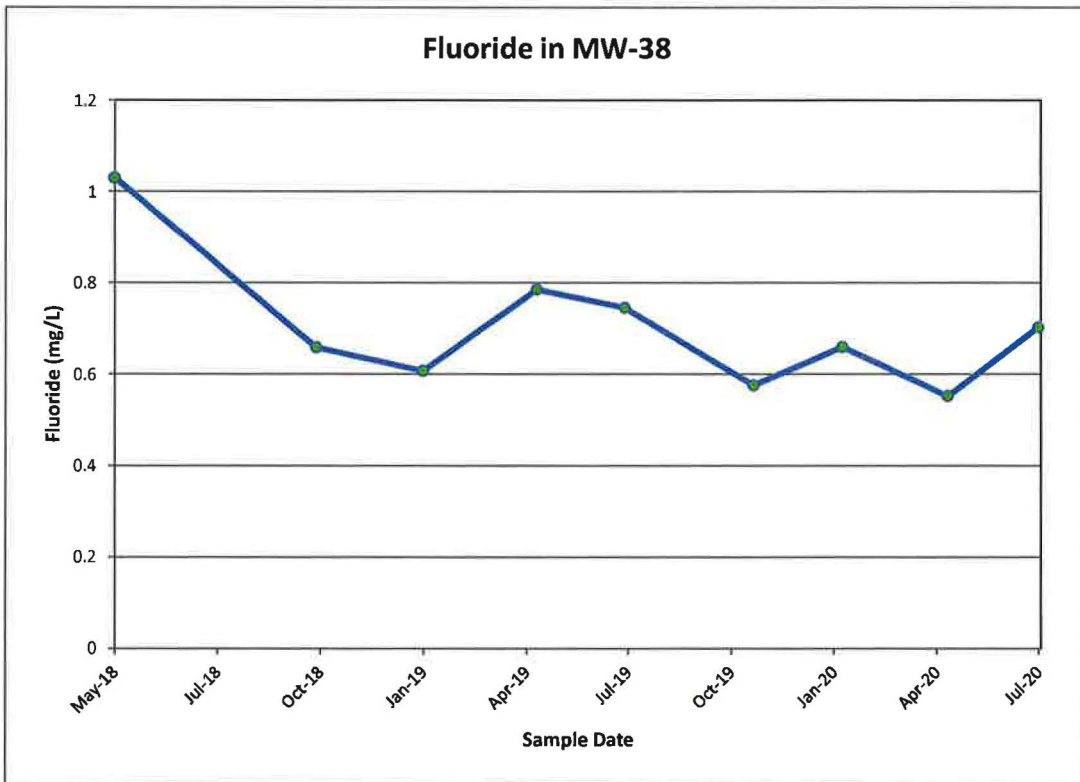
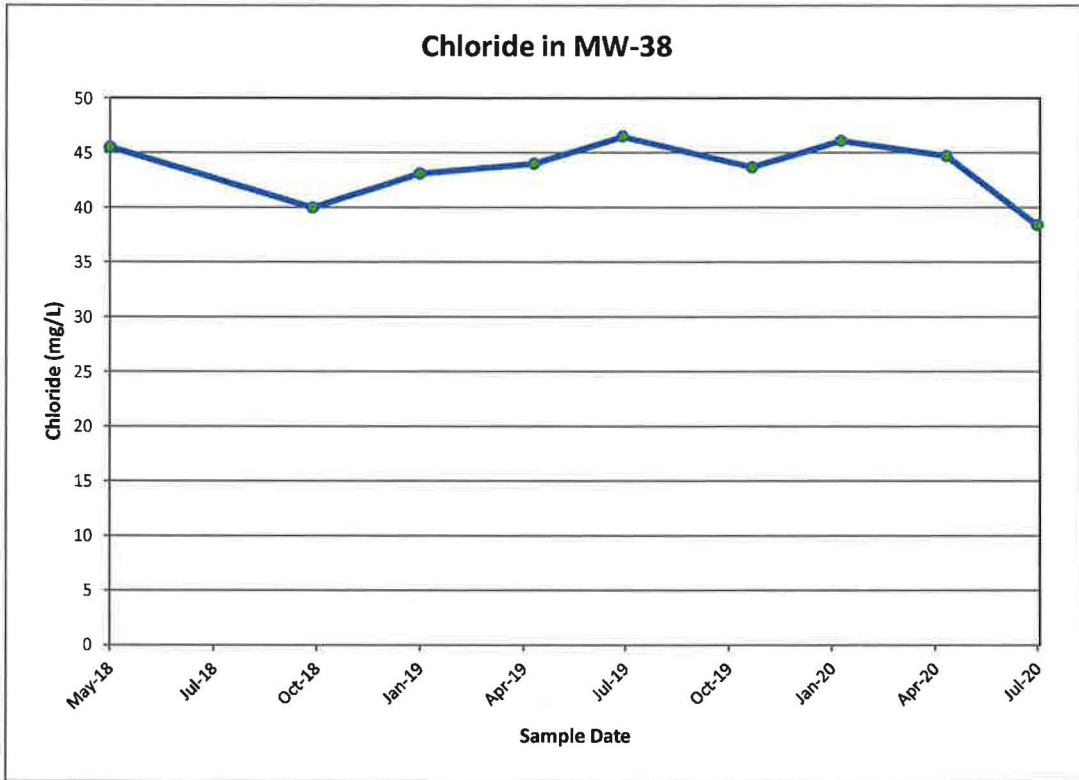
Time concentration plots for MW-37



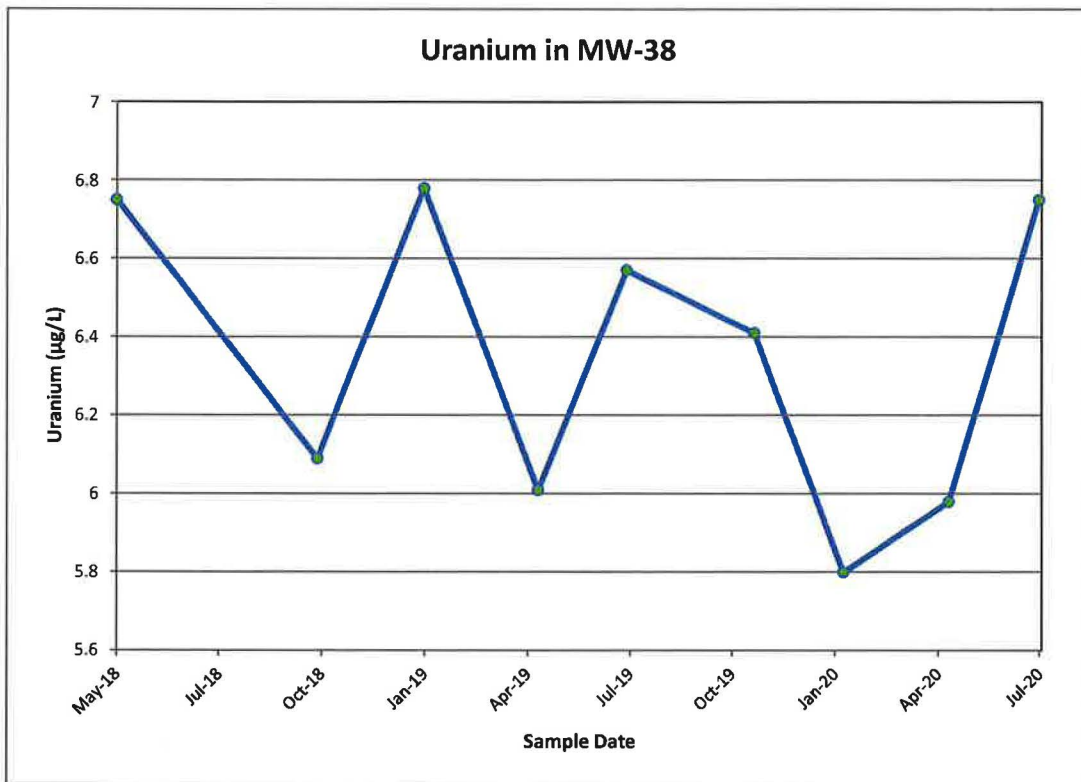
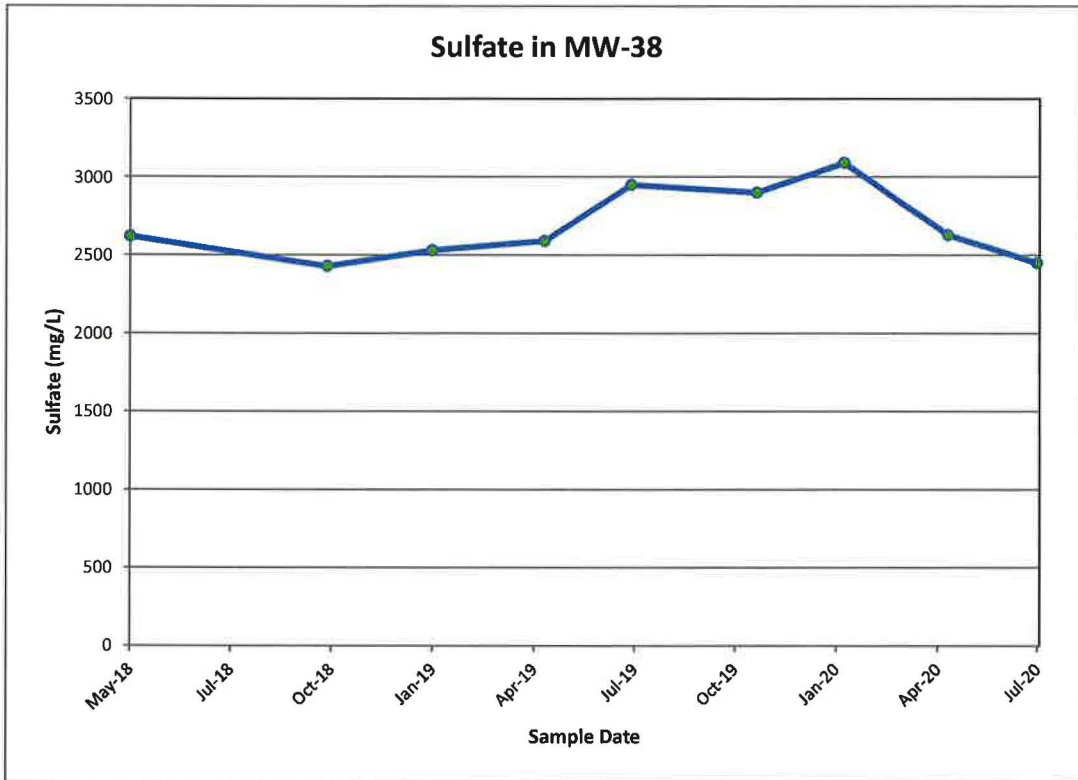
Time concentration plots for MW-37



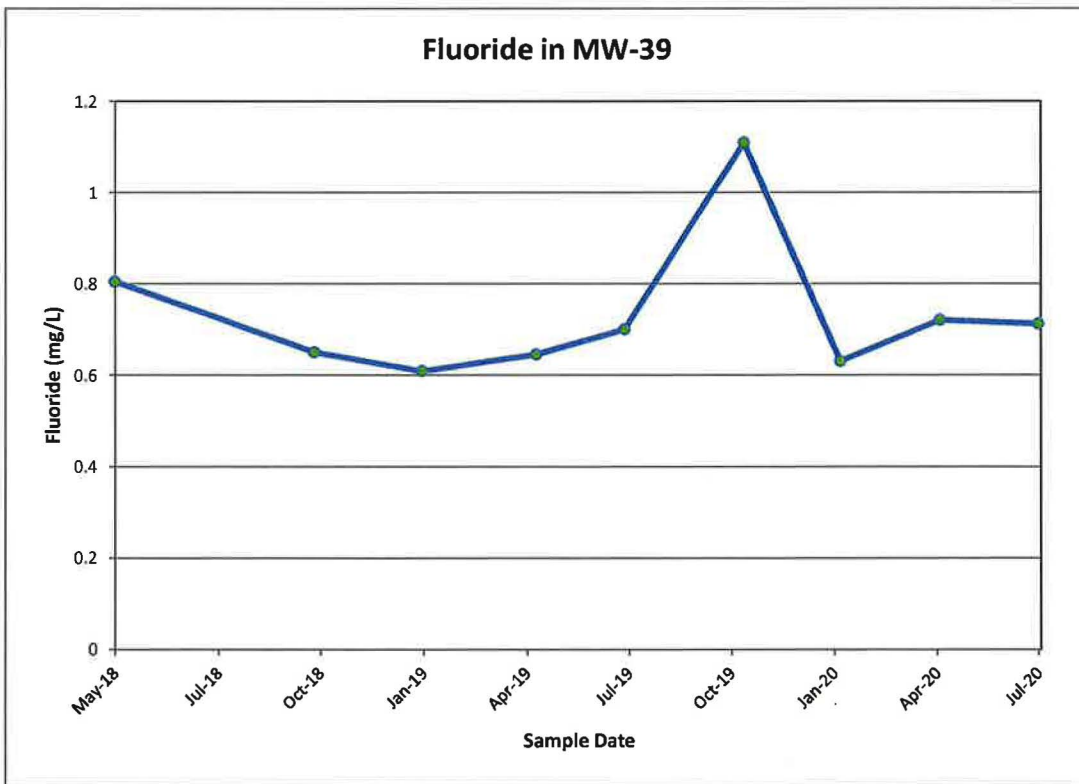
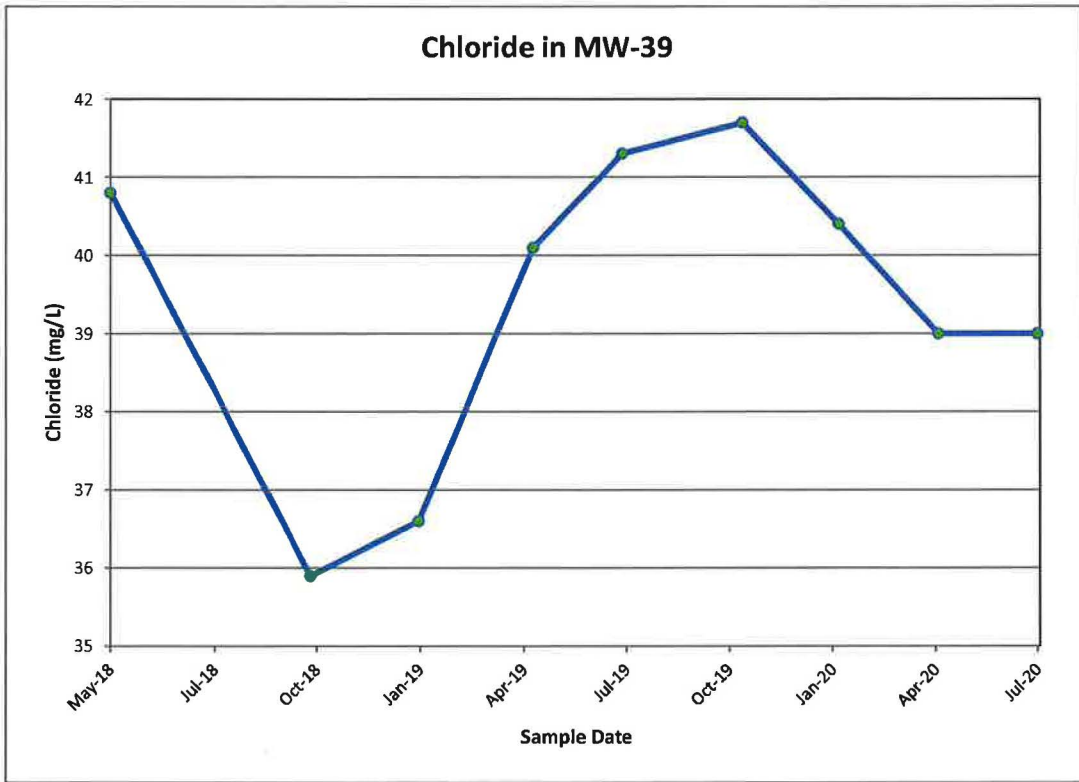
Time concentration plots for MW-38



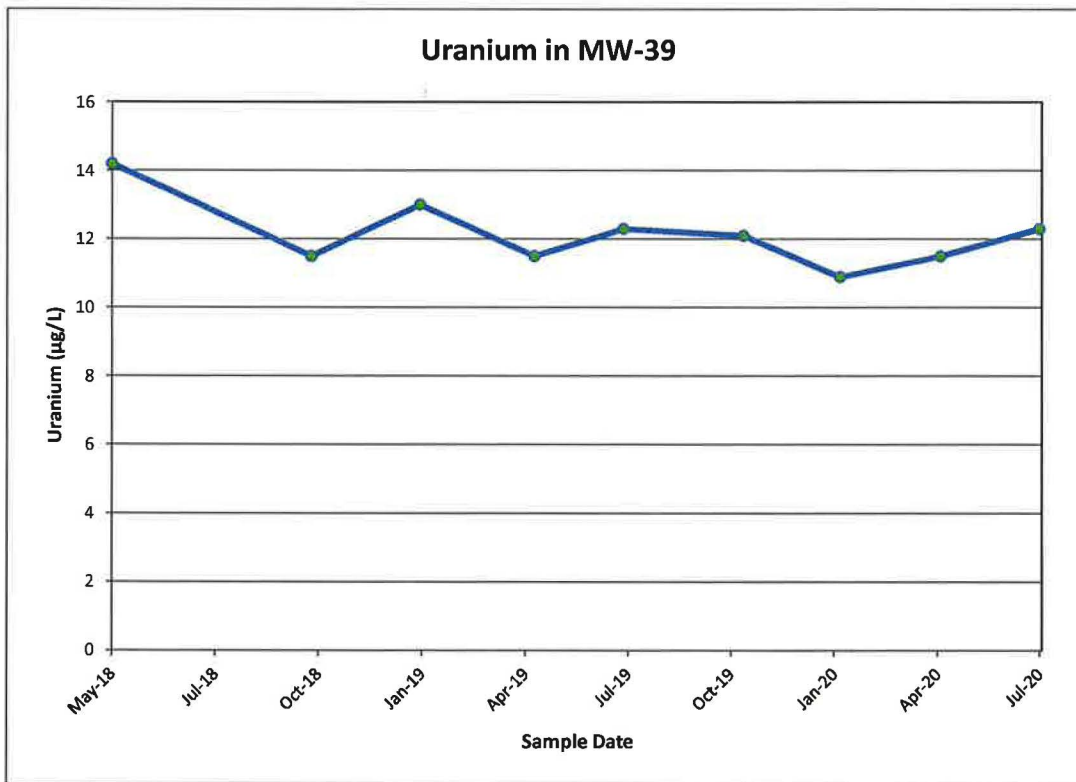
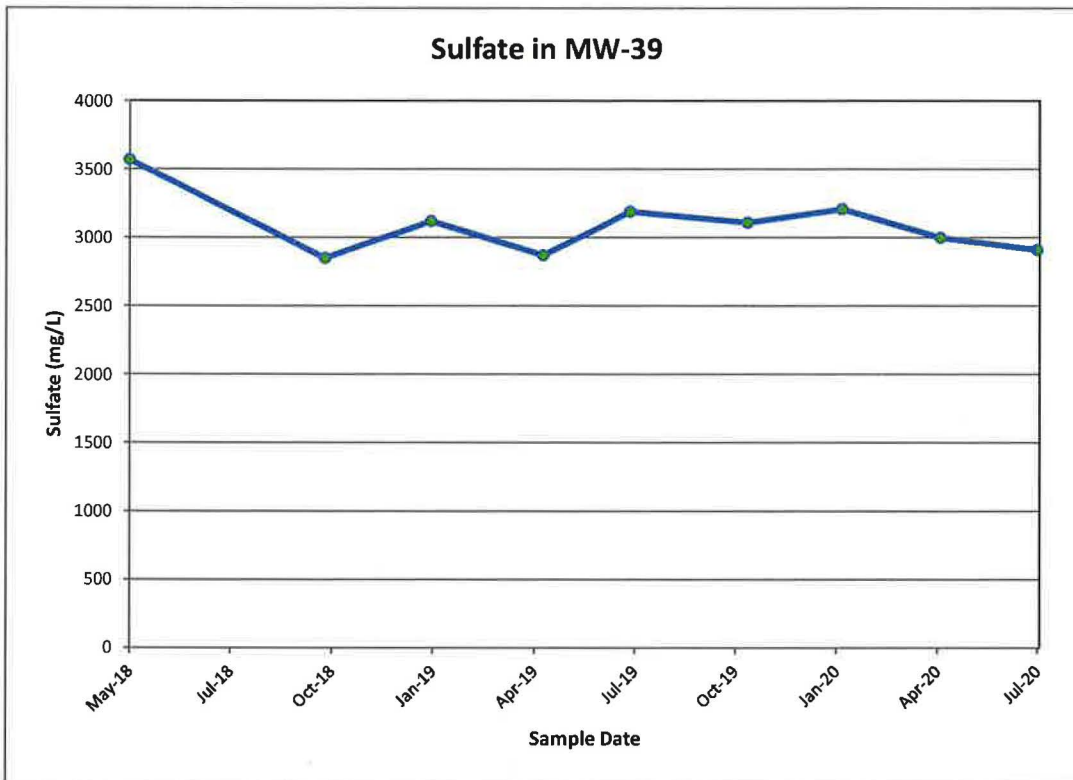
Time concentration plots for MW-38



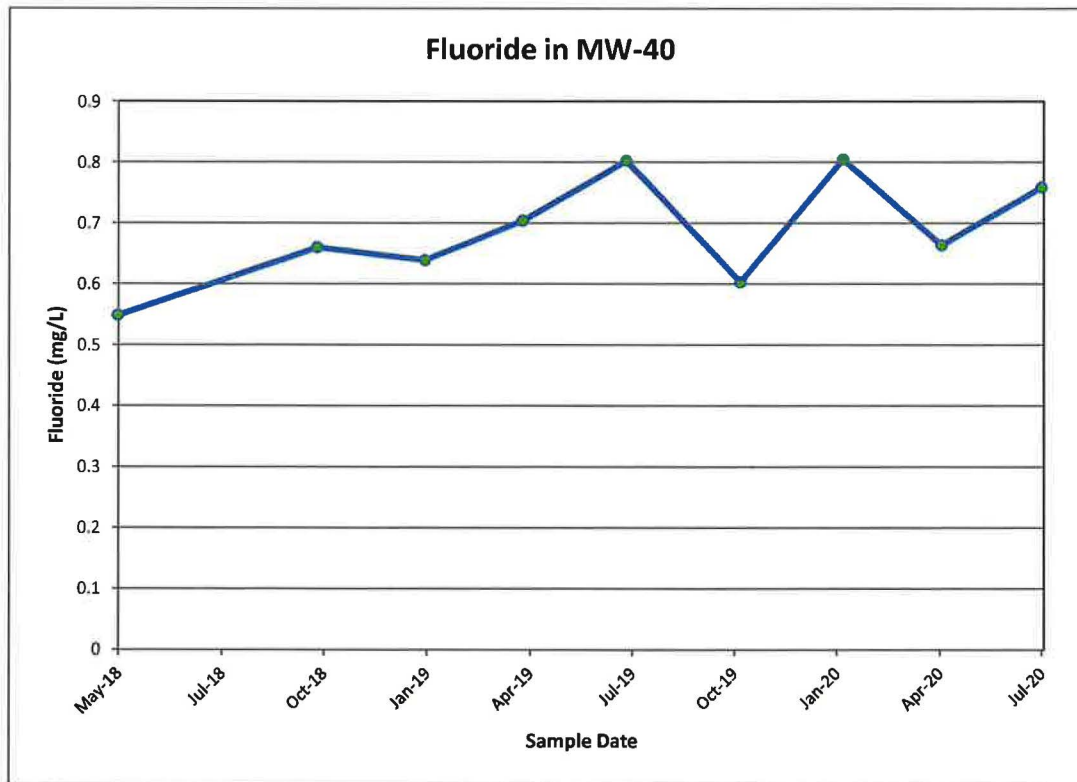
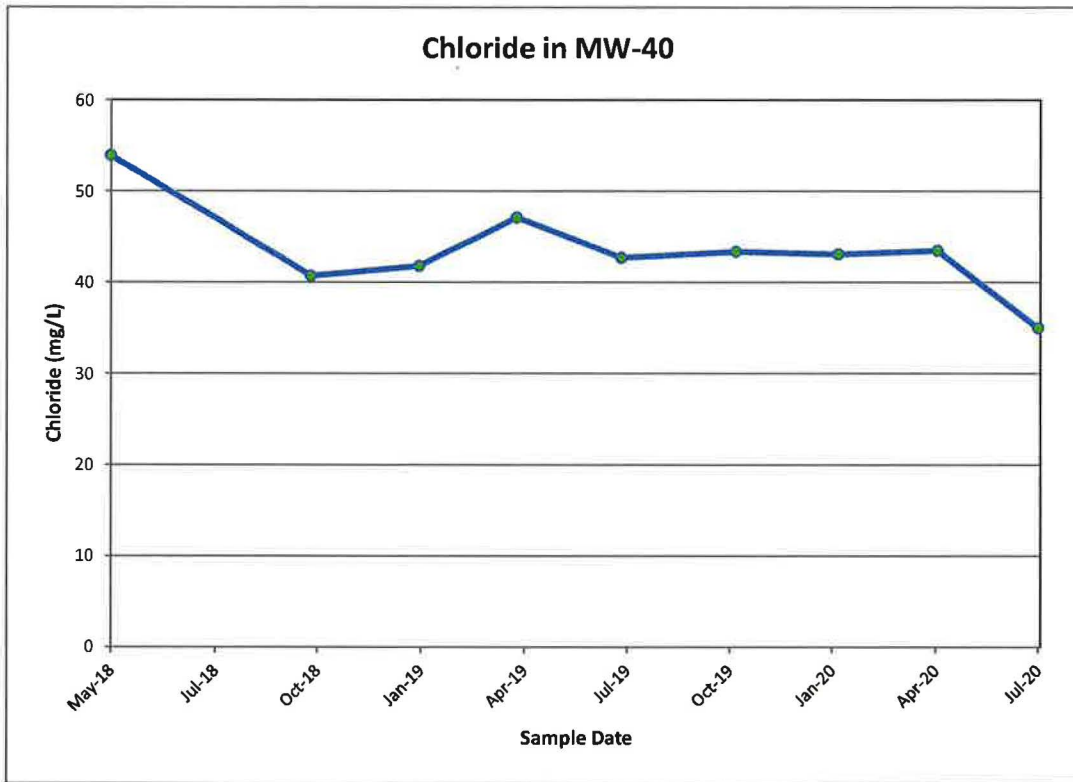
Time concentration plots for MW-39



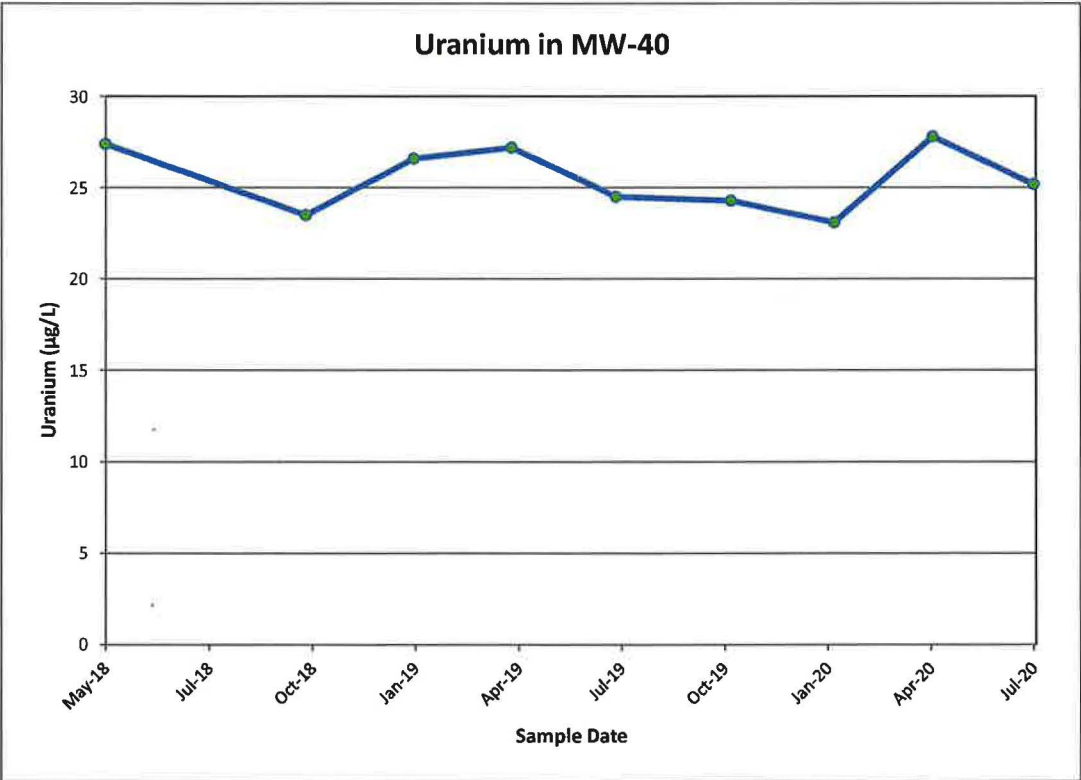
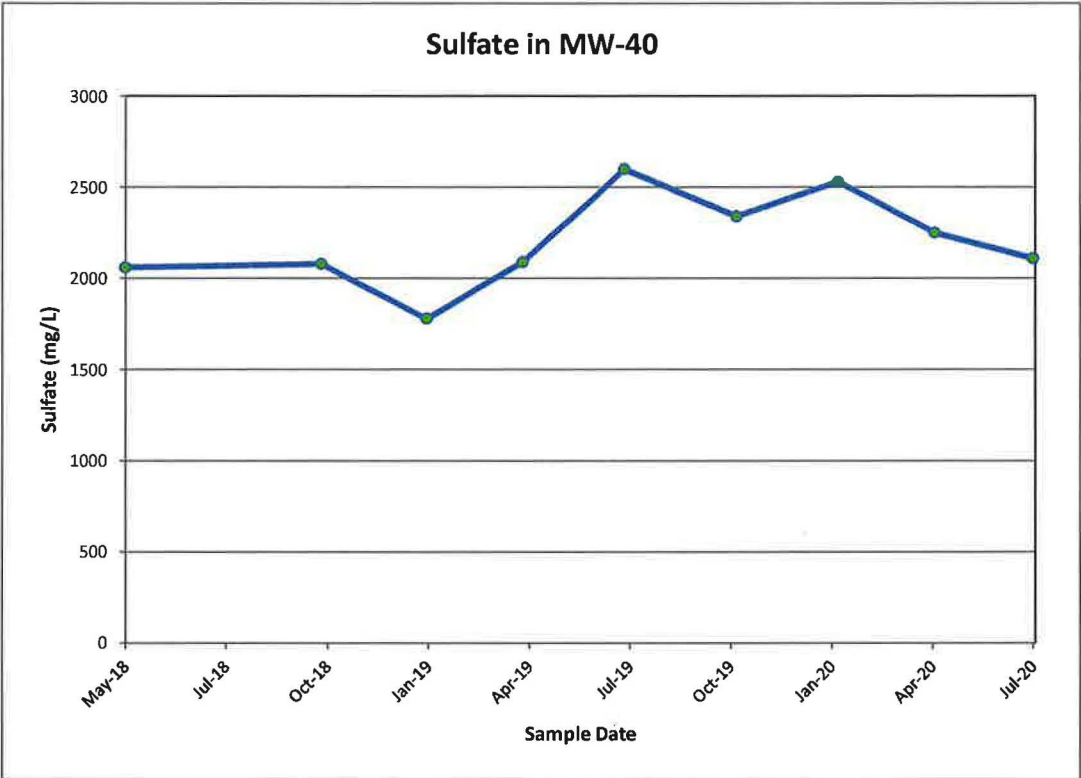
Time concentration plots for MW-39



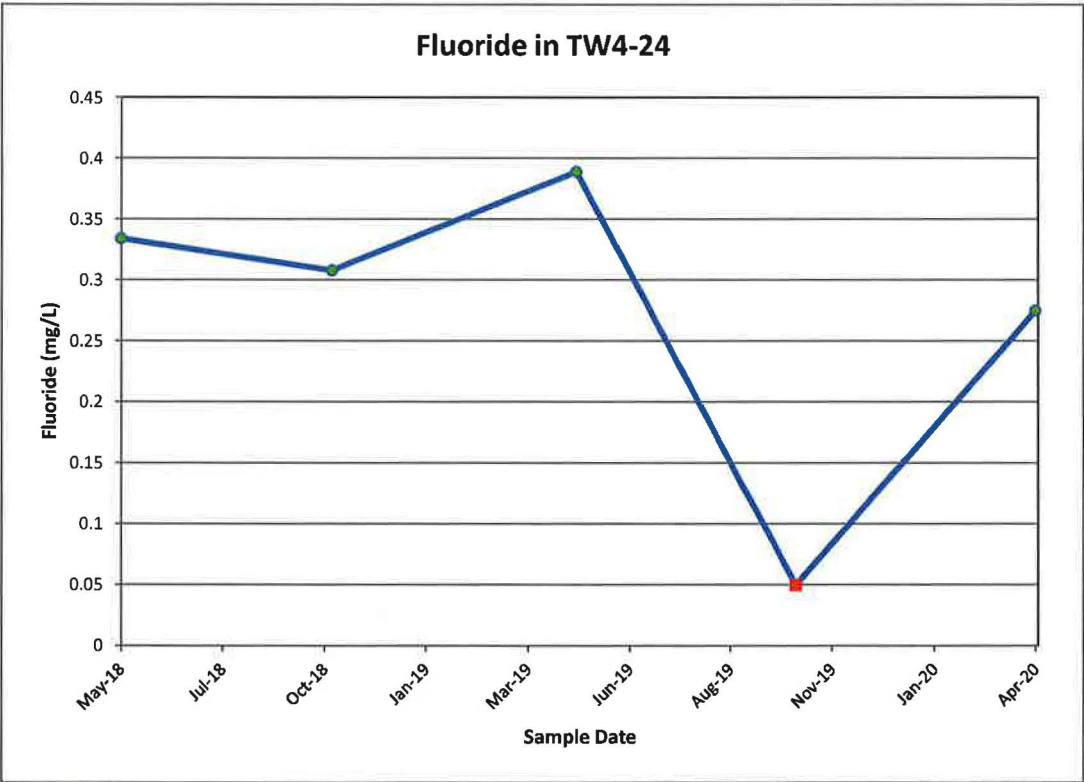
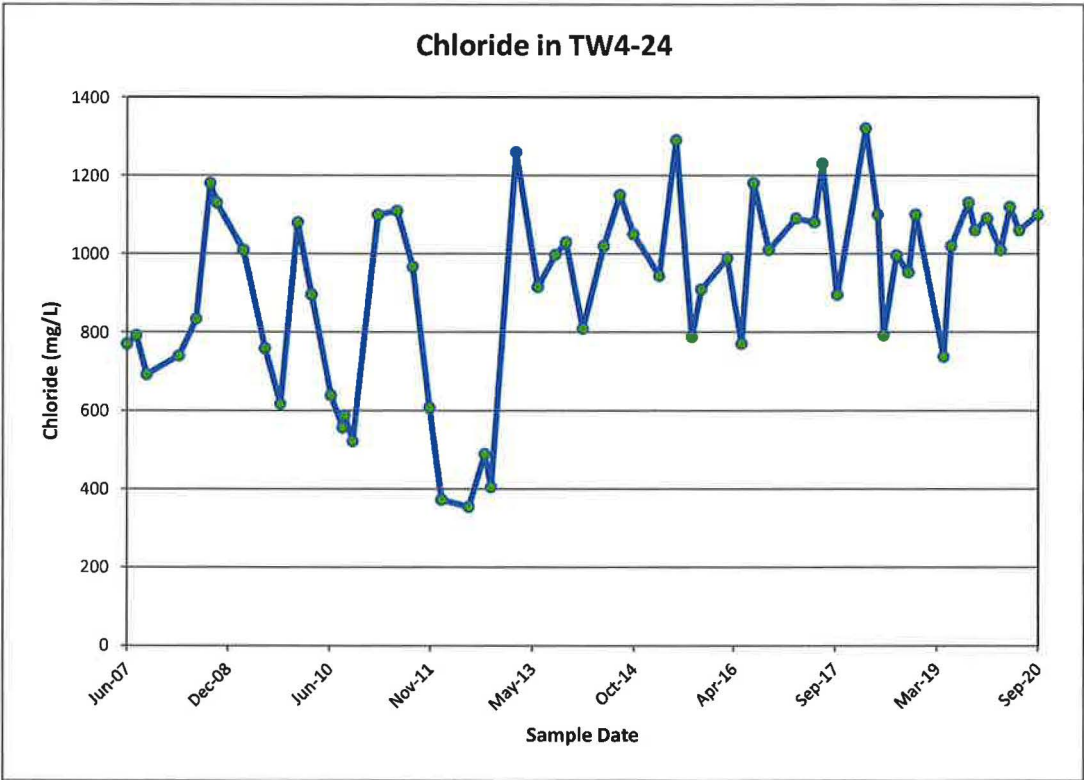
Time concentration plots for MW-40



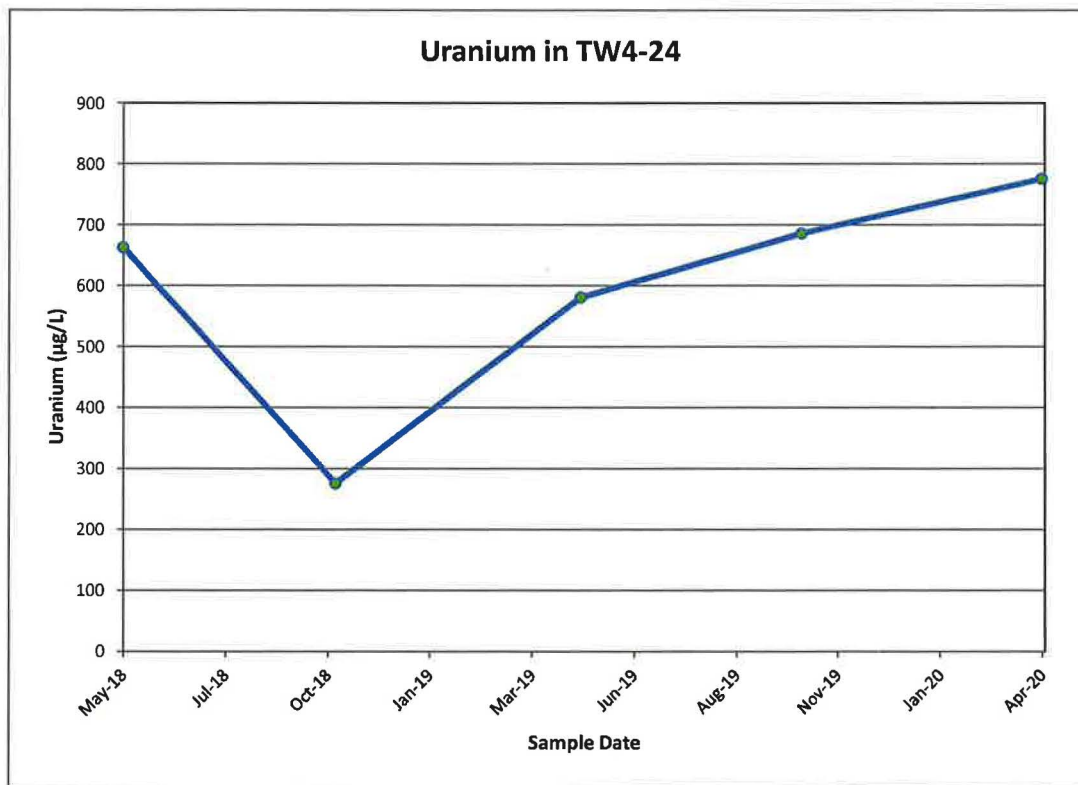
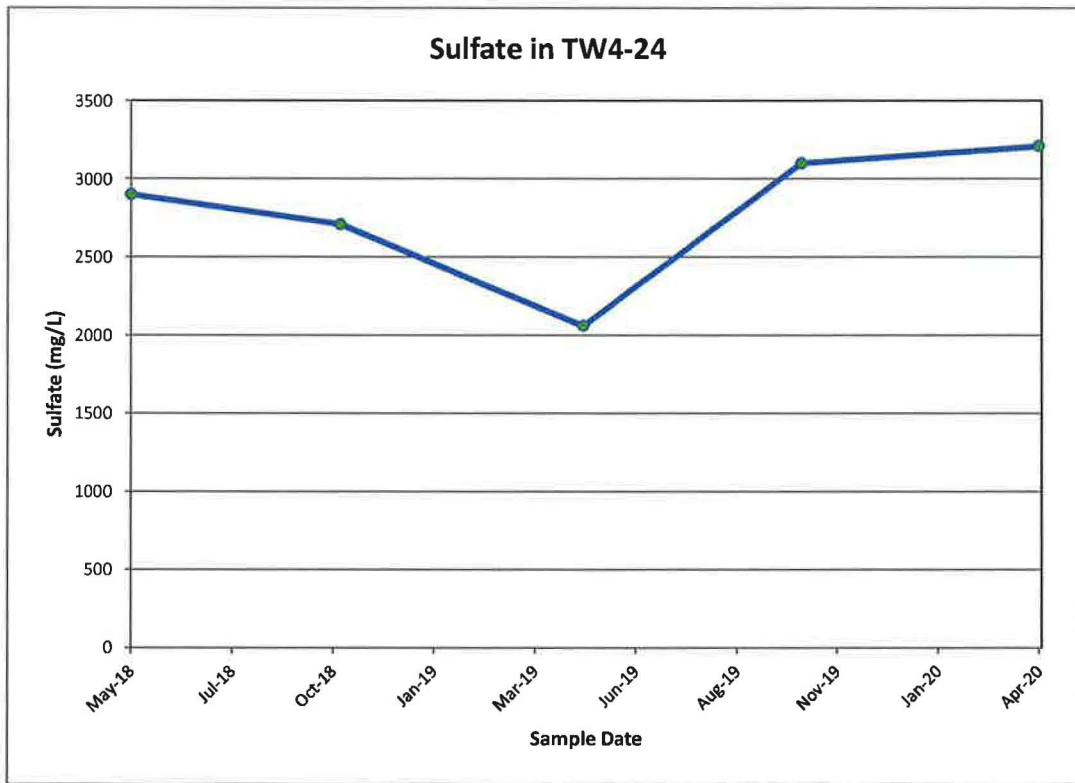
Time concentration plots for MW-40



Time concentration plots for TW4-24



Time concentration plots for TW4-24



Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Tuesday, November 17, 2020 9:21 AM
To: Phillip Goble
Cc: 'Thomas Rushing'; David Frydenlund; Logan Shumway; Scott Bakken; Terry Slade
Subject: Transmittal of CSV Files White Mesa Mill 2020 Q3 Groundwater Monitoring
Attachments: Q3 2020 Analytical Data.csv; Q3 2020 DTW all programs - EIM.csv; Q3 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 third 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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