



August 26, 2013

**Sent VIA OVERNIGHT DELIVERY**

Mr. Rusty Lundberg  
Division of Radiation Control  
Utah Department of Environmental Quality  
195 North 1950 West  
P.O. Box 144850  
Salt Lake City, UT 84114-4820

**Re: Transmittal of 2nd Quarter 2013 Groundwater Monitoring Report  
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill**

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Groundwater Monitoring Report for the 2nd Quarter of 2013 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs each containing a word searchable electronic copy of the report.

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

Yours very truly,

A handwritten signature in blue ink that reads 'Jo Ann Tischler'.

**ENERGY FUELS RESOURCES (USA) INC.**  
Jo Ann Tischler  
Manager, Compliance and Licensing

cc: David C. Frydenlund  
Harold R. Roberts  
David E. Turk  
Katherine A. Weinel  
Dan Hillsten  
Central Files

**White Mesa Uranium Mill**  
**Groundwater Monitoring Report**

**State of Utah**  
**Groundwater Discharge Permit No. UGW370004**

**2nd Quarter**  
**(April through June)**  
**2013**

Prepared by:

**Energy Fuels Resources (USA) Inc.**  
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**August 26, 2013**

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## **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 second quarter of 2013 (the “quarter”) 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 and I.E.5 of the GWDP this Report includes all 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 all 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 (April through June), as discussed in the remainder of this section.

#### **2.1.1 Groundwater Compliance Monitoring**

Groundwater samples and field measurements collected during the quarter included quarterly, semi-annual and accelerated monitoring. Accelerated monitoring is discussed below in Section 2.1.2. In the narrative in Sections 2 and 3 of this quarterly report, samples classified as being collected quarterly include those wells which are sampled every quarter and the wells sampled semi-annually. Wells which are sampled routinely every quarter and semi-annually were analyzed for the parameters listed in Table 2 and Part I.E.1.c) 2) ii of the GWDP dated August 24, 2012.

Table 1 of this report provides an overview of all 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.

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 well MW-35 was installed in the 3<sup>rd</sup> quarter 2010 and has been sampled quarterly (and monthly for certain constituents) since the 4<sup>th</sup> quarter 2010. Monitor wells MW-36 and MW-37 were installed in the 2<sup>nd</sup> quarter 2011 and have been sampled quarterly since 2<sup>nd</sup> quarter 2011. The GWDP 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 statistics used are for the background assessments and calculation of the GWCLs and all statistical analyses discussed herein are those developed based on the United States Environmental Protection Agency’s (“USEPA”) *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (USEPA, 2009), as approved by the Utah Division of Radiation Control (“DRC”) prior to completion of the other Mill Background Reports.

In well MW-35, preliminary statistics of the analytical data have been analyzed every quarter since the completion of 8 quarters of sampling. The preliminary statistics indicated that there were extreme values present in the data and as a result, there were not 8 statistically valid data points for all analytes. EFRI presented this information to DRC who agreed to delay the completion of the background report for MW-35 until 8 statistically valid data points were available for every analyte. As of the 2<sup>nd</sup> quarter 2013, there are 8 statistically valid data points for all analytes in monitoring well MW-35.

With the completion of the 2<sup>nd</sup> quarter 2013 sampling event, there are 8 quarters of data for MW-36 and MW-37. Preliminary statistics again indicate that due to extreme values, EFRI is lacking 8 statistically valid data points for all analytes in MW-36 and MW-37.

EFRI contacted DRC on June 17, 2013 regarding the completion of the background reports, specifically to inform DRC there was sufficient statistically valid data for MW-35, but not for MW-36 or MW-37. An e-mail from DRC dated June 17, 2013, agreed that the background report for MW-35 should be included in the background report with MW-36 and MW-37, and that a separate background report for MW-35 should not be submitted at this time. DRC agreed that the background report for MW-35, MW-36 and MW-37 should be combined into a single report and completed after there are 8 statistically valid data points for MW-36 and MW-37.

#### **2.1.4 Parameters Analyzed**

All routine quarterly and semi-annual groundwater monitoring samples were analyzed for the parameters listed in Table 2 and Part I.E.1.c) 2) ii of the GWDP dated August 24, 2012. 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.2 of the GWDP dated August 24, 2012:

- The quarterly groundwater compliance monitoring wells (including, MW-34).
- Existing monitoring well MW-4 and all of the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3, 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 all wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

All 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 all field data sheets recorded in association with the quarterly effort (sampled in May) for the groundwater compliance monitoring wells referred to in paragraph 2.1.1, above. Sampling dates are listed in Table 1. Tab B also includes field data sheets for general monitoring wells MW-20 and MW-22.

Attached under Tab C are copies of all field data sheets recorded in association with the April and June 2013 accelerated monitoring and sampling efforts.

## **2.3 Laboratory Results - Quarterly Sampling**

### **2.3.1 Copy of Laboratory Results**

All analytical results are provided by one of the Mill's two contract analytical laboratories: GEL Laboratories, Inc. ("GEL") or 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., all regular quarterly and 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.

The laboratory report dates for samples collected for the April and June accelerated sampling (i.e. quarterly accelerated to monthly) are provided in Table 1. Results from analysis of samples collected for the April and June 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.

Copies of laboratory QA/Quality Control ("QC") Summaries are included with the reported data under their corresponding Tabs.

### **2.3.2 Regulatory Framework and Groundwater Background**

Under the GWDP dated August 24, 2012, background groundwater quality has been determined on a well-by-well basis, as defined by the mean plus second standard deviation concentration or the equivalent. GWCLs that reflect this background groundwater quality have been set for all compliance monitoring wells except MW-35, MW-36, and MW-37. It is important to note that the GWDP dated February 15, 2011 also set GWCLs for MW-35. The GWCLs for MW-35 have been set at one-quarter of the Utah Groundwater Quality Standard ("GWQS"), pending determination of background for the well, and are not based on eight quarters of data from that well. The background report for MW-35 will be completed on the schedule noted in Section 2.1.3 above.

Exceedances of the GWCLs during the preceding quarter determined the accelerated monthly monitoring program implemented during this quarter as noted in Tables 2 and 3.

Exceedances of the GWCLs for this quarter are listed in Table 2 for sampling required under the revised GWDP dated August 24, 2012. Table 3 shows the accelerated sampling program which started in the second quarter 2010 and shows the results and frequency of the accelerated sampling conducted since that time.

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 all 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 at monthly is resampling of the same water and leads 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**

The analytical results for the accelerated monthly monitoring of the various constituents in certain monitoring wells for the quarter are provided at Tab F.

### **2.4.2 Regulatory Framework and Groundwater Background**

As a result of the issuance of a revised GWDP on January 20, 2010, which sets revised GWCLs, all requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on January 20, 2010, and the effect of the issuance of the revised GWDP was to create a “clean slate” for all constituents in all wells going forward.

This means that accelerated monitoring during this quarter was required under the revised GWDP for only those constituents that exceeded the GWCLs since January 20, 2010.

### **2.4.3 Compliance Status**

Analytes which have exceeded the GWCLs 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. Analytes which exceeded their respective GWCLs since 2010 are currently sampled on an accelerated schedule. A review of the accelerated data collected during the quarter indicate that several analytes have exceeded their respective GWCLs for two consecutive sampling periods as reported in EFRI’s letter to DRC on August 23, 2013. Table 3 summarizes the results of the accelerated sampling program from first quarter 2010 through second quarter 2013.

Part I.G.1 c) of the GWDP states, with respect to exceedances of GWCLs, “that 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 submitted an

exceedance notice on August 23, 2013 for the second quarter 2013 results. 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, as determined by DRC Staff and stated in teleconferences with EFRI on April 27 and May 2, 2011 and the previously submitted Source Assessment Reports (“SARs”).

## **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 all 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 QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the 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 3.4.10 below.

The Analytical Laboratories have provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference (“NELAC”) certification and reporting protocol. The analytical laboratory QA/QC Summary Reports, including copies of the Mill’s Chain of Custody (“COC”) and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tabs E and F. Results of review of the laboratory QA/QC information are provided under Tab G and discussed in Section 3.4, below.

### **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:

Two duplicate samples were 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 month of accelerated sampling 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.

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

One trip blank for the April monthly sampling event and two trip blanks for the June monthly sampling event were provided by AWAL and returned and analyzed with the accelerated monthly monitoring samples.

Rinsate samples were not collected during the quarter because all equipment used during sample collection was dedicated and did not require decontamination. All wells except MW-20 and MW-37 have dedicated pumps for purging and sampling and as such no rinsate blank samples are required. MW-20 and MW-37 were sampled with a disposable bailer and no rinsate blank was required. A deionized field blank (DIFB) 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 QAPs were being adhered to and that the SOPs were implemented, except as described below.

### **3.3 Analyte Completeness Review**

All 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.

During the QA/QC review of the analytical data two items were noted. The first item noted was regarding the MW-26 June monthly accelerated sample. The groundwater program accelerated monthly sample for MW-26 is only required to be analyzed for two volatile organic compounds (“VOCs”), which are dichloromethane and chloroform. It was noted that AWAL analyzed the MW-26 groundwater program June monthly accelerated sample for chloromethane instead of chloroform. AWAL analyzed the June monthly accelerated sample for dichloromethane as required. The chloroform program sample, which includes an analysis for the analyte chloroform, for MW-26 was collected June 5, 2013, that is, it was analyzed for chloroform in the same month as the required

June monthly sample. The June 5, 2013 chloroform program sample data for MW-26 are reported herein to complete the June groundwater program requirement for chloroform analysis. No GWDP requirements were violated and no data were lost as a result of this error. All additional analytical results from the June chloroform program sample which include nitrate+ nitrite as N, chloride, chloromethane, and carbon tetrachloride are included herein for information purposes.

The second item noted was regarding uranium in the June monthly accelerated sample in MW-30. The request to analyze uranium in the MW-30 June monthly accelerated sample was inadvertently omitted from the COC. The QA Manager noted error and alerted the laboratory while the sample was still within holding time. The laboratory completed the analysis as required within the holding time. No loss of data resulted from this omission and all analyses were completed as required.

Corrective actions are discussed in Section 4 of this report.

### **3.4 Data Validation**

The QAPs 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 performed 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 all 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): conductance, pH, temperature, redox potential, 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 all 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 Revision 7.2 of 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% 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 and turbidity) except for the following five wells that were purged to dryness: MW-03A, MW-20, MW-23, MW-24, and MW-37.

Based upon the review of the Field Data Sheets, all quarterly and semi-annually sampled locations conformed to the QAP requirement for purging using the two casing volume technique except for MW-03A, MW-20, MW-23, and MW-37. These wells were evacuated to dryness before two casing volumes could be removed. MW-37 has insufficient water to purge using a pump. Due to the small volume of water present, this well is purged and sampled using a disposable bailer. MW-37 conformed to the QAP, Revision 7.2 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 was employed. Stabilization of pH, conductivity and temperature were within the QAP, Revision 7.2 required 10% RPD for all wells that were purged dry.

Review of field sheets indicated that MW-24 was purged dry after two casing volumes were removed. Because this well was purged dry, the requirements 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, was employed. Stabilization of pH, conductivity and temperature were within the QAP, Revision 7.2 required 10% RPD.

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 will follow the purging requirements outlined in Attachment 2-3 of the QAP.

The review of the field sheets for compliance with QAP, Revision 7.2 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 all of the quarterly and semi-annual wells except MW-12, MW-17, MW-18, MW-19, MW-29, and MW-32. Per the QAP, Revision 7.2, Attachment 2-3, Turbidity measurements prior to

sampling were within a 10% RPD for all quarterly and semi-annual wells.

- Turbidity measurements were less than 5 NTU for all of the accelerated sampling wells except MW-11 and MW-31 in the April monthly event and MW-25 and MW-31 in the June monthly event. As previously stated, the QAP does not require that turbidity be less than 5 NTU. Turbidity measurements prior to sampling were within a 10% RPD for all accelerated sampling wells.

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

During review of all 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 DRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DRC'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 DRC on September 30, 2011. DRC responded to the redevelopment report via letter on November 15, 2012. Per the DRC 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. All samples were received and analyzed within the required holding time.

### **3.4.3 Receipt Temperature Evaluation**

COCs 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. All quarterly, semi-annual and accelerated samples were received within the required temperature limit.

As noted in Tab G, several groups of samples for gross alpha analyses only 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**

All 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 all quarterly, semi-annual and accelerated samples were analyzed in accordance with Table 1 of the QAP.

### **3.4.5 Reporting Limit Evaluation**

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

*It should be noted that in the GEL data, the reporting limit is shown under the heading "CRDL" (client required reporting limit) in the hardcopy data packages included in Tabs E and F.*

### **3.4.6 Trip Blank Evaluation**

All 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. All trip blank results associated with both the quarterly, semi-annual and accelerated samples were less than detection level for all VOCs.

### **3.4.7 QA/QC Evaluation for Routine Sample Duplicates**

Section 9.1.4 a) of the QAP state 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 required 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 all 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.

All duplicate results were within a 20% RPD in the quarterly and semi-annual samples. Results of the RPD test are provided under Tab G.

All duplicate results were within a 20% RPD in the monthly 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 all gross alpha analysis reported with an activity equal to or greater than the GWCL, 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.

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. All quarterly, semi-annual, and accelerated radiologic sample results met the counting error requirements specified in the QAPs.

### **3.4.9 Other Laboratory QA/QC.**

Section 9.2 of all revisions of the QAP require 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. All lab QA/QC results from both GEL and AWAL samples for compounds regulated under the GWDP met these requirements. There were QC results which did not meet laboratory established acceptance limits, as identified in Tab G and described below.

Multiple sets of quarterly, semi-annual and accelerated sample results had the reporting limit raised for at least one analyte due to matrix interference and/or sample dilution. In all cases the reported value for the analyte was higher than the increased detection limit.

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.

All qualifiers, and the corresponding explanations reported in the QA/QC Summary Reports for any of the check samples for any of 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 all quarterly and semi-annual samples were within acceptable laboratory limits for all regulated compounds except as indicated in Tab G. The AWAL 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. Matrix interferences are applicable to the individual sample results only. The requirement in the QAPs to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAPs.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for all accelerated samples were within acceptable laboratory limits for all regulated compounds except as indicated in Tab G. The recoveries and RPDs which are outside of the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above the acceptance limits are indicative of matrix interference. 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 all quarterly, semi-annual and accelerated samples were within acceptable laboratory limits for all 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 all 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. All 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 all 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. QAP Revision 7.2 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.

#### **4.0 CORRECTIVE ACTION REPORT**

Necessary corrective actions identified during the current monitoring period are described below, in accordance with Part I.F.1.e of the GWDP.

##### **4.1 Identification and Definition of the Problem**

The problem identified was:

The monthly accelerated monitoring conducted in the June 2013 did not include the request to analyze uranium in MW-30.

It is important to note that although this analyte was omitted from the COC, the sample was analyzed within holding time for uranium. The missed analyte was noted during the QA/QC process implemented by the QA Manager as the result of the previous corrective action (discussed in Section 4.8 below).

##### **4.2 Assignment of Responsibility for Investigating the Problem**

The problem has been investigated by the QA Manager.

##### **4.3 Investigation and Determination of Cause of the Problem**

The analyte for the monthly accelerated program was inadvertently omitted from the COC due to a transcription error.

##### **4.4 Determination of a Corrective Action to Eliminate the Problem**

The omission of the analytes from the June monthly event has prompted the QA Manager to prepare electronic COCs for quarterly and accelerated sampling events. The COCs will be updated at the time the exceedance reports are completed.

##### **4.5 Assigning and Accepting Responsibility for Implementing the Corrective Action**

It will be the responsibility of the QA Manager to implement the corrective action.

#### **4.6 Implementing the Corrective Action and Evaluating Effectiveness**

Implementation of the corrective action for the COCs will begin in the third quarter 2013.

#### **4.7 Verifying That the Corrective Action Has Eliminated the Problem**

Verification of the electronic COC procedure will occur after the third quarter 2013 samples are collected and the data are received and reviewed.

#### **4.8 Assessment of Corrective Actions from Previous Period**

The first quarter 2013 groundwater report identified a corrective action for missed accelerated monitoring for selenium in MW-31 in December 2012 and January 2013. To address this omission, the QA Manager revised the exceedance tracking procedures and procedures for review of the analytical data received from the laboratory. Additional review using database reports was implemented immediately upon receipt of the data at the time the analytical data are uploaded to the database by the QA Manager. No accelerated samples were missed during the second quarter 2013 and the corrective action is considered closed.

### **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. All 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 which were determined to be outliers using the statistical methods used for the background determinations at the Mill. Based on conversations with DRC, all data have been included in the quarterly time concentration plots since first quarter 2012. All future time concentration plots will include all data points.

### **6.0 ELECTRONIC DATA FILES AND FORMAT**

EFRI has provided to the Director electronic copies of all laboratory results from groundwater quality monitoring conducted during the quarter in Comma Separated Values (“CSV”) 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. on August 26, 2013.

ENERGY FUELS RESOURCES (USA) INC.

By:



Harold R. Roberts  
Executive Vice President and Chief Operating Officer

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.



Harold R. Roberts  
Executive Vice President and Chief Operating Officer  
Energy Fuels Resources (USA) Inc.

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Table 1: Summary of Well Sampling for Q2 2013

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-01	Semi-annually	Semi-annually	5/21/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-02	Semi-annually	Semi-annually	5/21/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-03	Semi-annually	Semi-annually	5/22/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-03A	Semi-annually	Semi-annually	5/23/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-05	Semi-annually	Semi-annually	5/14/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-11	Quarterly	Quarterly	5/14/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-12	Semi-annually	Semi-annually	5/15/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-14	Quarterly	Quarterly	5/14/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-15	Semi-annually	Semi-annually	5/15/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-17	Semi-annually	Semi-annually	5/22/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-18	Semi-annually	Semi-annually	5/20/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-19	Semi-annually	Semi-annually	5/20/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-20	Semi-annually	Semi-annually	6/3/2013	(6/21/13) (7/29/13) [6/19/13]
MW-22	Semi-annually	Semi-annually	5/22/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-23	Semi-annually	Semi-annually	5/23/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-24	Semi-annually	Semi-annually	5/22/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-25	Quarterly	Quarterly	5/14/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-26	Quarterly	Quarterly	5/23/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-27	Semi-annually	Semi-annually	5/21/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-28	Semi-annually	Semi-annually	5/15/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-29	Semi-annually	Semi-annually	5/23/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-30	Quarterly	Quarterly	5/15/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-31	Quarterly	Quarterly	5/13/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-32	Semi-annually	Semi-annually	5/13/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-35	Quarterly	Background	5/13/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-36	Quarterly	Background	5/14/2013	(5/31/13) (7/29/13) [6/3/13] [6/10/13]
MW-37	Quarterly	Background	6/3/2013	(6/21/13) (7/29/13) [6/19/13]
MW-65	1 per Batch	Duplicate of MW-02	5/21/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
MW-70	1 per Batch	Duplicate of MW-29	5/23/2013	(6/6/13) (7/29/13) (8/2/13) [6/12/13] [7/1/13]
<b>Accelerated April Monthly</b>				
MW-11	Monthly	Accelerated	4/16/2013	(4/30/2013) [5/2/13]
MW-14	Monthly	Accelerated	4/16/2013	(4/30/2013) [5/2/13]
MW-25	Monthly	Accelerated	4/17/2013	(4/30/2013) [5/2/13]
MW-26	Monthly	Accelerated	4/17/2013	(4/30/2013) [5/2/13]
MW-30	Monthly	Accelerated	4/17/2013	(4/30/2013) [5/2/13]
MW-31	Monthly	Accelerated	4/16/2013	(4/30/2013) [5/2/13]
MW-35	Monthly	Accelerated	4/17/2013	(4/30/2013) [5/2/13]
MW-65	Monthly	Duplicate of MW-25	4/17/2013	(4/30/2013) [5/2/13]
<b>Accelerated June Monthly</b>				
MW-11	Monthly	Accelerated	6/25/2013	(7/11/13) (7/25/13) [7/24/13]
MW-14	Monthly	Accelerated	6/25/2013	(7/11/13) (7/25/13) [7/24/13]
MW-25	Monthly	Accelerated	6/24/2013	(7/11/13) (7/25/13) [7/24/13]
MW-26	Monthly	Accelerated	6/5/2013* 6/25/2013	(7/11/13) (7/25/13) (6/18/13)* [7/24/13]
MW-30	Monthly	Accelerated	6/25/2013	(7/11/13) (7/25/13) [7/24/13]
MW-31	Monthly	Accelerated	6/24/2013	(7/11/13) (7/25/13) [7/24/13]
MW-35	Monthly	Accelerated	6/24/2013	(7/11/13) (7/25/13) [7/24/13]
MW-65	1 per Batch	Duplicate of MW-14	6/25/2013	(7/11/13) (7/25/13) [7/24/13]

## Notes:

Dates in italics are the original submission 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.

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

\* Chloroform and methylene chloride results are reported from the chloroform program sample collected June 5, 2013.

Table 2

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
<b>Quarterly Wells Accelerated to Monthly Sampling<sup>1</sup></b>							
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	6.17	Quarterly	Monthly	April 2013	Septemebr 2013
	Manganese (ug/L)	131.29	134	Quarterly	Monthly	Q1 2010	May 2010
MW-14 (Class III)	Manganese (ug/L)	2230.30	2360	Quarterly	Monthly	Q2 2012	August 2012
	Field pH (S.U.)	6.5 - 8.5	6.45	Quarterly	Monthly	Q1 2010	May 2010
MW-25 (Class III)	Uranium (ug/L)	6.5	6.57	Quarterly	Monthly	Q3 2010	January 2011
	Cadmium (ug/L)	1.5	1.56	Quarterly	Monthly	Q4 2012	March 2013
	Chloride (mg/L)	35	36.1	Quarterly	Monthly	Q1 2013	June 2013
	Field pH (S.U.)	6.5 - 8.5	6.47	Quarterly	Monthly	Q4 2012	February 2013
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1.3	Quarterly	Monthly	Q1 2010	May 2010
	Uranium (ug/L)	41.8	58.7	Quarterly	Monthly	Q1 2010	May 2010
	Chloroform (ug/L)	70	700	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Methylene Chloride (ug/L)	5	9.9	Quarterly	Monthly	Q2 2010	June 2010
	Field pH (S.U.)	6.74 - 8.5	6.59	Quarterly	Monthly	Q1 2010	May 2010
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	16.1	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	128	134	Quarterly	Monthly	Q1 2011	May 2011
	Uranium (ug/L)	8.32	8.36	Quarterly	Monthly	Q1 2013	June 2013
	Selenium (ug/L)	34	35.3	Quarterly	Monthly	Q2 2010	July 2010
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	21.7	Quarterly	Monthly	Q1 2010	May 2010
	TDS (mg/L)	1320	1330	Quarterly	Monthly	Q3 2010	January 2011
	Sulfate (mg/L)	532	539	Quarterly	Monthly	Q4 2010	March 2011
	Selenium (ug/L)	71	74	Quarterly	Monthly	Q3 2012	December 2012
	Field pH (S.U.)	6.5 - 8.5	6.37	Quarterly	Monthly	April 2013	Septemebr 2013
	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
MW-35 (Class II)	Uranium (ug/L)	7.5	21.7	Quarterly	Monthly	Q3 2011	July 2011
	Thallium (ug/L)	0.5	1.14	Quarterly	Monthly	Q4 2011	July 2011
	Selenium (ug/L)	12.5	19.7	Quarterly	Monthly	Q1 2012	June 2012
	Gross Alpha minus Rn & U (pCi/L)	3.75	4.5	Quarterly	Monthly	Q3 2011	Q4 2011
	Molybdenum (ug/L)	10	30.4	Quarterly	Monthly	Q4 2012	March 2013
	Manganese (ug/L)	200	369	Quarterly	Monthly	Q3 2011	July 2011
<b>Semi-Annual Wells Accelerated to Quarterly Sampling<sup>1</sup></b>							
Monitoring Well	Constituent Exceeding GWCL	GWCL in	First Result	Sample	Accelerated	Exceedance	Start of Accelerated
MW-1 (Class II)	Tetrahydrofuran (ug/L)	11.5	21.8	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Sulfate (mg/L)	838	846	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Manganese (ug/L)	289	315	Semi-Annually	Quarterly	Q4 2012	Q1 2013
MW-3 (Class III)	Selenium (ug/L)	37	37.2	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	6.14 (6.25)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.68	0.71	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	6.23 (6.24)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	3640	3680	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	TDS (mg/L)	5805	5860	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	1.3	1.31	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Selenium (ug/L)	89	94.8	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-5 (Class II)	Uranium (ug/L)	7.5	11.6	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.47	Semi-Annually	Quarterly	Q4 2010	Q1 2011
	Selenium (ug/L)	25	25.7	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-15 (Class III)	Selenium (ug/L)	128.7	152	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Iron (ug/L)	81.7	137	Semi-Annually	Quarterly	Q4 2011	Q1 2012
MW-18 (Class III)	Thallium (ug/L)	1.95	3.73	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	1938.9	1950	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.25-8.5	6.2	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	TDS (mg/L)	3198.77	3280	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-19 (Class III)	Nitrate + Nitrite (as N) (mg/L)	2.83	4	Semi-Annually	Quarterly	Q4 2011	Q1 2012
	Gross Alpha minus Rn & U (pCi/L)	2.36	4.86	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Field pH (S.U.)	6.78-8.5	6.61 (6.66)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-23 (Class III)	Manganese (ug/L)	550	551	Semi-Annually	Quarterly	Q4 2011	Q1 2012
	Field pH (S.U.)	6.5 - 8.5	6.18	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-24 (Class III)	Cadmium (ug/L)	2.5	4.28	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.36	0.558	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Thallium (ug/L)	1	1.3	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	5.91 (5.78)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Chloride (mg/L)	38	42	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Gross Alpha minus Rn & U (pCi/L)	2	2.4	Semi-Annually	Quarterly	Q4 2010	Q1 2011
	Field pH (S.U.)	6.5 - 8.5	6.39	Semi-Annually	Quarterly	Q3 2011	Q4 2011
	TDS (mg/L)	1075	1160	Semi-Annually	Quarterly	Q2 2010	Q3 2010

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
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Manganese (ug/L)	1837	1850	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Field pH (S.U.)	6.1 - 8.5	5.67	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-29 (Class III)	Field pH (S.U.)	6.46 - 8.5	6.17	Semi-Annually	Quarterly	Q4 2010	Q2 2011
	Manganese (ug/L)	5624	6140	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	TDS (mg/L)	4400	4600	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Iron (ug/L)	1869	3010	Semi-Annually	Quarterly	Q3 2011	Q4 2011
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	5.4	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.4 - 8.5	6.03	Semi-Annually	Quarterly	Q2 2010	Q3 2010

Notes:

<sup>1</sup> GWCL Values are taken from August 24, 2012 versions of the GWDP sample period.

Highlighted text shows accelerated requirements resulting from Q2 2013 sampling event.

Table 3 – GWCL Exceedances for First Quarter 2013 under the August 24, 2012 GWDP

Q1 2010 Results			Q2 2010 Results				Q3 2010 Results				Q4 2010 Results														
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL In August 24, 2012 GWDP	Q1 2010 Sample Date	Q1 2010 Result	Q2 2010 Sample Date	Q2 2010 Result	May 2010 Monthly Sample Date	May 2010 Monthly Result	June 2010 Monthly Sample Date	June 2010 Monthly Result	July 2010 Monthly Sample Date	July 2010 Monthly Result	August 2010 Monthly Sample Date	August 2010 Monthly Result	Q3 2010 Sample Date	Q3 2010 Result	October 2010 Monthly Sample Date	October 2010 Monthly Result	Q4 2010 Sample Date	Q4 2010 Result	December 2010 Monthly Sample Date	December 2010 Monthly Result			
<b>Required Quarterly Sampling Wells</b>																									
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	2/10/2010	7.34	4/28/2010	7.22	5/24/2010	7.29	6/16/2010	8.21	7/20/2010	7.51	8/25/2010	7.32	9/8/2010	8.34	10/20/2010	7.49	11/11/2010	7.44	12/15/10	7.37			
	Manganese (ug/L)	131.29		134		137		122		99		123		138		128		141		133		158			
MW-14 (Class III)	Manganese (ug/L)	2230.30	2/2/2010	2060	4/21/2010	2070	5/21/2010	NA	6/16/2010	NA	7/20/2010	NA	8/25/2010	NA	9/8/2010	1920	10/20/2010	NA	11/10/2010	1980	12/15/2010	NA			
	Field pH (S.U.)	6.5 - 8.5		6.45		6.29		6.36		6.45		7.19		6.48		6.51		6.60		6.37		6.47			
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/26/2010	6.53	4/28/2010	7.2	NS	NA	NS	NA	NS	NA	NS	NA	9/8/2010	6.58	NS	NA	11/10/2010	6.36	NS	NA			
	Cadmium (ug/L)	1.5		1.26		1.44		NA		NA		NA		1.4		NA		NA		1.26		NA			
	Chloride (mg/L)	35		31		31		NA		NA		NA		31		NA		NA		31		NA			
	Uranium	6.5		5.93		6.43		NA		NA		NA		6.57		NA		NA		5.89		NA			
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	2/2/2010	1.3	4/22/2010	2	5/21/2010	0.3	6/16/2010	0.4	7/21/2010	0.6	8/16/2010	0.6	9/26/2010	0.7	10/20/2010	0.4	11/15/2010	0.2	12/15/2010	0.4			
	Uranium (ug/L)	41.8		58.7		66.7		37.4		36.6		34.4		71.8		72.7		37.5		30.4		29.6			
	Chloroform (ug/L)	70		700		1700		800		940		900		2800		2100		1000		1900		1400			
	Chloride (mg/L)	58.31		72		57		80		47		52		49		64		52		48		52			
	Field pH (S.U.)	6.74 - 8.5		6.59		7.18		6.36		6.98		6.45		6.39		6.60		6.61		6.49		6.45			
	Dichloromethane (Methylene Chloride) (ug/L)	5		1		9.9		NR		2.2		12		24		45		5.5		16		1.2			
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	2/9/2010	16.1	4/27/2010	15.8	5/21/2010	17	6/15/2010	15.3	7/21/2010	16	8/24/2010	16	9/14/2010	15	10/19/2010	15	11/9/2010	15	12/14/2010	16			
	Chloride (mg/L)	128		127		97		NS		NS		NS		NS		NS		NS		126		NS			
	Uranium (ug/L)	8.32		6.82		6.82		NS		NS		NS		NS		NS		7.10		6.64		NS			
	Selenium (ug/L)	34		32		35.3		NS		NS		NS		NS		NS		32.6		32.2		30.5			
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	2/9/2010	21.7	4/20/2010	22.5	5/21/2010	23	6/15/2010	21.1	7/21/2010	20	8/24/2010	22	9/13/2010 (9/21/10)	21	10/19/2010	20	11/9/2010	20	12/14/2010	20			
	TDS (mg/L)	1320		1150		1220		NS		NA		NS		NA		NS		NA		1320		NS			
	Chloride (mg/L)	143		128		128		NS		NA		NS		NA		NS		NA		138		NS			
	Selenium (ug/L)	71		60.8		59.6		NS		NA		NS		NA		NS		NA		60		NS			
	Field pH (S.U.)	6.5 - 8.5		6.96		7.38		6.95		6/15/2010		7.01		7/21/2010		7.80		8/24/2010		7.10		7.66 (7.13)	6.92	6.98	6.95
	Sulfate (mg/L)	532		507		522		NS		NA		NS		NA		NS		NA		527		NS	539	NS	
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/30/2010	698	NS	NA			
	Thallium (ug/l)	0.5		NA		NA		NA		NA		NA		NA		NA		NA		1.14		NA			
	Molybdenum (ug/L)	10		NA		NA		NA		NA		NA		NA		NA		NA		<10		NA			
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		NA		NA		NA		NA		NA		NA		NA		2.6		NA			
	Selenium (ug/L)	12.5		NA		NA		NA		NA		NA		NA		NA		NA		ND		NA			
	Uranium (ug/L)	7.5		NA		NA		NA		NA		NA		NA		NA		NA		27.2		NA			
<b>Required Semi-Annual Sampling Wells</b>																									
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	5/5/2010	212	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/18/2010	275	NS	NA			
	Tetrahydrofuran (ug/L)	11.5		NA		7.8		NA		NA		NA		NA		NA		10.7		NA					
	Sulfate (mg/L)	838		NA		805		NA		NA		NA		NA		NA		792		NA					
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	5/3/2010	37.2	NS	NA	NS	NA	NS	NA	NS	NA	9/20/2010	35.5	NS	NA	11/19/2010	38.8	NS	NA			
	Field pH (S.U.)	6.5 - 8.5		NA		6.14 (6.25)		NA		NA		NA		NA		6.39		NA		6.35		NA			
	Fluoride (Mg/L)	0.68		NA		0.71		NA		NA		NA		NA		0.63		NA		0.77		NA			
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	5/4/2010	6.23 (6.24)	NS	NA	NS	NA	NS	NA	NS	NA	9/21/2010	6.42	NS	NA	11/22/2010	6.21	NS	NA			
	Sulfate (mg/L)	3640		NA		3680		NA		NA		NA		NA		3630		NA		3850		NA			
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.0		NA		NA		NA		NA		NA		NA		1.2		NA			
	TDS (mg/L)	5805		NA		5860		NA		NA		NA		NA		5470		NA		5330		NA			
	Selenium (ug/L)	89		NA		81.4		NA		NA		NA		NA		NS		NA		94.8		NA			
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	4/26/2010	0.39	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	11.6	NS	NA			
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/27/2010	7.16	NS	NA	NS	NA	NS	NA	NS	NA	9/20/2010	6.62	NS	NA	11/19/2010	6.47	NS	NA			
	Selenium (ug/L)	25		NA		25.7		NA		NA		NA		NA		31.9		NA		27.6		NA			
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	4/21/2010	100	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	99.5	NS	NA			
	Iron (ug/L)	81.7		NA		ND		NA		NA		NA		NA		NA		ND		NA		NA			
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	5/4/2010	3.73	NS	NA	NS	NA	NS	NA	NS	NA	9/15/2010	3.64	NS	NA	11/18/2010	3.57	NS	NA			
	Sulfate (mg/L)	1938.9		NA		1950		NA		NA		NA		NA		1930		NA		1910		NA			
	Field pH (S.U.)	6.25-8.5		NA		6.2		NA		NA		NA		NA		7.23		NA		6.37		NA			
	TDS (mg/L)	3198.77		NA		3280		NA		NA		NA		NA		3190		NA		3030		NA			

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2010 Results		Q2 2010 Results				Q3 2010 Results				Q4 2010 Results															
			Q1 Sample Date	Q1 Result	Q2 Sample Date	Q2 Result	May Monthly Sample Date	May Monthly Result	June Monthly Sample Date	June Monthly Result	July Monthly Sample Date	July Monthly Result	August Monthly Sample Date	August Monthly Result	Q3 Sample Date	Q3 Result	October Monthly Sample Date	October Monthly Result	Q4 Sample Date	Q4 Result	December Monthly Sample Date	December Monthly Result						
Required Semi-Annual Sampling Wells, continued																												
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	5/4/2010	6.61 (6.66)	NS	NA	NS	NA	NS	NA	NS	NA	9/15/2010	6.93	NS	NA	11/18/2010	6.8	NS	NA						
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		0.9		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	1.2	NA
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		2.6		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	2.4	NA
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/22/2010	6.18	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	7.05	NS	NA	11/22/2010	6.44	NS	NA						
	Manganese (ug/L)	550		NA		184		NA		NA		NA		NA		NA		NA		NA		NA	NS	NA	65	NA		
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	5/6/2010	4.28	NS	NA	NS	NA	NS	NA	NS	NA	9/21/2010	5.06	NS	NA	11/17/2010	3.22	NS	NA						
	Fluoride (Mg/L)	0.36		NA		0.14		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	0.18	NA		
	Thallium (ug/L)	1		NA		1.3		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	1.09	NA		
	Field pH (S.U.)	6.5 - 8.5		NA		5.91 (5.78)		NA		NA		NA		NA		NA		NA		NA		NA	NA	6.64	NA	6.1	NA	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	5/3/2010	5.8	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	5.9	NS	NA	11/12/2010	5.7	NS	NA						
	Chloride (mg/L)	38		NA		42		NA		NA		NA		NA		NA		NA		NA		NA	42	NA	45	NA		
	Sulfate (mg/L)	462		NA		469		NA		NA		NA		NA		NA		NA		NA		NA	461	NA	452	NA		
	Field pH (S.U.)	6.5-8.5		NA		6.78		NA		NA		NA		NA		NA		NA		NA		NA	7.68	NA	6.89	NA		
	TDS (mg/L)	1075		NA		1160		NA		NA		NA		NA		NA		NA		NA		NA	1060	NA	1110	NA		
	Gross Alpha minus Rn & U (pCi/L)	2		NA		1.6		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	2.4	NA		
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	4/19/2010	108	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	106	NS	NA	11/12/2010	107	NS	NA						
	Manganese (ug/L)	1837		NA		1550		NA		NA		NA		NA		NA		NA		NA		NA	NA	1510	NA			
	Field pH (S.U.)	6.1 - 8.5		NA		5.67		NA		NA		NA		NA		NA		NA		NA		NA	5.91	NA	5.72	NA		
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	4/27/2010	1630	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/9/2010	1490	NS	NA						
	Manganese (ug/L)	5624		NA		4820		NA		NA		NA		NA		NA		NA		NA		NA	NA	4890	NA			
	TDS (mg/L)	4400		NA		4400		NA		NA		NA		NA		NA		NA		NA		NA	NA	4390	NA			
	Field pH (S.U.)	6.46 - 8.5		NA		6.82		NA		NA		NA		NA		NA		NA		NA		NA	NA	6.17	NA			
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	4/20/2010	4.5	NS	NA	NS	NA	NS	NA	NS	NA	9/13/2010	2.9	NS	NA	11/10/2010	8.8	NS	NA						
	Field pH (S.U.)	6.4 - 8.5		NA		6.03		NA		NA		NA		NA		NA		NA		NA		6.33	NA	6.05	NA			

Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
 NS = Not Required and Not Sampled  
 NR = Required and Not Reported  
 NA = Not Applicable  
 Exceedances are shown in yellow  
 Values in () parentheses are the field pH measurements for the resampled analyses.

Table 3 – GWCL Exceedances for First Quarter 2013 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2011 Results						Q2 2011 Results						Q3 2011 Results						Q4 2011 Results					
			January 2011 Monthly Sample Date	January 2011 Monthly Sample Result	Q1 2011 Sample Date	Q1 2011 Result	March 2011 Monthly Sample Date	March 2011 Monthly Sample Result	Q2 2011 Sample Date	Q2 2011 Result	May 2011 Monthly Sample Date	May 2011 Monthly Sample Result	June 2011 Monthly Sample Date	June 2011 Monthly Sample Result	July 2011 Monthly Sample Date	July 2011 Monthly Sample Result	Q3 2011 Sample Date	Q3 2011 Result	September 2011 Monthly Sample Date	September 2011 Monthly Sample Result	Q4 2011 Sample Date	Q4 2011 Result	November 2011 Monthly Sample Date	November 2011 Monthly Sample Result	December 2011 Monthly Sample Date	December 2011 Monthly Sample Result
<b>Required Quarterly Sampling Wells</b>																										
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	1/11/2011	7.43	2/2/2011	7.47	3/15/2011	7.94	4/4/2011	7.50	5/10/2011	7.25	6/15/2011	6.86	7/6/2011	7.07	8/3/2011	7.25	9/7/2011	7.29	10/4/2011	7.52	11/9/2011	7.47	12/14/2011	7.88
	Manganese (ug/L)	131.29		121		145		68		148		170		121		151		118		106		112		105		100
MW-14 (Class III)	Manganese (ug/L)	2230.30	1/11/2011	NA	2/7/2011	2020	3/14/2011	NA	4/4/2011	2140	5/10/2011	NA	6/15/2011	NA	7/5/2011	NA	8/3/2011	1990	9/8/2011	NA	10/4/2011	1960	11/9/2011	NA	12/12/2011	NA
	Field pH (S.U.)	6.5 - 8.5		6.37		6.22		6.76		6.63		6.37		5.83		6.4		6.23		6.50		6.71 (6.82)		6.63		6.84
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/11/2011	6.44	2/2/2011	6.66	3/15/2011	6.79	4/4/2011	6.7	5/11/2011	6.1	6/20/2011	5.77	7/6/2011	6.29	8/3/2011	6.42 (6.54)	9/7/2011	6.54	10/4/2011	6.6	11/9/2011	6.51	12/12/2011	6.87
	Cadmium (ug/L)	1.5		NA		1.34		NA		1.27		NA		NA		NA		1.19		NA		1.27		NA		NA
	Chloride (mg/L)	35		NA		30		NA		31		NA		NA		NA		32		NA		32		NA		NA
	Uranium	6.5		7.02		4.77		6.8		5.56		6.72		7.06		6.74		6.37		5.96		5.27		6.56		6.1
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/12/2011	0.2	2/16/2011	0.25	3/15/2011	0.6	4/1/2011	0.8	5/10/2011	0.4	6/20/2011	0.3	7/6/2011	0.9	8/3/2011	0.6	9/7/2011	2.4	10/12/2011	0.9	11/9/2011	1.3	12/14/2011	2.3
	Uranium (ug/L)	41.8		32		69.3		31.8		60.2		57.4		18.5		57.1		19.0		56.1		58.9		55.6		57
	Chloroform (ug/L)	70		800		730		1200		390		1900		730		300		1000		1300		440		1200		1400
	Chloride (mg/L)	58.31		52		59		64		64		54		39		64		60		66		61		55		62
	Field pH (S.U.)	6.74 - 8.5		6.83		6.06		6.89		6.22		6.43		6.52		6.35		6.07 (6.58)		6.71		6.82		6.75		7.1
	Dichloromethane (Methylene Chloride) (ug/L)	5		<1.0		10		14		3.1		20		7		2.4		10		7.9		2.6		8.9		11
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/10/2011	15	2/1/2011	16	3/14/2011	17	4/11/2011	16	5/10/2011	16	6/20/2011	17	7/5/2011	17	8/3/2011	14	9/7/2011	16	10/4/2011	16	11/8/2011	16	12/12/2011	16
	Chloride (mg/L)	128		NS		134		NS		134		128		127		127		126		145		129		122		124
	Uranium (ug/L)	8.32		NS		5.97		NS		6.49		NS		NS		NS		8		NS		9.83		NS		NS
	Selenium (ug/L)	34		36.2		34.7		34		44.4		38.3		38.7		32.4		39.7		32.4		36.6		36.8		38
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/10/2011	19	2/1/2011	21	3/14/2011	22	4/1/2011	21	5/10/2011	20	6/20/2011	22	7/5/2011	22	8/2/2011	20	9/6/2011	21	10/3/2011	21	11/8/2011 (11/29/12)	21	12/12/2011	21
	TDS (mg/L)	1320		1240		1220		1250		1370		1290		1330		1280		1300		1300		1320		1290		1330
	Chloride (mg/L)	143		NS		145		NS		143		143		145		148		148		148		145		145		148
	Selenium (ug/L)	71		NS		64.6		NS		65.2		NS		NS		NS		66.2		NS		68.8		NS		NS
	Field pH (S.U.)	6.5 - 8.5		6.65		7.21		7.43		7.01		6.73		6.161		6.64		6.67		7.03		7.28		7.01 (7.34)		7.46
	Sulfate (mg/L)	532		NS		538		531		503		512		540		532		537		541		539		552		530
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	2/15/2011	248	NS	NA	6/7/2011	369	NS	NA	NS	NA	7/20/11	348	8/30/2011	267	9/7/11	270	10/3/11	271	11/8/2011	283	12/14/11	247
	Thallium (ug/l)	0.5		NA		<0.50		NA		<0.50		NA		NA		NA		0.52		NA		0.57		<0.50		0.63
	Molybdenum (ug/L)	10		NA		<10		NA		<10		NA		NA		NA		<10		NA		<10		NA		NA
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		2.6		NA		3.7		NA		NA		NA		4.5		NA		4.4		4.7		4.2
	Selenium (ug/L)	12.5		NA		ND		NA		ND		NA		NA		NA		9.3		NA		10.5		NA		NA
	Uranium (ug/L)	7.5		NA		12.7		NA		21.7		NA		NA		24.2		18.3		22.3		20.1		24		23.6
<b>Required Semi-Annual Sampling Wells</b>																										
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	NS	NA	NS	NA	4/11/2011	218	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/11/2011	206	NS	NA	NS	NA
	Tetrahydrofuran (ug/L)	11.5		NA		NA		NA	4/19/2011	10.7		NA		NA		NA		NA		NA		7.82		NA		NA
	Sulfate (mg/L)	838		NA		NA		NA	4/11/2011	704		NA		NA		NA		NA		NA		713		NA		NA
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/15/2011	40.5	NS	NA	4/13/2011	45.4	NS	NA	NS	NA	NS	NA	8/10/2011	46	NS	NA	10/10/2011	46.7	NS	NA	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.09		NA		6.46		NA		NA		NA		6.32		NA		6.53 (6.83)		NA		NA
	Fluoride (Mg/L)	0.68		NA		0.69		NA		0.68		NA		NA		NA		0.96		NA		0.91		NA		NA
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/16/2011	6.05	NS	NA	4/13/2011	6.58	NS	NA	NS	NA	NS	NA	8/11/2011	6.19	NS	NA	10/11/2011	6.5 (6.92)	NS	NA	NS	NA
	Sulfate (mg/L)	3640		NA		3730		NA		3350		NA		NA		NA		3560		NA		3750		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		NA		1.2		NA		NA		NA		NA		NA		1.1		NA		NA
	TDS (mg/L)	5805		NA		5770		NA		5720		NA		NA		NA		5810		NA		5630		NA		NA
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	2/14/2011	29.5	NS	NA	4/12/2011	7.16	NS	NA	NS	NA	NS	NA	8/9/2011	0.5	NS	NA	10/10/2011	4.52	NS	NA	NS	NA
	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/15/2011	6.43	NS	NA	4/5/2011	6.67	NS	NA	NS	NA	NS	NA	8/9/2011	6.13	NS	NA	10/6/2011	6.7 (6.97)	NS	NA	NS	NA
MW-12 (Class III)	Selenium (ug/L)	25		NA		39		NA		21.7		NA		NA		NA		25.4		NA		35.4		NA		NA
	Iron (ug/L)	128.7	NS	NA	NS	NA	NS	NA	4/12/2011	116	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/10/2011	112	NS	NA	NS	NA
MW-15 (Class III)	Selenium (ug/L)	81.7		NA		NA		NA		<0.50		NA		NA		NA		NA		NA		137		NA		NA
	Thallium (ug/l)	1.95		NA		3.49		NA		3.74		NA		NA		NA		4.0 3.39		NA		3.83		NA		NA
	Sulfate (mg/L)	1938.9		NA		1770		NA		1780		NA		NA		NA		1910		NA		2020		NA		NA
	Field pH (S.U.)	6.25-8.5	NS	NA	2/15/2011	6.27	NS	NA	4/6/2011	6.71	NS	NA	NS	NA	NS	NA	8/10/2011	5.95	NS	NA	10/11/2011	6.55 (6.63)	NS	NA	NS	NA
MW-18 (Class III)	TDS (mg/L)	3198.77		NA		3250		NA		3250		NA		NA		NA		3190		NA		3220		NA		NA

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2011 Results					Q2 2011 Results					Q3 2011 Results					Q4 2011 Results																		
			January 2011 Monthly Sample Date	January 2011 Monthly Sample Result	Q1 2011 Sample Date	Q1 2011 Result	March 2011 Monthly Sample Date	March 2011 Monthly Result	Q2 2011 Sample Date	Q2 2011 Result	May 2011 Monthly Sample Date	May 2011 Monthly Result	June 2011 Monthly Sample Date	June 2011 Monthly Result	July 2011 Monthly Sample Date	July 2011 Monthly Result	Q3 2011 Sample Date	Q3 2011 Result	September 2011 Monthly Sample Date	September 2011 Monthly Result	Q4 2011 Sample Date	Q4 2011 Result	November 2011 Monthly Sample Date	November 2011 Monthly Result	December 2011 Monthly Sample Date	December 2011 Monthly Result										
Required Semi-Annual Sampling Wells, continued																																				
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	2/21/2011	6.78	NS	NA	4/5/2011	7.03	NS	NA	NS	NA	7/20/3011	<b>6.65</b>	NS	NA	10/12/2011	6.88 (7.02)	NS	NA	NS	NA	NA											
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		0.5		NA		NA		NA		NA		NA		NA		0.6		NA		NA										
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NS		2.6		NA		NA		NA		NS		4.0		NA		NA		NA												
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/9/2011	<b>6.13</b>	NS	NA	4/5/2011	7.14	NS	NA	NS	NA	8/4/2011	<b>6.38</b>	NS	NA	10/6/2011	6.56 (6.77)	NS	NA	NS	NA												
	Manganese (ug/L)	550		NA		NA		32		NA		NA		NA		NS		551		NA		NA		NA												
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/10/2011	<b>2.78</b>	NS	NA	4/5/2011	<b>2.61</b>	NS	NA	NS	NA	8/4/2011	1.46	NS	NA	10/11/2011	1.78	NS	NA	NS	NA												
	Fluoride (Mg/L)	0.36		NA		0.19		NA		NA		NA		NA		NA		0.36		NA		NA														
	Thallium (ug/L)	1		NA		<b>1.42</b>		NA		NA		NA		NA		NA		<0.50		NA		NA		0.62	NA	NA	NA									
	Field pH (S.U.)	6.5 - 8.5		NA		<b>5.73</b>		NA		<b>6.12</b>		NA		NA		NA		<b>6.45</b>		NA		<b>6.44</b>		NA	NA											
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/9/2011	<b>6</b>	NS	NA	4/5/2011	<b>6.4</b>	NS	NA	NS	NA	8/8/2011	<b>6</b>	NS	NA	10/5/2011	<b>6.3</b>	NS	NA	NS	NA												
	Chloride (mg/L)	38		NA		<b>46</b>		NA		<b>43</b>		NA		<b>43</b>		NA		<b>44</b>		NA		<b>44</b>		NA	<b>44</b>	NA	<b>44</b>	NA	<b>44</b>	NA	<b>44</b>	NA	<b>44</b>	NA		
	Sulfate (mg/L)	462		NA		455		NA		442		NA		424		NA		456		NA		456		NA	456	NA	456	NA	456	NA	456	NA	456	NA	456	NA
	Field pH (S.U.)	6.5-8.5		NA		6.71		NA		6.79		NA		<b>6.39</b>		NA		7.17 (7.24)		NA		<b>6.39</b>		NA	7.17 (7.24)	NA	<b>6.39</b>	NA	7.17 (7.24)	NA	<b>6.39</b>	NA	7.17 (7.24)	NA	<b>6.39</b>	NA
	TDS (mg/L)	1075		NA		<b>1090</b>		NA		<b>1190</b>		NA		<b>1090</b>		NA		<b>1090</b>		NA		<b>1090</b>		NA	<b>1090</b>	NA	<b>1090</b>	NA	<b>1090</b>	NA	<b>1090</b>	NA	<b>1090</b>	NA	<b>1090</b>	NA
	Gross Alpha minus Rn & U (pCi/L)	2		NA		0.7		NA		1.1		NA		0.8		NA		1.5		NA		1.5		NA	1.5	NA	1.5	NA	1.5	NA	1.5	NA	1.5	NA	1.5	NA
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	2/14/2011	<b>114</b>	NS	NA	4/11/2011	<b>109</b>	NS	NA	NS	NA	8/8/2011	105	NS	NA	10/5/2011	<b>143</b>	NS	NA	NS	NA												
	Manganese (ug/L)	1837		NA		1690		NA		1690		NA		1540		NA		1540		NA		1540		NA	1540	NA	1540	NA	1540	NA	1540	NA	1540	NA		
	Field pH (S.U.)	6.1 - 8.5		NA		<b>5.69</b>		NA		<b>6.01</b>		NA		<b>5.78</b>		NA		<b>6.07 (6.11)</b>		NA		<b>5.78</b>		NA	<b>6.07 (6.11)</b>	NA	<b>5.78</b>	NA	<b>6.07 (6.11)</b>	NA	<b>5.78</b>	NA	<b>6.07 (6.11)</b>	NA	<b>5.78</b>	NA
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	NS	NA	NS	NA	4/18/2011	<b>3010</b>	NS	NA	NS	NA	8/9/2011	1080	NS	NA	10/5/2011	1220	NS	NA	NS	NA												
	Manganese (ug/L)	5624		NA		4900		NA		4900		NA		4800		NA		4800		NA		4800		NA	4800	NA	4800	NA	4800	NA	4800	NA	4800	NA		
	TDS (mg/L)	4400		NA		4080		NA		4080		NA		4080		NA		4280		NA		4280		NA	4280	NA	4280	NA	4280	NA	4280	NA	4280	NA	4280	NA
	Field pH (S.U.)	6.46 - 8.5		NA		NS		NA		<b>6.45</b>		NA		<b>6.45</b>		NA		<b>6.20</b>		NA		<b>6.20</b>		NA	<b>6.20</b>	NA	<b>6.20</b>	NA	<b>6.20</b>	NA	<b>6.20</b>	NA	<b>6.20</b>	NA	<b>6.20</b>	NA
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/9/2011	1.5	NS	NA	4/1/2011	<b>4.6</b>	NS	NA	NS	NA	8/2/2011 8/30/11	1.9	NS	NA	10/3/2011	<b>3.7</b>	NS	NA	NS	NA												
	Field pH (S.U.)	6.4 - 8.5		NA		<b>5.99</b>		NA		<b>6.14</b>		NA		<b>6.14</b>		NA		<b>6.10 (6.20)</b>		NA		<b>6.10 (6.20)</b>		NA	<b>6.10 (6.20)</b>	NA	<b>6.10 (6.20)</b>	NA	<b>6.10 (6.20)</b>	NA	<b>6.10 (6.20)</b>	NA	<b>6.10 (6.20)</b>	NA		

Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
 NS = Not Required and Not Sampled  
 NR = Required and Not Reported  
 NA = Not Applicable  
 Exceedances are shown in yellow  
 Values in () parentheses are the field pH measurements for the resampled analyses.  
 ! Values below the GWCL. Field pH was monitored, tracked and reported for the required 8 quarters. The constituent was removed from accelerated reporting pursuant to the DRC letter dated 8/28/12.



Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2012 Results						Q2 2012 Results						Q3 2012 Results						Q4 2012 Results						Sample Frequency
			January 2012 Monthly Sample Date	January 2012 Monthly Result	Q1 2012 Sample Date	Q1 2012 Result	March 2012 Monthly Sample Date	March 2012 Monthly Result	April 2012 Monthly Sample Date	April 2012 Monthly Result	Q2 2012 Sample Date	Q2 2012 Result	June 2012 Monthly Sample Date	June 2012 Monthly Result	Q3 2012 Sample Date	Q3 2012 Result	August 2012 Monthly Sample Date	August 2012 Monthly Result	September 2012 Monthly Sample Date	September 2012 Monthly Result	October 2012 Monthly Sample Date	October 2012 Monthly Result	Q4 2012 Sample Date	Q4 2012 Result	December 2012 Monthly Sample Date	December 2012 Monthly Result	
Required Semi-Annual Sampling Wells, continued																											
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	2/28/2012	6.83	NS	NA	NS	NA	5/16/2012	6.86	NS	NA	7/19/2012	7.21	NS	NA	NS	NA	12/13/2012	6.71	NS	NA	Semi-Annually		
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		0.9		NA		NA		NA		4.86		NA		NA		NA		NA			
	Nitrate + Nitrite (as N) (mg/L)	2.83		3.9		NA		NA		3.7		NA		4		NA		NA		NA		NA		NA		3.96	NA
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/20/2012	6.61	NS	NA	NS	NA	5/16/2012	6.74	NS	NA	7/17/2012	7.10	NS	NA	NS	NA	12/5/2012	6.61	NS	NA	Semi-Annually		
	Manganese (ug/L)	550		NA		NA		49		NA		117		NA		NA		NA		NA		54.3		NA		NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/23/2012	2.25	NS	NA	NS	NA	5/10/2012	2.01	NS	NA	7/18/2012	4.7	NS	NA	NS	NA	11/29/2012	1.35	NS	NA	Semi-Annually		
	Fluoride (Mg/L)	0.36		NA		NA		0.14		NA		NA		NA		0.558		NA		NA		NA		NA			
	Thallium (ug/L)	1		NA		NA		0.74		NA		1.36		NA		NA		NA		NA		0.666		NA		NA	
	Field pH (S.U.)	6.5 - 8.5		6.03		NA		NA		6.21		NA		6.45		NA		NA		NA		6.01		NA		NA	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/28/2012	6.4	NS	NA	NS	NA	5/1/2012	6.2	NS	NA	7/16/2012	6.7	NS	NA	NS	NA	11/13/2012	6.9	NS	NA	Semi-Annually		
	Chloride (mg/L)	38		45		NA		46		NA		47		NA		44.2		NA		NA		NA					
	Sulfate (mg/L)	462		451		NA		446		NA		453		NA		451		NA		NA		NA					
	Field pH (S.U.)	6.5-8.5		7.24		NA		7.03		NA		7.40		NA		6.69		NA		NA		NA					
	TDS (mg/L)	1075		1140		NA		1170		NA		1150		NA		1070		NA		NA		NA					
	Gross Alpha minus Rn & U (pCi/L)	2		2.3		NA		0.8		NA		1.2		NA		1.33		NA		NA		NA					
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	2/28/2012	109	NS	NA	NS	NA	5/8/2012	114	NS	NA	7/16/2012	105	NS	NA	NS	NA	11/14/2012	115	NS	NA	Semi-Annually		
	Manganese (ug/L)	1837		NA		NA		1850		NA		1660		NA		1680		NA		NA		NA					
	Field pH (S.U.)	6.1 - 8.5		6.22		NA		6.15		NA		6.38 (5.81)		NA		5.98		NA		NA		NA					
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	2/22/2012	1310	NS	NA	NS	NA	5/8/2012	1400	NS	NA	7/16/2012	1270	NS	NA	NS	NA	11/14/2012	1350	NS	NA	Semi-Annually		
	Manganese (ug/L)	5624		NA		NA		6140		NA		5190		NA		5040		NA		NA		NA					
	TDS (mg/L)	4400		NA		NA		4600		NA		4420		NA		4430		NA		NA		NA					
	Field pH (S.U.)	6.46 - 8.5		7.12		NA		6.47		NA		6.68 (6.45)		NA		6.48		NA		NA		NA					
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/21/2012	1.8	NS	NA	NS	NA	4/30/2012	2.4	NS	NA	7/9/2012	1.4	NS	NA	NS	NA	11/6/2012	2.97	NS	NA	Semi-Annually		
	Field pH (S.U.)	6.4 - 8.5		6.57		NA		6.40		NA		6.72		NA		6.23		NA		NA		NA					

Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
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 NA = Not Applicable  
 Exceedances are shown in yellow  
 Values in () parentheses are the field pH measurements for the resampled analyses.

Q1 2013 Results									Q2 2013 Results						
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April Monthly 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Sample Frequency
Required Semi-Annual Sampling Wells, continued															
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	3/13/2013	6.50	NS	NA	NS	NA	5/20/2013	7.16	NS	NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		1.11		NA		NA		1.19		NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.61		NA		NA		4.21		NA	Semi-Annually
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/11/2013	6.37	NS	NA	NS	NA	5/23/2013	7.23	NS	NA	Semi-Annually
	Manganese (ug/L)	550		NA		137		NA		NA		24.3		NA	Semi-Annually
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	3/13/2013	2.0	NS	NA	NS	NA	5/22/2013	1.32	NS	NA	Semi-Annually
	Fluoride (Mg/L)	0.36		NA		0.355		NA		NA		0.211		NA	Semi-Annually
	Thallium (ug/L)	1		NA		0.88		NA		NA		0.618		NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.29		NA		NA		6.77		NA	Semi-Annually
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/25/2013	7.94	NS	NA	NS	NA	5/21/2013	7.09	NS	NA	Semi-Annually
	Chloride (mg/L)	38		NA		50.3		NA		NA		44.3		NA	Semi-Annually
	Sulfate (mg/L)	462		NA		431		NA		NA		497		NA	Semi-Annually
	Field pH (S.U.)	6.5-8.5		NA		7.03		NA		NA		7.58		NA	Semi-Annually
	TDS (mg/L)	1075		NA		1140		NA		NA		1110		NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2		NA		<1.0		NA		NA		1.57		NA	Semi-Annually
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	3/5/2013	110	NS	NA	NS	NA	5/15/2013	102	NS	NA	Semi-Annually
	Manganese (ug/L)	1837		NA		1680		NA		NA		1730		NA	Semi-Annually
	Field pH (S.U.)	6.1 - 8.5		NA		6.00		NA		NA		6.63		NA	Semi-Annually
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	3/6/2013	1350	NS	NA	NS	NA	5/23/2013	1250	NS	NA	Semi-Annually
	Manganese (ug/L)	5624		NA		5340		NA		NA		5140		NA	Semi-Annually
	TDS (mg/L)	4400		NA		4500		NA		NA		4340		NA	Semi-Annually
	Field pH (S.U.)	6.46 - 8.5		NA		6.36		NA		NA		6.88		NA	Semi-Annually
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/19/2013	5.02	NS	NA	NS	NA	5/13/2013	3.72	NS	NA	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		6.52		NA		NA		7.10		NA	Semi-Annually

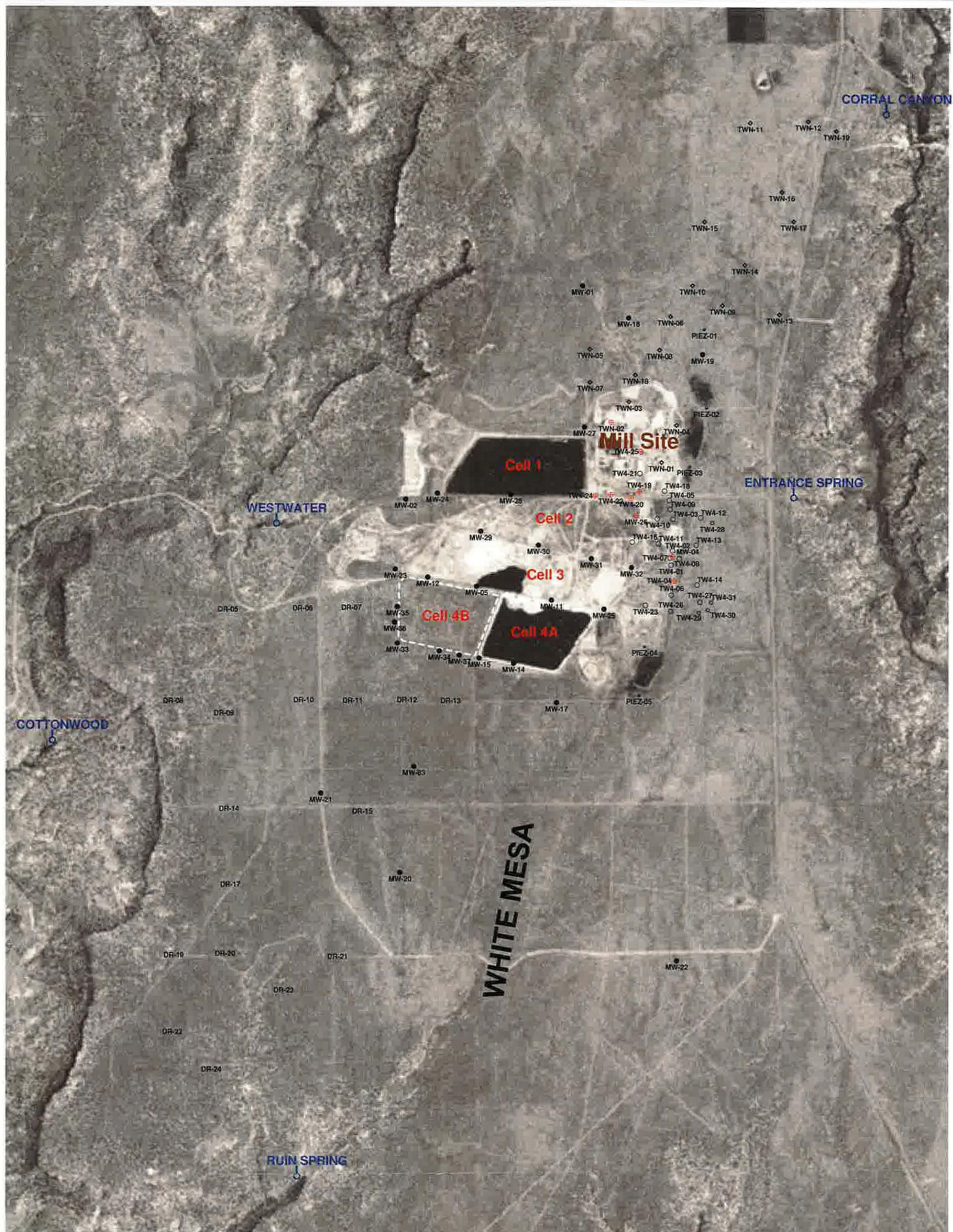
Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
 NS = Not Required and Not Sampled  
 NR = Required and Not Reported  
 NA = Not Applicable  
 Exceedances are shown in yellow  
 Values in ( ) parentheses are the field pH measurements for the resampled analyses.  
 \* Data are reported from the 6/5/13 chlorofm program sample.

Table 3 – GWCL Exceedances for Second Quarter 2013 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2013 Results					Q2 2013 Results					Sample Frequency		
			January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April Monthly 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result		June 2013 Monthly Sample Date	June 2013 Monthly Result
<b>Required Quarterly Sampling Wells</b>															
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	1/23/2013	7.45	2/20/2013	7.46	3/20/2013	7.33	4/16/2013	6.17	5/14/2013	7.88	6/25/2013	7.47	Quarterly
	Manganese (ug/L)	131.29		115		139		164		181		144		135	Quarterly
MW-14 (Class III)	Manganese (ug/L)	2230.30	1/23/2013	1930	2/26/2013	2250	3/20/2013	2110	4/16/2013	2060	5/14/2013	2200	6/25/2013	1990	Quarterly
	Field pH (S.U.)	6.5 - 8.5		6.48		6.52		6.48		7.58		7.39		6.54	Quarterly
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/22/2013	6.65	2/20/2013	6.62	3/19/2013	6.41	4/17/2013	7.00	5/14/2013	7.19	6/24/2013	6.61	Quarterly
	Cadmium (ug/L)	1.5		NS		1.35		1.40		1.36		1.52		1.31	Quarterly
	Chloride (mg/L)	35		NS		36.1		NS		NS		28.1		30.4	Quarterly
	Uranium	6.5		5.97		5.39		5.68		5.56		5.88		5.35	Quarterly
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/24/2013	1.66	2/20/2013	1.38	3/20/2013	1.61	4/17/2013	1.73	5/23/2013	2.01	6/5/2013 6/25/2013	3.04 2.11*	Quarterly
	Uranium (ug/L)	41.8		65.7		57.8		69		58.8		64.3		71.3	Quarterly
	Chloroform (ug/L)	70		1270		1500		1340		1680		1210		4030*	Quarterly
	Chloride (mg/L)	58.31		63.5		77		73.6		70.4		63.1		87.8 77.9*	Quarterly
	Field pH (S.U.)	6.74 - 8.5		6.51		6.71		6.70		6.96		7.31		6.85	Quarterly
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.49		5.53		8.31		10.2		4.07		52.4* [12.1]	Quarterly
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/23/2013	19.2	2/26/2013	21.4	3/20/2013	14.3	4/17/2013	16.8	5/15/2013	18.8	6/25/2013	16.1	Quarterly
	Chloride (mg/L)	128		128		129		126		117		119		127	Quarterly
	Uranium (ug/L)	8.32		8.36		7.4		6.85		7.08		6.31		8.22	Quarterly
	Selenium (ug/L)	34		37.2		42.3		39		37.3		39.4		32.1	Quarterly
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/22/2013	22.8	2/19/2013	19.3	3/19/2013	19.1	4/16/2013	18.8	5/13/2013	23.8	6/24/2013	20.0	Quarterly
	TDS (mg/L)	1320		1270		1390		1420		1260		1540		1380	Quarterly
	Chloride (mg/L)	143		176		174		168		171		169		179	Quarterly
	Selenium (ug/L)	71		NS		74.1		81.8		72.9		75.9		73.7	Quarterly
	Field pH (S.U.)	6.5 - 8.5		6.94		7.32		7.28		6.37		7.92		7.10	Quarterly
	Sulfate (mg/L)	532		611		644		611		668		630		659	Quarterly
MW-35 (Class II)	Manganese (ug/L)	200	1/23/2013	247	2/26/2013	272	3/19/13	246	4/17/2013	243	5/13/2013	252	6/24/2013	243	Quarterly
	Thallium (ug/l)	0.5		<0.5		<0.5		0.505		<0.5		0.715		0.946	Quarterly
	Molybdenum (ug/L)	10		NS		<10		<10		<10		<10		<10	Quarterly
	Gross Alpha minus Rn & U (pCi/L)	3.75		6.62		5.09		9.51		4.75		4.92		3.24	Quarterly
	Selenium (ug/L)	12.5		11.0		10.8		22.6		11.8		16.1		13.6	Quarterly
	Uranium (ug/L)	7.5		23.6		21.3		22.1		20.0		22.0		19.3	Quarterly
<b>Required Semi-Annual Sampling Wells</b>															
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	3/12/2013	173	NS	NA	NS	NA	5/21/2013	127	NS	NA	Semi-Annually
	Tetrahydrofuran (ug/L)	11.5		NA		12.6		NA		3.26		NA		Semi-Annually	
	Sulfate (mg/L)	838		NA		761		NA		839		NA		Semi-Annually	
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	3/12/2013	51.8	NS	NA	NS	NA	5/22/2013	46.3	NS	NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.20		NA		7.14		NA		Semi-Annually	
	Fluoride (Mg/L)	0.68		NA		0.902		NA		0.994		NA		Semi-Annually	
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/13/2013	6.84	NS	NA	NS	NA	5/23/2013	7.10	NS	NA	Semi-Annually
	Sulfate (mg/L)	3640		NA		3480		NA		3120		NA		Semi-Annually	
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.22		NA		1.11		NA		Semi-Annually	
	TDS (mg/L)	5805		NA		5750		NA		6020		NA		Semi-Annually	
	Selenium (ug/L)	89		NA		88.7		NA		75.6		NA		Semi-Annually	
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	3/11/2013	36	NS	NA	NS	NA	5/14/2013	1.33	NS	NA	Semi-Annually
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/6/2013	6.56	NS	NA	NS	NA	5/15/2013	7.19	NS	NA	Semi-Annually
	Selenium (ug/L)	25		NA		19.6		NA		19.0		NA		Semi-Annually	
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	3/5/2013	137	NS	NA	NS	NA	5/15/2013	120	NS	NA	Semi-Annually
	Iron (ug/L)	81.7		NA		<30		NA		<30		NA		Semi-Annually	
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/25/2013	3.26	NS	NA	NS	NA	5/20/2013	2.81	NS	NA	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		1270		NA		1860		NA		Semi-Annually	
	Field pH (S.U.)	6.25-8.5		NA		6.35		NA		6.97		NA		Semi-Annually	
	TDS (mg/L)	3198.77		NA		3350		NA		3160		NA		Semi-Annually	

Tab A

Site Plan and Perched Well Locations White Mesa Site



**EXPLANATION**

- TW4-19  perched chloroform or nitrate pumping well
- MW-5  perched monitoring well
- TW4-12  temporary perched monitoring well
- TWN-10  temporary perched nitrate monitoring well
- PIEZ-1  perched piezometer
- TW4-28  temporary perched monitoring well installed March, 2013
- RUIN SPRING  seep or spring



**HYDRO  
GEO  
CHEM, INC.**

**SITE PLAN SHOWING PERCHED WELL  
AND PIEZOMETER LOCATIONS  
WHITE MESA SITE**

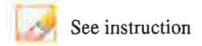
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug13/Uwelloc13.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-01 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-01.05212013

Date and Time for Purging 5/21/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) GED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW Prev. Well Sampled in Sampling Event MW-27

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 118.00

Depth to Water Before Purging 64.00 Casing Volume (V) 4" Well: 0 (.653h)  
 3" Well: 19.81 (.367h)

Conductance (avg) 2076 pH of Water (avg) 7.57

Well Water Temp. (avg) 15.08 Redox Potential (Eh) 263 Turbidity 0

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 8°

Time	<u>1025</u>	Gal. Purged	<u>47.74</u>
Conductance	<u>2074</u>	pH	<u>7.57</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1026</u>	Gal. Purged	<u>47.95</u>
Conductance	<u>2073</u>	pH	<u>7.57</u>
Temp. °C	<u>15.09</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1027</u>	Gal. Purged	<u>48.17</u>
Conductance	<u>2083</u>	pH	<u>7.57</u>
Temp. °C	<u>15.09</u>		
Redox Potential Eh (mV)	<u>262</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1028</u>	Gal. Purged	<u>48.39</u>
Conductance	<u>2074</u>	pH	<u>7.57</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>261</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

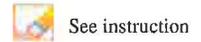
Comment

Arrived on site at 0640. Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 225 minutes. water was clear. Purge ended and samples collected at 1030. Left site at 1041

**MW-01 05-21-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-02

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-02\_05212013

Date and Time for Purging 5/21/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 128.80

Depth to Water Before Purging 109.64

Casing Volume (V) 4" Well: 12.51 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4101

pH of Water (avg) 7.45

Well Water Temp. (avg) 15.78

Redox Potential (Eh) 341

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 24°

Time	<u>1425</u>	Gal. Purged	<u>24.95</u>
Conductance	<u>4109</u>	pH	<u>7.46</u>
Temp. °C	<u>15.80</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1426</u>	Gal. Purged	<u>25.17</u>
Conductance	<u>4104</u>	pH	<u>7.45</u>
Temp. °C	<u>15.81</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1427</u>	Gal. Purged	<u>25.38</u>
Conductance	<u>4092</u>	pH	<u>7.45</u>
Temp. °C	<u>15.79</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1428</u>	Gal. Purged	<u>25.60</u>
Conductance	<u>4100</u>	pH	<u>7.45</u>
Temp. °C	<u>15.73</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1225. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1230. Purged well for a total of 120 minutes.  
 water was clear. Purge ended and samples collected at 1430.  
 Left site at 1448

MW-02 05-21-2013

Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-03

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-03\_05222013

Date and Time for Purging: 5/22/2013

and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW

Prev. Well Sampled in Sampling Event: MW-03A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01 ft): 9700

Depth to Water Before Purging: 82.75

Casing Volume (V) 4" Well: 0 (.653h)

3" Well: 5.22 (.367h)

Conductance (avg): 6317

pH of Water (avg): 7.12

Well Water Temp. (avg): 15.58

Redox Potential (Eh): 330

Turbidity: 0

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 26°

Time	<u>1400</u>	Gal. Purged	<u>11.44</u>
Conductance	<u>6341</u>	pH	<u>7.10</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1401</u>	Gal. Purged	<u>11.64</u>
Conductance	<u>6315</u>	pH	<u>7.13</u>
Temp. °C	<u>15.60</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1402</u>	Gal. Purged	<u>11.85</u>
Conductance	<u>6294</u>	pH	<u>7.13</u>
Temp. °C	<u>15.65</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1403</u>	Gal. Purged	<u>12.06</u>
Conductance	<u>6320</u>	pH	<u>7.14</u>
Temp. °C	<u>15.60</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>0</u>		

D:\2008\5-21-13 - EF-GWP\052213\13052213 - 052213\13052213\_16:18 JM from MW03030603

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See Instruction

Comment

Arrived on site at 1201. Tanner present for purge and sampling event.  
 Purge began at 1305. Purged well for a total of 60 minutes.  
 water was clear. Purge ended and samples collected at 1405  
 Left site at 1415

Do not touch this cell (SheetName)



ATTACHMENT I-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2<sup>nd</sup> Quarter Ground Water 2013

Location (well name): MW-03A

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-03A\_05232013

Date and Time for Purging 5/22/2013

and Sampling (if different) 5/23/2013

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennel) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-37

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01 ft): 95.00

Depth to Water Before Purging 84.74

Casing Volume (V) 4" Well: 6.69 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 6595

pH of Water (avg) 7.02

Well Water Temp. (avg) 15.49

Redox Potential (Eh) 328

Turbidity 0

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1300</u>	Gal. Purged	<u>11.44</u>
Conductance	<u>6589</u>	pH	<u>6.84</u>
Temp. °C	<u>18.92</u>		
Redox Potential Eh (mV)	<u>328</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0659</u>	Gal. Purged	<u>.206</u>
Conductance	<u>6605</u>	pH	<u>7.14</u>
Temp. °C	<u>13.73</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0707</u>	Gal. Purged	<u>1.66</u>
Conductance	<u>6593</u>	pH	<u>7.10</u>
Temp. °C	<u>13.84</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

4/28/13 9:21 AM - QAP Rev. 7.3 04.04.13 7. Temp. 18.92 - Purged 11.44 Gal. from MW-03A-03A

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =  64.42

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See Instruction

**Comment**

Arrived on site at 1201. Tanner and Garrin present for purge. Purge began at 1205  
Purged well for a total of 55 minutes. Purged well dry! water was clear.  
Purge ended at 1300. Left site at 1415  
Arrived on site at 0653. Samples pulled at 0700 Tanner and Garrin present.  
Left site at 0708 Depth to water was 87.90

Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-05

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-05\_05142013

Date and Time for Purging 5/14/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) GED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 µMHOS/cm

Well Depth(0.01ft): 138.50

Depth to Water Before Purging 106.08

Casing Volume (V) 4" Well: 21.17 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 3274

pH of Water (avg) 7.99

Well Water Temp. (avg) 15.42

Redox Potential (Eh) 173

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 24°

Time	<u>1615</u>	Gal. Purged	<u>42.31</u>
Conductance	<u>3289</u>	pH	<u>7.95</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1616</u>	Gal. Purged	<u>42.53</u>
Conductance	<u>3270</u>	pH	<u>8.00</u>
Temp. °C	<u>15.38</u>		
Redox Potential Eh (mV)	<u>170</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1617</u>	Gal. Purged	<u>42.74</u>
Conductance	<u>3259</u>	pH	<u>8.01</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>165</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1618</u>	Gal. Purged	<u>42.96</u>
Conductance	<u>3280</u>	pH	<u>8.01</u>
Temp. °C	<u>15.41</u>		
Redox Potential Eh (mV)	<u>162</u>		
Turbidity (NTU)	<u>0</u>		

81-2928-5-174 - GH-QAP rev7.3 04.04.13 / Temp/ater-(1952) - Printed 4/4/2013 10:16 AM from MICR02003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

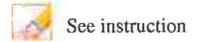
Arrived on site at 1255. Tanner and Garrin present for purge and sampling event. Purge began at 1300. Purged well for a total of 200 minutes. water was mostly clear. Purge ended and samples collected at 1620  
Left site at 1630

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03/2009, 5.1.75 - 08-09P 1497.3 04.04.13



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2<sup>nd</sup> Quarter Groundwater 2013

Location (well name): MW-11 Sampler Name and initials: Tanner Holliday AH

Field Sample ID: MW-11-05142013

Date and Time for Purging: 5/14/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-36

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 87.24 Casing Volume (V) 4" Well: 27.92 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3178 pH of Water (avg): 7.88

Well Water Temp. (avg): 14.94 Redox Potential (Eh): 140 Turbidity: 0

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 15°

Time	<u>1235</u>	Gal. Purged	<u>55.33</u>
Conductance	<u>3179</u>	pH	<u>7.88</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>147</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1236</u>	Gal. Purged	<u>55.55</u>
Conductance	<u>3177</u>	pH	<u>7.88</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>142</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1237</u>	Gal. Purged	<u>55.76</u>
Conductance	<u>3176</u>	pH	<u>7.88</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>137</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1238</u>	Gal. Purged	<u>55.98</u>
Conductance	<u>3180</u>	pH	<u>7.88</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>136</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

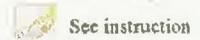
Comment

Arrived on site at 0818. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0820. Purged well for a total of 260 minutes  
 Water was clear. purge ended and samples collected at 1240.  
 Left site at 1250

**MW-11 05-14-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 2<sup>nd</sup> Quarter Groundwater 2013

Location (well name): MW-12 Sampler Name and initials: Tanner Heilday/TH

Field Sample ID: MW-12.05152013

Date and Time for Purging: 5/15/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-15

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01 ft): 130.40

Depth to Water Before Purging: 108.22 Casing Volume (V) 4" Well: 14.48 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 4599 pH of Water (avg): 7.19

Well Water Temp. (avg): 14.80 Redox Potential (Eh): 324 Turbidity: 6.5

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 8°

Time	<u>0900</u>	Gal. Purged	<u>28.21</u>
Conductance	<u>4602</u>	pH	<u>7.20</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>6.4</u>		

Time	<u>0901</u>	Gal. Purged	<u>28.42</u>
Conductance	<u>4600</u>	pH	<u>7.20</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>6.5</u>		

Time	<u>0902</u>	Gal. Purged	<u>28.64</u>
Conductance	<u>4597</u>	pH	<u>7.20</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>322</u>		
Turbidity (NTU)	<u>6.6</u>		

Time	<u>0903</u>	Gal. Purged	<u>28.86</u>
Conductance	<u>4597</u>	pH	<u>7.19</u>
Temp. °C	<u>14.74</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>6.7</u>		

81.2020.5.104 - GH-QAP Rev. 7.3 04.04.13 / Template-[1502] - Printed 4/4/2013 10:16 AM from DMSUR0003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0646. Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 135 minutes. water was a little murky. purge ended and samples collected at 0905, left site at 0915

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-14 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-14\_05142013

Date and Time for Purging: 5/14/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-11

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/cm Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.46 Casing Volume (V) 4" Well: 16.48 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 4314 pH of Water (avg): 7.38

Well Water Temp. (avg): 14.99 Redox Potential (Eh): 280 Turbidity: 0

Weather Cond.: Partly cloudy Ext'l Amb. Temp. °C (prior sampling event): 19°

Time	<u>1340</u>	Gal. Purged	<u>32.55</u>
Conductance	<u>4313</u>	pH	<u>7.38</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>288</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1341</u>	Gal. Purged	<u>32.76</u>
Conductance	<u>4322</u>	pH	<u>7.39</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1342</u>	Gal. Purged	<u>32.98</u>
Conductance	<u>4309</u>	pH	<u>7.38</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>276</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1343</u>	Gal. Purged	<u>33.20</u>
Conductance	<u>4313</u>	pH	<u>7.39</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>275</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>General Inorganics</i>								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 1107. Tanner and Garcia present for purge and sampling event. Purge began at 1110. Purged well for a total of 155 minutes. water was clear. Purge ended and samples collected at 1345. Left site at 1356

91-1025 5-181 - DR-QAP 1007.3 04-04-13



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2<sup>nd</sup> Quarter Groundwater 2013

Location (well name): MW-15

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-15\_05152013

Date and Time for Purging 5/15/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-05

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm

Well Depth(0.01 ft): 137.00

Depth to Water Before Purging 106.02

Casing Volume (V) 4" Well: 20.22 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4721

pH of Water (avg) 7.27

Well Water Temp. (avg) 14.63

Redox Potential (Eh) 315

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 8°

Time	<u>0945</u>	Gal. Purged	<u>40.14</u>
Conductance	<u>4719</u>	pH	<u>7.25</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0946</u>	Gal. Purged	<u>40.36</u>
Conductance	<u>4724</u>	pH	<u>7.28</u>
Temp. °C	<u>14.62</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0947</u>	Gal. Purged	<u>40.57</u>
Conductance	<u>4719</u>	pH	<u>7.29</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>314</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0948</u>	Gal. Purged	<u>40.79</u>
Conductance	<u>4724</u>	pH	<u>7.27</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>313</u>		
Turbidity (NTU)	<u>0</u>		

91-2020-5-100 - 05-08-09 rev. 7.3 on 04.13 / Template: [1565] - Version: 4/4/2013 14:13 2013

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =  186.45

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0634. Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 190 minutes. water was clear. Purge ended and samples collected at 0950. Left site at 1000.

Do not touch this cell (SheetName)



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-17 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-17-05222013

Date and Time for Purging: 5/22/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-24

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/cm Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 73.22 Casing Volume (V) 4" Well: 25.32 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 4422 pH of Water (avg): 7.12

Well Water Temp. (avg): 15.00 Redox Potential (Eh): 300 Turbidity: 143

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 11°

Time	<u>1045</u>	Gal. Purged	<u>50.99</u>
Conductance	<u>4425</u>	pH	<u>7.13</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>135</u>		

Time	<u>1046</u>	Gal. Purged	<u>51.21</u>
Conductance	<u>4428</u>	pH	<u>7.13</u>
Temp. °C	<u>15.03</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>145</u>		

Time	<u>1047</u>	Gal. Purged	<u>51.42</u>
Conductance	<u>4420</u>	pH	<u>7.12</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>301</u>		
Turbidity (NTU)	<u>150</u>		

Time	<u>1048</u>	Gal. Purged	<u>51.64</u>
Conductance	<u>4415</u>	pH	<u>7.12</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>145</u>		

03-2020-8-214 - GFD-OP rev7.3 04-04-13 / Template-[1567] - Printed 4/4/2013 10:17 AM from DMS0308003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0646. Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 240 minutes. water was murky with tiny little bubbles. purge ended and samples collected at 1050  
Left site at 1100

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**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-18 Sampler Name and initials: Tanner Holliday ATH

Field Sample ID MW-18\_05202013

Date and Time for Purging 5/20/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual G-W Prev. Well Sampled in Sampling Event MW-19

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01 ft): 134.00

Depth to Water Before Purging 70.24 Casing Volume (V) 4" Well: 41.63 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 3847 pH of Water (avg) 6.95

Well Water Temp. (avg) 14.79 Redox Potential (Eh) 331 Turbidity 13.2

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1315</u>	Gal. Purged	<u>83.54</u>
Conductance	<u>3840</u>	pH	<u>6.93</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>12.1</u>		

Time	<u>1316</u>	Gal. Purged	<u>83.76</u>
Conductance	<u>3848</u>	pH	<u>6.95</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>333</u>		
Turbidity (NTU)	<u>14</u>		

Time	<u>1317</u>	Gal. Purged	<u>83.97</u>
Conductance	<u>3851</u>	pH	<u>6.96</u>
Temp. °C	<u>14.71</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>11.5</u>	<u>13.5</u>	

Time	<u>1318</u>	Gal. Purged	<u>84.19</u>
Conductance	<u>3850</u>	pH	<u>6.97</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>13.5</u>		

80-2008-5-104 - 04/04/2013 04:04:13 / tempdata [457] - Printed 4/17/2013 10:15 AM from 2008040408

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See Instruction

Comment

Arrived on site at 0645. Tanner and Garrin present for purge and sampling event. Purge began at 0650 Purged well for a total of 390 minutes. water was mostly clear. Purge ended and samples collected at 1320. Left site at 1830

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-19

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-19\_05202013

Date and Time for Purging 5/20/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual G-W

Prev. Well Sampled in Sampling Event MW-28

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01 ft): 149.00

Depth to Water Before Purging 56.26

Casing Volume (V) 4" Well: 60.53 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 1930

pH of Water (avg) 7.16

Well Water Temp. (avg) 14.79

Redox Potential (Eh) 344

Turbidity 17.2

Weather Cond. Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1555</u>	Gal. Purged	<u>129.11</u>
Conductance	<u>1934</u>	pH	<u>7.18</u>
Temp. °C	<u>14.92</u>		
Redox Potential Eh (mV)	<u>344</u>		
Turbidity (NTU)	<u>16</u>		

Time	<u>1556</u>	Gal. Purged	<u>129.33</u>
Conductance	<u>1927</u>	pH	<u>7.15</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>17</u>		

Time	<u>1557</u>	Gal. Purged	<u>129.54</u>
Conductance	<u>1930</u>	pH	<u>7.15</u>
Temp. °C	<u>14.75</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>18</u>		

Time	<u>1558</u>	Gal. Purged	<u>129.76</u>
Conductance	<u>1931</u>	pH	<u>7.16</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>342</u>		
Turbidity (NTU)	<u>18</u>		

04-2013 5-2-10 - GH-QAP rev7.3 04-04-13 / Template-1565 / Printed 4/4/2013 10:12 AM from ENCL0000028

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0555. Tanner and Garrin present for purge and sampling event. Purge began at 0600. Purged well for a total of 600 minutes. water was a little murky. Raining at time of samples. sampling. samples taken at 1600. Left site at 1610

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01-2025-5-201 - GSDP ver 7.3 04.04.13



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-20.06032013

Date and Time for Purging: 5/20/2013

and Sampling (if different): 6/3/2013

Well Purging Equip Used:  pump or  buller

Well Pump (if other than Bonnet): N/A

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW

Prev. Well Sampled in Sampling Event: MW-18

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/cm

Well Depth(0.01 ft): 91.00

Depth to Water Before Purging: 84.14

Casing Volume (V) 4" Well: 4.47 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 6877

pH of Water (avg): 7.87

Well Water Temp. (avg): 16.06

Redox Potential (Eh): 356

Turbidity: 130

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 21°

Time	<u>1223</u>	Gal. Purged	<u>6</u>
Conductance	<u>7069</u>	pH	<u>7.93</u>
Temp. °C	<u>15.91</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>130</u>	<u>130</u>	

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1349</u>	Gal. Purged	<u>0</u>
Conductance	<u>6772</u>	pH	<u>7.85</u>
Temp. °C	<u>16.20</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1354</u>	Gal. Purged	<u>0</u>
Conductance	<u>6790</u>	pH	<u>7.83</u>
Temp. °C	<u>16.09</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

*Before*

*After*

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 1210. Bailing began at 1214. Bailed 5 gallons into a bucket bucket. Took parameters from the bucket. Continued to bail 2 more gallons. Bailed well dry. Water started out clear but quickly got dirty. Bailing ended at 1227. Left site at 1230.

Arrived on site at 1341. Turner and Carrin present to collect samples. Depth to water was 88.94. Samples bailed at 1350. Gross Alpha and metals were filtered through a peristaltic pump. Left site at 1356.

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-22 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-22-05222013

Date and Time for Purging: 5/22/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-17

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 67.46 Casing Volume (V) 4" Well: 36.39 (.653h)  
 3" Well: 6 (.367h)

Conductance (avg): 8372 pH of Water (avg): 5.14

Well Water Temp. (avg): 15.05 Redox Potential (Eh): 435 Turbidity: 3.7

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 14°

Time: 1310 Gal. Purged: 64.01

Conductance: 8379 pH: 5.11

Temp. °C: 15.06

Redox Potential Eh (mV): 430

Turbidity (NTU): 3.9

Time: 1311 Gal. Purged: 64.23

Conductance: 8375 pH: 5.14

Temp. °C: 15.05

Redox Potential Eh (mV): 435

Turbidity (NTU): 3.7

Time: 1312 Gal. Purged: 64.44

Conductance: 8370 pH: 5.15

Temp. °C: 15.05

Redox Potential Eh (mV): 437

Turbidity (NTU): 3.7

Time: 1313 Gal. Purged: 64.66

Conductance: 8365 pH: 5.18

Temp. °C: 15.04

Redox Potential Eh (mV): 439

Turbidity (NTU): 3.8

83-3029 6-206 - GHQP rev7.2 04.04.13 / Template (1549) - Printed 4/4/2013 10:17 AM from MEMPHIS002

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

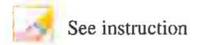
**Comment**

Arrived on site at 0810. Tanner and Guerin present for ~~purge~~ purge and sampling event. Purge began at 0815. Purged well for a total of 300 minutes. Water was mostly clear. Purge ended and samples collected at 1315. Left site at 1325

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground water 2013

Location (well name): MW-23 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-23\_05232013

Date and Time for Purging 5/15/2013 and Sampling (if different) 5/23/2013

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semi-annual GW Prev. Well Sampled in Sampling Event MW-12

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 132.00

Depth to Water Before Purging 114.05 Casing Volume (V) 4" Well: 11.72 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4303 pH of Water (avg) 7.15

Well Water Temp. (avg) 15.32 Redox Potential (Eh) 327 Turbidity 8.9

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1100</u>	Gal. Purged	<u>20.80</u>
Conductance	<u>4301</u>	pH	<u>6.99</u>
Temp. °C	<u>17.72</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>8.9</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0719</u>	Gal. Purged	<u>.208</u>
Conductance	<u>4306</u>	pH	<u>7.25</u>
Temp. °C	<u>14.16</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0725</u>	Gal. Purged	<u>1.24</u>
Conductance	<u>4303</u>	pH	<u>7.23</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged Before  gallon(s) After

Pumping Rate Calculation 19.76

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated  19.76

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth  Sample Time

 See instruction

Comment

Arrived on site at 0920. Tanner and Garrin present for purge. Purge began at 0925. Purged well for a total of 95 minutes. water was a little murky. Purged well dry! Purge ended at 1100. Left site at 1102. Arrived on site at 0713, Tanner and Garrin present to collect samples. Depth to water was 122.25. Samples collected at 0720 left site at 0726

**MW-23 05-15-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-24 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-24-05222013

Date and Time for Purging: 5/21/2013 and Sampling (if different): 5/22/2013

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-02

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 994  $\mu$ MHOS/cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 114.42 Casing Volume (V) 4" Well: 3.64 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 4691 pH of Water (avg): 6.55

Well Water Temp. (avg): 16.43 Redox Potential (Eh): 366 Turbidity: 19.3

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 25°

Time	<u>1450</u>	Gal. Purged	<u>13.44</u>
Conductance	<u>4123</u>	pH	<u>6.13</u>
Temp. °C	<u>23.35</u>		
Redox Potential Eh (mV)	<u>366</u>		
Turbidity (NTU)	<u>19.3</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0624</u>	Gal. Purged	<u>.192</u>
Conductance	<u>4972</u>	pH	<u>6.76</u>
Temp. °C	<u>13.00</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0638</u>	Gal. Purged	<u>2.68</u>
Conductance	<u>4978</u>	pH	<u>6.77</u>
Temp. °C	<u>12.95</u>		
Redox Potential Eh (mV)	<u>270</u>		
Turbidity (NTU)			

Before

After

81-2025 5.0-02 - GH-QAP rev7.3 04.04.13 / Template-[156] - Printed 4/4/2013 10:27 AM from desktop02

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

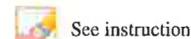
Arrived on site at 1335 Tanner and Garrin present for purge. Purge began at 1340. Purged well for 70 minutes. Purged well dry! water was a little murky. Left site at 1452  
Arrived on site at 0620. Tanner and Garrin present to collect samples. samples collected at 0625. Depth to water was 113.80. Left site at 0640

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25.05142013

Date and Time for Purging 5/14/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event S. miannual GW

Prev. Well Sampled in Sampling Event MW-35

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging 73.02

Casing Volume (V) 4" Well: 27.41 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 3557

pH of Water (avg) 7.17

Well Water Temp. (avg) 14.70

Redox Potential (Eh) 296

Turbidity 0

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1050</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>3557</u>	pH	<u>7.15</u>
Temp. °C	<u>14.71</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1051</u>	Gal. Purged	<u>54.46</u>
Conductance	<u>3555</u>	pH	<u>7.16</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>297</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1052</u>	Gal. Purged	<u>54.68</u>
Conductance	<u>3556</u>	pH	<u>7.18</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>295</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1053</u>	Gal. Purged	<u>54.90</u>
Conductance	<u>3563</u>	pH	<u>7.19</u>
Temp. °C	<u>14.71</u>		
Redox Potential Eh (mV)	<u>293</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

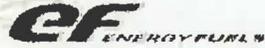
Sample Time

 See instruction

Comment

Arrived on site at 0635. Tanner and Garrin present for purge and sampling events. Purge began at 0640. Purged well for a total of 255 minutes. water was clear. Purge ended and samples collected at 1055. Left site at 1105

**MW-25 05-14-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-26 Sampler Name and initials: Tanner Holiday

Field Sample ID: MW-26-05232013

Date and Time for Purging: 5/23/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-29

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01 ft): 121.33

Depth to Water Before Purging: 60.20 Casing Volume (V) 4" Well: 39.91 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3756 pH of Water (avg): 7.31

Well Water Temp. (avg): 14.50 Redox Potential (Eh): 254 Turbidity: 1.5

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 9°

Time	<u>07:39</u>	Gal. Purged	<u>0</u>
Conductance	<u>3756</u>	pH	<u>7.31</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>254</u>		
Turbidity (NTU)	<u>1.5</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

51-2575-6-218 - 2M-QAP rev7.3 04/04/13 / Template-15574 - Printed 8/14/2013 10:12 AM from 20130804037

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0733. Tunner and Garrin present to collect samples. Samples collected at 0740. water was clear. Left site at 0744.

Continuous Pumping Well

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-27.05212013

Date and Time for Purging 5/21/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-20

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01 ft): 95.00

Depth to Water Before Purging 52.06

Casing Volume (V) 4" Well: 28.03 (.653h)  
3" Well: 6 0 (.367h)

Conductance (avg) 1746

pH of Water (avg) 7.57

Well Water Temp. (avg) 14.93

Redox Potential (Eh) 331

Turbidity 0

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1055</u>	Gal. Purged	<u>57.50</u>
Conductance	<u>1744</u>	pH	<u>7.57</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1056</u>	Gal. Purged	<u>57.71</u>
Conductance	<u>1748</u>	pH	<u>7.58</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1057</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>1748</u>	pH	<u>7.58</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1058</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>1747</u>	pH	<u>7.58</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm,  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>General Inorganics</i>								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

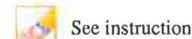
See instruction

**Comment**

Arrived on site at 0625. Tanner and Garrin present for purge and sampling event. Purge began at 0630. Purged well for a total of 270 minutes. water was clear. Purge ended and samples collected at 1100. Left site at 1111.



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-28\_05152013

Date and Time for Purging 5/15/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-30

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 76.00

Casing Volume (V) 4" Well: 22.20 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4368

pH of Water (avg) 6.58

Well Water Temp. (avg) 15.04

Redox Potential (Eh) 341

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 21°

Time	<u>1440</u>	Gal. Purged	<u>44.48</u>
Conductance	<u>4354</u>	pH	<u>6.46</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1441</u>	Gal. Purged	<u>44.70</u>
Conductance	<u>4354</u>	pH	<u>6.62</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1442</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>4379</u>	pH	<u>6.64</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1443</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>4388</u>	pH	<u>6.63</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>339</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

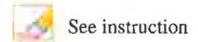
Comment

Arrived on site at 1110. Tanner and Garrin Present for purge and sampling event. Purge began at 1115. Purged well for a total of 210 minutes. water was clear. Purge ended and samples collected at 1445. Left site at 1456

**MW-28 05-15-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2<sup>nd</sup> Quarter Groundwater 2013

Location (well name): MW-29 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-29\_05232013

Date and Time for Purging: 5/23/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-03

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 127.00

Depth to Water Before Purging: 101.54 Casing Volume (V) 4" Well: 16.62 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 5176 pH of Water (avg): 6.90

Well Water Temp. (avg): 14.54 Redox Potential (Eh): 231 Turbidity: 63

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	<u>0855</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>5181</u>	pH	<u>6.93</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>229</u>		
Turbidity (NTU)	<u>61</u>		

Time	<u>0856</u>	Gal. Purged	<u>33.85</u>
Conductance	<u>5180</u>	pH	<u>6.91</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>230</u>		
Turbidity (NTU)	<u>63</u>		

Time	<u>0857</u>	Gal. Purged	<u>34.06</u>
Conductance	<u>5175</u>	pH	<u>6.90</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>232</u>		
Turbidity (NTU)	<u>64</u>		

Time	<u>0858</u>	Gal. Purged	<u>34.28</u>
Conductance	<u>5171</u>	pH	<u>6.88</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>228</u>	<u>233</u>	
Turbidity (NTU)	<u>65</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0605. Tanner and Garrin Present for purge and sampling event. Purge began at 0610. Purged well for a total of 160 minutes. water was murky with a little brown color. Purge ended and samples collected at 0900 Left site at 0915

**MW-29 05-23-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30.05152013

Date and Time for Purging: 5/15/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-23

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 75.14 Casing Volume (V) 4" Well: 22.76 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2253 pH of Water (avg): 7.51

Well Water Temp. (avg): 14.47 Redox Potential (Eh): 278 Turbidity: 0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 15°

Time	<u>1335</u>	Gal. Purged	<u>44.48</u>
Conductance	<u>2251</u>	pH	<u>7.49</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1336</u>	Gal. Purged	<u>44.70</u>
Conductance	<u>2254</u>	pH	<u>7.50</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1337</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2260</u>	pH	<u>7.52</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>276</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1338</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2247</u>	pH	<u>7.54</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>274</u>		
Turbidity (NTU)	<u>0</u>		

01-2009-5.138 - 2nd QAP rev 7.3 04.04.13 / Template-115641 - Printed: 4/4/2013 10:12 AM Item ENC03000016

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 1005 Tanner and Garcia present for purge and sampling event.  
Purge began at # 1010. Purged well for 210 minutes. water was clear. Purge ended and samples collected at 1340.  
Left site at 1350

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04-04-13 8:19 AM GR-QAP Rev 7.3 04-04-13



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-31-05132013

Date and Time for Purging: 5/13/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/cm Well Depth(0.01ft): 138.00

Depth to Water Before Purging: 67.36 Casing Volume (V) 4" Well: 70.90 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2222 pH of Water (avg): 7.9

Well Water Temp. (avg): 14.76 Redox Potential (Eh): 248 Turbidity: 0.5

Weather Cond.: Partly cloudy Ext'l Amb. Temp. °C (prior sampling event): 8°

Time	<u>1310</u>	Gal. Purged	<u>1310</u> 83.54
Conductance	<u>2220</u>	pH	<u>7.87</u>
Temp. °C	<u>14.75</u>		
Redox Potential Eh (mV)	<u>253</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1311</u>	Gal. Purged	<u>1311</u> 83.76 83.72
Conductance	<u>2228</u>	pH	<u>7.90</u>
Temp. °C	<u>14.75</u>		
Redox Potential Eh (mV)	<u>248</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1312</u>	Gal. Purged	<u>1312</u> 83.97
Conductance	<u>2228</u>	pH	<u>7.91</u>
Temp. °C	<u>14.82</u>		
Redox Potential Eh (mV)	<u>247</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1313</u>	Gal. Purged	<u>1313</u> 84.19
Conductance	<u>2215</u>	pH	<u>7.92</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>246</u>		
Turbidity (NTU)	<u>0</u>		

03-2025-5-108 - GR-QAP rev7.3 04.04.13 / Template: (1316) - printed 4/17/2013 10:05 AM from ENR20250003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0640. Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 390 minutes. Water was mostly clear. Purge ended and samples collected at 1315. Left site at 1325.

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday ATH

Field Sample ID MW-32\_05132013

Date and Time for Purging 5/13/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QEP

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-31

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 132.50

Depth to Water Before Purging 73.80

Casing Volume (V) 4" Well: 38.33 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 4224

pH of Water (avg) 7.15

Well Water Temp. (avg) 14.77

Redox Potential (Eh) 197

Turbidity 53

Weather Cond. Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event) 9°

Time	<u>1250</u>	Gal. Purged	<u>77.03</u>
Conductance	<u>4222</u>	pH	<u>7.18</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>207</u>		
Turbidity (NTU)	<u>55</u>		

Time	<u>1251</u>	Gal. Purged	<u>77.23</u>
Conductance	<u>4227</u>	pH	<u>7.18</u>
Temp. °C	<u>14.77</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>53</u>		

Time	<u>1252</u>	Gal. Purged	<u>77.46</u>
Conductance	<u>4223</u>	pH	<u>7.15</u>
Temp. °C	<u>14.73</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>53</u>		

Time	<u>1253</u>	Gal. Purged	<u>77.68</u>
Conductance	<u>4225</u>	pH	<u>7.10</u>
Temp. °C	<u>14.71</u>		
Redox Potential Eh (mV)	<u>193</u>		
Turbidity (NTU)	<u>54</u>		

E:\2025-3-170 - GH-QAP rev7.3 04-06-13 / Template-[1556] - Released 4/7/2013 10:04 AM from D:\MCH\0013

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

**Comment**

Arrived on site at 0651. Tanner and Garrin present for purge and sampling event. Purge began at 0655. Purged well for a total of 360 minutes. water was a little murky. Purge ended and samples taken at 1255. Left site at 1306

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35\_05/13/2013

Date and Time for Purging 5/13/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW Prev. Well Sampled in Sampling Event MW-32

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/cm Well Depth(0.01 ft): 124.50

Depth to Water Before Purging 112.25 Casing Volume (V) 4" Well: 7.99 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 4610 pH of Water (avg) 7.30

Well Water Temp. (avg) 15.15 Redox Potential (Eh) 232 Turbidity 0

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 24°

Time	<u>1440</u>	Gal. Purged	<u>15.19</u>
Conductance	<u>4616</u>	pH	<u>7.24</u>
Temp. °C	<u>15.14</u>		
Redox Potential Eh (mV)	<u>239</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1441</u>	Gal. Purged	<u>15.40</u>
Conductance	<u>4604</u>	pH	<u>7.21</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)	<u>236</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1442</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4608</u>	pH	<u>7.34</u>
Temp. °C	<u>15.14</u>		
Redox Potential Eh (mV)	<u>230</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1443</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4612</u>	pH	<u>7.33</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)	<u>224</u>		
Turbidity (NTU)	<u>0</u>		

03:2029-5-172 - 09-QAP rev7.3 04-04-13 / Template-[155] - Replaced 4/4/2013 10:06 AM from ENCLOSURE025

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 1327. Tanner and Garrin present for purge and sampling event. Purge began at 1330. Purged well for a total of 75 minutes. water was clear. Purge ended and samples collected at 1445. Left site at 1456

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2013

Location (well name): MW-36 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-36.05142013

Date and Time for Purging 5/14/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW Prev. Well Sampled in Sampling Event MW-25

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm Well Depth(0.01 ft): 121.60

Depth to Water Before Purging 110.24 Casing Volume (V) 4" Well: 7.41 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 5456 pH of Water (avg) 7.33

Well Water Temp. (avg) 14.43 Redox Potential (Eh) 317 Turbidity 0

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 8°

Time	<u>0800</u>	Gal. Purged	<u>15.19</u>
Conductance	<u>5451</u>	pH	<u>7.33</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>318</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0801</u>	Gal. Purged	<u>15.40</u>
Conductance	<u>5456</u>	pH	<u>7.33</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0802</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>5456</u>	pH	<u>7.33</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0803</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>5457</u>	pH	<u>7.33</u>
Temp. °C	<u>14.42</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>0</u>		

03-2008-5-102 - 06-006 rev07.3 04-04-13 / TempLaber-[155] - Deleted 4/4/2013 10:07 AM from 2008060003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

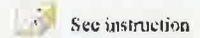
Comment

Arrived on site at 0645. Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 75 minutes. water was clear. Purge ended and samples collected at 0805. Left site at 0816

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 2nd Quarter

Location (well name): MW-37

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-37-06032013

Date and Time for Purging 5/22/2013

and Sampling (if different) 6/3/2013

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Q1 N/A

Purging Method Used:  2 casings  3 casings

Sampling Event Semiannual GW

Prev. Well Sampled in Sampling Event MW-22

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 121.80

Depth to Water Before Purging 106.86

Casing Volume (V) 4" Well: 9.75 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 4697

pH of Water (avg) 6.98

Well Water Temp. (avg) 14.91

Redox Potential (Eh) 315

Turbidity 29

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>0846</u>	Gal. Purged	<u>7</u> <u>5</u>
Conductance	<u>4888</u>	pH	<u>6.84</u>
Temp. °C	<u>14.86</u>		
Redox Potential Eh (mV)	<u>315</u>		
Turbidity (NTU)	<u>29</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1307</u>	Gal. Purged	<u>0</u>
Conductance	<u>4595</u>	pH	<u>7.06</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1314</u>	Gal. Purged	<u>0</u>
Conductance	<u>4610</u>	pH	<u>7.01</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

M1-2009-5-208 - QAP-0406-0017 04/04/13 / Template: [1859] - Printed 4/4/2013 10:17 AM from D:\M01000003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See Instruction

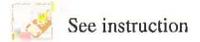
Comment

Arrived on site at 0835. Tanner and Garrin present to bail MW-37 started bailing at 0839. Filled a 5 Gallon bucket full of water then took Parameters out of bucket. Bailed well dry at 0900. Left site at 0903  
Arrived on site at 1303 Tanner and Garrin present to collect samples. Depth to water was 115.26. Samples bailed at 1308. Gross Alpha and metals were filtered through a Parastaltic Pump. Left site at 1315.

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2013

Location (well name): MW-65 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-65\_05212013

Date and Time for Purging: 5/21/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Semiannual GW Prev. Well Sampled in Sampling Event: MW-01

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 128.80

Depth to Water Before Purging: 109.64 Casing Volume (V) 4" Well: 12.51 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 4101 pH of Water (avg): 7.45

Well Water Temp. (avg): 15.78 Redox Potential (Eh): 34 Turbidity: 0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

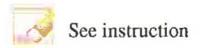
Comment

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MW-65 05-21-2013 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Conductance (avg)  pH of Water (avg)

Well Water Temp. (avg)  Redox Potential (Eh)  Turbidity

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time



See instruction

Comment

Duplicate of MW-29

**MW-70 05-23-2013** Do not touch this cell (SheetName)

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

April 2013



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-11-04162013

Date and Time for Purging: 4/16/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-31

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 86.45 Casing Volume (V) 4" Well: 28.11 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 2711 pH of Water (avg): 6.17

Well Water Temp. (avg): 14.55 Redox Potential (Eh): 238 Turbidity: 15.75

Weather Cond.: Windy Ext'l Amb. Temp. °C (prior sampling event): 4°

Time: 1105 Gal. Purged: 56.42

Conductance: 2713 pH: 6.17

Temp. °C: 14.56

Redox Potential Eh (mV): 240

Turbidity (NTU): 15.0

Time: 1106 Gal. Purged: 56.63

Conductance: 2712 pH: 6.18

Temp. °C: 14.55

Redox Potential Eh (mV): 242

Turbidity (NTU): 16.1

Time: 1107 Gal. Purged: 56.85

Conductance: 2711 pH: 6.17

Temp. °C: 14.56

Redox Potential Eh (mV): 236

Turbidity (NTU): 16.0

Time: 1108 Gal. Purged: 57.07

Conductance: 2709 pH: 6.17

Temp. °C: 14.55

Redox Potential Eh (mV): 236

Turbidity (NTU): 15.9

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

Comment

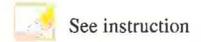
Arrived on site at 0640 Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 265 minutes. water was clear. Purge ended at 1110. Left site at 1112

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-14

Sampler Name and initials: Tanner Holliday TH

Field Sample ID MW-14 04162013

Date and Time for Purging 4/16/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly G-W

Prev. Well Sampled in Sampling Event MW-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging 104.02

Casing Volume (V) 4" Well: 16.11 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4187

pH of Water (avg) 7.61

Well Water Temp. (avg) 14.62

Redox Potential (Eh) 352

Turbidity 1.7

Weather Cond. Windy

Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1455</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>4203</u>	pH	<u>7.64</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>363</u>		
Turbidity (NTU)	<u>1.7</u>		

Time	<u>1456</u>	Gal. Purged	<u>33.85</u>
Conductance	<u>4196</u>	pH	<u>7.62</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>1.7</u>		

Time	<u>1457</u>	Gal. Purged	<u>34.06</u>
Conductance	<u>4190</u>	pH	<u>7.63</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>1.8</u>		

Time	<u>1458</u>	Gal. Purged	<u>34.28</u>
Conductance	<u>4160</u>	pH	<u>7.58</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>344</u>		
Turbidity (NTU)	<u>1.7</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1215. Tanner and Garrin present for purge and Sampling event. Purge began at 1220. Purged well for a total of 160 minutes. water was clear. Purge ended at 1500. Left site at 1504

**MW-14 04-16-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25\_04172013

Date and Time for Purging 4/17/2013

and Sampling (if different) NA

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01 ft): 115.00

Depth to Water Before Purging 74.50

Casing Volume (V) 4" Well: 26.44 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 3458

pH of Water (avg) 6.99

Well Water Temp. (avg) 13.64

Redox Potential (Eh) 327

Turbidity 4.0

Weather Cond. Overcast

Ext'l Amb. Temp. °C (prior sampling event) 1

Time	<u>1045</u>	Gal. Purged	<u>53.16</u>
Conductance	<u>3465</u>	pH	<u>7.01</u>
Temp. °C	<u>13.63</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>3.9</u>		

Time	<u>1046</u>	Gal. Purged	<u>53.38</u>
Conductance	<u>3446</u>	pH	<u>6.99</u>
Temp. °C	<u>13.65</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>4.0</u>		

Time	<u>1047</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>3461</u>	pH	<u>6.99</u>
Temp. °C	<u>13.65</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>4.1</u>		

Time	<u>1048</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>3460</u>	pH	<u>7.00</u>
Temp. °C	<u>13.66</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>4.1</u>		

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

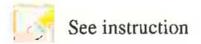
Comment

Arrived on site at 0635 Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 250 minutes. water was clear. Purge ended at 1050. Left site at 1053

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-26 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26-04172013

Date and Time for Purging: 4/17/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-35

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging: 59.90 Casing Volume (V) 4" Well: 40.11 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3622 pH of Water (avg): 6.96

Well Water Temp. (avg): 13.64 Redox Potential (Eh): 293 Turbidity: 1.0

Weather Cond.: Overcast Ext'l Amb. Temp. °C (prior sampling event): 30

Time	<u>1429</u>	Gal. Purged	<u>0</u>
Conductance	<u>3622</u>	pH	<u>6.96</u>
Temp. °C	<u>13.64</u>		
Redox Potential Eh (mV)	<u>293</u>		
Turbidity (NTU)	<u>1.0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify  
 Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

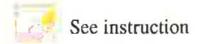
Comment

Arrived on site at 1425. Tanner and Garrin present to collect samples  
 Samples collected at 1430. Water was clear.  
 left site at 1435

**MW-26 04-17-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30.04172013

Date and Time for Purging: 4/17/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-25

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 75.85 Casing Volume (V) 4" Well: 22.29 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 2169 pH of Water (avg): 7.40

Well Water Temp. (avg): 13.86 Redox Potential (Eh): 290 Turbidity: .12

Weather Cond.: Overcast and snow Ext'l Amb. Temp. °C (prior sampling event): 10

Time	<u>1020</u>	Gal. Purged	<u>44.48</u>
Conductance	<u>2169</u>	pH	<u>7.34</u>
Temp. °C	<u>13.85</u>		
Redox Potential Eh (mV)	<u>292</u>		
Turbidity (NTU)	<u>0.5</u>		

Time	<u>1021</u>	Gal. Purged	<u>44.70</u>
Conductance	<u>2169</u>	pH	<u>7.42</u>
Temp. °C	<u>13.87</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1022</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2173</u>	pH	<u>7.42</u>
Temp. °C	<u>13.87</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1023</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2167</u>	pH	<u>7.42</u>
Temp. °C	<u>13.87</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0650 Tanner and Garrin present for purge and sampling event.  
 Purge began at 0655. Purged well for a total of 210 minutes.  
 Water was clear. Purge ended at 1025. Left site at 1030  
 Snowing when sampling

**MW-30 04-17-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: April Monthly Ground Water 2013

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-31-04162013

Date and Time for Purging: 4/16/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/cm Well Depth(0.01 ft): 130.00

Depth to Water Before Purging: 67.91 Casing Volume (V) 4" Well: 40.54 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 1916 pH of Water (avg): 6.36

Well Water Temp. (avg): 14.44 Redox Potential (Eh): 406 Turbidity: 10

Weather Cond: Windy Ext'l Amb. Temp. °C (prior sampling event): 3°

Time	<u>1255</u>	Gal. Purged	<u>82.46</u>
Conductance	<u>1916</u>	pH	<u>6.37</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>399</u>		
Turbidity (NTU)	<u>10</u>		

Time	<u>1256</u>	Gal. Purged	<u>82.67</u>
Conductance	<u>1916</u>	pH	<u>6.36</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>404</u>		
Turbidity (NTU)	<u>11</u>		

Time	<u>1257</u>	Gal. Purged	<u>82.89</u>
Conductance	<u>1916</u>	pH	<u>6.36</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>409</u>		
Turbidity (NTU)	<u>11</u>		

Time	<u>1258</u>	Gal. Purged	<u>83.11</u>
Conductance	<u>1917</u>	pH	<u>6.37</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>412</u>		
Turbidity (NTU)	<u>11</u>		

81 2029 5 124 GR-QAP-ENV-1 04 04 13 / Template-[1257] REVISED 4/4/2013 9:56 AM from: DMC/SCS/003B

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOC's	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth:

Sample Time:

See instruction

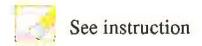
Comment

Arrived on site at 0630 Tanner and Garrin present for purge and sampling event. Purge began at 0635. Purged well for a total of 385 minutes. water was mostly clear. Purge ended at 1300. Left site at 1308.

R1:3829 5:125 04-04-13 04:04:13



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-35\_04172013

Date and Time for Purging: 4/17/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): GED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.90 Casing Volume (V) 4" Well: 7.57 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 4523 pH of Water (avg): 6.91

Well Water Temp. (avg): 14.03 Redox Potential (Eh): 298 Turbidity: 0

Weather Cond.: Overcast and snow Ext'l Amb. Temp. °C (prior sampling event): 4°

Time	<u>1155</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4522</u>	pH	<u>6.81</u>
Temp. °C	<u>14.03</u>		
Redox Potential Eh (mV)	<u>303</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1156</u>	Gal. Purged	<u>16.49</u>
Conductance	<u>4522</u>	pH	<u>6.93</u>
Temp. °C	<u>14.05</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1157</u>	Gal. Purged	<u>16.70</u>
Conductance	<u>4526</u>	pH	<u>6.95</u>
Temp. °C	<u>14.03</u>		
Redox Potential Eh (mV)	<u>297</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1158</u>	Gal. Purged	<u>16.92</u>
Conductance	<u>4525</u>	pH	<u>6.96</u>
Temp. °C	<u>14.09</u>		
Redox Potential Eh (mV)	<u>295</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify  
 Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

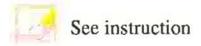
Comment

Arrived on site at 1036. Tanner and Garrin present for purge and sampling event. Purge began at 1040. Purged well for a total of 80 minutes. Water was clear. Purge ended at 1200. Left site at 1206

**MW-35 04-17-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: April Monthly Groundwater 2013

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-65\_04172013

Date and Time for Purging: 4/17/2013

and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-14

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging: 74.50

Casing Volume (V) 4" Well: 26.44 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3458

pH of Water (avg): 6.99

Well Water Temp. (avg): 13.64

Redox Potential (Eh): 327

Turbidity: 4.0

Weather Cond.: Overcast

Ext'l Amb. Temp. °C (prior sampling event): 10

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Duplicate of MW-25

**MW-65 04-17-2013** Do not touch this cell (SheetName)

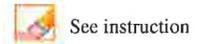
Tab C2

Field Data Worksheets Accelerated Monitoring

June 2013



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Ground water 2013

Location (well name): MW-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-11.06252013

Date and Time for Purging 6/25/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-35

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 87.18 Casing Volume (V) 4" Well: 27.96 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2843 pH of Water (avg) 7.47

Well Water Temp. (avg) 15.35 Redox Potential (Eh) 148 Turbidity 0

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 16°

Time	<u>1100</u>	Gal. Purged	<u>57.50</u>
Conductance	<u>2832</u>	pH	<u>7.48</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>156</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1101</u>	Gal. Purged	<u>57.72</u>
Conductance	<u>2848</u>	pH	<u>7.47</u>
Temp. °C	<u>15.33</u>		
Redox Potential Eh (mV)	<u>150</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1102</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2843</u>	pH	<u>7.47</u>
Temp. °C	<u>15.38</u>		
Redox Potential Eh (mV)	<u>146</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1103</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2852</u>	pH	<u>7.47</u>
Temp. °C	<u>15.31</u>		
Redox Potential Eh (mV)	<u>140</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation 58.59

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

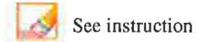
Comment

Arrived on site at 0630. Tanner and Garrin present for purge and sampling event. Purge began at 0635. Purged well for a total of 270 minutes. water was clear. Purge ended and samples collected at 1105. Left site at 1107

**MW-11 06-25-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Ground Water 2013

Location (well name): MW-14 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-14 06252013

Date and Time for Purging: 6/25/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly G-W Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/ cm Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.55 Casing Volume (V) 4" Well: 16.42 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3872 pH of Water (avg): 6.55

Well Water Temp. (avg): 15.70 Redox Potential (Eh): 351 Turbidity: 0

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	<u>1325</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>3857</u>	pH	<u>6.59</u>
Temp. °C	<u>15.71</u>		
Redox Potential Eh (mV)	<u>352</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1326</u>	Gal. Purged	<u>33.85</u>
Conductance	<u>3871</u>	pH	<u>6.55</u>
Temp. °C	<u>15.70</u>		
Redox Potential Eh (mV)	<u>352</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1327</u>	Gal. Purged	<u>34.06</u>
Conductance	<u>3884</u>	pH	<u>6.54</u>
Temp. °C	<u>15.73</u>		
Redox Potential Eh (mV)	<u>351</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1328</u>	Gal. Purged	<u>34.28</u>
Conductance	<u>3877</u>	pH	<u>6.54</u>
Temp. °C	<u>15.68</u>		
Redox Potential Eh (mV)	<u>351</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

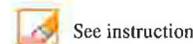
Comment

Arrived on site at 1045. Tanner and Garrin Present for purge and sampling event. Purge began at 1050. Purged well for a total of 160 minutes. water was clear. Purge ended and samples collected at 1330. Left site at 1333

**MW-14 06-25-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Ground Water 2013

Location (well name): MW-25

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-25\_06242013

Date and Time for Purging 6/24/2013

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-31

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging 72.98

Casing Volume (V) 4" Well: 27.43 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 3182

pH of Water (avg) 6.63

Well Water Temp. (avg) 15.50

Redox Potential (Eh) 365

Turbidity 98

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1135</u>	Gal. Purged	<u>57.50</u>
Conductance	<u>3185</u>	pH	<u>6.64</u>
Temp. °C	<u>15.49</u>		
Redox Potential Eh (mV)	<u>366</u>		
Turbidity (NTU)	<u>97</u>		

Time	<u>1136</u>	Gal. Purged	<u>57.72</u>
Conductance	<u>3182</u>	pH	<u>6.63</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>366</u>		
Turbidity (NTU)	<u>97</u>		

Time	<u>1137</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>3180</u>	pH	<u>6.66</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>366</u>		
Turbidity (NTU)	<u>99</u>		

Time	<u>1138</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>3182</u>	pH	<u>6.61</u>
Temp. °C	<u>15.53</u>		
Redox Potential Eh (mV)	<u>365</u>		
Turbidity (NTU)	<u>100</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0705. Tanner and Garrin present for purge and sampling event. Purge began at 0710. Purged well for a total of 270 minutes. water was mostly clear. Purge ended and samples collected at 1140. Left site at 1145

MW-25 06-24-2013 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event: 2nd Quarter Chloroform 2013

Location (well name): MW-26 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-26\_06052013

Date and Time for Purging: 6/5/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-20

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/ cm Well Depth(0.01ft): 122.50

Depth to Water Before Purging: 75.94 Casing Volume (V) 4" Well: 30.40 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3840 pH of Water (avg): 7.18

Well Water Temp. (avg): 15.46 Redox Potential (Eh): 245 Turbidity: 0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 15°

Time	<u>0834</u>	Gal. Purged	<u>0</u>
Conductance	<u>3840</u>	pH	<u>7.18</u>
Temp. °C	<u>15.46</u>		
Redox Potential Eh (mV)	<u>245</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

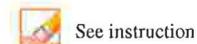
Arrived on site at 0847. Tanner present to collect samples. Samples collected at 0855. water was clear. Left site at 0858.

Continuous Pumping Well

**MW-26 06-05-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Groundwater 2013

Location (well name): MW-26 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-26\_06252013

Date and Time for Purging 6/25/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging 70.63 Casing Volume (V) 4" Well: 33.10 (.653h)  
 3" Well: 5 (.367h)

Conductance (avg) 3400 pH of Water (avg) 6.85

Well Water Temp. (avg) 16.07 Redox Potential (Eh) 185 Turbidity 0

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 30°

Time	<u>1459</u>	Gal. Purged	<u>0</u>
Conductance	<u>3400</u>	pH	<u>6.85</u>
Temp. °C	<u>16.07</u>		
Redox Potential Eh (mV)	<u>185</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

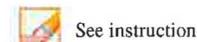
Arrived on site at 1455. Tanner and Garrin present to collect samples. Samples collected at 1500. Water was clear. Left site at 1505

Continuous Pumping Well

**MW-26 06-25-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Ground Water 2013

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-30.06252013

Date and Time for Purging 6/25/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.20 Casing Volume (V) 4" Well: 22.72 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2024 pH of Water (avg) 6.94

Well Water Temp. (avg) 15.31 Redox Potential (Eh) 332 Turbidity 0

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1025</u>	Gal. Purged	<u>116.65</u>
Conductance	<u>2025</u>	pH	<u>6.97</u>
Temp. °C	<u>15.52</u>		
Redox Potential Eh (mV)	<u>338</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1026</u>	Gal. Purged	<u>46.81</u>
Conductance	<u>2025</u>	pH	<u>6.95</u>
Temp. °C	<u>15.31</u>		
Redox Potential Eh (mV)	<u>333</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1027</u>	Gal. Purged	<u>47.08</u>
Conductance	<u>2025</u>	pH	<u>6.94</u>
Temp. °C	<u>15.22</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1028</u>	Gal. Purged	<u>47.30</u>
Conductance	<u>2023</u>	pH	<u>6.93</u>
Temp. °C	<u>15.21</u>		
Redox Potential Eh (mV)	<u>328</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time



See instruction

Comment

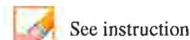
Arrived on site at 0645. Tanner and Garrin Present for purge and sampling event  
 Purge began at 0650. Purged well for a total of 220 minutes  
 water was clear. Purge ended and samples collected at 1030.  
 Left site at 1035

MW-30 06-25-2013

Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Groundwater 2013

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-31-06242013

Date and Time for Purging 6/24/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 67.20 Casing Volume (V) 4" Well: 41.00 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2010 pH of Water (avg) 7.10

Well Water Temp. (avg) 15.47 Redox Potential (Eh) 345 Turbidity 34

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1310</u>	Gal. Purged	<u>83.54</u>
Conductance	<u>2014</u>	pH	<u>7.12</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>34</u>		

Time	<u>1311</u>	Gal. Purged	<u>83.76</u>
Conductance	<u>2014</u>	pH	<u>7.09</u>
Temp. °C	<u>15.51</u>		
Redox Potential Eh (mV)	<u>346</u>		
Turbidity (NTU)	<u>36</u>		

Time	<u>1312</u>	Gal. Purged	<u>83.97</u>
Conductance	<u>2009</u>	pH	<u>7.10</u>
Temp. °C	<u>15.42</u>		
Redox Potential Eh (mV)	<u>346</u>		
Turbidity (NTU)	<u>34</u>		

Time	<u>1313</u>	Gal. Purged	<u>84.19</u>
Conductance	<u>2009</u>	pH	<u>7.10</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>346</u>		
Turbidity (NTU)	<u>35</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

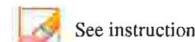
Comment

Arrived on site at 0641. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0645. Purged well for a total of 390 minutes.  
 Water was a little murky. Purge ended and samples collected at 1315.  
 Left site at 1320

**MW-31 06-24-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Groundwater 2013

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35\_06242013

Date and Time for Purging 6/24/2013 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly G.W Prev. Well Sampled in Sampling Event MW-25

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.25 Casing Volume (V) 4" Well: 7.99 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 4066 pH of Water (avg) 6.69

Well Water Temp. (avg) 16.59 Redox Potential (Eh) 272 Turbidity 0

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 29°

Time	<u>1355</u>	Gal. Purged	<u>15.19</u>
Conductance	<u>4074</u>	pH	<u>6.72</u>
Temp. °C	<u>16.67</u>		
Redox Potential Eh (mV)	<u>277</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1356</u>	Gal. Purged	<u>15.40</u>
Conductance	<u>4065</u>	pH	<u>6.74</u>
Temp. °C	<u>16.62</u>		
Redox Potential Eh (mV)	<u>275</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1357</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4063</u>	pH	<u>6.63</u>
Temp. °C	<u>16.50</u>		
Redox Potential Eh (mV)	<u>269</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1358</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4065</u>	pH	<u>6.70</u>
Temp. °C	<u>16.58</u>		
Redox Potential Eh (mV)	<u>269</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

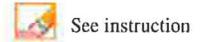
Comment

Arrived on site at 1240. Tanner and Garrin present for purge and sampling event. Purge began at 1245. Purged well for a total of 75 minutes, water was clear. Purge ended and samples collected at 1:00. Left site at 1404

**MW-35 06-24-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Monthly Groundwater 2013

Location (well name): MW-65 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-65\_0625 2013

Date and Time for Purging: 6/25/2013 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/ cm Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.55 Casing Volume (V) 4" Well: 16.42 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3872 pH of Water (avg): 6.55

Well Water Temp. (avg): 15.70 Redox Potential (Eh): 351 Turbidity: 0

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Duplicate of MW-14

**MW-65 06-25-2013** Do not touch this cell (SheetName)

Tab D

Quarterly Depth to Water

NAME: Garrin Palmer, Tanner Holliday

DATE: 6/27/2013

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
837	MW-1	63.93	1033	MW-4	72.15	800	PIEZ-1	62.87	NA	DR-1	ABANDON
934	MW-2	109.89	1031	TW4-1	64.14	754	PIEZ-2	31.60	NA	DR-2	ABANDON
844	MW-3	83.05	1034	TW4-2	65.51	843	PIEZ-3	44.30			
846	MW-3A	85.09	1038	TW4-3	51.35	1006	PIEZ-4	48.70			
924	MW-5	106.37	1030	TW4-4	70.13	1008	PIEZ-5	44.25	823	DR-5	83.21
918	MW-11	87.35	1040	TW4-5	58.65				826	DR-6	94.33
928	MW-12	108.59	1029	TW4-6	69.32	854	TWN-1	55.71	852	DR-7	92.36
911	MW-14	103.75	1032	TW4-7	65.03	851	TWN-2	32.37	836	DR-8	51.07
908	MW-15	106.50	1036	TW4-8	65.05	846	TWN-3	37.32	833	DR-9	86.70
724	MW-17	73.48	1039	TW4-9	56.40	841	TWN-4	47.75	830	DR-10	78.18
831	MW-18	70.55	1037	TW4-10	57.05	835	TWN-5	69.61	734	DR-11	98.43
756	MW-19	56.84	1035	TW4-11	57.30	826	TWN-6	75.93	731	DR-12	89.55
745	MW-20	89.10	1014	TW4-12	41.98	833	TWN-7	87.05	728	DR-13	69.96
750	MW-22	67.00	1018	TW4-13	47.50	828	TWN-8	63.01	817	DR-14	76.54
931	MW-23	114.50	1020	TW4-14	85.78	802	TWN-9	62.05	741	DR-15	93.07
1001	MW-24	114.21	950	TW4-15	61.90	824	TWN-10	80.87	na	DR-16	ABANDON
915	MW-25	73.28	947	TW4-16	60.36	818	TWN-11	69.33	813	DR-17	64.95
950	MW-26	61.90	1004	TW4-17	74.90	816	TWN-12	28.70	na	DR-18	ABANDON
901	MW-27	52.39	1000	TW4-18	56.65	805	TWN-13	45.53	803	DR-19	63.20
958	MW-28	76.25	906	TW4-19	65.39	807	TWN-14	62.10	800	DR-20	55.29
937	MW-29	101.85	951	TW4-20	59.60	822	TWN-15	91.66	855	DR-21	107.31
940	MW-30	75.45	857	TW4-21	57.56	812	TWN-16	47.59		DR-22	DRY
942	MW-31	67.50	953	TW4-22	56.55	809	TWN-17	33.91	756	DR-23	70.77
945	MW-32	73.97	1026	TW4-23	64.14	849	TWN-18	58.50	807	DR-24	44.10
858	MW-33	Dry	955	TW4-24	63.20	956	TWN-19	52.48	na	DR-25	ABANDON
903	MW-34	108.00	853	TW4-25	57.30						
855	MW-35	112.51	1027	TW4-26	62.68						
857	MW-36	110.60	1026	TW4-27	81.65						
905	MW-37	109.31	1016	TW4-28	36.70						
			1022	TW4-29	72.20						
			1024	TW4-30	78.02						
			1029	TW4-31	84.22						

Some times may be the same since we split up to complete depth checks.

Tab E

Laboratory Analytical Reports – Quarterly Sampling



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-001  
**Client Sample ID:** MW-01\_05212013  
**Collection Date:** 5/21/2013 1030h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

463 West 3600 South  
 Salt Lake City, UT 84115  
  
 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

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2027h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2139h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1006h	E200.7	20.0	<b>160</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2139h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2152h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0058h	E200.8	0.0300	<b>0.145</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0225h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1006h	E200.7	20.0	<b>60.3</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2152h	E200.8	0.0100	<b>0.127</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0852h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1325h	E200.7	1.00	<b>6.66</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2139h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1006h	E200.7	20.0	<b>160</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0225h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2139h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/30/2013	2334h	E200.8	0.000300	< 0.000300	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1325h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2100h	E200.8	0.0100	< 0.0100	

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-001  
**Client Sample ID:** MW-01\_05212013  
**Collection Date:** 5/21/2013 1030h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

463 West 3600 South  
Salt Lake City, UT 84115

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

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2050h	E350.1	0.0500	< 0.0500	!
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>246</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/24/2013 1819h	E300.0	5.00	<b>17.8</b>	
Fluoride	mg/L		5/25/2013 0927h	E300.0	0.100	<b>0.317</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-6.55</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1825h	E353.2	0.100	<b>0.105</b>	
Sulfate	mg/L		5/24/2013 1756h	E300.0	100	<b>839</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>22.9</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>20.1</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>1,420</b>	@
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.02</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>1,390</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

! - 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.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-001A  
**Client Sample ID:** MW-01\_05212013  
**Collection Date:** 5/21/2013 1030h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/24/2013 1954h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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Fax: (801) 263-8687  
e-mail: awal@awal-labs.com  
web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	<b>3.26</b>	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.6	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-01\_05212013  
Sample ID: 326481001  
Matrix: Ground Water  
Collect Date: 21-MAY-13 10:30  
Receive Date: 24-MAY-13  
Collector: Client

Project: DNMI00100  
Client ID: DNMI001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.279	0.834	1.00	pCi/L		KDF1	06/05/13	1509	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.9	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-002  
**Client Sample ID:** MW-02\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

463 West 3600 South  
 Salt Lake City, UT 84115  
  
 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

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2032h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2230h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1030h	E200.7	50.0	<b>304</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2230h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2208h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0104h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0235h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1030h	E200.7	50.0	<b>91.3</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2208h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0858h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1337h	E200.7	1.00	<b>9.81</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.00500	<b>0.0160</b>	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2230h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1030h	E200.7	50.0	<b>488</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0235h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2230h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/30/2013	2340h	E200.8	0.000300	<b>0.0133</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1337h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2116h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-002  
**Client Sample ID:** MW-02\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## 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	6/3/2013	1300h	6/3/2013	2054h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	331	
Carbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L			5/25/2013	0950h	E300.0	1.00	7.21	
Fluoride	mg/L			5/25/2013	0950h	E300.0	0.100	0.353	
Ion Balance	%			6/5/2013	0918h	Calc.	-15.0	9.91	
Nitrate/Nitrite (as N)	mg/L			6/3/2013	1826h	E353.2	0.100	< 0.100	
Sulfate	mg/L			5/24/2013	1929h	E300.0	500	1,410	
Total Anions, Measured	meq/L			6/5/2013	0918h	Calc.		36.2	
Total Cations, Measured	meq/L			6/5/2013	0918h	Calc.		44.2	
Total Dissolved Solids	mg/L			5/25/2013	1300h	SM2540C	20.0	3,200	
Total Dissolved Solids Ratio, Measured/Calculated				6/5/2013	0918h	Calc.		1.27	^
Total Dissolved Solids, Calculated	mg/L			6/5/2013	0918h	Calc.		2,510	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-002A  
**Client Sample ID:** MW-02\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1428h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.9	50.00	95.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.6	50.00	91.2	80-124	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-02\_05212013 Project: DNMI00100  
Sample ID: 326481002 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 21-MAY-13 14:30  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha		1.48	+/-0.434	0.995	1.00	pCi/L		KDF1	06/05/13	1509 1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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

### Notes:

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

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

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-003  
**Client Sample ID:** MW-03\_05222013  
**Collection Date:** 5/22/2013 1405h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2038h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2240h	E200.8	0.000500	<b>0.00142</b>	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1111h	E200.7	50.0	<b>419</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2240h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2213h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0109h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0245h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1111h	E200.7	50.0	<b>242</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2213h	E200.8	0.0100	<b>0.0991</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0900h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1531h	E200.7	10.0	<b>23.2</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.00500	<b>0.0463</b>	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2240h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1111h	E200.7	50.0	<b>732</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0245h	E200.8	0.000500	<b>0.00121</b>	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2240h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/30/2013	2345h	E200.8	0.000300	<b>0.0171</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1341h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2122h	E200.8	0.0100	<b>0.0721</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-003  
**Client Sample ID:** MW-03\_05222013  
**Collection Date:** 5/22/2013 1405h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2055h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>212</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/24/2013 2016h	E300.0	10.0	<b>63.1</b>	
Fluoride	mg/L		5/25/2013 1013h	E300.0	0.100	<b>0.994</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>17.6</b>	*
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1828h	E353.2	0.100	<b>0.456</b>	
Sulfate	mg/L		5/24/2013 1953h	E300.0	500	<b>2,180</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>51.3</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>73.2</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>4,940</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.31</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>3,780</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

\* - High result due to high salt concentration. In this range, high results may be expected. The sample was reanalyzed with comparable results.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-003A  
**Client Sample ID:** MW-03\_05222013  
**Collection Date:** 5/22/2013 1405h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1447h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.6	50.00	95.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.6	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.4	50.00	90.8	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-03_05222013	Project: DNMI00100
Sample ID: 326481003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 22-MAY-13 14:05	
Receive Date: 24-MAY-13	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	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	0.706	1.00	pCi/L		KDF1	06/05/13	1509	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.7	(25%-125%)

**Notes:**

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-004  
**Client Sample ID:** MW-03A\_05232013  
**Collection Date:** 5/23/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared	Time	Analyzed	Time	Used	Limit	Result	
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2043h	E200.8	0.000500	<b>0.000552</b>	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2250h	E200.8	0.000500	<b>0.000809</b>	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1114h	E200.7	50.0	<b>436</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2250h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2218h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0114h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0256h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1114h	E200.7	50.0	<b>280</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2218h	E200.8	0.0100	<b>0.0317</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0902h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1535h	E200.7	10.0	<b>25.4</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.00500	<b>0.0756</b>	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2250h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1114h	E200.7	50.0	<b>789</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0256h	E200.8	0.000500	<b>0.000683</b>	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2250h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/30/2013	2350h	E200.8	0.000300	<b>0.0185</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1345h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2127h	E200.8	0.0100	<b>0.0268</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-004  
**Client Sample ID:** MW-03A\_05232013  
**Collection Date:** 5/23/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2056h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>357</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/24/2013 2149h	E300.0	10.0	<b>55.9</b>	
Fluoride	mg/L		5/25/2013 1036h	E300.0	0.100	<b>0.963</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>3.94</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1829h	E353.2	0.100	<b>1.11</b>	
Sulfate	mg/L		5/24/2013 2039h	E300.0	500	<b>3,120</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>73.7</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>79.8</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>6,020</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.22</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>4,920</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-004A  
**Client Sample ID:** MW-03A\_05232013  
**Collection Date:** 5/23/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1603h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.8	50.00	95.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.1	50.00	90.2	80-124	
Surr: Toluene-d8	2037-26-5	52.3	50.00	105	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-03A\_05232013      Project: DNMI00100  
Sample ID: 326481004      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 23-MAY-13 07:00  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.281	0.938	1.00	pCi/L		KDF1	06/05/13	1510	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			102	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-001  
**Client Sample ID:** MW-05\_05142013  
**Collection Date:** 5/14/2013 1620h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared		Analyzed		Used	Limit	Result	
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1725h	5/22/2013 1725h		E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/29/2013 0932h	5/29/2013 0932h		E200.7	100	<b>119</b>	<sup>2</sup>
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1725h	5/22/2013 1725h		E200.8	0.0300	<b>0.0652</b>	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2026h	5/22/2013 2026h		E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/28/2013 1138h	5/28/2013 1138h		E200.7	10.0	<b>42.4</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	<b>0.290</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0915h	5/21/2013 0915h		E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1324h	5/28/2013 1324h		E200.7	1.00	<b>7.52</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1551h	5/28/2013 1551h		E200.7	100	<b>471</b>	<sup>2</sup>
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2026h	5/22/2013 2026h		E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1540h	5/24/2013 1540h		E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1927h	5/22/2013 1927h		E200.8	0.000300	<b>0.00133</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1324h	5/28/2013 1324h		E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1512h	5/22/2013 1512h		E200.8	0.0100	< 0.0100	

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-001  
**Client Sample ID:** MW-05\_05142013  
**Collection Date:** 5/14/2013 1620h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013	1030h	5/23/2013	1931h	E350.1	0.0500	<b>0.504</b>	*
Bicarbonate (as CaCO3)	mg/L			5/20/2013	1042h	SM2320B	1.00	<b>333</b>	
Carbonate (as CaCO3)	mg/L			5/20/2013	1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L			5/20/2013	1413h	E300.0	10.0	<b>48.9</b>	†
Fluoride	mg/L			5/21/2013	0630h	E300.0	0.100	<b>0.837</b>	*
Ion Balance	%			5/29/2013	1455h	Calc.	-15.0	<b>8.15</b>	
Nitrate/Nitrite (as N)	mg/L			5/24/2013	1648h	E353.2	0.100	< 0.100	
Sulfate	mg/L			5/20/2013	1350h	E300.0	500	<b>843</b>	†
Total Anions, Measured	meq/L			5/29/2013	1455h	Calc.		<b>25.6</b>	
Total Cations, Measured	meq/L			5/29/2013	1455h	Calc.		<b>30.1</b>	
Total Dissolved Solids	mg/L			5/17/2013	1500h	SM2540C	20.0	<b>2,180</b>	
Total Dissolved Solids Ratio, Measured/Calculated				5/29/2013	1455h	Calc.		<b>1.26</b>	^
Total Dissolved Solids, Calculated	mg/L			5/29/2013	1455h	Calc.		<b>1,730</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

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



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## Certificate of Analysis

Report Date: June 10, 2013

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-05\_05142013      Project: DNMI00100  
Sample ID: 325944001      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 14-MAY-13 16:20  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.220	0.644	1.00	pCi/L		KDF1	05/25/13	1431	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments			
	EPA 900.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

### Notes:

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

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

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-002  
**Client Sample ID:** MW-11\_05142013  
**Collection Date:** 5/14/2013 1240h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013	0940h	5/22/2013	1730h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013	0940h	5/29/2013	0944h	E200.7	10.0	<b>59.6</b>	
Chromium	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013	0940h	5/22/2013	1730h	E200.8	0.0300	<b>0.180</b>	
Lead	mg/L	5/21/2013	0940h	5/22/2013	2057h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013	0940h	5/29/2013	0944h	E200.7	10.0	<b>18.3</b>	
Manganese	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	<b>0.144</b>	
Mercury	mg/L	5/20/2013	1426h	5/21/2013	0921h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013	0940h	5/28/2013	1336h	E200.7	1.00	<b>6.52</b>	
Selenium	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013	0940h	5/28/2013	1555h	E200.7	100	<b>563</b>	
Thallium	mg/L	5/21/2013	0940h	5/22/2013	2057h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013	0940h	5/24/2013	1545h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013	0940h	5/22/2013	1932h	E200.8	0.000300	<b>0.000694</b>	
Vanadium	mg/L	5/21/2013	0940h	5/28/2013	1336h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013	0940h	5/22/2013	1538h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-002  
**Client Sample ID:** MW-11\_05142013  
**Collection Date:** 5/14/2013 1240h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	5/23/2013 1030h	5/23/2013 1935h	E350.1	0.0500	<b>0.606</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>336</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 1546h	E300.0	5.00	<b>30.1</b>	
Fluoride	mg/L		5/21/2013 0653h	E300.0	0.100	<b>0.481</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>10.8</b>	*
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1653h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/20/2013 1523h	E300.0	500	<b>763</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>23.5</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>29.1</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>1,820</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.11</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>1,640</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

\* - High result due to high salt concentration. In this range, high results may be expected. The sample was reanalyzed with comparable results.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-002A  
**Client Sample ID:** MW-11\_05142013  
**Collection Date:** 5/14/2013 1240h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1441h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.9	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 10, 2013

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\_05142013 Project: DNMI00100  
Sample ID: 325944002 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 14-MAY-13 12:40  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.258	0.608	1.00	pCi/L		KDF1	05/25/13	1431	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.9	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-003  
**Client Sample ID:** MW-12\_05152013  
**Collection Date:** 5/15/2013 0905h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1735h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1547h	E200.7	100	<b>519</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1735h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2107h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1547h	E200.7	100	<b>217</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	<b>0.0672</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0923h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1340h	E200.7	1.00	<b>13.3</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.00500	<b>0.0190</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1026h	E200.7	100	<b>319</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2107h	E200.8	0.000500	<b>0.000514</b>	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1551h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1938h	E200.8	0.000300	<b>0.0186</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1340h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1544h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-003  
**Client Sample ID:** MW-12\_05152013  
**Collection Date:** 5/15/2013 0905h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	5/23/2013 1030h	5/23/2013 1936h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>352</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 1719h	E300.0	10.0	<b>60.3</b>	
Fluoride	mg/L		5/21/2013 0716h	E300.0	0.100	<b>0.203</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>-2.36</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1657h	E353.2	0.100	<b>0.127</b>	
Sulfate	mg/L		5/20/2013 1610h	E300.0	500	<b>2,500</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>60.8</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>58.0</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,620</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>0.944</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,840</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-003A  
**Client Sample ID:** MW-12\_05152013  
**Collection Date:** 5/15/2013 0905h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1500h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.8	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.6	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.2	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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-12\_05152013      Project: DNMI00100  
Sample ID: 325944003      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 15-MAY-13 09:05  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.286	0.637	1.00	pCi/L		KDF1	05/25/13	1431	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			102	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-004  
**Client Sample ID:** MW-14\_05142013  
**Collection Date:** 5/14/2013 1345h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared		Analyzed		Used	Limit	Result	
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1741h	5/22/2013 1741h		E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.000500	<b>0.00140</b>	
Calcium	mg/L	5/21/2013 0940h	5/29/2013 0948h	5/29/2013 0948h		E200.7	100	<b>496</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1741h	5/22/2013 1741h		E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2117h	5/22/2013 2117h		E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/29/2013 0948h	5/29/2013 0948h		E200.7	100	<b>153</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1844h	5/22/2013 1844h		E200.8	0.0100	<b>2.20</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0925h	5/21/2013 0925h		E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1344h	5/28/2013 1344h		E200.7	1.00	<b>12.2</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1559h	5/28/2013 1559h		E200.7	100	<b>340</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2117h	5/22/2013 2117h		E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1556h	5/24/2013 1556h		E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1943h	5/22/2013 1943h		E200.8	0.000300	<b>0.0620</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1344h	5/28/2013 1344h		E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1549h	5/22/2013 1549h		E200.8	0.0100	<b>0.0131</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-004  
**Client Sample ID:** MW-14\_05142013  
**Collection Date:** 5/14/2013 1345h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1937h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>404</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 1806h	E300.0	5.00	<b>18.0</b>	
Fluoride	mg/L		5/21/2013 0826h	E300.0	0.100	<b>0.169</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>11.2</b>	*
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1659h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/20/2013 1743h	E300.0	500	<b>1,600</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>41.9</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>52.4</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,600</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.26</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>2,860</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

\* - High result due to high salt concentration. In this range, high results may be expected. The sample was reanalyzed with comparable results.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-004A  
**Client Sample ID:** MW-14\_05142013  
**Collection Date:** 5/14/2013 1345h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1519h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.8	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.8	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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\_05142013 Project: DNMI00100  
Sample ID: 325944004 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 14-MAY-13 13:45  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.277	0.597	1.00	pCi/L		KDF1	05/25/13	1431	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.4	(25%-125%)

### Notes:

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

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

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-005  
**Client Sample ID:** MW-15\_05152013  
**Collection Date:** 5/15/2013 0950h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1746h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1555h	E200.7	100	<b>438</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1746h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2128h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1555h	E200.7	100	<b>161</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0930h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1348h	E200.7	1.00	<b>9.90</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.00500	<b>0.120</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1034h	E200.7	100	<b>513</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2128h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1602h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1948h	E200.8	0.000300	<b>0.0444</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1348h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1610h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-005  
**Client Sample ID:** MW-15\_05152013  
**Collection Date:** 5/15/2013 0950h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1938h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>370</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 1852h	E300.0	5.00	<b>37.3</b>	
Fluoride	mg/L		5/21/2013 0849h	E300.0	0.100	<b>0.214</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>8.02</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1700h	E353.2	0.100	<b>0.165</b>	
Sulfate	mg/L		5/20/2013 1829h	E300.0	500	<b>1,950</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>49.1</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>57.7</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,700</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.11</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,340</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-005A  
**Client Sample ID:** MW-15\_05152013  
**Collection Date:** 5/15/2013 0950h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1538h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.6	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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-15\_05152013      Project: DNMI00100  
Sample ID: 325944005      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 15-MAY-13 09:50  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.257	0.837	1.00	pCi/L		KDF1	05/25/13	1444	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-005  
**Client Sample ID:** MW-17\_05222013  
**Collection Date:** 5/22/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2048h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2300h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1118h	E200.7	50.0	<b>316</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2300h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2224h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0120h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0306h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1118h	E200.7	50.0	<b>157</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2224h	E200.8	0.0100	<b>0.0987</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0907h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1349h	E200.7	1.00	<b>10.6</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.00500	<b>0.0141</b>	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2300h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1118h	E200.7	50.0	<b>522</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0306h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2300h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/30/2013	2356h	E200.8	0.000300	<b>0.0210</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1349h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2132h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-005  
**Client Sample ID:** MW-17\_05222013  
**Collection Date:** 5/22/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2058h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>376</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/24/2013 2235h	E300.0	10.0	<b>35.9</b>	
Fluoride	mg/L		5/25/2013 1100h	E300.0	0.100	<b>0.245</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>4.73</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1831h	E353.2	0.100	<b>1.40</b>	
Sulfate	mg/L		5/24/2013 2212h	E300.0	500	<b>1,850</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>47.0</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>51.7</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>3,420</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.10</b>	
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>3,120</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-005A  
**Client Sample ID:** MW-17\_05222013  
**Collection Date:** 5/22/2013 1050h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1622h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.1	50.00	96.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.0	50.00	112	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.9	50.00	91.8	80-124	
Surr: Toluene-d8	2037-26-5	52.8	50.00	106	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-17\_05222013 Project: DNMI00100  
Sample ID: 326481005 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 22-MAY-13 10:50  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha	U	1.00	+/-0.266	0.801	1.00	pCi/L		KDF1	06/05/13	1510 1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.8	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-006  
**Client Sample ID:** MW-18\_05202013  
**Collection Date:** 5/20/2013 1320h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2054h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2311h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/3/2013	1725h	E200.7	100	<b>572</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2311h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2229h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0125h	E200.8	0.0300	<b>0.0432</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0316h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/3/2013	1725h	E200.7	100	<b>128</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2229h	E200.8	0.0100	<b>0.0806</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0908h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1122h	E200.7	1.00	<b>9.08</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2311h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1250h	E200.7	20.0	<b>181</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0316h	E200.8	0.000500	<b>0.00281</b>	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2311h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0001h	E200.8	0.000300	<b>0.0387</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1122h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2137h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-006  
**Client Sample ID:** MW-18\_05202013  
**Collection Date:** 5/20/2013 1320h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## **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	6/3/2013 1300h	6/3/2013 2059h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>370</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/24/2013 2322h	E300.0	10.0	<b>50.3</b>	
Fluoride	mg/L		5/25/2013 1123h	E300.0	0.100	<b>0.227</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-0.862</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1832h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/24/2013 2259h	E300.0	500	<b>1,860</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>48.0</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>47.2</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>3,160</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.04</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>3,040</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-006A  
**Client Sample ID:** MW-18\_05202013  
**Collection Date:** 5/20/2013 1320h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1641h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.8	50.00	95.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.3	50.00	90.6	80-124	
Surr: Toluene-d8	2037-26-5	52.3	50.00	105	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-18\_05202013 Project: DNMI00100  
Sample ID: 326481006 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 20-MAY-13 13:20  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.10	+/-0.343	0.790	1.00	pCi/L		KDF1	06/05/13	1510	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-007  
**Client Sample ID:** MW-19\_05202013  
**Collection Date:** 5/20/2013 1600h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2115h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/30/2013	2352h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1034h	E200.7	10.0	<b>162</b>	
Chromium	mg/L	5/24/2013	1255h	5/30/2013	2352h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2250h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0130h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0326h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1034h	E200.7	10.0	<b>63.5</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2250h	E200.8	0.0100	<b>0.0297</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0910h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1353h	E200.7	1.00	<b>4.80</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.00500	<b>0.0181</b>	
Silver	mg/L	5/24/2013	1255h	5/30/2013	2352h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1034h	E200.7	10.0	<b>117</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0326h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/30/2013	2352h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0006h	E200.8	0.000300	<b>0.00531</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1353h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2159h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-007  
**Client Sample ID:** MW-19\_05202013  
**Collection Date:** 5/20/2013 1600h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2105h	E350.1	0.0500	< 0.0500	!
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>189</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 0008h	E300.0	10.0	<b>31.4</b>	
Fluoride	mg/L		5/25/2013 1146h	E300.0	0.100	<b>0.981</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-8.24</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1840h	E353.2	1.00	<b>4.21</b>	
Sulfate	mg/L		5/24/2013 2345h	E300.0	100	<b>822</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>21.9</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>18.5</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>1,380</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.05</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>1,320</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

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



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-007A  
**Client Sample ID:** MW-19\_05202013  
**Collection Date:** 5/20/2013 1600h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1700h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.8	50.00	95.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.5	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.8	50.00	91.5	80-124	
Surr: Toluene-d8	2037-26-5	52.8	50.00	106	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-19\_05202013 Project: DNMI00100  
Sample ID: 326481007 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 20-MAY-13 16:00  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha		1.19	+/-0.329	0.702	1.00	pCi/L		KDF1	06/05/13	1510 1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			102	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-001  
**Client Sample ID:** MW-20\_06032013  
**Collection Date:** 6/3/2013 1350h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2013 1000h	6/13/2013 0213h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2013 1000h	6/10/2013 0737h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2013 1000h	6/10/2013 1603h	E200.7	100	<b>363</b>	2
Chromium	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2013 1000h	6/13/2013 2124h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2013 1000h	6/13/2013 0213h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2013 1000h	6/13/2013 0213h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2013 1000h	6/11/2013 1031h	E200.7	10.0	<b>15.1</b>	
Manganese	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/7/2013 1230h	6/8/2013 1133h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0100	<b>0.0251</b>	
Nickel	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2013 1000h	6/11/2013 1031h	E200.7	10.0	<b>24.6</b>	
Selenium	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/6/2013 1000h	6/10/2013 0737h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2013 1000h	6/10/2013 1603h	E200.7	100	<b>1,150</b>	2
Thallium	mg/L	6/6/2013 1000h	6/14/2013 1024h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2013 1000h	6/10/2013 0737h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2013 1000h	6/13/2013 0627h	E200.8	0.000300	<b>0.00178</b>	
Vanadium	mg/L	6/6/2013 1000h	6/13/2013 1517h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2013 1000h	6/13/2013 0544h	E200.8	0.0100	< 0.0100	

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-001  
**Client Sample ID:** MW-20\_06032013  
**Collection Date:** 6/3/2013 1350h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

## 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	6/17/2013 1600h	6/17/2013 2133h	E350.1	0.0500	< 0.0500	'
Bicarbonate (as CaCO3)	mg/L		6/6/2013 1031h	SM2320B	1.00	<b>40.6</b>	
Carbonate (as CaCO3)	mg/L		6/6/2013 1031h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2013 1553h	E300.0	10.0	<b>61.3</b>	
Fluoride	mg/L		6/11/2013 0136h	E300.0	0.100	<b>0.351</b>	
Ion Balance	%		6/14/2013 1149h	Calc.	-15.0	<b>-11.3</b>	*
Nitrate/Nitrite (as N)	mg/L		6/5/2013 1950h	E353.2	10.0	<b>16.4</b>	'
Sulfate	mg/L		6/13/2013 1650h	E300.0	500	<b>4,090</b>	
Total Anions, Measured	meq/L		6/14/2013 1149h	Calc.		<b>87.9</b>	
Total Cations, Measured	meq/L		6/14/2013 1149h	Calc.		<b>70.0</b>	
Total Dissolved Solids	mg/L		6/7/2013 1130h	SM2540C	20.0	<b>4,580</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/14/2013 1149h	Calc.		<b>0.797</b>	^
Total Dissolved Solids, Calculated	mg/L		6/14/2013 1149h	Calc.		<b>5,740</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

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

\* - High result due to high salt concentration. In this range, high results may be expected. The sample was reanalyzed with comparable results.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-001A  
**Client Sample ID:** MW-20\_06032013  
**Collection Date:** 6/3/2013 1350h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/5/2013 1222h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.1	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.4	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 21, 2013

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-20\_06032013 Project: DNMI00100  
Sample ID: 327219001 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 03-JUN-13 13:50  
Receive Date: 07-JUN-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.308	0.739	1.00	pCi/L		KDF1	06/20/13	1538	1307891	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.9	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-008  
**Client Sample ID:** MW-22\_05222013  
**Collection Date:** 5/22/2013 1315h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2120h	E200.8	0.000500	<b>0.0170</b>	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0002h	E200.8	0.000500	<b>0.165</b>	
Calcium	mg/L	5/24/2013	1255h	6/3/2013	1734h	E200.7	100	<b>434</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0002h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.0100	<b>0.501</b>	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2255h	E200.8	0.0100	<b>0.0601</b>	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0151h	E200.8	0.0300	<b>0.0743</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0336h	E200.8	0.00100	<b>0.00525</b>	
Magnesium	mg/L	5/24/2013	1255h	6/3/2013	1734h	E200.7	100	<b>1,040</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2301h	E200.8	0.0500	<b>43.3</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0912h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.0100	<b>0.176</b>	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.0200	<b>0.295</b>	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1126h	E200.7	10.0	<b>20.6</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.00500	<b>0.0152</b>	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0002h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1126h	E200.7	10.0	<b>260</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0336h	E200.8	0.000500	<b>0.00120</b>	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0002h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0012h	E200.8	0.000300	<b>0.0296</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1357h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2204h	E200.8	0.0100	<b>1.20</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-008  
**Client Sample ID:** MW-22\_05222013  
**Collection Date:** 5/22/2013 1315h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## 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	6/3/2013 1300h	6/3/2013 2108h	E350.1	0.0500	<b>0.413</b>	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>28.4</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 0055h	E300.0	10.0	<b>51.5</b>	
Fluoride	mg/L		5/25/2013 0055h	E300.0	1.00	<b>15.4</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-1.04</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1842h	E353.2	1.00	<b>3.25</b>	
Sulfate	mg/L		5/25/2013 0032h	E300.0	1,000	<b>5,740</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>122</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>119</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	100	<b>7,900</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.04</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>7,560</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-008A  
**Client Sample ID:** MW-22\_05222013  
**Collection Date:** 5/22/2013 1315h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1719h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.9	50.00	95.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.9	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.3	50.00	90.6	80-124	
Surr: Toluene-d8	2037-26-5	52.8	50.00	106	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-22\_05222013 Project: DNMI00100  
Sample ID: 326481008 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 22-MAY-13 13:15  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		14.0	+/-1.08	0.938	1.00	pCi/L		KDF1	06/05/13	1533	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-009  
**Client Sample ID:** MW-23\_05232013  
**Collection Date:** 5/23/2013 0720h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2125h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0012h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/3/2013	1738h	E200.7	100	<b>468</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0012h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2306h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0157h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0417h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1130h	E200.7	20.0	<b>146</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2306h	E200.8	0.0100	<b>0.0243</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0913h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1401h	E200.7	1.00	<b>9.79</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0012h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1130h	E200.7	20.0	<b>374</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0417h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0012h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0033h	E200.8	0.000300	<b>0.0120</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1401h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2209h	E200.8	0.0100	<b>0.0159</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-009  
**Client Sample ID:** MW-23\_05232013  
**Collection Date:** 5/23/2013 0720h  
**Received Date:** 5/24/2013 1000h

## **Analytical Results**

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2109h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>265</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 1233h	E300.0	1.00	<b>8.06</b>	
Fluoride	mg/L		5/25/2013 1233h	E300.0	0.100	<b>0.264</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-5.42</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1843h	E353.2	0.100	<b>0.222</b>	
Sulfate	mg/L		5/25/2013 0118h	E300.0	500	<b>2,510</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>57.8</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>51.9</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>3,570</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>0.971</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>3,680</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-009A  
**Client Sample ID:** MW-23\_05232013  
**Collection Date:** 5/23/2013 0720h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1738h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.1	50.00	94.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.6	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.2	50.00	90.3	80-124	
Surr: Toluene-d8	2037-26-5	52.4	50.00	105	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-23\_05232013 Project: DNMI00100  
Sample ID: 326481009 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 23-MAY-13 07:20  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.88	+/-0.392	0.585	1.00	pCi/L		KDF1	06/05/13	1533	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.1	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-010  
**Client Sample ID:** MW-24\_05222013  
**Collection Date:** 5/22/2013 0625h  
**Received Date:** 5/24/2013 1000h

## Analytical Results

## DISSOLVED METALS

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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	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2131h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0022h	E200.8	0.000500	<b>0.00132</b>	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1134h	E200.7	50.0	<b>465</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0022h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2311h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/3/2013	2311h	E200.8	0.100	<b>0.772</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0428h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1134h	E200.7	50.0	<b>165</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2317h	E200.8	0.0100	<b>2.70</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0915h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1418h	E200.7	1.00	<b>13.0</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0022h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1134h	E200.7	50.0	<b>510</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0428h	E200.8	0.000500	<b>0.000618</b>	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0022h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0038h	E200.8	0.000300	<b>0.00452</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1418h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2215h	E200.8	0.0100	<b>0.0232</b>	

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. 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 for any



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-010  
**Client Sample ID:** MW-24\_05222013  
**Collection Date:** 5/22/2013 0625h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013	1300h	6/3/2013	2111h	E350.1	0.0500	<b>0.408</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L			5/28/2013	1036h	SM2320B	1.00	<b>234</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L			5/28/2013	1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L			5/25/2013	0251h	E300.0	10.0	<b>44.4</b>	
Fluoride	mg/L			5/25/2013	1256h	E300.0	0.100	<b>0.211</b>	
Ion Balance	%			6/5/2013	0918h	Calc.	-15.0	<b>9.52</b>	
Nitrate/Nitrite (as N)	mg/L			6/3/2013	1844h	E353.2	0.100	< 0.100	
Sulfate	mg/L			5/25/2013	0228h	E300.0	500	<b>2,070</b>	
Total Anions, Measured	meq/L			6/5/2013	0918h	Calc.		<b>49.0</b>	
Total Cations, Measured	meq/L			6/5/2013	0918h	Calc.		<b>59.3</b>	
Total Dissolved Solids	mg/L			5/25/2013	1300h	SM2540C	20.0	<b>4,360</b>	
Total Dissolved Solids Ratio, Measured/Calculated				6/5/2013	0918h	Calc.		<b>1.28</b>	^
Total Dissolved Solids, Calculated	mg/L			6/5/2013	0918h	Calc.		<b>3,410</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-010A  
**Client Sample ID:** MW-24\_05222013  
**Collection Date:** 5/22/2013 0625h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1758h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.2	50.00	94.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.7	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.0	50.00	90.0	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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\_05222013 Project: DNMI00100  
Sample ID: 326481010 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 22-MAY-13 06:25  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.15	+/-0.323	0.600	1.00	pCi/L		KDF1	06/05/13	1512	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.4	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-006  
**Client Sample ID:** MW-25\_05142013  
**Collection Date:** 5/14/2013 1055h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1751h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.000500	<b>0.00152</b>	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1559h	E200.7	100	<b>367</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1751h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2138h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1559h	E200.7	100	<b>124</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	<b>1.66</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0931h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	<b>0.0112</b>	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1352h	E200.7	1.00	<b>9.19</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1038h	E200.7	100	<b>323</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2138h	E200.8	0.000500	<b>0.000886</b>	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1607h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1954h	E200.8	0.000300	<b>0.00588</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1352h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1616h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-006  
**Client Sample ID:** MW-25\_05142013  
**Collection Date:** 5/14/2013 1055h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	5/23/2013 1030h	5/23/2013 1940h	E350.1	0.0500	<b>0.401</b>	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>348</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 1939h	E300.0	5.00	<b>28.1</b>	
Fluoride	mg/L		5/21/2013 0913h	E300.0	0.100	<b>0.392</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>8.68</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1701h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/20/2013 1916h	E300.0	500	<b>1,350</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>35.9</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>42.8</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>2,880</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.19</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>2,410</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-006A  
**Client Sample ID:** MW-25\_05142013  
**Collection Date:** 5/14/2013 1055h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1557h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.3	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.5	80-124	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.7	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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\_05142013 Project: DNMI00100  
Sample ID: 325944006 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 14-MAY-13 10:55  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.06	+/-0.286	0.643	1.00	pCi/L		KDF1	05/25/13	1444	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-011  
**Client Sample ID:** MW-26\_05232013  
**Collection Date:** 5/23/2013 0740h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2136h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0032h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/3/2013	1745h	E200.7	100	<b>517</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0032h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2322h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0207h	E200.8	0.0300	<b>0.498</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0438h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1254h	E200.7	20.0	<b>166</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2322h	E200.8	0.0100	<b>1.12</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0920h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1138h	E200.7	1.00	<b>11.2</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.00500	<b>0.00916</b>	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0032h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1254h	E200.7	20.0	<b>171</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0438h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0032h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0043h	E200.8	0.000300	<b>0.0643</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1138h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2220h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-011  
**Client Sample ID:** MW-26\_05232013  
**Collection Date:** 5/23/2013 0740h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2112h	E350.1	0.0500	<b>0.172</b>	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>340</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 0424h	E300.0	10.0	<b>63.1</b>	
Fluoride	mg/L		5/25/2013 1406h	E300.0	0.100	<b>0.317</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>10.8</b>	*
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1846h	E353.2	1.00	<b>2.01</b>	
Sulfate	mg/L		5/25/2013 0401h	E300.0	500	<b>1,410</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>38.0</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>47.2</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>3,040</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.19</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>2,550</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

\* - High result due to high salt concentration. In this range, high results may be expected. The sample was reanalyzed with comparable results.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-011A  
**Client Sample ID:** MW-26\_05232013  
**Collection Date:** 5/23/2013 0740h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/29/2013 1158h

**Units:** µg/L                      **Dilution Factor:** 20                      **Method:** SW8260C

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Salt Lake City, UT 84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,210	-

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e-mail: awal@awal-labs.com

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	951	1,000	95.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,080	1,000	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	935	1,000	93.5	80-124	
Surr: Toluene-d8	2037-26-5	1,050	1,000	105	77-129	

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

web: www.awal-labs.com

**Analyzed:** 5/28/2013 1816h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	4.07	
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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	45.4	50.00	90.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	46.3	50.00	92.6	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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\_05232013 Project: DNMI00100  
Sample ID: 326481011 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 23-MAY-13 07:40  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		3.49	+/-0.685	0.908	1.00	pCi/L		KDF1	06/05/13	1512	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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

### Notes:

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

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

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-012  
**Client Sample ID:** MW-27\_05212013  
**Collection Date:** 5/21/2013 1100h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2141h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0043h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1038h	E200.7	10.0	<b>162</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0043h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2327h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0213h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0448h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1038h	E200.7	10.0	<b>73.4</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2327h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0921h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1422h	E200.7	1.00	<b>4.07</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.00500	<b>0.0117</b>	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0043h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1038h	E200.7	10.0	<b>71.1</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0448h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0043h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0049h	E200.8	0.000300	<b>0.0294</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1422h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2241h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-012  
**Client Sample ID:** MW-27\_05212013  
**Collection Date:** 5/21/2013 1100h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/3/2013 1300h	6/3/2013 2113h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>397</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 0511h	E300.0	10.0	<b>44.3</b>	
Fluoride	mg/L		5/25/2013 1429h	E300.0	0.100	<b>0.660</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>-6.27</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1847h	E353.2	1.00	<b>7.09</b>	
Sulfate	mg/L		5/25/2013 0447h	E300.0	100	<b>497</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>19.6</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>17.3</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>1,110</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.01</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>1,100</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-012A  
**Client Sample ID:** MW-27\_05212013  
**Collection Date:** 5/21/2013 1100h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1835h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.4	50.00	96.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.6	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.9	50.00	91.8	80-124	
Surr: Toluene-d8	2037-26-5	53.4	50.00	107	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-27\_05212013 Project: DNMI00100  
Sample ID: 326481012 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 21-MAY-13 11:00  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.57	+/-0.388	0.660	1.00	pCi/L		KDF1	06/05/13	1512	1304576	1

The following Analytical Methods were performed:

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

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-007  
**Client Sample ID:** MW-28\_05152013  
**Collection Date:** 5/15/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.00500	<b>0.0104</b>	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1757h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.000500	<b>0.00461</b>	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1603h	E200.7	100	<b>487</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	<b>0.0346</b>	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1757h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2219h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1603h	E200.7	100	<b>163</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	<b>1.73</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0933h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0200	<b>0.0268</b>	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1356h	E200.7	1.00	<b>11.4</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1054h	E200.7	100	<b>338</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2219h	E200.8	0.000500	<b>0.000848</b>	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1613h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 1959h	E200.8	0.000300	<b>0.00358</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1356h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1621h	E200.8	0.0100	<b>0.0587</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-007  
**Client Sample ID:** MW-28\_05152013  
**Collection Date:** 5/15/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1946h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>128</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/23/2013 1347h	E300.0	50.0	<b>102</b>	
Fluoride	mg/L		5/21/2013 0936h	E300.0	0.100	<b>0.611</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>4.94</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1703h	E353.2	0.100	<b>0.244</b>	
Sulfate	mg/L		5/20/2013 2002h	E300.0	500	<b>2,030</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>47.7</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>52.7</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,480</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.08</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,210</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-007A  
**Client Sample ID:** MW-28\_05152013  
**Collection Date:** 5/15/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1616h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.8	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.5	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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\_05152013 Project: DNMI00100  
Sample ID: 325944007 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 15-MAY-13 14:45  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		2.01	+/-0.355	0.429	1.00	pCi/L		KDF1	05/25/13	1444	1303154	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.7	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-013  
**Client Sample ID:** MW-29\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2247h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2147h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0053h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1142h	E200.7	50.0	<b>439</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0053h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2247h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2333h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/3/2013	2333h	E200.8	0.100	<b>1.25</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0458h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1142h	E200.7	50.0	<b>210</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2338h	E200.8	0.0100	<b>5.14</b>	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0923h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2247h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2247h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1426h	E200.7	1.00	<b>17.3</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2247h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0053h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1142h	E200.7	50.0	<b>473</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0458h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0053h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0054h	E200.8	0.000300	<b>0.0119</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1426h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	6/4/2013	2147h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-013  
**Client Sample ID:** MW-29\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

## 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	6/3/2013	1300h	6/3/2013	2114h	E350.1	0.0500	<b>0.528</b>	
Bicarbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	<b>314</b>	
Carbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L			5/25/2013	0557h	E300.0	10.0	<b>35.0</b>	
Fluoride	mg/L			5/25/2013	1452h	E300.0	0.100	<b>0.767</b>	
Ion Balance	%			6/5/2013	0918h	Calc.	-15.0	<b>1.62</b>	
Nitrate/Nitrite (as N)	mg/L			6/3/2013	1848h	E353.2	0.100	< 0.100	
Sulfate	mg/L			5/25/2013	0534h	E300.0	500	<b>2,450</b>	
Total Anions, Measured	meq/L			6/5/2013	0918h	Calc.		<b>58.3</b>	
Total Cations, Measured	meq/L			6/5/2013	0918h	Calc.		<b>60.2</b>	
Total Dissolved Solids	mg/L			5/25/2013	1300h	SM2540C	20.0	<b>4,340</b>	
Total Dissolved Solids Ratio, Measured/Calculated				6/5/2013	0918h	Calc.		<b>1.14</b>	^
Total Dissolved Solids, Calculated	mg/L			6/5/2013	0918h	Calc.		<b>3,810</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-013A  
**Client Sample ID:** MW-29\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1854h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.2	50.00	94.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.0	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.0	50.00	89.9	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-29\_05232013 Project: DNMI00100  
Sample ID: 326481013 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 23-MAY-13 09:00  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha	U	1.00	+/-0.181	0.282	1.00	pCi/L		KDF1	06/28/13	1117 1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.3	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-008  
**Client Sample ID:** MW-30\_05152013  
**Collection Date:** 5/15/2013 1340h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1802h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1619h	E200.7	100	<b>259</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1802h	E200.8	0.0300	<b>0.0592</b>	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2229h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/28/2013 1058h	E200.7	10.0	<b>70.9</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	<b>0.0265</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0935h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1400h	E200.7	1.00	<b>6.33</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.00500	<b>0.0394</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1058h	E200.7	10.0	<b>106</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2229h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1618h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 2004h	E200.8	0.000300	<b>0.00631</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1400h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1626h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-008  
**Client Sample ID:** MW-30\_05152013  
**Collection Date:** 5/15/2013 1340h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### 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	5/23/2013 1030h	5/23/2013 1947h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>159</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 2158h	E300.0	50.0	<b>119</b>	
Fluoride	mg/L		5/21/2013 0959h	E300.0	0.100	<b>0.331</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>-1.07</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1704h	E353.2	1.00	<b>18.8</b>	
Sulfate	mg/L		5/20/2013 2049h	E300.0	100	<b>828</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>24.1</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>23.6</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>1,540</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.03</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>1,500</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-008A  
**Client Sample ID:** MW-30\_05152013  
**Collection Date:** 5/15/2013 1340h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1635h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.0	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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\_05152013 Project: DNMI00100  
Sample ID: 325944008 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 15-MAY-13 13:40  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.210	0.314	1.00	pCi/L		KDF1	05/25/13	1444	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-009  
**Client Sample ID:** MW-31\_05132013  
**Collection Date:** 5/13/2013 1315h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1807h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1623h	E200.7	100	<b>191</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1807h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2239h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/28/2013 1102h	E200.7	10.0	<b>90.9</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0936h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1416h	E200.7	1.00	<b>5.52</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.00500	<b>0.0759</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1102h	E200.7	10.0	<b>99.2</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2239h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1624h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 2009h	E200.8	0.000300	<b>0.00763</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1416h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1632h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-009  
**Client Sample ID:** MW-31\_05132013  
**Collection Date:** 5/13/2013 1315h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1948h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	174	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 2222h	E300.0	50.0	169	Ⓜ
Fluoride	mg/L		5/21/2013 1022h	E300.0	0.100	0.764	Ⓜ
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	-0.578	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1705h	E353.2	2.00	23.8	
Sulfate	mg/L		5/20/2013 2222h	E300.0	50.0	630	Ⓜ
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		21.7	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		21.5	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	1,540	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		1.18	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		1,310	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

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



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-009A  
**Client Sample ID:** MW-31\_05132013  
**Collection Date:** 5/13/2013 1315h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1654h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.4	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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\_05132013 Project: DNMI00100  
Sample ID: 325944009 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 13-MAY-13 13:15  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.07	+/-0.262	0.437	1.00	pCi/L		KDF1	05/25/13	1444	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.8	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-010  
**Client Sample ID:** MW-32\_05132013  
**Collection Date:** 5/13/2013 1255h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1828h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.000500	<b>0.000738</b>	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1627h	E200.7	100	<b>482</b>	2
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0100	<b>0.0339</b>	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1850h	E200.8	0.500	<b>4.07</b>	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2249h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1627h	E200.7	100	<b>199</b>	2
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1850h	E200.8	0.0100	<b>5.11</b>	2
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0938h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0100	<b>0.0103</b>	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0200	<b>0.0394</b>	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1154h	E200.7	10.0	<b>13.6</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1106h	E200.7	100	<b>252</b>	2
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2249h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1650h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 2031h	E200.8	0.000300	<b>0.00152</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1420h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1637h	E200.8	0.0100	<b>0.0616</b>	

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-010  
**Client Sample ID:** MW-32\_05132013  
**Collection Date:** 5/13/2013 1255h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1949h	E350.1	0.0500	<b>0.505</b>	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>408</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/20/2013 2355h	E300.0	10.0	<b>32.3</b>	
Fluoride	mg/L		5/21/2013 1046h	E300.0	0.100	<b>0.208</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>5.48</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1711h	E353.2	0.100	<b>0.104</b>	
Sulfate	mg/L		5/20/2013 2331h	E300.0	500	<b>1,800</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>46.6</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>52.0</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,940</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.30</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,030</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

# ORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-010A  
**Client Sample ID:** MW-32\_05132013  
**Collection Date:** 5/13/2013 1255h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1713h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.0	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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-32\_05132013 Project: DNMI00100  
Sample ID: 325944010 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 13-MAY-13 12:55  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		3.72	+/-0.474	0.473	1.00	pCi/L		KDF1	05/25/13	1444	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments			
	EPA 900.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			102	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-011  
**Client Sample ID:** MW-35\_05132013  
**Collection Date:** 5/13/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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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	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1834h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1639h	E200.7	100	<b>502</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1834h	E200.8	0.0300	<b>0.133</b>	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2320h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1639h	E200.7	100	<b>151</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	<b>0.252</b>	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0939h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1433h	E200.7	1.00	<b>10.9</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.00500	<b>0.0161</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1118h	E200.7	100	<b>417</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2320h	E200.8	0.000500	<b>0.000715</b>	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1655h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 2036h	E200.8	0.000300	<b>0.0220</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1433h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1653h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-011  
**Client Sample ID:** MW-35\_05132013  
**Collection Date:** 5/13/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1950h	E350.1	0.0500	<b>0.0518</b>	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>352</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/21/2013 0041h	E300.0	10.0	<b>60.0</b>	
Fluoride	mg/L		5/21/2013 1109h	E300.0	0.100	<b>0.362</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>7.75</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1712h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/21/2013 0018h	E300.0	500	<b>1,880</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>47.8</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>55.9</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>3,940</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.22</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,230</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-011A  
**Client Sample ID:** MW-35\_05132013  
**Collection Date:** 5/13/2013 1445h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1731h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.3	80-124	
Surr: Toluene-d8	2037-26-5	48.2	50.00	96.5	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 10, 2013

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-35\_05132013      Project: DNMI00100  
Sample ID: 325944011      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 13-MAY-13 14:45  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.92	+/-0.590	0.891	1.00	pCi/L		KDF1	05/25/13	1441	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.5	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-012  
**Client Sample ID:** MW-36\_05142013  
**Collection Date:** 5/14/2013 0805h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/21/2013 0940h	5/22/2013 1839h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/21/2013 0940h	5/24/2013 1643h	E200.7	100	<b>428</b>	
Chromium	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/21/2013 0940h	5/22/2013 1839h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/21/2013 0940h	5/22/2013 2330h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/21/2013 0940h	5/24/2013 1643h	E200.7	100	<b>131</b>	
Manganese	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/20/2013 1426h	5/21/2013 0941h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/21/2013 0940h	5/28/2013 1437h	E200.7	1.00	<b>9.45</b>	
Selenium	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.00500	<b>0.255</b>	
Silver	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/21/2013 0940h	5/28/2013 1122h	E200.7	100	<b>740</b>	
Thallium	mg/L	5/21/2013 0940h	5/22/2013 2330h	E200.8	0.000500	<b>0.000805</b>	
Tin	mg/L	5/21/2013 0940h	5/24/2013 1701h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/21/2013 0940h	5/22/2013 2041h	E200.8	0.000300	<b>0.0220</b>	
Vanadium	mg/L	5/21/2013 0940h	5/28/2013 1437h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/21/2013 0940h	5/22/2013 1658h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-012  
**Client Sample ID:** MW-36\_05142013  
**Collection Date:** 5/14/2013 0805h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## 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	5/23/2013 1030h	5/23/2013 1951h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	<b>302</b>	
Carbonate (as CaCO3)	mg/L		5/20/2013 1042h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/21/2013 0128h	E300.0	10.0	<b>53.3</b>	
Fluoride	mg/L		5/21/2013 1132h	E300.0	0.100	<b>0.303</b>	
Ion Balance	%		5/29/2013 1455h	Calc.	-15.0	<b>5.21</b>	
Nitrate/Nitrite (as N)	mg/L		5/24/2013 1714h	E353.2	0.100	<b>0.178</b>	
Sulfate	mg/L		5/21/2013 0104h	E300.0	500	<b>2,430</b>	
Total Anions, Measured	meq/L		5/29/2013 1455h	Calc.		<b>58.2</b>	
Total Cations, Measured	meq/L		5/29/2013 1455h	Calc.		<b>64.6</b>	
Total Dissolved Solids	mg/L		5/17/2013 1500h	SM2540C	20.0	<b>4,340</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/29/2013 1455h	Calc.		<b>1.09</b>	^
Total Dissolved Solids, Calculated	mg/L		5/29/2013 1455h	Calc.		<b>3,980</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-012A  
**Client Sample ID:** MW-36\_05142013  
**Collection Date:** 5/14/2013 0805h  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1750h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.6	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 10, 2013

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\_05142013      Project: DNMI00100  
Sample ID: 325944012      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 14-MAY-13 08:05  
Receive Date: 17-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		2.68	+/-0.463	0.698	1.00	pCi/L		KDF1	05/25/13	1441	1303154	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			94.9	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-002  
**Client Sample ID:** MW-37\_06032013  
**Collection Date:** 6/3/2013 1308h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2013 1000h	6/13/2013 0229h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2013 1000h	6/10/2013 0827h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2013 1000h	6/10/2013 1621h	E200.7	100	<b>492</b>	
Chromium	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2013 1000h	6/13/2013 2140h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2013 1000h	6/13/2013 0229h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2013 1000h	6/13/2013 0229h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2013 1000h	6/10/2013 1621h	E200.7	100	<b>137</b>	
Manganese	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/7/2013 1230h	6/8/2013 1139h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2013 1000h	6/13/2013 1532h	E200.7	1.00	<b>15.2</b>	
Selenium	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.00500	<b>0.00745</b>	
Silver	mg/L	6/6/2013 1000h	6/10/2013 0827h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2013 1000h	6/10/2013 1621h	E200.7	100	<b>522</b>	
Thallium	mg/L	6/6/2013 1000h	6/14/2013 1044h	E200.8	0.000500	<b>0.000690</b>	
Tin	mg/L	6/6/2013 1000h	6/10/2013 0827h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2013 1000h	6/13/2013 0632h	E200.8	0.000300	<b>0.0123</b>	
Vanadium	mg/L	6/6/2013 1000h	6/13/2013 1532h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2013 1000h	6/13/2013 0600h	E200.8	0.0100	<b>0.0221</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-002  
**Client Sample ID:** MW-37\_06032013  
**Collection Date:** 6/3/2013 1308h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

## Analytical Results

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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
Ammonia (as N)	mg/L	6/17/2013 1600h	6/17/2013 2140h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/6/2013 1031h	SM2320B	1.00	<b>214</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/6/2013 1031h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2013 1923h	E300.0	10.0	<b>48.8</b>	
Fluoride	mg/L		6/11/2013 0159h	E300.0	0.100	<b>0.274</b>	
Ion Balance	%		6/14/2013 1149h	Calc.	-15.0	<b>-0.518</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2013 1956h	E353.2	1.00	<b>18.1</b>	
Sulfate	mg/L		6/13/2013 1713h	E300.0	500	<b>2,570</b>	
Total Anions, Measured	meq/L		6/14/2013 1149h	Calc.		<b>59.5</b>	
Total Cations, Measured	meq/L		6/14/2013 1149h	Calc.		<b>58.9</b>	
Total Dissolved Solids	mg/L		6/7/2013 1130h	SM2540C	20.0	<b>3,700</b>	@
Total Dissolved Solids Ratio, Measured/Calculated			6/14/2013 1149h	Calc.		<b>0.941</b>	^
Total Dissolved Solids, Calculated	mg/L		6/14/2013 1149h	Calc.		<b>3,940</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.

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



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-002A  
**Client Sample ID:** MW-37\_06032013  
**Collection Date:** 6/3/2013 1308h  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/5/2013 1242h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.5	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.4	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: June 21, 2013

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-37\_06032013      Project: DNMI00100  
Sample ID: 327219002      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 03-JUN-13 13:08  
Receive Date: 07-JUN-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.22	+/-0.378	0.864	1.00	pCi/L		KDF1	06/20/13	1538	1307891	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.5	(25%-125%)

### Notes:

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

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-014  
**Client Sample ID:** MW-65\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2152h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0103h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1054h	E200.7	20.0	<b>312</b>	
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0103h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/3/2013	2359h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0223h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0509h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1054h	E200.7	20.0	<b>89.6</b>	
Manganese	mg/L	5/24/2013	1255h	6/3/2013	2359h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0925h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1430h	E200.7	1.00	<b>10.2</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.00500	<b>0.0164</b>	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0103h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1054h	E200.7	20.0	<b>492</b>	
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0509h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0103h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0059h	E200.8	0.000300	<b>0.0139</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1430h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	5/30/2013	2252h	E200.8	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-014  
**Client Sample ID:** MW-65\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## 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	6/3/2013	1300h	6/3/2013	2115h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	325	
Carbonate (as CaCO3)	mg/L			5/28/2013	1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L			5/25/2013	1515h	E300.0	1.00	7.21	
Fluoride	mg/L			5/25/2013	1515h	E300.0	0.100	0.322	
Ion Balance	%			6/5/2013	0918h	Calc.	-15.0	8.37	
Nitrate/Nitrite (as N)	mg/L			6/3/2013	1850h	E353.2	0.100	< 0.100	
Sulfate	mg/L			5/25/2013	0707h	E300.0	500	1,490	
Total Anions, Measured	meq/L			6/5/2013	0918h	Calc.		37.7	
Total Cations, Measured	meq/L			6/5/2013	0918h	Calc.		44.6	
Total Dissolved Solids	mg/L			5/25/2013	1300h	SM2540C	20.0	3,360	
Total Dissolved Solids Ratio, Measured/Calculated				6/5/2013	0918h	Calc.		1.29	^
Total Dissolved Solids, Calculated	mg/L			6/5/2013	0918h	Calc.		2,590	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-014A  
**Client Sample ID:** MW-65\_05212013  
**Collection Date:** 5/21/2013 1430h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1913h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.3	50.00	94.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.0	50.00	90.1	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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\_05212013      Project: DNMI00100  
Sample ID: 326481014      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 21-MAY-13 14:30  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.71	+/-0.312	0.465	1.00	pCi/L		KDF1	06/05/13	1513	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			102	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-015  
**Client Sample ID:** MW-70\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/24/2013	1255h	5/30/2013	2257h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/24/2013	1255h	6/4/2013	2157h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/24/2013	1255h	5/31/2013	0113h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/24/2013	1255h	6/4/2013	1146h	E200.7	50.0	<b>450</b>	2
Chromium	mg/L	5/24/2013	1255h	5/31/2013	0113h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/24/2013	1255h	5/30/2013	2257h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/24/2013	1255h	6/4/2013	0005h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/24/2013	1255h	6/4/2013	0021h	E200.8	0.500	<b>1.28</b>	
Lead	mg/L	5/24/2013	1255h	5/31/2013	0519h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/24/2013	1255h	6/4/2013	1146h	E200.7	50.0	<b>217</b>	2
Manganese	mg/L	5/24/2013	1255h	6/4/2013	0021h	E200.8	0.0100	<b>5.26</b>	2
Mercury	mg/L	5/28/2013	1330h	5/29/2013	0926h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/24/2013	1255h	5/30/2013	2257h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/24/2013	1255h	5/30/2013	2257h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/24/2013	1255h	6/4/2013	1539h	E200.7	10.0	<b>16.5</b>	
Selenium	mg/L	5/24/2013	1255h	5/30/2013	2257h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/24/2013	1255h	5/31/2013	0113h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/24/2013	1255h	6/4/2013	1146h	E200.7	50.0	<b>483</b>	2
Thallium	mg/L	5/24/2013	1255h	5/31/2013	0519h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/24/2013	1255h	5/31/2013	0113h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/24/2013	1255h	5/31/2013	0105h	E200.8	0.000300	<b>0.0122</b>	
Vanadium	mg/L	5/24/2013	1255h	6/4/2013	1434h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/24/2013	1255h	6/4/2013	2157h	E200.8	0.0100	< 0.0100	

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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-015  
**Client Sample ID:** MW-70\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## 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	6/3/2013 1300h	6/3/2013 2121h	E350.1	0.0500	<b>0.475</b>	
Bicarbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	<b>312</b>	
Carbonate (as CaCO3)	mg/L		5/28/2013 1036h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/25/2013 0817h	E300.0	10.0	<b>35.6</b>	
Fluoride	mg/L		5/25/2013 1539h	E300.0	0.100	<b>0.725</b>	
Ion Balance	%		6/5/2013 0918h	Calc.	-15.0	<b>4.81</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2013 1851h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/25/2013 0754h	E300.0	500	<b>2,340</b>	
Total Anions, Measured	meq/L		6/5/2013 0918h	Calc.		<b>56.1</b>	
Total Cations, Measured	meq/L		6/5/2013 0918h	Calc.		<b>61.7</b>	
Total Dissolved Solids	mg/L		5/25/2013 1300h	SM2540C	20.0	<b>4,380</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2013 0918h	Calc.		<b>1.17</b>	^
Total Dissolved Solids, Calculated	mg/L		6/5/2013 0918h	Calc.		<b>3,730</b>	

^ - Reissue of a previously generated report. Information has been revised. Information herein supersedes that of the previously issued reports.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-015A  
**Client Sample ID:** MW-70\_05232013  
**Collection Date:** 5/23/2013 0900h  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1932h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.4	50.00	94.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.7	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.2	50.00	90.4	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Report Date: July 2, 2013

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-70\_05232013 Project: DNMI00100  
Sample ID: 326481015 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 23-MAY-13 09:00  
Receive Date: 24-MAY-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.173	0.361	1.00	pCi/L		KDF1	06/28/13	1117	1304576	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.2	(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.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305419-013A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/13/2013  
**Received Date:** 5/17/2013 0945h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/19/2013 1809h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.5	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1305551-016A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/20/2013  
**Received Date:** 5/24/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2013 1951h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.4	50.00	94.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.2	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	44.9	50.00	89.9	80-124	
Surr: Toluene-d8	2037-26-5	53.0	50.00	106	77-129	

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Sample ID:** 1306068-003A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/3/2013  
**Received Date:** 6/5/2013 0940h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/5/2013 1301h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.6	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.3	77-129	



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2013

Dear Garrin Palmer:

Lab Set ID: 1305419

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 13 sample(s) on 5/17/2013 for the analyses presented in the following report.

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web: www.awal-labs.com

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, 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.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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.

This is a revision to a report originally issued 5/31/2013. Pages 22 through 33 have been revised. The analytical result for Total Dissolved Solids Ratio, Measured/Calculated has been revised.

Thank You,

Approved by:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2013.07.29 13:10:14 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419  
**Date Received:** 5/17/2013 0945h

**Contact:** Garrin Palmer

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305419-001A	MW-05_05142013	5/14/2013 1620h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-001B	MW-05_05142013	5/14/2013 1620h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-001B	MW-05_05142013	5/14/2013 1620h	Aqueous	Anions, E300.0
1305419-001C	MW-05_05142013	5/14/2013 1620h	Aqueous	Total Dissolved Solids, A2540C
1305419-001D	MW-05_05142013	5/14/2013 1620h	Aqueous	Ammonia, Aqueous
1305419-001D	MW-05_05142013	5/14/2013 1620h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-001E	MW-05_05142013	5/14/2013 1620h	Aqueous	Ion Balance
1305419-001E	MW-05_05142013	5/14/2013 1620h	Aqueous	ICP Metals, Dissolved
1305419-001E	MW-05_05142013	5/14/2013 1620h	Aqueous	ICPMS Metals, Dissolved
1305419-001E	MW-05_05142013	5/14/2013 1620h	Aqueous	Mercury, Drinking Water Dissolved
1305419-002A	MW-11_05142013	5/14/2013 1240h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-002B	MW-11_05142013	5/14/2013 1240h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-002B	MW-11_05142013	5/14/2013 1240h	Aqueous	Anions, E300.0
1305419-002C	MW-11_05142013	5/14/2013 1240h	Aqueous	Total Dissolved Solids, A2540C
1305419-002D	MW-11_05142013	5/14/2013 1240h	Aqueous	Ammonia, Aqueous
1305419-002D	MW-11_05142013	5/14/2013 1240h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-002E	MW-11_05142013	5/14/2013 1240h	Aqueous	ICPMS Metals, Dissolved
1305419-002E	MW-11_05142013	5/14/2013 1240h	Aqueous	Mercury, Drinking Water Dissolved
1305419-002E	MW-11_05142013	5/14/2013 1240h	Aqueous	Ion Balance
1305419-002E	MW-11_05142013	5/14/2013 1240h	Aqueous	ICP Metals, Dissolved
1305419-003A	MW-12_05152013	5/15/2013 0905h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-003B	MW-12_05152013	5/15/2013 0905h	Aqueous	Anions, E300.0
1305419-003B	MW-12_05152013	5/15/2013 0905h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-003C	MW-12_05152013	5/15/2013 0905h	Aqueous	Total Dissolved Solids, A2540C
1305419-003D	MW-12_05152013	5/15/2013 0905h	Aqueous	Ammonia, Aqueous
1305419-003D	MW-12_05152013	5/15/2013 0905h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-003E	MW-12_05152013	5/15/2013 0905h	Aqueous	Ion Balance
1305419-003E	MW-12_05152013	5/15/2013 0905h	Aqueous	ICP Metals, Dissolved
1305419-003E	MW-12_05152013	5/15/2013 0905h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419  
**Date Received:** 5/17/2013 0945h

**Contact:** Garrin Palmer

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305419-003E	MW-12_05152013	5/15/2013 0905h	Aqueous	Mercury, Drinking Water Dissolved
1305419-004A	MW-14_05142013	5/14/2013 1345h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-004B	MW-14_05142013	5/14/2013 1345h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-004B	MW-14_05142013	5/14/2013 1345h	Aqueous	Anions, E300.0
1305419-004C	MW-14_05142013	5/14/2013 1345h	Aqueous	Total Dissolved Solids, A2540C
1305419-004D	MW-14_05142013	5/14/2013 1345h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-004D	MW-14_05142013	5/14/2013 1345h	Aqueous	Ammonia, Aqueous
1305419-004E	MW-14_05142013	5/14/2013 1345h	Aqueous	Mercury, Drinking Water Dissolved
1305419-004E	MW-14_05142013	5/14/2013 1345h	Aqueous	ICPMS Metals, Dissolved
1305419-004E	MW-14_05142013	5/14/2013 1345h	Aqueous	Ion Balance
1305419-004E	MW-14_05142013	5/14/2013 1345h	Aqueous	ICP Metals, Dissolved
1305419-005A	MW-15_05152013	5/15/2013 0950h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-005B	MW-15_05152013	5/15/2013 0950h	Aqueous	Anions, E300.0
1305419-005B	MW-15_05152013	5/15/2013 0950h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-005C	MW-15_05152013	5/15/2013 0950h	Aqueous	Total Dissolved Solids, A2540C
1305419-005D	MW-15_05152013	5/15/2013 0950h	Aqueous	Ammonia, Aqueous
1305419-005D	MW-15_05152013	5/15/2013 0950h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-005E	MW-15_05152013	5/15/2013 0950h	Aqueous	Mercury, Drinking Water Dissolved
1305419-005E	MW-15_05152013	5/15/2013 0950h	Aqueous	ICP Metals, Dissolved
1305419-005E	MW-15_05152013	5/15/2013 0950h	Aqueous	Ion Balance
1305419-005E	MW-15_05152013	5/15/2013 0950h	Aqueous	ICPMS Metals, Dissolved
1305419-006A	MW-25_05142013	5/14/2013 1055h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-006B	MW-25_05142013	5/14/2013 1055h	Aqueous	Anions, E300.0
1305419-006B	MW-25_05142013	5/14/2013 1055h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-006C	MW-25_05142013	5/14/2013 1055h	Aqueous	Total Dissolved Solids, A2540C
1305419-006D	MW-25_05142013	5/14/2013 1055h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-006D	MW-25_05142013	5/14/2013 1055h	Aqueous	Ammonia, Aqueous
1305419-006E	MW-25_05142013	5/14/2013 1055h	Aqueous	ICP Metals, Dissolved
1305419-006E	MW-25_05142013	5/14/2013 1055h	Aqueous	Ion Balance
1305419-006E	MW-25_05142013	5/14/2013 1055h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419  
**Date Received:** 5/17/2013 0945h

**Contact:** Garrin Palmer

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305419-006E	MW-25_05142013	5/14/2013 1055h	Aqueous	ICPMS Metals, Dissolved
1305419-007A	MW-28_05152013	5/15/2013 1445h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-007B	MW-28_05152013	5/15/2013 1445h	Aqueous	Anions, E300.0
1305419-007B	MW-28_05152013	5/15/2013 1445h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-007C	MW-28_05152013	5/15/2013 1445h	Aqueous	Total Dissolved Solids, A2540C
1305419-007D	MW-28_05152013	5/15/2013 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-007D	MW-28_05152013	5/15/2013 1445h	Aqueous	Ammonia, Aqueous
1305419-007E	MW-28_05152013	5/15/2013 1445h	Aqueous	ICPMS Metals, Dissolved
1305419-007E	MW-28_05152013	5/15/2013 1445h	Aqueous	Ion Balance
1305419-007E	MW-28_05152013	5/15/2013 1445h	Aqueous	ICP Metals, Dissolved
1305419-007E	MW-28_05152013	5/15/2013 1445h	Aqueous	Mercury, Drinking Water Dissolved
1305419-008A	MW-30_05152013	5/15/2013 1340h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-008B	MW-30_05152013	5/15/2013 1340h	Aqueous	Anions, E300.0
1305419-008B	MW-30_05152013	5/15/2013 1340h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-008C	MW-30_05152013	5/15/2013 1340h	Aqueous	Total Dissolved Solids, A2540C
1305419-008D	MW-30_05152013	5/15/2013 1340h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-008D	MW-30_05152013	5/15/2013 1340h	Aqueous	Ammonia, Aqueous
1305419-008E	MW-30_05152013	5/15/2013 1340h	Aqueous	ICP Metals, Dissolved
1305419-008E	MW-30_05152013	5/15/2013 1340h	Aqueous	Mercury, Drinking Water Dissolved
1305419-008E	MW-30_05152013	5/15/2013 1340h	Aqueous	Ion Balance
1305419-008E	MW-30_05152013	5/15/2013 1340h	Aqueous	ICPMS Metals, Dissolved
1305419-009A	MW-31_05132013	5/13/2013 1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-009B	MW-31_05132013	5/13/2013 1315h	Aqueous	Anions, E300.0
1305419-009B	MW-31_05132013	5/13/2013 1315h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-009C	MW-31_05132013	5/13/2013 1315h	Aqueous	Total Dissolved Solids, A2540C
1305419-009D	MW-31_05132013	5/13/2013 1315h	Aqueous	Ammonia, Aqueous
1305419-009D	MW-31_05132013	5/13/2013 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-009E	MW-31_05132013	5/13/2013 1315h	Aqueous	ICP Metals, Dissolved
1305419-009E	MW-31_05132013	5/13/2013 1315h	Aqueous	ICPMS Metals, Dissolved
1305419-009E	MW-31_05132013	5/13/2013 1315h	Aqueous	Ion Balance
1305419-009E	MW-31_05132013	5/13/2013 1315h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419  
**Date Received:** 5/17/2013 0945h

**Contact:** Garrin Palmer

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305419-010A	MW-32_05132013	5/13/2013 1255h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-010B	MW-32_05132013	5/13/2013 1255h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-010B	MW-32_05132013	5/13/2013 1255h	Aqueous	Anions, E300.0
1305419-010C	MW-32_05132013	5/13/2013 1255h	Aqueous	Total Dissolved Solids, A2540C
1305419-010D	MW-32_05132013	5/13/2013 1255h	Aqueous	Ammonia, Aqueous
1305419-010D	MW-32_05132013	5/13/2013 1255h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-010E	MW-32_05132013	5/13/2013 1255h	Aqueous	ICPMS Metals, Dissolved
1305419-010E	MW-32_05132013	5/13/2013 1255h	Aqueous	ICP Metals, Dissolved
1305419-010E	MW-32_05132013	5/13/2013 1255h	Aqueous	Ion Balance
1305419-010E	MW-32_05132013	5/13/2013 1255h	Aqueous	Mercury, Drinking Water Dissolved
1305419-011A	MW-35_05132013	5/13/2013 1445h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-011B	MW-35_05132013	5/13/2013 1445h	Aqueous	Anions, E300.0
1305419-011B	MW-35_05132013	5/13/2013 1445h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-011C	MW-35_05132013	5/13/2013 1445h	Aqueous	Total Dissolved Solids, A2540C
1305419-011D	MW-35_05132013	5/13/2013 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-011D	MW-35_05132013	5/13/2013 1445h	Aqueous	Ammonia, Aqueous
1305419-011E	MW-35_05132013	5/13/2013 1445h	Aqueous	ICP Metals, Dissolved
1305419-011E	MW-35_05132013	5/13/2013 1445h	Aqueous	Ion Balance
1305419-011E	MW-35_05132013	5/13/2013 1445h	Aqueous	Mercury, Drinking Water Dissolved
1305419-011E	MW-35_05132013	5/13/2013 1445h	Aqueous	ICPMS Metals, Dissolved
1305419-012A	MW-36_05142013	5/14/2013 0805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305419-012B	MW-36_05142013	5/14/2013 0805h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305419-012B	MW-36_05142013	5/14/2013 0805h	Aqueous	Anions, E300.0
1305419-012C	MW-36_05142013	5/14/2013 0805h	Aqueous	Total Dissolved Solids, A2540C
1305419-012D	MW-36_05142013	5/14/2013 0805h	Aqueous	Ammonia, Aqueous
1305419-012D	MW-36_05142013	5/14/2013 0805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305419-012E	MW-36_05142013	5/14/2013 0805h	Aqueous	ICP Metals, Dissolved
1305419-012E	MW-36_05142013	5/14/2013 0805h	Aqueous	Ion Balance
1305419-012E	MW-36_05142013	5/14/2013 0805h	Aqueous	ICPMS Metals, Dissolved
1305419-012E	MW-36_05142013	5/14/2013 0805h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419  
**Date Received:** 5/17/2013 0945h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305419-013A	Trip Blank	5/13/2013	Aqueous	VOA by GC/MS Method 8260C/5030C

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Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

<b>Client:</b>	Energy Fuels Resources, Inc.
<b>Contact:</b>	Garrin Palmer
<b>Project:</b>	2nd Quarter Groundwater 2013
<b>Lab Set ID:</b>	1305419

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Jose Rocha  
QA Officer

### Sample Receipt Information:

<b>Date of Receipt:</b>	5/17/2013
<b>Date(s) of Collection:</b>	5/13-5/15/2013
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	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, DUP:

**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
1305419-010E	Calcium	MS/MSD	High analyte concentration
1305419-010E	Magnesium	MS	High analyte concentration
1305419-010E	Sodium	MSD	High analyte concentration
1305419-001E	Sodium	MS/MSD	High analyte concentration
1305419-001E	Calcium	MS/MSD	High analyte concentration
1305419-010E	Manganese	MS/MSD	High analyte concentration
1305419-001B	Chloride	MS/MSD	Sample matrix interference
1305419-001B	Fluoride	MS/MSD	Sample matrix interference
1305419-001B	Sulfate	MSD	Sample matrix interference
1305419-009B	Chloride	MS/MSD	Sample matrix interference
1305419-009B	Fluoride	MS/MSD	Sample matrix interference



1305419-009B	Sulfate	MS	Sample matrix interference
1305419-001D	Ammonia	MSD	Sample matrix interference

**Duplicates (DUP):** The parameters that require a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.

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Laboratory Director

Jose Rocha  
QA Officer



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305419

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Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 5/17/2013  
**Date(s) of Collection:** 5/13-5/15/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

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

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

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

**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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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-25558</b> Date Analyzed: 05/24/2013 1456h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Calcium	9.83	mg/L	E200.7	0.0227	1.00	10.00	0	98.3	85 - 115				
Magnesium	10.0	mg/L	E200.7	0.102	1.00	10.00	0	100	85 - 115				
Potassium	10.1	mg/L	E200.7	0.203	1.00	10.00	0	101	85 - 115				
Vanadium	0.197	mg/L	E200.7	0.00150	0.00500	0.2000	0	98.6	85 - 115				
<b>Lab Sample ID: LCS-25558</b> Date Analyzed: 05/28/2013 1006h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Sodium	10.1	mg/L	E200.7	0.0514	1.00	10.00	0	101	85 - 115				
<b>Lab Sample ID: LCS-25559</b> Date Analyzed: 05/22/2013 1506h													
Test Code: 200.8-DIS      Date Prepared: 05/21/2013 0940h													
Arsenic	0.203	mg/L	E200.8	0.00118	0.00200	0.2000	0	102	85 - 115				
Beryllium	0.199	mg/L	E200.8	0.0000698	0.00200	0.2000	0	99.5	85 - 115				
Cadmium	0.199	mg/L	E200.8	0.0000726	0.000500	0.2000	0	99.6	85 - 115				
Chromium	0.201	mg/L	E200.8	0.000938	0.00200	0.2000	0	100	85 - 115				
Cobalt	0.195	mg/L	E200.8	0.00364	0.00400	0.2000	0	97.6	85 - 115				
Copper	0.198	mg/L	E200.8	0.00152	0.00200	0.2000	0	99.2	85 - 115				
Iron	0.984	mg/L	E200.8	0.0472	0.100	1.000	0	98.4	85 - 115				
Manganese	0.196	mg/L	E200.8	0.00166	0.00200	0.2000	0	97.9	85 - 115				
Molybdenum	0.198	mg/L	E200.8	0.000496	0.00200	0.2000	0	98.9	85 - 115				
Nickel	0.196	mg/L	E200.8	0.000898	0.00200	0.2000	0	98.1	85 - 115				
Selenium	0.199	mg/L	E200.8	0.000686	0.00200	0.2000	0	99.7	85 - 115				
Silver	0.191	mg/L	E200.8	0.000101	0.00200	0.2000	0	95.4	85 - 115				
Uranium	0.179	mg/L	E200.8	0.0000598	0.00200	0.2000	0	89.7	85 - 115				
Zinc	1.01	mg/L	E200.8	0.00368	0.00500	1.000	0	101	85 - 115				
<b>Lab Sample ID: LCS-25559</b> Date Analyzed: 05/22/2013 2016h													
Test Code: 200.8-DIS      Date Prepared: 05/21/2013 0940h													
Lead	0.205	mg/L	E200.8	0.00126	0.00200	0.2000	0	103	85 - 115				
Thallium	0.197	mg/L	E200.8	0.000222	0.00200	0.2000	0	98.5	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:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> LCS-25559	Date Analyzed:	05/22/2013 2016h											
Test Code:	200.8-DIS	Date Prepared:	05/21/2013 0940h										
Tin	1.01	mg/L	E200.8	0.000620	0.00200	1.000	0	101	85 - 115				
<b>Lab Sample ID:</b> LCS-25548	Date Analyzed:	05/21/2013 0912h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	05/20/2013 1426h										
Mercury	0.00357	mg/L	E245.1	0.0000175	0.000150	0.003330	0	107	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-25558</b>													
Date Analyzed: 05/24/2013 1452h													
Test Code: 200.7-DIS													
Date Prepared: 05/21/2013 0940h													
Calcium	< 1.00	mg/L	E200.7	0.0227	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.102	1.00								
Potassium	< 1.00	mg/L	E200.7	0.203	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00150	0.00500								
<b>Lab Sample ID: MB-25558</b>													
Date Analyzed: 05/28/2013 1002h													
Test Code: 200.7-DIS													
Date Prepared: 05/21/2013 0940h													
Sodium	< 1.00	mg/L	E200.7	0.0514	1.00								
<b>Lab Sample ID: MB-25559</b>													
Date Analyzed: 05/22/2013 1501h													
Test Code: 200.8-DIS													
Date Prepared: 05/21/2013 0940h													
Arsenic	< 0.00500	mg/L	E200.8	0.00118	0.00500								
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Chromium	< 0.0250	mg/L	E200.8	0.000938	0.0250								
Cobalt	< 0.0100	mg/L	E200.8	0.00364	0.0100								
Copper	< 0.0100	mg/L	E200.8	0.00152	0.0100								
Manganese	< 0.0100	mg/L	E200.8	0.00166	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000496	0.0100								
Nickel	< 0.0200	mg/L	E200.8	0.000898	0.0200								
Selenium	< 0.00500	mg/L	E200.8	0.000686	0.00500								
Silver	< 0.0100	mg/L	E200.8	0.000101	0.0100								
Zinc	< 0.0100	mg/L	E200.8	0.00368	0.0100								
<b>Lab Sample ID: MB-25559</b>													
Date Analyzed: 05/22/2013 1719h													
Test Code: 200.8-DIS													
Date Prepared: 05/21/2013 0940h													
Beryllium	< 0.000500	mg/L	E200.8	0.0000174	0.000500								
Iron	< 0.0300	mg/L	E200.8	0.0118	0.0300								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> MB-25559	Date Analyzed:	05/22/2013	1922h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/21/2013	0940h										
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								
<b>Lab Sample ID:</b> MB-25559	Date Analyzed:	05/22/2013	2006h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/21/2013	0940h										
Lead	< 0.00100	mg/L	E200.8	0.000316	0.00100								
Thallium	< 0.000500	mg/L	E200.8	0.0000555	0.000500								
<b>Lab Sample ID:</b> MB-25559	Date Analyzed:	05/24/2013	1535h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/21/2013	0940h										
Tin	< 0.100	mg/L	E200.8	0.000620	0.100								
<b>Lab Sample ID:</b> MB-25548	Date Analyzed:	05/21/2013	0910h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	05/20/2013	1426h										
Mercury	< 0.000150	mg/L	E245.1	0.0000175	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-010EMS</b> Date Analyzed: 05/24/2013 1631h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Calcium	516	mg/L	E200.7	2.27	100	10.00	482	332	70 - 130				2
Magnesium	216	mg/L	E200.7	10.2	100	10.00	199	170	70 - 130				2
<b>Lab Sample ID: 1305419-010EMS</b> Date Analyzed: 05/28/2013 1110h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Sodium	263	mg/L	E200.7	5.14	100	10.00	252	111	70 - 130				
<b>Lab Sample ID: 1305419-001EMS</b> Date Analyzed: 05/28/2013 1142h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Magnesium	52.8	mg/L	E200.7	1.02	10.0	10.00	42.4	104	70 - 130				
<b>Lab Sample ID: 1305419-010EMS</b> Date Analyzed: 05/28/2013 1158h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Potassium	24.3	mg/L	E200.7	2.03	10.0	10.00	13.6	107	70 - 130				
<b>Lab Sample ID: 1305419-001EMS</b> Date Analyzed: 05/28/2013 1328h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Potassium	17.2	mg/L	E200.7	0.203	1.00	10.00	7.52	97.0	70 - 130				
Vanadium	0.178	mg/L	E200.7	0.00150	0.00500	0.2000	0	89.1	70 - 130				
<b>Lab Sample ID: 1305419-010EMS</b> Date Analyzed: 05/28/2013 1424h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Vanadium	0.176	mg/L	E200.7	0.00150	0.00500	0.2000	0	88.2	70 - 130				
<b>Lab Sample ID: 1305419-001EMS</b> Date Analyzed: 05/28/2013 1617h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Sodium	505	mg/L	E200.7	5.14	100	10.00	471	338	70 - 130				2
<b>Lab Sample ID: 1305419-001EMS</b> Date Analyzed: 05/29/2013 0936h													
Test Code: 200.7-DIS      Date Prepared: 05/21/2013 0940h													
Calcium	162	mg/L	E200.7	2.27	100	10.00	119	425	70 - 130				2



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001EMS</b>		Date Analyzed: 05/22/2013 1528h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Arsenic	0.206	mg/L	E200.8	0.00118	0.00200	0.2000	0	103	75 - 125				
Beryllium	0.197	mg/L	E200.8	0.0000698	0.00200	0.2000	0	98.6	75 - 125				
Cadmium	0.200	mg/L	E200.8	0.0000726	0.000500	0.2000	0	99.8	75 - 125				
Chromium	0.194	mg/L	E200.8	0.000938	0.00200	0.2000	0	96.9	75 - 125				
Cobalt	0.193	mg/L	E200.8	0.00364	0.00400	0.2000	0	96.7	75 - 125				
Copper	0.193	mg/L	E200.8	0.00152	0.00200	0.2000	0	96.4	75 - 125				
Iron	1.03	mg/L	E200.8	0.0472	0.100	1.000	0.0651	96.1	75 - 125				
Manganese	0.483	mg/L	E200.8	0.00166	0.00200	0.2000	0.29	96.7	75 - 125				
Molybdenum	0.200	mg/L	E200.8	0.000496	0.00200	0.2000	0.00168	98.9	75 - 125				
Nickel	0.194	mg/L	E200.8	0.000898	0.00200	0.2000	0	97.1	75 - 125				
Selenium	0.199	mg/L	E200.8	0.000686	0.00200	0.2000	0	99.5	75 - 125				
Silver	0.189	mg/L	E200.8	0.000101	0.00200	0.2000	0	94.4	75 - 125				
Uranium	0.184	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00134	91.3	75 - 125				
Zinc	1.01	mg/L	E200.8	0.00368	0.00500	1.000	0	101	75 - 125				
<b>Lab Sample ID: 1305419-010EMS</b>		Date Analyzed: 05/22/2013 1642h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Arsenic	0.210	mg/L	E200.8	0.00118	0.00200	0.2000	0	105	75 - 125				
Beryllium	0.207	mg/L	E200.8	0.0000698	0.00200	0.2000	0.000088	103	75 - 125				
Cadmium	0.202	mg/L	E200.8	0.0000726	0.000500	0.2000	0.000738	100	75 - 125				
Chromium	0.201	mg/L	E200.8	0.000938	0.00200	0.2000	0	101	75 - 125				
Cobalt	0.237	mg/L	E200.8	0.00364	0.00400	0.2000	0.0339	102	75 - 125				
Copper	0.203	mg/L	E200.8	0.00152	0.00200	0.2000	0.00216	100	75 - 125				
Molybdenum	0.215	mg/L	E200.8	0.000496	0.00200	0.2000	0.0103	102	75 - 125				
Nickel	0.243	mg/L	E200.8	0.000898	0.00200	0.2000	0.0394	102	75 - 125				
Selenium	0.205	mg/L	E200.8	0.000686	0.00200	0.2000	0	103	75 - 125				
Silver	0.189	mg/L	E200.8	0.000101	0.00200	0.2000	0	94.4	75 - 125				
Uranium	0.190	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00158	94.3	75 - 125				
Zinc	1.10	mg/L	E200.8	0.00368	0.00500	1.000	0.0616	104	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:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-010EMS</b>		Date Analyzed: 05/22/2013 1855h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Iron	5.19	mg/L	E200.8	0.236	0.500	1.000	4.07	112	75 - 125				
Manganese	5.50	mg/L	E200.8	0.00832	0.0100	0.2000	5.11	195	75 - 125				2
<b>Lab Sample ID: 1305419-001EMS</b>		Date Analyzed: 05/22/2013 2037h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Lead	0.194	mg/L	E200.8	0.00126	0.00200	0.2000	0	96.8	75 - 125				
Thallium	0.179	mg/L	E200.8	0.000222	0.00200	0.2000	0.000061	89.4	75 - 125				
Tin	0.991	mg/L	E200.8	0.000620	0.00200	1.000	0	99.1	75 - 125				
<b>Lab Sample ID: 1305419-010EMS</b>		Date Analyzed: 05/22/2013 2300h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Lead	0.197	mg/L	E200.8	0.00126	0.00200	0.2000	0	98.3	75 - 125				
Thallium	0.187	mg/L	E200.8	0.000222	0.00200	0.2000	0	93.7	75 - 125				
Tin	1.02	mg/L	E200.8	0.000620	0.00200	1.000	0	102	75 - 125				
<b>Lab Sample ID: 1305419-001EMS</b>		Date Analyzed: 05/21/2013 0918h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 05/20/2013 1426h											
Mercury	0.00350	mg/L	E245.1	0.0000175	0.000150	0.003330	0	105	85 - 115				

<sup>2</sup> - 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:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed:	05/24/2013 1635h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Calcium	486	mg/L	E200.7	2.27	100	10.00	482	34.2	70 - 130	516	5.95	20	2
Magnesium	206	mg/L	E200.7	10.2	100	10.00	199	72.9	70 - 130	216	4.62	20	
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed:	05/28/2013 1114h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Sodium	244	mg/L	E200.7	5.14	100	10.00	252	-77.4	70 - 130	263	7.42	20	2
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed:	05/28/2013 1146h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Magnesium	50.1	mg/L	E200.7	1.02	10.0	10.00	42.4	77.0	70 - 130	52.8	5.28	20	
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed:	05/28/2013 1202h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Potassium	22.9	mg/L	E200.7	2.03	10.0	10.00	13.6	92.9	70 - 130	24.3	5.99	20	
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed:	05/28/2013 1332h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Potassium	16.7	mg/L	E200.7	0.203	1.00	10.00	7.52	91.8	70 - 130	17.2	3.07	20	
Vanadium	0.176	mg/L	E200.7	0.00150	0.00500	0.2000	0	88.0	70 - 130	0.178	1.28	20	
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed:	05/28/2013 1429h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Vanadium	0.174	mg/L	E200.7	0.00150	0.00500	0.2000	0	87.1	70 - 130	0.176	1.31	20	
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed:	05/28/2013 1621h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Sodium	489	mg/L	E200.7	5.14	100	10.00	471	179	70 - 130	505	3.21	20	2
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed:	05/29/2013 0940h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/21/2013 0940h										
Calcium	147	mg/L	E200.7	2.27	100	10.00	119	279	70 - 130	162	9.40	20	2



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> 1305419-001EMSD	Date Analyzed:		05/22/2013 1533h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:		05/21/2013 0940h										
Arsenic	0.207	mg/L	E200.8	0.00118	0.00200	0.2000	0	103	75 - 125	0.206	0.185	20	
Beryllium	0.224	mg/L	E200.8	0.0000698	0.00200	0.2000	0	112	75 - 125	0.197	12.6	20	
Cadmium	0.228	mg/L	E200.8	0.0000726	0.000500	0.2000	0	114	75 - 125	0.2	13.2	20	
Chromium	0.199	mg/L	E200.8	0.000938	0.00200	0.2000	0	99.5	75 - 125	0.194	2.59	20	
Cobalt	0.196	mg/L	E200.8	0.00364	0.00400	0.2000	0	98.1	75 - 125	0.193	1.53	20	
Copper	0.197	mg/L	E200.8	0.00152	0.00200	0.2000	0	98.6	75 - 125	0.193	2.17	20	
Iron	1.04	mg/L	E200.8	0.0472	0.100	1.000	0.0651	97.8	75 - 125	1.03	1.58	20	
Manganese	0.477	mg/L	E200.8	0.00166	0.00200	0.2000	0.29	93.8	75 - 125	0.483	1.22	20	
Molybdenum	0.227	mg/L	E200.8	0.000496	0.00200	0.2000	0.00168	113	75 - 125	0.2	12.8	20	
Nickel	0.195	mg/L	E200.8	0.000898	0.00200	0.2000	0	97.3	75 - 125	0.194	0.282	20	
Selenium	0.196	mg/L	E200.8	0.000686	0.00200	0.2000	0	98.1	75 - 125	0.199	1.38	20	
Silver	0.216	mg/L	E200.8	0.000101	0.00200	0.2000	0	108	75 - 125	0.189	13.6	20	
Uranium	0.210	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00134	104	75 - 125	0.184	13.2	20	
Zinc	1.00	mg/L	E200.8	0.00368	0.00500	1.000	0	100	75 - 125	1.01	0.915	20	

<b>Lab Sample ID:</b> 1305419-010EMSD	Date Analyzed:		05/22/2013 1648h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:		05/21/2013 0940h										
Arsenic	0.214	mg/L	E200.8	0.00118	0.00200	0.2000	0	107	75 - 125	0.21	2.14	20	
Beryllium	0.204	mg/L	E200.8	0.0000698	0.00200	0.2000	0.000088	102	75 - 125	0.207	1.20	20	
Cadmium	0.197	mg/L	E200.8	0.0000726	0.000500	0.2000	0.000738	98.4	75 - 125	0.202	2.10	20	
Chromium	0.204	mg/L	E200.8	0.000938	0.00200	0.2000	0	102	75 - 125	0.201	1.21	20	
Cobalt	0.234	mg/L	E200.8	0.00364	0.00400	0.2000	0.0339	99.9	75 - 125	0.237	1.55	20	
Copper	0.203	mg/L	E200.8	0.00152	0.00200	0.2000	0.00216	100	75 - 125	0.203	0.0829	20	
Molybdenum	0.212	mg/L	E200.8	0.000496	0.00200	0.2000	0.0103	101	75 - 125	0.215	1.65	20	
Nickel	0.239	mg/L	E200.8	0.000898	0.00200	0.2000	0.0394	100	75 - 125	0.243	1.38	20	
Selenium	0.206	mg/L	E200.8	0.000686	0.00200	0.2000	0	103	75 - 125	0.205	0.538	20	
Silver	0.187	mg/L	E200.8	0.000101	0.00200	0.2000	0	93.6	75 - 125	0.189	0.925	20	
Uranium	0.189	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00158	93.8	75 - 125	0.19	0.545	20	
Zinc	1.07	mg/L	E200.8	0.00368	0.00500	1.000	0.0616	101	75 - 125	1.1	2.70	20	



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed: 05/22/2013 1900h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Iron	4.90	mg/L	E200.8	0.236	0.500	1.000	4.07	82.4	75 - 125	5.19	5.81	20	
Manganese	5.14	mg/L	E200.8	0.00832	0.0100	0.2000	5.11	15.6	75 - 125	5.5	6.73	20	2
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed: 05/22/2013 2047h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Lead	0.188	mg/L	E200.8	0.00126	0.00200	0.2000	0	94.1	75 - 125	0.194	2.93	20	
Thallium	0.177	mg/L	E200.8	0.000222	0.00200	0.2000	0.000061	88.4	75 - 125	0.179	1.07	20	
Tin	0.977	mg/L	E200.8	0.000620	0.00200	1.000	0	97.7	75 - 125	0.991	1.40	20	
<b>Lab Sample ID: 1305419-010EMSD</b>		Date Analyzed: 05/22/2013 2310h											
Test Code: 200.8-DIS		Date Prepared: 05/21/2013 0940h											
Lead	0.193	mg/L	E200.8	0.00126	0.00200	0.2000	0	96.7	75 - 125	0.197	1.69	20	
Thallium	0.185	mg/L	E200.8	0.000222	0.00200	0.2000	0	92.7	75 - 125	0.187	1.06	20	
Tin	0.991	mg/L	E200.8	0.000620	0.00200	1.000	0	99.1	75 - 125	1.02	2.50	20	
<b>Lab Sample ID: 1305419-001EMSD</b>		Date Analyzed: 05/21/2013 0920h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 05/20/2013 1426h											
Mercury	0.00369	mg/L	E245.1	0.0000175	0.000150	0.003330	0	111	85 - 115	0.0035	5.25	20	

<sup>2</sup> - 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:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001CDUP</b>													
Date Analyzed: 05/17/2013 1500h													
<b>Test Code: TDS-W-2540C</b>													
Total Dissolved Solids	2,170	mg/L	SM2540C	8.00	20.0					2180	0.368	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
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**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-R54550</b> Date Analyzed: 05/20/2013 1327h													
Test Code: 300.0-W													
Chloride	4.64	mg/L	E300.0	0.0114	1.00	5.000	0	92.7	90 - 110				
Fluoride	5.06	mg/L	E300.0	0.0126	0.100	5.000	0	101	90 - 110				
Sulfate	5.15	mg/L	E300.0	0.177	1.00	5.000	0	103	90 - 110				
<b>Lab Sample ID: LCS-R54684</b> Date Analyzed: 05/23/2013 1323h													
Test Code: 300.0-W													
Chloride	4.60	mg/L	E300.0	0.0114	0.100	5.000	0	91.9	90 - 110				
<b>Lab Sample ID: LCS-R54519</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	52,000	mg/L	SM2320B	0.837	1.00	50,000	0	104	90 - 110				
<b>Lab Sample ID: LCS-25629</b> Date Analyzed: 05/23/2013 1930h													
Test Code: NH3-W-350.1      Date Prepared: 05/23/2013 1030h													
Ammonia (as N)	0.974	mg/L	E350.1	0.0277	0.0500	1.000	0	97.4	90 - 110				
<b>Lab Sample ID: LCS-R54753</b> Date Analyzed: 05/24/2013 1637h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00252	0.100	1.000	0	102	90 - 110				
<b>Lab Sample ID: LCS-R54506</b> Date Analyzed: 05/17/2013 1500h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	196	mg/L	SM2540C	4.00	10.0	205.0	0	95.6	80 - 120				



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**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R54550</b> Date Analyzed: 05/20/2013 1230h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Fluoride	< 0.100	mg/L	E300.0	0.0126	0.100								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
<b>Lab Sample ID: MB-R54684</b> Date Analyzed: 05/23/2013 1214h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
<b>Lab Sample ID: MB-R54519</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.837	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.837	1.00								
<b>Lab Sample ID: MB-25629</b> Date Analyzed: 05/23/2013 1929h													
Test Code: NH3-W-350.1      Date Prepared: 05/23/2013 1030h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
<b>Lab Sample ID: MB-R54753</b> Date Analyzed: 05/24/2013 1635h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
<b>Lab Sample ID: MB-R54506</b> Date Analyzed: 05/17/2013 1500h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								



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**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001BMS</b> Date Analyzed: 05/20/2013 1437h													
Test Code: 300.0-W													
Chloride	20,700	mg/L	E300.0	57.0	5,000	25,000	70.1	82.4	90 - 110				'
Fluoride	21,900	mg/L	E300.0	63.0	500	25,000	0	87.5	90 - 110				'
Sulfate	23,800	mg/L	E300.0	885	5,000	25,000	843	91.9	90 - 110				
<b>Lab Sample ID: 1305419-009BMS</b> Date Analyzed: 05/20/2013 2245h													
Test Code: 300.0-W													
Chloride	2,110	mg/L	E300.0	5.70	500	2,500	169	77.5	90 - 110				'
Fluoride	2,110	mg/L	E300.0	6.30	50.0	2,500	0.973	84.4	90 - 110				'
Sulfate	2,800	mg/L	E300.0	88.5	500	2,500	630	86.9	90 - 110				'
<b>Lab Sample ID: 1305419-007BMS</b> Date Analyzed: 05/23/2013 1410h													
Test Code: 300.0-W													
Chloride	23,200	mg/L	E300.0	57.0	5,000	25,000	127	92.3	90 - 110				
<b>Lab Sample ID: 1305419-001BMS</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	383	mg/L	SM2320B	0.837	1.00	50.00	333	100	80 - 120				
<b>Lab Sample ID: 1305419-011BMS</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	403	mg/L	SM2320B	4.53	10.0	50.00	352	102	80 - 120				
<b>Lab Sample ID: 1305419-001DMS</b> Date Analyzed: 05/23/2013 1933h													
Test Code: NH3-W-350.1      Date Prepared: 05/23/2013 1030h													
Ammonia (as N)	1.43	mg/L	E350.1	0.0277	0.0500	1.000	0.504	93.0	90 - 110				
<b>Lab Sample ID: 1305419-002DMS</b> Date Analyzed: 05/24/2013 1655h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.995	mg/L	E353.2	0.00252	0.100	1.000	0	99.5	90 - 110				

' - 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:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001BMSD</b> Date Analyzed: 05/20/2013 1500h													
Test Code: 300.0-W													
Chloride	19,800	mg/L	E300.0	57.0	5,000	25,000	70.1	78.8	90 - 110	20700	4.46	20	1
Fluoride	21,500	mg/L	E300.0	63.0	500	25,000	0	86.1	90 - 110	21900	1.63	20	1
Sulfate	23,200	mg/L	E300.0	885	5,000	25,000	843	89.4	90 - 110	23800	2.64	20	1
<b>Lab Sample ID: 1305419-009BMSD</b> Date Analyzed: 05/20/2013 2308h													
Test Code: 300.0-W													
Chloride	2,120	mg/L	E300.0	5.70	500	2,500	169	77.9	90 - 110	2110	0.414	20	1
Fluoride	2,080	mg/L	E300.0	6.30	50.0	2,500	0.973	83.2	90 - 110	2110	1.45	20	1
Sulfate	2,910	mg/L	E300.0	88.5	500	2,500	630	91.1	90 - 110	2800	3.67	20	
<b>Lab Sample ID: 1305419-007BMSD</b> Date Analyzed: 05/23/2013 1433h													
Test Code: 300.0-W													
Chloride	23,200	mg/L	E300.0	57.0	5,000	25,000	127	92.4	90 - 110	23200	0.157	20	
<b>Lab Sample ID: 1305419-001BMSD</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	383	mg/L	SM2320B	0.837	1.00	50.00	333	100	80 - 120	383	0	10	
<b>Lab Sample ID: 1305419-011BMSD</b> Date Analyzed: 05/20/2013 1042h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	404	mg/L	SM2320B	4.53	10.0	50.00	352	104	80 - 120	403	0.223	10	
<b>Lab Sample ID: 1305419-001DMSD</b> Date Analyzed: 05/23/2013 1934h													
Test Code: NH3-W-350.1      Date Prepared: 05/23/2013 1030h													
Ammonia (as N)	1.39	mg/L	E350.1	0.0277	0.0500	1.000	0.504	88.5	90 - 110	1.43	3.17	10	1
<b>Lab Sample ID: 1305419-002DMSD</b> Date Analyzed: 05/24/2013 1656h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00252	0.100	1.000	0	102	90 - 110	0.995	2.41	10	

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 051913A</b>		<b>Date Analyzed: 05/19/2013 1228h</b>											
<b>Test Code: 8260-W</b>													
Benzene	22.0	µg/L	SW8260C	0.149	2.00	20.00	0	110	62 - 127				
Chloroform	23.6	µg/L	SW8260C	0.277	2.00	20.00	0	118	67 - 132				
Methylene chloride	23.2	µg/L	SW8260C	0.155	2.00	20.00	0	116	32 - 185				
Naphthalene	17.0	µg/L	SW8260C	0.547	2.00	20.00	0	85.0	28 - 136				
Tetrahydrofuran	17.0	µg/L	SW8260C	0.874	2.00	20.00	0	85.2	43 - 146				
Toluene	23.2	µg/L	SW8260C	0.429	2.00	20.00	0	116	64 - 129				
Xylenes, Total	65.1	µg/L	SW8260C	0.870	2.00	60.00	0	108	52 - 134				
Surr: 1,2-Dichloroethane-d4	52.3	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.3	77 - 121				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	50.3	µg/L	SW8260C			50.00		101	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB VOC 051913A</b>		<b>Date Analyzed: 05/19/2013 1306h</b>											
<b>Test Code: 8260-W</b>													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	56.4	µg/L	SW8260C			50.00		113	76 - 138				
Surr: 4-Bromofluorobenzene	52.8	µg/L	SW8260C			50.00		106	77 - 121				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	67 - 128				
Surr: Toluene-d8	50.8	µg/L	SW8260C			50.00		102	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001AMS</b>		<b>Date Analyzed: 05/19/2013 1344h</b>											
<b>Test Code: 8260-W</b>													
Benzene	22.0	µg/L	SW8260C	0.149	2.00	20.00	0	110	66 - 145				
Chloroform	23.3	µg/L	SW8260C	0.277	2.00	20.00	0	117	50 - 146				
Methylene chloride	22.8	µg/L	SW8260C	0.155	2.00	20.00	0	114	30 - 192				
Naphthalene	15.9	µg/L	SW8260C	0.547	2.00	20.00	0	79.4	41 - 131				
Tetrahydrofuran	21.9	µg/L	SW8260C	0.874	2.00	20.00	0	110	43 - 146				
Toluene	23.1	µg/L	SW8260C	0.429	2.00	20.00	0	115	18 - 192				
Xylenes, Total	62.7	µg/L	SW8260C	0.870	2.00	60.00	0	105	42 - 167				
Surr: 1,2-Dichloroethane-d4	56.4	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	48.7	µg/L	SW8260C			50.00		97.3	80 - 128				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.4	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305419  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305419-001AMSD</b>		<b>Date Analyzed: 05/19/2013 1403h</b>											
<b>Test Code: 8260-W</b>													
Benzene	20.4	µg/L	SW8260C	0.149	2.00	20.00	0	102	66 - 145	22	7.74	25	
Chloroform	21.3	µg/L	SW8260C	0.277	2.00	20.00	0	106	50 - 146	23.3	9.01	25	
Methylene chloride	21.4	µg/L	SW8260C	0.155	2.00	20.00	0	107	30 - 192	22.8	6.51	25	
Naphthalene	14.9	µg/L	SW8260C	0.547	2.00	20.00	0	74.4	41 - 131	15.9	6.51	25	
Tetrahydrofuran	22.7	µg/L	SW8260C	0.874	2.00	20.00	0	114	43 - 146	21.9	3.54	25	
Toluene	21.2	µg/L	SW8260C	0.429	2.00	20.00	0	106	18 - 192	23.1	8.30	25	
Xylenes, Total	57.6	µg/L	SW8260C	0.870	2.00	60.00	0	96.0	42 - 167	62.7	8.51	25	
Surr: 1,2-Dichloroethane-d4	56.1	µg/L	SW8260C			50.00		112	72 - 151				
Surr: 4-Bromofluorobenzene	47.6	µg/L	SW8260C			50.00		95.2	80 - 128				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.0	77 - 129				

## WORK ORDER Summary

Work Order: **1305419** Page 1 of 8

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

Due Date: 5/28/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2013

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 & Summary (No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group.; No Hard Copies (UL) REPORTING NOTES: Turn off VOC MB without project specific DL's;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-001A	MW-05_05142013	5/14/2013 1620h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305419-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305419-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305419-001D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305419-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305419-002A	MW-11_05142013	5/14/2013 1240h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305419-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305419-002C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				

# WORK ORDER Summary

Work Order: **1305419** Page 2 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-002D	MW-11_05142013	5/14/2013 1240h	5/17/2013 0945h	NH3-W-350.1	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
<i>1 SEL Analytes: NH3N</i>								
NH3-W-PR				<input checked="" type="checkbox"/>		df - no2/no3 & nh3		
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305419-002E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305419-003A	MW-12_05152013	5/15/2013 0905h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305419-003B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305419-003C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305419-003D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305419-003E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1305419** Page 3 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-003E	MW-12_05152013	5/15/2013 0905h	5/17/2013 0945h	<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
1305419-004A	MW-14_05142013	5/14/2013 1345h	5/17/2013 0945h	<b>8260-W</b> <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305419-004B				<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				<b>ALK-W-2320B</b> <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305419-004C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305419-004D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305419-004E				<b>200.7-DIS</b> <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				<b>200.7-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>200.8-DIS</b> <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				<b>200.8-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>HG-DW-DIS-245.1</b> <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				<b>HG-DW-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305419-005A	MW-15_05152013	5/15/2013 0950h	5/17/2013 0945h	<b>8260-W</b> <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305419-005B				<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				<b>ALK-W-2320B</b> <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305419-005C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305419-005D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1305419** Page 4 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-005E	MW-15_05152013	5/15/2013 0950h	5/17/2013 0945h	200.7-DIS	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
1305419-006A	MW-25_05142013	5/14/2013 1055h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305419-006D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
<i>1 SEL Analytes: NO3NO2N</i>								
1305419-006E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
1305419-007A	MW-28_05152013	5/15/2013 1445h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>								
200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met					
HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met					
<i>1 SEL Analytes: HG</i>								
HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met					
IONBALANCE		<input checked="" type="checkbox"/>	df-met					
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>								
1305419-007B				8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
300.0-W		<input checked="" type="checkbox"/>	df - wc	1				
<i>3 SEL Analytes: CL F SO4</i>								



# WORK ORDER Summary

Work Order: **1305419** Page 6 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-008E	MW-30_05152013	5/15/2013 1340h	5/17/2013 0945h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305419-009A	MW-31_05132013	5/13/2013 1315h	5/17/2013 0945h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305419-009B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305419-009C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305419-009D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305419-009E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305419-010A	MW-32_05132013	5/13/2013 1255h	5/17/2013 0945h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305419-010B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305419-010C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305419-010D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1305419** Page 7 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1305419-010D	MW-32_05132013	5/13/2013 1255h	5/17/2013 0945h	NH3-W-PR	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1			
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				<i>1 SEL Analytes: NO3NO2N</i>							
1305419-010E				200.7-DIS		<input checked="" type="checkbox"/>	df-met				
				<i>5 SEL Analytes: CA MG K NA V</i>							
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				200.8-DIS		<input checked="" type="checkbox"/>	df-met				
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>							
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met				
				<i>1 SEL Analytes: HG</i>							
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>											
1305419-011A	MW-35_05132013	5/13/2013 1445h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>							
1305419-011B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1			
				<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc				
				<i>2 SEL Analytes: ALKB ALKC</i>							
1305419-011C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds				
				<i>1 SEL Analytes: TDS</i>							
1305419-011D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				<i>1 SEL Analytes: NH3N</i>							
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				<i>1 SEL Analytes: NO3NO2N</i>							
1305419-011E				200.7-DIS		<input checked="" type="checkbox"/>	df-met				
				<i>5 SEL Analytes: CA MG K NA V</i>							
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				200.8-DIS		<input checked="" type="checkbox"/>	df-met				
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>							
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met				
				<i>1 SEL Analytes: HG</i>							
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>											

# WORK ORDER Summary

Work Order: **1305419** Page 8 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305419-012A	MW-36_05142013	5/14/2013 0805h	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>								
1305419-012B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305419-012C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305419-012D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305419-012E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305419-013A	Trip Blank	5/13/2013	5/17/2013 0945h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				

# American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1305419

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**

Contact: **Garrin Palmer**  
 Phone: **(435) 678-2221**  
 Email: **gpalmer@energyfuels.com**

Page 1 of 1

QC Level: **3**

Project Name: **2nd Quarter Groundwater 2013**

PO#:

Sampler Name: Tanner Holliday

Turn Around Time  
**Standard**

Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	VOCs (8260C)	Fl, Cl, SO4 (4500E or 300)	TDS (2540C)	Carb/Bicarb (2320B)	Heavy Metals per S.O.W	Comments	Laboratory Use Only	
													1-6	7-12
1 MW-05_05142013	5/14/2013	1620	6	w	x	x	x	x	x	x	x		1. Shipped or hand delivered <input checked="" type="checkbox"/> Fed-X	
2 MW-11_05142013	5/14/2013	1240	6	w	x	x	x	x	x	x	x		2. Ambient or Collected <input checked="" type="checkbox"/>	
3 MW-12_05152013	5/15/2013	0905	6	w	x	x	x	x	x	x	x		3. Temperature: <u>3.0</u>	
4 MW-14_05142013	5/14/2013	1345	6	w	x	x	x	x	x	x	x		4. Received Broken/Leaking (Improperly Sealed) <input type="checkbox"/>	
5 MW-15_05152013	5/15/2013	0950	6	w	x	x	x	x	x	x	x		5. Properly Preserved <input checked="" type="checkbox"/>	
6 MW-25_05142013	5/14/2013	1055	6	w	x	x	x	x	x	x	x		6. Received Within Holding Times <input checked="" type="checkbox"/>	
7 MW-28_05152013	5/15/2013	1445	6	w	x	x	x	x	x	x	x		COC Tape Was:	
8 MW-30_05152013	5/15/2013	1340	6	w	x	x	x	x	x	x	x		1. Present on Outer Package <input checked="" type="checkbox"/>	
9 MW-31_05132013	5/13/2013	1315	6	w	x	x	x	x	x	x	x		2. Unbroken on Outer Package <input checked="" type="checkbox"/>	
10 MW-32_05132013	5/13/2013	1255	6	w	x	x	x	x	x	x	x		3. Present on Sample <input type="checkbox"/>	
11 MW-35_05132013	5/13/2013	1445	6	w	x	x	x	x	x	x	x		4. Unbroken on Sample <input type="checkbox"/>	
12 MW-36_05142013	5/14/2013	0805	6	w	x	x	x	x	x	x	x		Discrepancies Between Sample Labels and COC Record: <input checked="" type="checkbox"/>	
13 Trip Blank	5/13/2013						X							
14 Temp Blank	5/16/2013													

Special Instructions: **Email results to Tanner Holliday, Kethy Weinel, and David Turk**

Relinquished by: Signature <u>Tanner Holliday</u>	Date: <u>5/16/2013</u>	Received by: Signature <u>[Signature]</u>	Date: <u>5-17-13</u>
Print Name: <u>SA Tanner Holliday</u>	Time: <u>1100</u>	Print Name: <u>[Name]</u>	Time: <u>945</u>
Relinquished by: Signature	Date:	Received by: Signature <u>[Signature]</u>	Date:
Print Name:	Time:	Print Name: <u>[Name]</u>	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Table 3 – GEL Groundwater, Tailings Impoundment, and Seeps and Springs Sampling

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Heavy Metals</b>					
✓ Arsenic	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Beryllium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Cadmium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Chromium	E200.7 or E200.8	25 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Cobalt	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Copper	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Iron	E200.7 or E200.8	30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Lead	E200.7 or E200.8 <sup>** -RW 3/27/13</sup>	1.0 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Manganese	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Mercury	E 245.1 or E200.7 or E200.8	0.50 µg/L	28 days	HNO <sub>3</sub> to pH<2	None
✓ Molybdenum	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Nickel	E200.7 or E200.8	20 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Selenium	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Silver	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Thallium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Tin	E200.7 or E200.8	100 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Uranium	E200.7 or E200.8	0.30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Vanadium	E200.7 or E200.8	15 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Zinc	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Sodium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Potassium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Magnesium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
✓ Calcium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
<b>Radiologics</b>					
✓ Gross Alpha	E 200.8 or E900.1	1.0 pCi/L	6 months	HNO <sub>3</sub> to pH<2	None -RW 2/27/2013

Table 4 Fee Schedule

Analyte/ Group	Cost per Sample
Full Suite Metals	
Partial Suite Metals (cost per individual metal)	
Gross alpha	

\*\* - per email from Kathy Weinel 3/27/13 -RW

Run ION BALANCE when the full metals suite has been requested, per email from Kathy Weinel 3/27/13

**Ion Balance to include:**

- Total Anions, Measured
- Total Cations, Measured
- TDS Ratio, Measured/Calculated
- TDS, Calculated

-RW 3/27/13

Table 3 – AWAL Analyte List, Reporting Limits and Analytical Method Requirements

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Nutrients</b>					
X Ammonia (as N)	A4500-NH <sub>3</sub> G or E350.1	0.05 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
X Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
<b>Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment</b>					
Acetone	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Benzene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
2-Butanone (MEK)	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Naphthalene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Tetrahydrofuran	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Toluene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Xylenes (total)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>Others</b>					
X Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	≤ 6°C
X TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
X Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
X Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
X Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
X Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds - Chloroform Program</b>					
<del>Carbon Tetrachloride</del>	<del>SW8260B or SW8260C</del>	<del>1.0 µg/L</del>	<del>14 days</del>	<del>HCl to pH&lt;2</del>	<del>≤ 6°C</del>
<del>Chloroform</del>	<del>SW8260B or SW8260C</del>	<del>1.0 µg/L</del>	<del>14 days</del>	<del>HCl to pH&lt;2</del>	<del>≤ 6°C</del>
<del>Dichloromethane (Methylene Chloride)</del>	<del>SW8260B or SW8260C</del>	<del>1.0 µg/L</del>	<del>14 days</del>	<del>HCl to pH&lt;2</del>	<del>≤ 6°C</del>
<del>Chloromethane</del>	<del>SW8260B or SW8260C</del>	<del>1.0 µg/L</del>	<del>14 days</del>	<del>HCl to pH&lt;2</del>	<del>≤ 6°C</del>
<b>SVOCs - Tailings Impoundment Samples Only</b>					
<del>1,2,4-Trichlorobenzene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>1,2-Dichlorobenzene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>1,3-Dichlorobenzene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>1,4-Dichlorobenzene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>1-Methylnaphthalene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4,5-Trichlorophenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4,6-Trichlorophenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4-Dichlorophenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4-Dimethylphenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4-Dinitrophenol</del>	<del>SW8270D</del>	<del>&lt;20 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,4-Dinitrotoluene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2,6-Dinitrotoluene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2-Chloronaphthalene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2-Chlorophenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2-Methylnaphthalene</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2-Methylphenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>2-Nitrophenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>3&amp;4-Methylphenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>3,3'-Dichlorobenzidine</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>
<del>4,6-Dinitro-2-methylphenol</del>	<del>SW8270D</del>	<del>&lt;10 ug/L</del>	<del>7/40 days</del>	<del>None</del>	<del>≤ 6°C</del>

Sample Set: 1305419

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	Except														
			1	2	3	4	5	6	7	8	9	10	11	12			
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>		Yes														
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Cyanide	pH >12 NaOH																
Metals	pH <2 HNO <sub>3</sub>		Yes														
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		Yes														
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>																
O & G	pH <2 HCL																
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>																
TOX	pH <2 H <sub>2</sub> SO <sub>4</sub>																
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TPH	pH <2 HCL																

5/17/13

- 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



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191

TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2013

Dear Garrin Palmer:

Lab Set ID: 1305551

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 16 sample(s) on 5/24/2013 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
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web: [www.awal-labs.com](http://www.awal-labs.com)

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, 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.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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.

7/29/2013: This is a revision to a report originally issued 6/5/2013. Pages 25 through 39 have been revised. The analytical result for Total Dissolved Solids Ratio, Measured/Calculated has been revised.

8/2/2013: Pages 1-24 and 40-76 have been corrected.

Thank You,

Approved by:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2013.08.02 12:47:57 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551  
**Date Received:** 5/24/2013 1000h

**Contact:** Garrin Palmer

463 West 3600 South  
 Salt Lake City, UT 84115

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305551-001A	MW-01_05212013	5/21/2013 1030h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-001B	MW-01_05212013	5/21/2013 1030h	Aqueous	Anions, E300.0
1305551-001B	MW-01_05212013	5/21/2013 1030h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-001C	MW-01_05212013	5/21/2013 1030h	Aqueous	Total Dissolved Solids, A2540C
1305551-001D	MW-01_05212013	5/21/2013 1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-001D	MW-01_05212013	5/21/2013 1030h	Aqueous	Ammonia, Aqueous
1305551-001E	MW-01_05212013	5/21/2013 1030h	Aqueous	Mercury, Drinking Water Dissolved
1305551-001E	MW-01_05212013	5/21/2013 1030h	Aqueous	Ion Balance
1305551-001E	MW-01_05212013	5/21/2013 1030h	Aqueous	ICPMS Metals, Dissolved
1305551-001E	MW-01_05212013	5/21/2013 1030h	Aqueous	ICP Metals, Dissolved
1305551-002A	MW-02_05212013	5/21/2013 1430h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-002B	MW-02_05212013	5/21/2013 1430h	Aqueous	Anions, E300.0
1305551-002B	MW-02_05212013	5/21/2013 1430h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-002C	MW-02_05212013	5/21/2013 1430h	Aqueous	Total Dissolved Solids, A2540C
1305551-002D	MW-02_05212013	5/21/2013 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-002D	MW-02_05212013	5/21/2013 1430h	Aqueous	Ammonia, Aqueous
1305551-002E	MW-02_05212013	5/21/2013 1430h	Aqueous	Mercury, Drinking Water Dissolved
1305551-002E	MW-02_05212013	5/21/2013 1430h	Aqueous	Ion Balance
1305551-002E	MW-02_05212013	5/21/2013 1430h	Aqueous	ICPMS Metals, Dissolved
1305551-002E	MW-02_05212013	5/21/2013 1430h	Aqueous	ICP Metals, Dissolved
1305551-003A	MW-03_05222013	5/22/2013 1405h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-003B	MW-03_05222013	5/22/2013 1405h	Aqueous	Anions, E300.0
1305551-003B	MW-03_05222013	5/22/2013 1405h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-003C	MW-03_05222013	5/22/2013 1405h	Aqueous	Total Dissolved Solids, A2540C
1305551-003D	MW-03_05222013	5/22/2013 1405h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-003D	MW-03_05222013	5/22/2013 1405h	Aqueous	Ammonia, Aqueous
1305551-003E	MW-03_05222013	5/22/2013 1405h	Aqueous	ICPMS Metals, Dissolved
1305551-003E	MW-03_05222013	5/22/2013 1405h	Aqueous	Mercury, Drinking Water Dissolved
1305551-003E	MW-03_05222013	5/22/2013 1405h	Aqueous	ICP Metals, Dissolved



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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305551-003E	MW-03_05222013	5/22/2013 1405h	Aqueous	Ion Balance
1305551-004A	MW-03A_05232013	5/23/2013 1050h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-004B	MW-03A_05232013	5/23/2013 1050h	Aqueous	Anions, E300.0
1305551-004B	MW-03A_05232013	5/23/2013 1050h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-004C	MW-03A_05232013	5/23/2013 1050h	Aqueous	Total Dissolved Solids, A2540C
1305551-004D	MW-03A_05232013	5/23/2013 1050h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-004D	MW-03A_05232013	5/23/2013 1050h	Aqueous	Ammonia, Aqueous
1305551-004E	MW-03A_05232013	5/23/2013 1050h	Aqueous	ICP Metals, Dissolved
1305551-004E	MW-03A_05232013	5/23/2013 1050h	Aqueous	Ion Balance
1305551-004E	MW-03A_05232013	5/23/2013 1050h	Aqueous	ICPMS Metals, Dissolved
1305551-004E	MW-03A_05232013	5/23/2013 1050h	Aqueous	Mercury, Drinking Water Dissolved
1305551-005A	MW-17_05222013	5/22/2013 1050h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-005B	MW-17_05222013	5/22/2013 1050h	Aqueous	Anions, E300.0
1305551-005B	MW-17_05222013	5/22/2013 1050h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-005C	MW-17_05222013	5/22/2013 1050h	Aqueous	Total Dissolved Solids, A2540C
1305551-005D	MW-17_05222013	5/22/2013 1050h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-005D	MW-17_05222013	5/22/2013 1050h	Aqueous	Ammonia, Aqueous
1305551-005E	MW-17_05222013	5/22/2013 1050h	Aqueous	ICPMS Metals, Dissolved
1305551-005E	MW-17_05222013	5/22/2013 1050h	Aqueous	Mercury, Drinking Water Dissolved
1305551-005E	MW-17_05222013	5/22/2013 1050h	Aqueous	ICP Metals, Dissolved
1305551-005E	MW-17_05222013	5/22/2013 1050h	Aqueous	Ion Balance
1305551-006A	MW-18_05202013	5/20/2013 1320h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-006B	MW-18_05202013	5/20/2013 1320h	Aqueous	Anions, E300.0
1305551-006B	MW-18_05202013	5/20/2013 1320h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-006C	MW-18_05202013	5/20/2013 1320h	Aqueous	Total Dissolved Solids, A2540C
1305551-006D	MW-18_05202013	5/20/2013 1320h	Aqueous	Ammonia, Aqueous
1305551-006D	MW-18_05202013	5/20/2013 1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-006E	MW-18_05202013	5/20/2013 1320h	Aqueous	Ion Balance
1305551-006E	MW-18_05202013	5/20/2013 1320h	Aqueous	Mercury, Drinking Water Dissolved
1305551-006E	MW-18_05202013	5/20/2013 1320h	Aqueous	ICP Metals, Dissolved
1305551-006E	MW-18_05202013	5/20/2013 1320h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551  
**Date Received:** 5/24/2013 1000h

**Contact:** Garrin Palmer

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305551-007A	MW-19_05202013	5/20/2013 1600h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-007B	MW-19_05202013	5/20/2013 1600h	Aqueous	Anions, E300.0
1305551-007B	MW-19_05202013	5/20/2013 1600h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-007C	MW-19_05202013	5/20/2013 1600h	Aqueous	Total Dissolved Solids, A2540C
1305551-007D	MW-19_05202013	5/20/2013 1600h	Aqueous	Ammonia, Aqueous
1305551-007D	MW-19_05202013	5/20/2013 1600h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-007E	MW-19_05202013	5/20/2013 1600h	Aqueous	Ion Balance
1305551-007E	MW-19_05202013	5/20/2013 1600h	Aqueous	Mercury, Drinking Water Dissolved
1305551-007E	MW-19_05202013	5/20/2013 1600h	Aqueous	ICP Metals, Dissolved
1305551-007E	MW-19_05202013	5/20/2013 1600h	Aqueous	ICPMS Metals, Dissolved
1305551-008A	MW-22_05222013	5/22/2013 1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-008B	MW-22_05222013	5/22/2013 1315h	Aqueous	Anions, E300.0
1305551-008B	MW-22_05222013	5/22/2013 1315h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-008C	MW-22_05222013	5/22/2013 1315h	Aqueous	Total Dissolved Solids, A2540C
1305551-008D	MW-22_05222013	5/22/2013 1315h	Aqueous	Ammonia, Aqueous
1305551-008D	MW-22_05222013	5/22/2013 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-008E	MW-22_05222013	5/22/2013 1315h	Aqueous	ICP Metals, Dissolved
1305551-008E	MW-22_05222013	5/22/2013 1315h	Aqueous	ICPMS Metals, Dissolved
1305551-008E	MW-22_05222013	5/22/2013 1315h	Aqueous	Mercury, Drinking Water Dissolved
1305551-008E	MW-22_05222013	5/22/2013 1315h	Aqueous	Ion Balance
1305551-009A	MW-23_05232013	5/23/2013 0720h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-009B	MW-23_05232013	5/23/2013 0720h	Aqueous	Anions, E300.0
1305551-009B	MW-23_05232013	5/23/2013 0720h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-009C	MW-23_05232013	5/23/2013 0720h	Aqueous	Total Dissolved Solids, A2540C
1305551-009D	MW-23_05232013	5/23/2013 0720h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-009D	MW-23_05232013	5/23/2013 0720h	Aqueous	Ammonia, Aqueous
1305551-009E	MW-23_05232013	5/23/2013 0720h	Aqueous	ICP Metals, Dissolved
1305551-009E	MW-23_05232013	5/23/2013 0720h	Aqueous	ICPMS Metals, Dissolved
1305551-009E	MW-23_05232013	5/23/2013 0720h	Aqueous	Mercury, Drinking Water Dissolved
1305551-009E	MW-23_05232013	5/23/2013 0720h	Aqueous	Ion Balance



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305551-010A	MW-24_05222013	5/22/2013 0625h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-010B	MW-24_05222013	5/22/2013 0625h	Aqueous	Anions, E300.0
1305551-010B	MW-24_05222013	5/22/2013 0625h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-010C	MW-24_05222013	5/22/2013 0625h	Aqueous	Total Dissolved Solids, A2540C
1305551-010D	MW-24_05222013	5/22/2013 0625h	Aqueous	Ammonia, Aqueous
1305551-010D	MW-24_05222013	5/22/2013 0625h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-010E	MW-24_05222013	5/22/2013 0625h	Aqueous	ICP Metals, Dissolved
1305551-010E	MW-24_05222013	5/22/2013 0625h	Aqueous	ICPMS Metals, Dissolved
1305551-010E	MW-24_05222013	5/22/2013 0625h	Aqueous	Mercury, Drinking Water Dissolved
1305551-010E	MW-24_05222013	5/22/2013 0625h	Aqueous	Ion Balance
1305551-011A	MW-26_05232013	5/23/2013 0740h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-011B	MW-26_05232013	5/23/2013 0740h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-011B	MW-26_05232013	5/23/2013 0740h	Aqueous	Anions, E300.0
1305551-011C	MW-26_05232013	5/23/2013 0740h	Aqueous	Total Dissolved Solids, A2540C
1305551-011D	MW-26_05232013	5/23/2013 0740h	Aqueous	Ammonia, Aqueous
1305551-011D	MW-26_05232013	5/23/2013 0740h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-011E	MW-26_05232013	5/23/2013 0740h	Aqueous	ICP Metals, Dissolved
1305551-011E	MW-26_05232013	5/23/2013 0740h	Aqueous	ICPMS Metals, Dissolved
1305551-011E	MW-26_05232013	5/23/2013 0740h	Aqueous	Mercury, Drinking Water Dissolved
1305551-011E	MW-26_05232013	5/23/2013 0740h	Aqueous	Ion Balance
1305551-012A	MW-27_05212013	5/21/2013 1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-012B	MW-27_05212013	5/21/2013 1100h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-012B	MW-27_05212013	5/21/2013 1100h	Aqueous	Anions, E300.0
1305551-012C	MW-27_05212013	5/21/2013 1100h	Aqueous	Total Dissolved Solids, A2540C
1305551-012D	MW-27_05212013	5/21/2013 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-012D	MW-27_05212013	5/21/2013 1100h	Aqueous	Ammonia, Aqueous
1305551-012E	MW-27_05212013	5/21/2013 1100h	Aqueous	ICP Metals, Dissolved
1305551-012E	MW-27_05212013	5/21/2013 1100h	Aqueous	ICPMS Metals, Dissolved
1305551-012E	MW-27_05212013	5/21/2013 1100h	Aqueous	Mercury, Drinking Water Dissolved
1305551-012E	MW-27_05212013	5/21/2013 1100h	Aqueous	Ion Balance



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551  
**Date Received:** 5/24/2013 1000h

**Contact:** Garrin Palmer

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 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1305551-013A	MW-29_05232013	5/23/2013 0900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-013B	MW-29_05232013	5/23/2013 0900h	Aqueous	Anions, E300.0
1305551-013B	MW-29_05232013	5/23/2013 0900h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-013C	MW-29_05232013	5/23/2013 0900h	Aqueous	Total Dissolved Solids, A2540C
1305551-013D	MW-29_05232013	5/23/2013 0900h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-013D	MW-29_05232013	5/23/2013 0900h	Aqueous	Ammonia, Aqueous
1305551-013E	MW-29_05232013	5/23/2013 0900h	Aqueous	ICP Metals, Dissolved
1305551-013E	MW-29_05232013	5/23/2013 0900h	Aqueous	ICPMS Metals, Dissolved
1305551-013E	MW-29_05232013	5/23/2013 0900h	Aqueous	Mercury, Drinking Water Dissolved
1305551-013E	MW-29_05232013	5/23/2013 0900h	Aqueous	Ion Balance
1305551-014A	MW-65_05212013	5/21/2013 1430h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-014B	MW-65_05212013	5/21/2013 1430h	Aqueous	Anions, E300.0
1305551-014B	MW-65_05212013	5/21/2013 1430h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-014C	MW-65_05212013	5/21/2013 1430h	Aqueous	Total Dissolved Solids, A2540C
1305551-014D	MW-65_05212013	5/21/2013 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-014D	MW-65_05212013	5/21/2013 1430h	Aqueous	Ammonia, Aqueous
1305551-014E	MW-65_05212013	5/21/2013 1430h	Aqueous	ICP Metals, Dissolved
1305551-014E	MW-65_05212013	5/21/2013 1430h	Aqueous	ICPMS Metals, Dissolved
1305551-014E	MW-65_05212013	5/21/2013 1430h	Aqueous	Mercury, Drinking Water Dissolved
1305551-014E	MW-65_05212013	5/21/2013 1430h	Aqueous	Ion Balance
1305551-015A	MW-70_05232013	5/23/2013 0900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1305551-015B	MW-70_05232013	5/23/2013 0900h	Aqueous	Anions, E300.0
1305551-015B	MW-70_05232013	5/23/2013 0900h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1305551-015C	MW-70_05232013	5/23/2013 0900h	Aqueous	Total Dissolved Solids, A2540C
1305551-015D	MW-70_05232013	5/23/2013 0900h	Aqueous	Nitrite/Nitrate (as N), E353.2
1305551-015D	MW-70_05232013	5/23/2013 0900h	Aqueous	Ammonia, Aqueous
1305551-015E	MW-70_05232013	5/23/2013 0900h	Aqueous	ICP Metals, Dissolved
1305551-015E	MW-70_05232013	5/23/2013 0900h	Aqueous	ICPMS Metals, Dissolved
1305551-015E	MW-70_05232013	5/23/2013 0900h	Aqueous	Mercury, Drinking Water Dissolved
1305551-015E	MW-70_05232013	5/23/2013 0900h	Aqueous	Ion Balance



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551  
**Date Received:** 5/24/2013 1000h

**Contact:** Garrin Palmer

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>	<b>Matrix</b>	<b>Analysis</b>
1305551-016A	Trip Blank	5/20/2013	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## Sample Receipt Information:

**Date of Receipt:** 5/24/2013  
**Date(s) of Collection:** 5/20 through 5/23/2013  
**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, DUP:

**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
1305551-001E	Sodium	MS/MSD	High analyte concentrations
1305551-015E	Calcium	MS/MSD	High analyte concentrations
1305551-015E	Magnesium	MS/MSD	High analyte concentrations
1305551-015E	Sodium	MS/MSD	High analyte concentrations
1305551-015E	Manganese	MS/MSD	High analyte concentrations
1305551-001D	Ammonia	MS/MSD	Sample matrix interference
1305551-007D	Ammonia	MS/MSD	Sample matrix interference

**Duplicates (DUP):** The RPD on TDS for sample 1305551-001C was outside of control limits due to suspected sample non-homogeneity or matrix interference.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1305551

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 5/24/2013  
**Date(s) of Collection:** 5/20 through 5/23/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

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

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

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

**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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-25657</b>													
Date Analyzed:		06/04/2013 1002h											
Test Code:		200.7-DIS											
Date Prepared:		05/24/2013 1255h											
Calcium	9.11	mg/L	E200.7	0.0227	1.00	10.00	0	91.1	85 - 115				
Magnesium	9.36	mg/L	E200.7	0.102	1.00	10.00	0	93.6	85 - 115				
Potassium	9.71	mg/L	E200.7	0.203	1.00	10.00	0	97.1	85 - 115				
Sodium	9.67	mg/L	E200.7	0.0514	1.00	10.00	0	96.7	85 - 115				
Vanadium	0.198	mg/L	E200.7	0.00150	0.00500	0.2000	0	99.2	85 - 115				
<b>Lab Sample ID: LCS-25658</b>													
Date Analyzed:		05/30/2013 2058h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Cadmium	0.205	mg/L	E200.8	0.0000726	0.000500	0.2000	0	102	85 - 115				
Chromium	0.195	mg/L	E200.8	0.000938	0.00200	0.2000	0	97.6	85 - 115				
Lead	0.190	mg/L	E200.8	0.00126	0.00200	0.2000	0	94.9	85 - 115				
Silver	0.191	mg/L	E200.8	0.000101	0.00200	0.2000	0	95.5	85 - 115				
Thallium	0.181	mg/L	E200.8	0.000222	0.00200	0.2000	0	90.7	85 - 115				
Tin	0.966	mg/L	E200.8	0.000620	0.00200	1.000	0	96.6	85 - 115				
<b>Lab Sample ID: LCS-25658</b>													
Date Analyzed:		05/30/2013 2055h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Arsenic	0.200	mg/L	E200.8	0.00118	0.00200	0.2000	0	99.9	85 - 115				
Cobalt	0.197	mg/L	E200.8	0.00364	0.00400	0.2000	0	98.3	85 - 115				
Molybdenum	0.196	mg/L	E200.8	0.000496	0.00200	0.2000	0	97.8	85 - 115				
Nickel	0.195	mg/L	E200.8	0.000898	0.00200	0.2000	0	97.3	85 - 115				
Selenium	0.192	mg/L	E200.8	0.000686	0.00200	0.2000	0	96.1	85 - 115				
Uranium	0.181	mg/L	E200.8	0.0000598	0.00200	0.2000	0	90.3	85 - 115				
Zinc	0.976	mg/L	E200.8	0.00368	0.00500	1.000	0	97.6	85 - 115				
<b>Lab Sample ID: LCS-25658</b>													
Date Analyzed:		06/03/2013 2146h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Copper	0.190	mg/L	E200.8	0.00152	0.00200	0.2000	0	94.8	85 - 115				
Iron	0.968	mg/L	E200.8	0.0472	0.100	1.000	0	96.8	85 - 115				
Manganese	0.196	mg/L	E200.8	0.00166	0.00200	0.2000	0	97.8	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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-25658</b>		Date Analyzed: 06/04/2013 1929h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Beryllium	0.212	mg/L	E200.8	0.0000698	0.00200	0.2000	0	106	85 - 115				
<b>Lab Sample ID: LCS-25698</b>		Date Analyzed: 05/29/2013 0849h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 05/28/2013 1330h											
Mercury	0.00350	mg/L	E245.1	0.0000175	0.000150	0.003330	0	105	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-25657</b> Date Analyzed: 06/04/2013 0957h													
Test Code: 200.7-DIS      Date Prepared: 05/24/2013 1255h													
Calcium	< 1.00	mg/L	E200.7	0.0227	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.102	1.00								
Potassium	< 1.00	mg/L	E200.7	0.203	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0514	1.00								
Vanadium	< 0.0150	mg/L	E200.7	0.00150	0.0150								
<b>Lab Sample ID: MB-25658</b> Date Analyzed: 05/30/2013 2048h													
Test Code: 200.8-DIS      Date Prepared: 05/24/2013 1255h													
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Chromium	< 0.0250	mg/L	E200.8	0.000938	0.0250								
Silver	< 0.0100	mg/L	E200.8	0.000101	0.0100								
Tin	< 0.100	mg/L	E200.8	0.000620	0.100								
<b>Lab Sample ID: MB-25658</b> Date Analyzed: 05/31/2013 0215h													
Test Code: 200.8-DIS      Date Prepared: 05/24/2013 1255h													
Lead	< 0.00100	mg/L	E200.8	0.000316	0.00100								
Thallium	< 0.000500	mg/L	E200.8	0.0000555	0.000500								
<b>Lab Sample ID: MB-25658</b> Date Analyzed: 05/30/2013 2050h													
Test Code: 200.8-DIS      Date Prepared: 05/24/2013 1255h													
Arsenic	< 0.00500	mg/L	E200.8	0.00118	0.00500								
Cobalt	< 0.0100	mg/L	E200.8	0.00364	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000496	0.0100								
Nickel	< 0.0200	mg/L	E200.8	0.000898	0.0200								
Selenium	< 0.00500	mg/L	E200.8	0.000686	0.00500								
<b>Lab Sample ID: MB-25658</b> Date Analyzed: 05/30/2013 2329h													
Test Code: 200.8-DIS      Date Prepared: 05/24/2013 1255h													
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> MB-25658	Date Analyzed:	06/03/2013	2141h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/24/2013	1255h										
Copper	< 0.0100	mg/L	E200.8	0.00152	0.0100								
Manganese	< 0.0100	mg/L	E200.8	0.00166	0.0100								
<b>Lab Sample ID:</b> MB-25658	Date Analyzed:	06/04/2013	0053h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/24/2013	1255h										
Iron	< 0.0300	mg/L	E200.8	0.0118	0.0300								
<b>Lab Sample ID:</b> MB-25658	Date Analyzed:	06/04/2013	2022h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/24/2013	1255h										
Beryllium	< 0.000500	mg/L	E200.8	0.0000174	0.000500								
Zinc	< 0.0100	mg/L	E200.8	0.000920	0.0100								
<b>Lab Sample ID:</b> MB-25698	Date Analyzed:	05/29/2013	0843h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	05/28/2013	1330h										
Mercury	< 0.000150	mg/L	E245.1	0.0000175	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 06/04/2013 1022h											
Test Code: 200.7-DIS		Date Prepared: 05/24/2013 1255h											
Calcium	173	mg/L	E200.7	0.454	20.0	10.00	160	126	70 - 130				
Magnesium	71.3	mg/L	E200.7	2.04	20.0	10.00	60.3	110	70 - 130				
Sodium	173	mg/L	E200.7	1.03	20.0	10.00	160	135	70 - 130				2
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 1203h											
Test Code: 200.7-DIS		Date Prepared: 05/24/2013 1255h											
Calcium	438	mg/L	E200.7	1.14	50.0	10.00	450	-123	70 - 130				2
Magnesium	215	mg/L	E200.7	5.10	50.0	10.00	217	-20.2	70 - 130				2
Sodium	473	mg/L	E200.7	2.57	50.0	10.00	483	-96.7	70 - 130				2
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 06/04/2013 1329h											
Test Code: 200.7-DIS		Date Prepared: 05/24/2013 1255h											
Potassium	16.2	mg/L	E200.7	0.203	1.00	10.00	6.66	95.6	70 - 130				
Vanadium	0.194	mg/L	E200.7	0.00150	0.00500	0.2000	0	96.8	70 - 130				
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 1438h											
Test Code: 200.7-DIS		Date Prepared: 05/24/2013 1255h											
Vanadium	0.212	mg/L	E200.7	0.00150	0.00500	0.2000	0	106	70 - 130				
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 1543h											
Test Code: 200.7-DIS		Date Prepared: 05/24/2013 1255h											
Potassium	25.2	mg/L	E200.7	2.03	10.0	10.00	16.5	87.3	70 - 130				
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 05/30/2013 2209h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Cadmium	0.204	mg/L	E200.8	0.0000726	0.000500	0.2000	0	102	75 - 125				
Chromium	0.190	mg/L	E200.8	0.000938	0.00200	0.2000	0	95.1	75 - 125				
Lead	0.186	mg/L	E200.8	0.00126	0.00200	0.2000	0	92.9	75 - 125				
Silver	0.186	mg/L	E200.8	0.000101	0.00200	0.2000	0	92.8	75 - 125				
Thallium	0.176	mg/L	E200.8	0.000222	0.00200	0.2000	0	88.0	75 - 125				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMS</b>													
Date Analyzed:		05/30/2013 2209h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Tin	0.975	mg/L	E200.8	0.000620	0.00200	1.000	0	97.5	75 - 125				
<b>Lab Sample ID: 1305551-015EMS</b>													
Date Analyzed:		05/31/2013 0124h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Cadmium	0.200	mg/L	E200.8	0.0000726	0.000500	0.2000	0	100	75 - 125				
Chromium	0.216	mg/L	E200.8	0.000938	0.00200	0.2000	0	108	75 - 125				
Lead	0.185	mg/L	E200.8	0.00126	0.00200	0.2000	0	92.5	75 - 125				
Silver	0.182	mg/L	E200.8	0.000101	0.00200	0.2000	0	91.2	75 - 125				
Thallium	0.171	mg/L	E200.8	0.000222	0.00200	0.2000	0	85.3	75 - 125				
Tin	0.982	mg/L	E200.8	0.000620	0.00200	1.000	0	98.2	75 - 125				
<b>Lab Sample ID: 1305551-001EMS</b>													
Date Analyzed:		05/30/2013 2106h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Arsenic	0.204	mg/L	E200.8	0.00118	0.00200	0.2000	0	102	75 - 125				
Cobalt	0.198	mg/L	E200.8	0.00364	0.00400	0.2000	0	99.2	75 - 125				
Molybdenum	0.201	mg/L	E200.8	0.000496	0.00200	0.2000	0.00147	99.9	75 - 125				
Nickel	0.195	mg/L	E200.8	0.000898	0.00200	0.2000	0	97.6	75 - 125				
Selenium	0.198	mg/L	E200.8	0.000686	0.00200	0.2000	0	98.9	75 - 125				
Uranium	0.182	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000277	91.1	75 - 125				
Zinc	0.994	mg/L	E200.8	0.00368	0.00500	1.000	0	99.4	75 - 125				
<b>Lab Sample ID: 1305551-015EMS</b>													
Date Analyzed:		05/30/2013 2303h											
Test Code:		200.8-DIS											
Date Prepared:		05/24/2013 1255h											
Arsenic	0.204	mg/L	E200.8	0.00118	0.00200	0.2000	0.0042	99.7	75 - 125				
Cobalt	0.202	mg/L	E200.8	0.00364	0.00400	0.2000	0.00364	98.9	75 - 125				
Molybdenum	0.202	mg/L	E200.8	0.000496	0.00200	0.2000	0.00219	99.9	75 - 125				
Nickel	0.195	mg/L	E200.8	0.000898	0.00200	0.2000	0.00187	96.8	75 - 125				
Selenium	0.191	mg/L	E200.8	0.000686	0.00200	0.2000	0	95.4	75 - 125				
Uranium	0.197	mg/L	E200.8	0.0000598	0.00200	0.2000	0.012	92.7	75 - 125				
Zinc	0.952	mg/L	E200.8	0.00368	0.00500	1.000	0.158	79.4	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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 06/03/2013 2157h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Copper	0.183	mg/L	E200.8	0.00152	0.00200	0.2000	0	91.5	75 - 125				
Iron	1.10	mg/L	E200.8	0.0472	0.100	1.000	0.148	95.4	75 - 125				
Manganese	0.317	mg/L	E200.8	0.00166	0.00200	0.2000	0.127	95.1	75 - 125				
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 0010h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Copper	0.185	mg/L	E200.8	0.00152	0.00200	0.2000	0	92.3	75 - 125				
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 0026h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Iron	2.19	mg/L	E200.8	0.236	0.500	1.000	1.28	90.7	75 - 125				
Manganese	5.25	mg/L	E200.8	0.00832	0.0100	0.2000	5.26	-7.20	75 - 125				2
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 06/04/2013 1939h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Beryllium	0.211	mg/L	E200.8	0.0000698	0.00200	0.2000	0.000023	106	75 - 125				
<b>Lab Sample ID: 1305551-015EMS</b>		Date Analyzed: 06/04/2013 1955h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Beryllium	0.205	mg/L	E200.8	0.0000698	0.00200	0.2000	0	102	75 - 125				
<b>Lab Sample ID: 1305551-001EMS</b>		Date Analyzed: 05/29/2013 0855h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 05/28/2013 1330h											
Mercury	0.00346	mg/L	E245.1	0.0000175	0.000150	0.003330	0	104	85 - 115				

<sup>2</sup> - 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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed:	06/04/2013 1026h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/24/2013 1255h										
Calcium	172	mg/L	E200.7	0.454	20.0	10.00	160	120	70 - 130	173	0.376	20	
Magnesium	71.0	mg/L	E200.7	2.04	20.0	10.00	60.3	107	70 - 130	71.3	0.420	20	
Sodium	174	mg/L	E200.7	1.03	20.0	10.00	160	145	70 - 130	173	0.607	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed:	06/04/2013 1207h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/24/2013 1255h										
Calcium	442	mg/L	E200.7	1.14	50.0	10.00	450	-81.8	70 - 130	438	0.937	20	
Magnesium	216	mg/L	E200.7	5.10	50.0	10.00	217	-8.05	70 - 130	215	0.564	20	
Sodium	476	mg/L	E200.7	2.57	50.0	10.00	483	-63.8	70 - 130	473	0.692	20	
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed:	06/04/2013 1333h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/24/2013 1255h										
Potassium	16.0	mg/L	E200.7	0.203	1.00	10.00	6.66	93.7	70 - 130	16.2	1.20	20	
Vanadium	0.191	mg/L	E200.7	0.00150	0.00500	0.2000	0	95.6	70 - 130	0.194	1.32	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed:	06/04/2013 1442h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/24/2013 1255h										
Vanadium	0.191	mg/L	E200.7	0.00150	0.00500	0.2000	0	95.5	70 - 130	0.173	9.74	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed:	06/04/2013 1547h										
<b>Test Code: 200.7-DIS</b>		Date Prepared:	05/24/2013 1255h										
Potassium	25.8	mg/L	E200.7	2.03	10.0	10.00	16.5	93.4	70 - 130	25.2	2.41	20	
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed:	05/30/2013 2219h										
<b>Test Code: 200.8-DIS</b>		Date Prepared:	05/24/2013 1255h										
Cadmium	0.200	mg/L	E200.8	0.0000726	0.000500	0.2000	0	99.9	75 - 125	0.204	2.15	20	
Chromium	0.190	mg/L	E200.8	0.000938	0.00200	0.2000	0	94.9	75 - 125	0.19	0.165	20	
Lead	0.182	mg/L	E200.8	0.00126	0.00200	0.2000	0	90.9	75 - 125	0.186	2.19	20	
Silver	0.182	mg/L	E200.8	0.000101	0.00200	0.2000	0	90.9	75 - 125	0.186	2.04	20	
Thallium	0.171	mg/L	E200.8	0.000222	0.00200	0.2000	0	85.4	75 - 125	0.176	3.03	20	



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed: 05/30/2013 2219h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Tin	0.951	mg/L	E200.8	0.000620	0.00200	1.000	0	95.1	75 - 125	0.975	2.51	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed: 05/31/2013 0204h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Cadmium	0.200	mg/L	E200.8	0.0000726	0.000500	0.2000	0	100	75 - 125	0.2	0.118	20	
Chromium	0.216	mg/L	E200.8	0.000938	0.00200	0.2000	0	108	75 - 125	0.216	0.0699	20	
Lead	0.187	mg/L	E200.8	0.00126	0.00200	0.2000	0	93.5	75 - 125	0.185	1.13	20	
Silver	0.182	mg/L	E200.8	0.000101	0.00200	0.2000	0	90.8	75 - 125	0.182	0.462	20	
Thallium	0.171	mg/L	E200.8	0.000222	0.00200	0.2000	0	85.7	75 - 125	0.171	0.367	20	
Tin	0.977	mg/L	E200.8	0.000620	0.00200	1.000	0	97.7	75 - 125	0.982	0.568	20	
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed: 05/30/2013 2111h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Arsenic	0.200	mg/L	E200.8	0.00118	0.00200	0.2000	0	99.8	75 - 125	0.2	0	20	
Cobalt	0.195	mg/L	E200.8	0.00364	0.00400	0.2000	0	97.4	75 - 125	0.195	0	20	
Molybdenum	0.202	mg/L	E200.8	0.000496	0.00200	0.2000	0.00147	100	75 - 125	0.202	0	20	
Nickel	0.192	mg/L	E200.8	0.000898	0.00200	0.2000	0	96.1	75 - 125	0.192	0	20	
Selenium	0.193	mg/L	E200.8	0.000686	0.00200	0.2000	0	96.6	75 - 125	0.193	0	20	
Uranium	0.178	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000277	88.6	75 - 125	0.178	0	20	
Zinc	0.957	mg/L	E200.8	0.00368	0.00500	1.000	0	95.7	75 - 125	0.957	0	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed: 05/30/2013 2308h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Arsenic	0.204	mg/L	E200.8	0.00118	0.00200	0.2000	0.0042	99.9	75 - 125	0.204	0.182	20	
Cobalt	0.204	mg/L	E200.8	0.00364	0.00400	0.2000	0.00364	100	75 - 125	0.202	1.28	20	
Molybdenum	0.200	mg/L	E200.8	0.000496	0.00200	0.2000	0.00219	98.7	75 - 125	0.202	1.20	20	
Nickel	0.200	mg/L	E200.8	0.000898	0.00200	0.2000	0.00187	98.8	75 - 125	0.195	2.05	20	
Selenium	0.188	mg/L	E200.8	0.000686	0.00200	0.2000	0	93.9	75 - 125	0.191	1.61	20	
Uranium	0.197	mg/L	E200.8	0.0000598	0.00200	0.2000	0.012	92.3	75 - 125	0.197	0.361	20	
Zinc	0.967	mg/L	E200.8	0.00368	0.00500	1.000	0.158	80.9	75 - 125	0.952	1.58	20	

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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed: 06/03/2013 2202h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Copper	0.185	mg/L	E200.8	0.00152	0.00200	0.2000	0	92.3	75 - 125	0.183	0.869	20	
Iron	1.09	mg/L	E200.8	0.0472	0.100	1.000	0.148	94.0	75 - 125	1.1	1.29	20	
Manganese	0.318	mg/L	E200.8	0.00166	0.00200	0.2000	0.127	95.2	75 - 125	0.317	0.0696	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed: 06/04/2013 0015h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Copper	0.183	mg/L	E200.8	0.00152	0.00200	0.2000	0	91.4	75 - 125	0.185	0.996	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed: 06/04/2013 0032h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Iron	2.25	mg/L	E200.8	0.236	0.500	1.000	1.28	96.2	75 - 125	2.19	2.47	20	
Manganese	5.41	mg/L	E200.8	0.00832	0.0100	0.2000	5.26	72.4	75 - 125	5.25	2.99	20	<sup>2</sup>
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed: 06/04/2013 1945h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Beryllium	0.208	mg/L	E200.8	0.0000698	0.00200	0.2000	0.000023	104	75 - 125	0.211	1.45	20	
<b>Lab Sample ID: 1305551-015EMSD</b>		Date Analyzed: 06/04/2013 2001h											
Test Code: 200.8-DIS		Date Prepared: 05/24/2013 1255h											
Beryllium	0.206	mg/L	E200.8	0.0000698	0.00200	0.2000	0	103	75 - 125	0.206	0	20	
<b>Lab Sample ID: 1305551-001EMSD</b>		Date Analyzed: 05/29/2013 0857h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 05/28/2013 1330h											
Mercury	0.00346	mg/L	E245.1	0.0000175	0.000150	0.003330	0	104	85 - 115	0.00346	0.173	20	

<sup>2</sup> - 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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> 1305551-001CDUP	Date Analyzed: 05/25/2013 1300h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	1,350	mg/L	SM2540C	8.00	20.0					1420	5.20	5	@

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-R54781</b> Date Analyzed: 05/24/2013 1733h													
Test Code: 300.0-W													
Chloride	4.62	mg/L	E300.0	0.0114	1.00	5.000	0	92.4	90 - 110				
Fluoride	5.14	mg/L	E300.0	0.0126	0.100	5.000	0	103	90 - 110				
Sulfate	5.29	mg/L	E300.0	0.177	1.00	5.000	0	106	90 - 110				
<b>Lab Sample ID: LCS-R54788</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	52,900	mg/L	SM2320B	4.53	10.0	50,000	0	106	90 - 110				
<b>Lab Sample ID: LCS-25806</b> Date Analyzed: 06/03/2013 2049h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	0.931	mg/L	E350.1	0.0277	0.0500	1.000	0	93.1	90 - 110				
<b>Lab Sample ID: LCS-R55087</b> Date Analyzed: 06/03/2013 1824h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00252	0.100	1.000	0	110	90 - 110				
<b>Lab Sample ID: LCS-R54793</b> Date Analyzed: 05/25/2013 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	198	mg/L	SM2540C	4.00	10.0	205.0	0	96.6	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R54781</b> Date Analyzed: 05/24/2013 1710h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Fluoride	< 0.100	mg/L	E300.0	0.0126	0.100								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
<b>Lab Sample ID: MB-R54788</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	4.53	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	4.53	1.00								
<b>Lab Sample ID: MB-25806</b> Date Analyzed: 06/03/2013 2048h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
<b>Lab Sample ID: MB-R55087</b> Date Analyzed: 06/03/2013 1822h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
<b>Lab Sample ID: MB-R54793</b> Date Analyzed: 05/25/2013 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								



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## QC SUMMARY REPORT

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**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001BMS</b> Date Analyzed: 05/24/2013 1843h													
Test Code: 300.0-W													
Chloride	4,580	mg/L	E300.0	11.4	1,000	5,000	20.2	91.1	90 - 110				
Fluoride	5,010	mg/L	E300.0	12.6	100	5,000	0	100	90 - 110				
Sulfate	6,240	mg/L	E300.0	177	1,000	5,000	839	108	90 - 110				
<b>Lab Sample ID: 1305551-010BMS</b> Date Analyzed: 05/25/2013 0314h													
Test Code: 300.0-W													
Chloride	22,800	mg/L	E300.0	57.0	5,000	25,000	54.1	91.2	90 - 110				
Fluoride	25,900	mg/L	E300.0	63.0	500	25,000	0	104	90 - 110				
Sulfate	29,100	mg/L	E300.0	885	5,000	25,000	2070	108	90 - 110				
<b>Lab Sample ID: 1305551-001BMS</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	297	mg/L	SM2320B	4.53	10.0	50.00	246	102	80 - 120				
<b>Lab Sample ID: 1305551-011BMS</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	391	mg/L	SM2320B	4.53	10.0	50.00	340	102	80 - 120				
<b>Lab Sample ID: 1305551-001DMS</b> Date Analyzed: 06/03/2013 2052h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	0.900	mg/L	E350.1	0.0277	0.0500	1.000	0.0396	86.1	90 - 110				1
<b>Lab Sample ID: 1305551-007DMS</b> Date Analyzed: 06/03/2013 2106h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	0.880	mg/L	E350.1	0.0277	0.0500	1.000	0	88.0	90 - 110				1
<b>Lab Sample ID: 1305551-003DMS</b> Date Analyzed: 06/03/2013 1833h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.44	mg/L	E353.2	0.00252	0.100	1.000	0.457	98.4	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:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-001BMSD</b> Date Analyzed: 05/24/2013 1906h													
Test Code: 300.0-W													
Chloride	4,720	mg/L	E300.0	11.4	1,000	5,000	20.2	94.0	90 - 110	4580	3.15	20	
Fluoride	5,170	mg/L	E300.0	12.6	100	5,000	0	103	90 - 110	5010	3.22	20	
Sulfate	6,120	mg/L	E300.0	177	1,000	5,000	839	106	90 - 110	6240	1.90	20	
<b>Lab Sample ID: 1305551-010BMSD</b> Date Analyzed: 05/25/2013 0338h													
Test Code: 300.0-W													
Chloride	23,800	mg/L	E300.0	57.0	5,000	25,000	54.1	94.9	90 - 110	22800	4.01	20	
Fluoride	26,700	mg/L	E300.0	63.0	500	25,000	0	107	90 - 110	25900	3.00	20	
Sulfate	28,900	mg/L	E300.0	885	5,000	25,000	2070	107	90 - 110	29100	0.576	20	
<b>Lab Sample ID: 1305551-001BMSD</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	298	mg/L	SM2320B	4.53	10.0	50.00	246	104	80 - 120	297	0.336	10	
<b>Lab Sample ID: 1305551-011BMSD</b> Date Analyzed: 05/28/2013 1036h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	392	mg/L	SM2320B	4.53	10.0	50.00	340	104	80 - 120	391	0.255	10	
<b>Lab Sample ID: 1305551-001DMSD</b> Date Analyzed: 06/03/2013 2053h													
Test Code: NH3-W-350.1 Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	0.899	mg/L	E350.1	0.0277	0.0500	1.000	0.0396	85.9	90 - 110	0.9	0.167	10	†
<b>Lab Sample ID: 1305551-007DMSD</b> Date Analyzed: 06/03/2013 2107h													
Test Code: NH3-W-350.1 Date Prepared: 06/03/2013 1300h													
Ammonia (as N)	0.861	mg/L	E350.1	0.0277	0.0500	1.000	0	86.1	90 - 110	0.88	2.17	10	†
<b>Lab Sample ID: 1305551-003DMSD</b> Date Analyzed: 06/03/2013 1835h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.48	mg/L	E353.2	0.00252	0.100	1.000	0.457	102	90 - 110	1.44	2.53	10	

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 052813A</b> Date Analyzed: 05/28/2013 1156h													
Test Code: 8260-W													
Benzene	16.7	µg/L	SW8260C	0.149	2.00	20.00	0	83.6	62 - 127				
Chloroform	18.8	µg/L	SW8260C	0.277	2.00	20.00	0	94.0	67 - 132				
Methylene chloride	18.1	µg/L	SW8260C	0.155	2.00	20.00	0	90.4	32 - 185				
Naphthalene	17.1	µg/L	SW8260C	0.547	2.00	20.00	0	85.4	28 - 136				
Tetrahydrofuran	11.3	µg/L	SW8260C	0.874	2.00	20.00	0	56.5	43 - 146				
Toluene	21.5	µg/L	SW8260C	0.429	2.00	20.00	0	108	64 - 129				
Xylenes, Total	60.6	µg/L	SW8260C	0.870	2.00	60.00	0	101	52 - 134				
Surr: 1,2-Dichloroethane-d4	45.6	µg/L	SW8260C			50.00		91.3	76 - 138				
Surr: 4-Bromofluorobenzene	51.8	µg/L	SW8260C			50.00		104	77 - 121				
Surr: Dibromofluoromethane	45.2	µg/L	SW8260C			50.00		90.3	67 - 128				
Surr: Toluene-d8	52.7	µg/L	SW8260C			50.00		105	81 - 135				
<b>Lab Sample ID: LCS VOC 052913A</b> Date Analyzed: 05/29/2013 1101h													
Test Code: 8260-W													
Benzene	17.1	µg/L	SW8260C	0.149	2.00	20.00	0	85.4	62 - 127				
Chloroform	18.8	µg/L	SW8260C	0.277	2.00	20.00	0	94.2	67 - 132				
Methylene chloride	19.0	µg/L	SW8260C	0.155	2.00	20.00	0	95.0	32 - 185				
Naphthalene	16.2	µg/L	SW8260C	0.547	2.00	20.00	0	81.2	28 - 136				
Tetrahydrofuran	11.9	µg/L	SW8260C	0.874	2.00	20.00	0	59.6	43 - 146				
Toluene	22.1	µg/L	SW8260C	0.429	2.00	20.00	0	110	64 - 129				
Xylenes, Total	61.9	µg/L	SW8260C	0.870	2.00	60.00	0	103	52 - 134				
Surr: 1,2-Dichloroethane-d4	45.2	µg/L	SW8260C			50.00		90.5	76 - 138				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260C			50.00		101	77 - 121				
Surr: Dibromofluoromethane	44.7	µg/L	SW8260C			50.00		89.5	67 - 128				
Surr: Toluene-d8	52.0	µg/L	SW8260C			50.00		104	81 - 135				
<b>Lab Sample ID: LCS VOC 052413B</b> Date Analyzed: 05/24/2013 1846h													
Test Code: 8260-W													
Benzene	19.2	µg/L	SW8260C	0.149	2.00	20.00	0	96.0	62 - 127				
Chloroform	19.4	µg/L	SW8260C	0.277	2.00	20.00	0	96.9	67 - 132				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 052413B</b>		<b>Date Analyzed: 05/24/2013 1846h</b>											
<b>Test Code: 8260-W</b>													
Methylene chloride	18.5	µg/L	SW8260C	0.155	2.00	20.00	0	92.6	32 - 185				
Naphthalene	18.2	µg/L	SW8260C	0.547	2.00	20.00	0	91.1	28 - 136				
Tetrahydrofuran	16.9	µg/L	SW8260C	0.874	2.00	20.00	0	84.6	43 - 146				
Toluene	20.5	µg/L	SW8260C	0.429	2.00	20.00	0	102	64 - 129				
Xylenes, Total	63.9	µg/L	SW8260C	0.870	2.00	60.00	0	107	52 - 134				
Surr: 1,2-Dichloroethane-d4	49.5	µg/L	SW8260C			50.00		98.9	76 - 138				
Surr: 4-Bromofluorobenzene	51.4	µg/L	SW8260C			50.00		103	77 - 121				
Surr: Dibromofluoromethane	50.1	µg/L	SW8260C			50.00		100	67 - 128				
Surr: Toluene-d8	50.9	µg/L	SW8260C			50.00		102	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB VOC 052813A</b>													
Date Analyzed:		05/28/2013 1234h											
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	48.5	µg/L	SW8260C			50.00		97.0	76 - 138				
Surr: 4-Bromofluorobenzene	55.4	µg/L	SW8260C			50.00		111	77 - 121				
Surr: Dibromofluoromethane	46.0	µg/L	SW8260C			50.00		92.0	67 - 128				
Surr: Toluene-d8	53.7	µg/L	SW8260C			50.00		107	81 - 135				

<b>Lab Sample ID: MB VOC 052913A</b>													
Date Analyzed:		05/29/2013 1139h											
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB VOC 052913A</b>		Date Analyzed: 05/29/2013 1139h											
Test Code: 8260-W													
Surr: 1,2-Dichloroethane-d4	47.3	µg/L	SW8260C			50.00		94.7	76 - 138				
Surr: 4-Bromofluorobenzene	53.6	µg/L	SW8260C			50.00		107	77 - 121				
Surr: Dibromofluoromethane	45.4	µg/L	SW8260C			50.00		90.8	67 - 128				
Surr: Toluene-d8	52.0	µg/L	SW8260C			50.00		104	81 - 135				
<b>Lab Sample ID: MB VOC 052413B</b>		Date Analyzed: 05/24/2013 1932h											
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	51.0	µg/L	SW8260C			50.00		102	76 - 138				
Surr: 4-Bromofluorobenzene	50.8	µg/L	SW8260C			50.00		102	77 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	50.9	µg/L	SW8260C			50.00		102	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-011AMS</b>		Date Analyzed: 05/29/2013 1217h											
Test Code: 8260-W													
Benzene	310	µg/L	SW8260C	2.98	40.0	400.0	0	77.5	66 - 145				
Chloroform	1,520	µg/L	SW8260C	5.54	40.0	400.0	1210	76.2	50 - 146				
Methylene chloride	316	µg/L	SW8260C	3.10	40.0	400.0	0	79.0	30 - 192				
Naphthalene	299	µg/L	SW8260C	10.9	40.0	400.0	0	74.7	41 - 131				
Tetrahydrofuran	286	µg/L	SW8260C	17.5	40.0	400.0	0	71.5	43 - 146				
Toluene	401	µg/L	SW8260C	8.58	40.0	400.0	0	100	18 - 192				
Xylenes, Total	1,110	µg/L	SW8260C	17.4	40.0	1,200	0	92.6	42 - 167				
Surr: 1,2-Dichloroethane-d4	941	µg/L	SW8260C			1,000		94.1	72 - 151				
Surr: 4-Bromofluorobenzene	990	µg/L	SW8260C			1,000		99.0	80 - 128				
Surr: Dibromofluoromethane	918	µg/L	SW8260C			1,000		91.8	80 - 124				
Surr: Toluene-d8	1,050	µg/L	SW8260C			1,000		105	77 - 129				
<b>Lab Sample ID: 1305551-001AMS</b>		Date Analyzed: 05/24/2013 2017h											
Test Code: 8260-W													
Benzene	15.8	µg/L	SW8260C	0.149	2.00	20.00	0	78.9	66 - 145				
Chloroform	15.0	µg/L	SW8260C	0.277	2.00	20.00	0	75.2	50 - 146				
Methylene chloride	15.3	µg/L	SW8260C	0.155	2.00	20.00	0	76.5	30 - 192				
Naphthalene	16.2	µg/L	SW8260C	0.547	2.00	20.00	0	80.8	41 - 131				
Tetrahydrofuran	16.3	µg/L	SW8260C	0.874	2.00	20.00	3.26	65.2	43 - 146				
Toluene	16.4	µg/L	SW8260C	0.429	2.00	20.00	0	81.8	18 - 192				
Xylenes, Total	48.9	µg/L	SW8260C	0.870	2.00	60.00	0	81.5	42 - 167				
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	51.2	µg/L	SW8260C			50.00		102	80 - 128				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		100	80 - 124				
Surr: Toluene-d8	50.7	µg/L	SW8260C			50.00		101	77 - 129				



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## QC SUMMARY REPORT

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**Lab Set ID:** 1305551  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1305551-011AMSD</b> Date Analyzed: 05/29/2013 1236h													
Test Code: 8260-W													
Benzene	299	µg/L	SW8260C	2.98	40.0	400.0	0	74.9	66 - 145	310	3.48	25	
Chloroform	1,460	µg/L	SW8260C	5.54	40.0	400.0	1210	62.3	50 - 146	1520	3.75	25	
Methylene chloride	323	µg/L	SW8260C	3.10	40.0	400.0	0	80.7	30 - 192	316	2.07	25	
Naphthalene	300	µg/L	SW8260C	10.9	40.0	400.0	0	75.0	41 - 131	299	0.467	25	
Tetrahydrofuran	298	µg/L	SW8260C	17.5	40.0	400.0	0	74.6	43 - 146	286	4.25	25	
Toluene	383	µg/L	SW8260C	8.58	40.0	400.0	0	95.9	18 - 192	401	4.39	25	
Xylenes, Total	1,060	µg/L	SW8260C	17.4	40.0	1,200	0	88.5	42 - 167	1110	4.53	25	
Surr: 1,2-Dichloroethane-d4	928	µg/L	SW8260C			1,000		92.8	72 - 151				
Surr: 4-Bromofluorobenzene	986	µg/L	SW8260C			1,000		98.6	80 - 128				
Surr: Dibromofluoromethane	910	µg/L	SW8260C			1,000		91.0	80 - 124				
Surr: Toluene-d8	1,030	µg/L	SW8260C			1,000		103	77 - 129				
<b>Lab Sample ID: 1305551-001AMSD</b> Date Analyzed: 05/24/2013 2039h													
Test Code: 8260-W													
Benzene	16.0	µg/L	SW8260C	0.149	2.00	20.00	0	80.1	66 - 145	15.8	1.45	25	
Chloroform	15.3	µg/L	SW8260C	0.277	2.00	20.00	0	76.5	50 - 146	15	1.72	25	
Methylene chloride	15.6	µg/L	SW8260C	0.155	2.00	20.00	0	77.9	30 - 192	15.3	1.88	25	
Naphthalene	15.6	µg/L	SW8260C	0.547	2.00	20.00	0	78.0	41 - 131	16.2	3.46	25	
Tetrahydrofuran	15.5	µg/L	SW8260C	0.874	2.00	20.00	3.26	61.1	43 - 146	16.3	5.16	25	
Toluene	16.4	µg/L	SW8260C	0.429	2.00	20.00	0	81.8	18 - 192	16.4	0	25	
Xylenes, Total	48.5	µg/L	SW8260C	0.870	2.00	60.00	0	80.8	42 - 167	48.9	0.822	25	
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	52.4	µg/L	SW8260C			50.00		105	80 - 128				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	77 - 129				

**WORK ORDER Summary**

Work Order: **1305551** Page 1 of 10

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

Due Date: 6/5/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2013

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals have been field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-001A	MW-01_05212013	5/21/2013 1030h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305551-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305551-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305551-001D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305551-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305551-002A	MW-02_05212013	5/21/2013 1430h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305551-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305551-002C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				

# WORK ORDER Summary

Work Order: **1305551** Page 2 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1305551-002D	MW-02_05212013	5/21/2013 1430h	5/24/2013 1000h	NH3-W-350.1	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1305551-002E				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
				200.7-DIS		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met
				200.8-DIS		<input checked="" type="checkbox"/>	df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met
				<i>1 SEL Analytes: HG</i>			
HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				
1305551-003A	MW-03_05222013	5/22/2013 1405h	5/24/2013 1000h	IONBALANCE		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1305551-003B				8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1305551-003C				300.0-W		<input checked="" type="checkbox"/>	df - wc
				<i>3 SEL Analytes: CL F SO4</i>			
1305551-003D				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1305551-003E				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds
				<i>1 SEL Analytes: TDS</i>			
1305551-003D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1305551-003E				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
				200.7-DIS		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met
				200.8-DIS		<input checked="" type="checkbox"/>	df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met
				<i>1 SEL Analytes: HG</i>			
HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				

# WORK ORDER Summary

Work Order: **1305551** Page 3 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-003E	MW-03_05222013	5/22/2013 1405h	5/24/2013 1000h	<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
1305551-004A	MW-03A_05232013	5/23/2013 1050h	5/24/2013 1000h	<b>8260-W</b> <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-004B				<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				<b>ALK-W-2320B</b> <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305551-004C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305551-004D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305551-004E				<b>200.7-DIS</b> <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				<b>200.7-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>200.8-DIS</b> <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				<b>200.8-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>HG-DW-DIS-245.1</b> <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				<b>HG-DW-DIS-PR</b>		<input checked="" type="checkbox"/>	df-met	
				<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-005A	MW-17_05222013	5/22/2013 1050h	5/24/2013 1000h	<b>8260-W</b> <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-005B				<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				<b>ALK-W-2320B</b> <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305551-005C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305551-005D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1305551** Page 4 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-005E	MW-17_05222013	5/22/2013 1050h	5/24/2013 1000h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-006A	MW-18_05202013	5/20/2013 1320h	5/24/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305551-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305551-006D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305551-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-007A	MW-19_05202013	5/20/2013 1600h	5/24/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-007B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1

# WORK ORDER Summary

Work Order: **1305551** Page 5 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-007B	MW-19_05202013	5/20/2013 1600h	5/24/2013 1000h	ALK-W-2320B	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>2 SEL Analytes: ALKB ALKC</i>								
1305551-007C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305551-007D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305551-007E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305551-008A	MW-22_05222013	5/22/2013 1315h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>								
1305551-008B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305551-008C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305551-008D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305551-008E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1305551** Page 6 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-008E	MW-22_05222013	5/22/2013 1315h	5/24/2013 1000h	HG-DW-DIS-245.1	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305551-009A	MW-23_05232013	5/23/2013 0720h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305551-009B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305551-009C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305551-009D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1305551-009E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1305551-010A	MW-24_05222013	5/22/2013 0625h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1305551-010B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1305551-010C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1305551-010D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				

# WORK ORDER Summary

Work Order: **1305551** Page 7 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
1305551-010D	MW-24_05222013	5/22/2013 0625h	5/24/2013 1000h	NH3-W-PR	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
1305551-010E				1 SEL Analytes: NO3NO2N					
				200.7-DIS	<input checked="" type="checkbox"/>	df-met			
				5 SEL Analytes: CA MG K NA V					
				200.7-DIS-PR	<input checked="" type="checkbox"/>	df-met			
				200.8-DIS	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	df-met			
				HG-DW-DIS-245.1	<input checked="" type="checkbox"/>	df-met			
				1 SEL Analytes: HG					
				HG-DW-DIS-PR	<input checked="" type="checkbox"/>	df-met			
1305551-011A	MW-26_05232013	5/23/2013 0740h	5/24/2013 1000h	IONBALANCE	Aqueous	<input checked="" type="checkbox"/>	df-met		
				8260-W		<input checked="" type="checkbox"/>	VOCFridge		
Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4									
1305551-011B				300.0-W		<input checked="" type="checkbox"/>	df - wc		
				3 SEL Analytes: CL F SO4					
1305551-011C				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc		
				2 SEL Analytes: ALKB ALKC					
1305551-011D				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds		
				1 SEL Analytes: TDS					
1305551-011E				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				1 SEL Analytes: NH3N					
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
1305551-011E				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				1 SEL Analytes: NO3NO2N					
				200.7-DIS		<input checked="" type="checkbox"/>	df-met		
				5 SEL Analytes: CA MG K NA V					
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met		
				200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met		
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met		
				1 SEL Analytes: HG					
HG-DW-DIS-PR	<input checked="" type="checkbox"/>	df-met							
1305551-011E				IONBALANCE		<input checked="" type="checkbox"/>	df-met		
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					

# WORK ORDER Summary

Work Order: **1305551** Page 8 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1305551-012A	MW-27_05212013	5/21/2013 1100h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
1305551-012B						300.0-W		<input checked="" type="checkbox"/>	df - wc	1	
							3 SEL Analytes: CL F SO4				
							ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
							2 SEL Analytes: ALKB ALKC				
1305551-012C							TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
							1 SEL Analytes: TDS				
1305551-012D							NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NH3N				
							NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N				
1305551-012E							200.7-DIS		<input checked="" type="checkbox"/>	df-met	
							5 SEL Analytes: CA MG K NA V				
							200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
							200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met				
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met				
				1 SEL Analytes: HG							
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc							
1305551-013A	MW-29_05232013	5/23/2013 0900h	5/24/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
1305551-013B						300.0-W		<input checked="" type="checkbox"/>	df - wc	1	
							3 SEL Analytes: CL F SO4				
							ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
							2 SEL Analytes: ALKB ALKC				
1305551-013C							TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
							1 SEL Analytes: TDS				
1305551-013D							NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NH3N				
							NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N				
1305551-013E							200.7-DIS		<input checked="" type="checkbox"/>	df-met	
							5 SEL Analytes: CA MG K NA V				
							200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1305551** Page 9 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-013E	MW-29_05232013	5/23/2013 0900h	5/24/2013 1000h	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>	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-014A	MW-65_05212013	5/21/2013 1430h	5/24/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-014B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1305551-014C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1305551-014D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305551-014E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-015A	MW-70_05232013	5/23/2013 0900h	5/24/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1305551-015B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	

# WORK ORDER Summary

Work Order: **1305551** Page 10 of 10

Client: Energy Fuels Resources, Inc.

Due Date: 6/5/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1305551-015C	MW-70_05232013	5/23/2013 0900h	5/24/2013 1000h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	<input checked="" type="checkbox"/>	ww - tds	1
1305551-015D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1305551-015E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1305551-016A	Trip Blank	5/20/2013	5/24/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	2

# American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 134555/

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**

Contact: **Garrin Palmer**  
 Phone: **(435) 678-2221**  
 Email: **gpalmer@energyfuels.com**

Page 1 of 1

QC Level: **3**

Project Name: **1st Quarter Groundwater 2013**

PO#: **2nd (per Kelly)**

Sampler Name: **Tanner Holliday**

Turn Around Time

**Standard**

Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	VOCs (8260C)	Fl, Cl, SO4 (4500E or 300)	TDS (2540C)	Carb/Bicarb (2320B)	Heavy Metals per S.O.W	Comments
1 MW-01_05212013	5/21/2013	1030	6	W	X	X	X	X	X	X	X	Trip Blank Included 5/20/2013 (VOCs) Temp Blank Included  Samples are field filtered for metals, per Kelly
2 MW-02_05212013	5/21/2013	1430	6	W	X	X	X	X	X	X	X	
3 MW-03_05222013	5/22/2013	1405	6	W	X	X	X	X	X	X	X	
4 MW-03A_05232013	5/23/2013	0700	6	W	X	X	X	X	X	X	X	
5 MW-17_05222013	5/22/2013	1050	6	W	X	X	X	X	X	X	X	
6 MW-18_05202013	5/20/2013	1320	6	W	X	X	X	X	X	X	X	
7 MW-19_05202013	5/20/2013	1600	6	W	X	X	X	X	X	X	X	
8 MW-22_05222013	5/22/2013	1315	6	W	X	X	X	X	X	X	X	
9 MW-23_05232013	5/23/2013	0720	6	W	X	X	X	X	X	X	X	
10 MW-24_05222013	5/22/2013	0625	6	W	X	X	X	X	X	X	X	
11 MW-26_05232013	5/23/2013	0740	6	W	X	X	X	X	X	X	X	
12 MW-27_05212013	5/21/2013	1100	6	W	X	X	X	X	X	X	X	
13 MW-29_05232013	5/23/2013	0900	6	W	X	X	X	X	X	X	X	
14 MW-65_05212013	5/21/2013	1430	6	W	X	X	X	X	X	X	X	
15 MW-70_05232013	5/23/2013	0900	6	W	X	X	X	X	X	X	X	

**Sample Verification**

1. Shipped or hand delivered  Y  N

2. Vialment or Filled  Y  N

3. Temperature 4.0  Y  N

4. Received Broken/Leaking (Improperly Sealed)  Y  N

5. Properly Preserved  Y  N

6. Received Within Holding Times  Y  N

**COC Tape Was:**

1. Present on Outer Package  Y  N  NA

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 Records**

Y  N

Special Instructions: **Email results to Tanner Holliday, Kethy Weinel, and David Turk**

*Samples have been field filtered*

Relinquished by: Signature <u>Tanner Holliday</u>	Date: <u>5/23/13</u>	Received by: Signature <u>[Signature]</u>	Date: <u>5-24-13</u>
Print Name <u>Tanner Holliday</u>	Time: <u>1100</u>	Print Name <u>[Name]</u>	Time: <u>1000</u>
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time:
Relinquished by: Signature	Date:	Received by: Signature <u>[Signature]</u>	Date:
Print Name	Time:	Print Name <u>[Name]</u>	Time:

Table 3 – AWAL Analyte List, Reporting Limits and Analytical Method Requirements

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Nutrients</b>					
Ammonia (as N)	A4500-NH <sub>3</sub> G or E350.1	0.05 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
<b>Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment</b>					
Acetone	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Benzene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
2-Butanone (MEK)	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Naphthalene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Tetrahydrofuran	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Toluene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Xylenes (total)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>Others</b>					
Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	≤ 6°C
TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO3	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO3	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Table 3 – GEL Groundwater, Tailings Impoundment, and Seeps and Springs Sampling

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Heavy Metals</b>					
Arsenic	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Beryllium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Cadmium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Chromium	E200.7 or E200.8	25 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Cobalt	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Copper	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Iron	E200.7 or E200.8	30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Lead	E200.7 or E200.8	1.0 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Manganese	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Mercury	E 245.1 or E200.7 or E200.8	0.50 µg/L	28 days	HNO <sub>3</sub> to pH<2	None
Molybdenum	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Nickel	E200.7 or E200.8	20 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Selenium	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Silver	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Thallium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Tin	E200.7 or E200.8	100 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Uranium	E200.7 or E200.8	0.30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Vanadium	E200.7 or E200.8	15 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Zinc	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Sodium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Potassium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Magnesium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Calcium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
<b>Radiologics</b>					
Gross Alpha	E 900.0 or E900.1	1.0 pCi/L	6 months	HNO <sub>3</sub> to pH<2	None

-RW 2/27/2013

Table 4 Fee Schedule

Analyte/ Group	Cost per Sample
Full Suite Metals	
Partial Suite Metals (cost per individual metal)	
Gross alpha	

\*\* - per email from Kathy Weinel 3/27/13 -RW

Run ION BALANCE when the full metals suite has been requested, per email from Kathy Weinel 3/27/13

**Ion Balance to include:**

- Total Anions, Measured
- Total Cations, Measured
- TDS Ratio, Measured/Calculated
- TDS, Calculated

-RW 3/27/13





Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2013

Dear Garrin Palmer:

Lab Set ID: 1306068

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 3 sample(s) on 6/5/2013 for the analyses presented in the following report.

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

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

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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.

This is a revision to a report originally issued 6/21/2013. Pages 7 through 8 have been revised. The analytical result for Total Dissolved Solids Ratio, Measured/Calculated has been revised.

Thank You,

Approved by:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2013.07.29 13:11:23 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1306068  
**Date Received:** 6/5/2013 0940h

**Contact:** Garrin Palmer

463 West 3600 South  
Salt Lake City, UT 84115

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
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Jose Rocha  
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Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1306068-001A	MW-20_06032013	6/3/2013 1350h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306068-001B	MW-20_06032013	6/3/2013 1350h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1306068-001B	MW-20_06032013	6/3/2013 1350h	Aqueous	Anions, E300.0
1306068-001C	MW-20_06032013	6/3/2013 1350h	Aqueous	Total Dissolved Solids, A2540C
1306068-001D	MW-20_06032013	6/3/2013 1350h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306068-001D	MW-20_06032013	6/3/2013 1350h	Aqueous	Ammonia, Aqueous
1306068-001E	MW-20_06032013	6/3/2013 1350h	Aqueous	ICPMS Metals, Dissolved
1306068-001E	MW-20_06032013	6/3/2013 1350h	Aqueous	ICP Metals, Dissolved
1306068-001E	MW-20_06032013	6/3/2013 1350h	Aqueous	Mercury, Drinking Water Dissolved
1306068-001E	MW-20_06032013	6/3/2013 1350h	Aqueous	Ion Balance
1306068-002A	MW-37_06032013	6/3/2013 1308h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306068-002B	MW-37_06032013	6/3/2013 1308h	Aqueous	Anions, E300.0
1306068-002B	MW-37_06032013	6/3/2013 1308h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1306068-002C	MW-37_06032013	6/3/2013 1308h	Aqueous	Total Dissolved Solids, A2540C
1306068-002D	MW-37_06032013	6/3/2013 1308h	Aqueous	Ammonia, Aqueous
1306068-002D	MW-37_06032013	6/3/2013 1308h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306068-002E	MW-37_06032013	6/3/2013 1308h	Aqueous	Mercury, Drinking Water Dissolved
1306068-002E	MW-37_06032013	6/3/2013 1308h	Aqueous	Ion Balance
1306068-002E	MW-37_06032013	6/3/2013 1308h	Aqueous	ICPMS Metals, Dissolved
1306068-002E	MW-37_06032013	6/3/2013 1308h	Aqueous	ICP Metals, Dissolved
1306068-003A	Trip Blank	6/3/2013	Aqueous	VOA by GC/MS Method 8260C/5030C



# Inorganic Case Narrative

<b>Client:</b>	Energy Fuels Resources, Inc.
<b>Contact:</b>	Garrin Palmer
<b>Project:</b>	2nd Quarter Groundwater 2013
<b>Lab Set ID:</b>	1306068

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Jose Rocha  
QA Officer

## Sample Receipt Information:

<b>Date of Receipt:</b>	6/5/2013
<b>Date of Collection:</b>	6/3/2013
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	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, DUP:

**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
1306068-001E	Sodium	MS/MSD	High analyte concentrations
1306068-001E	Calcium	MS/MSD	High analyte concentrations
1306068-001D	Ammonia	MS/MSD	Sample matrix interference
1306068-001B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1306068-001D	Nitrate/Nitrite	MS	Sample matrix interference

**Duplicates (DUP):** The RPD on TDS for sample 1306068-002C was outside of control limits due to suspected sample non-homogeneity or matrix interference.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2013  
**Lab Set ID:** 1306068

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### **Sample Receipt Information:**

<b>Date of Receipt:</b>	6/5/2013
<b>Date of Collection:</b>	6/3/2013
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	None
<b>Method:</b>	SW-846 8260C/5030C
<b>Analysis:</b>	Volatile Organic Compounds

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

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

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

**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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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-25879</b> Date Analyzed: 06/10/2013 1554h													
<b>Test Code: 200.7-DIS</b> Date Prepared: 06/06/2013 1000h													
Calcium	10.8	mg/L	E200.7	0.0227	1.00	10.00	0	108	85 - 115				
Magnesium	11.0	mg/L	E200.7	0.102	1.00	10.00	0	110	85 - 115				
Sodium	10.7	mg/L	E200.7	0.0514	1.00	10.00	0	107	85 - 115				
Vanadium	0.216	mg/L	E200.7	0.00150	0.00500	0.2000	0	108	85 - 115				
<b>Lab Sample ID: LCS-25879</b> Date Analyzed: 06/11/2013 1027h													
<b>Test Code: 200.7-DIS</b> Date Prepared: 06/06/2013 1000h													
Potassium	10.9	mg/L	E200.7	0.203	1.00	10.00	0	109	85 - 115				
<b>Lab Sample ID: LCS-25880</b> Date Analyzed: 06/10/2013 0657h													
<b>Test Code: 200.8-DIS</b> Date Prepared: 06/06/2013 1000h													
Cadmium	0.215	mg/L	E200.8	0.0000726	0.000500	0.2000	0	107	85 - 115				
Silver	0.215	mg/L	E200.8	0.000101	0.00200	0.2000	0	107	85 - 115				
Tin	1.05	mg/L	E200.8	0.000620	0.00200	1.000	0	105	85 - 115				
<b>Lab Sample ID: LCS-25880</b> Date Analyzed: 06/13/2013 0207h													
<b>Test Code: 200.8-DIS</b> Date Prepared: 06/06/2013 1000h													
Beryllium	0.191	mg/L	E200.8	0.0000698	0.00200	0.2000	0	95.7	85 - 115				
Iron	1.02	mg/L	E200.8	0.0472	0.100	1.000	0	102	85 - 115				
Lead	0.204	mg/L	E200.8	0.00126	0.00200	0.2000	0	102	85 - 115				
<b>Lab Sample ID: LCS-25880</b> Date Analyzed: 06/13/2013 0539h													
<b>Test Code: 200.8-DIS</b> Date Prepared: 06/06/2013 1000h													
Arsenic	0.209	mg/L	E200.8	0.00118	0.00200	0.2000	0	104	85 - 115				
Chromium	0.211	mg/L	E200.8	0.000938	0.00200	0.2000	0	106	85 - 115				
Cobalt	0.208	mg/L	E200.8	0.00364	0.00400	0.2000	0	104	85 - 115				
Manganese	0.207	mg/L	E200.8	0.00166	0.00200	0.2000	0	104	85 - 115				
Molybdenum	0.213	mg/L	E200.8	0.000496	0.00200	0.2000	0	107	85 - 115				
Nickel	0.207	mg/L	E200.8	0.000898	0.00200	0.2000	0	104	85 - 115				
Selenium	0.204	mg/L	E200.8	0.000686	0.00200	0.2000	0	102	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-25880</b>													
<b>Date Analyzed:</b>		06/13/2013 0539h											
<b>Test Code:</b>		200.8-DIS											
<b>Date Prepared:</b>		06/06/2013 1000h											
Uranium	0.196	mg/L	E200.8	0.0000598	0.00200	0.2000	0	97.8	85 - 115				
Zinc	1.05	mg/L	E200.8	0.00368	0.00500	1.000	0	105	85 - 115				
<b>Lab Sample ID: LCS-25880</b>													
<b>Date Analyzed:</b>		06/13/2013 2118h											
<b>Test Code:</b>		200.8-DIS											
<b>Date Prepared:</b>		06/06/2013 1000h											
Copper	0.221	mg/L	E200.8	0.00152	0.00200	0.2000	0	111	85 - 115				
<b>Lab Sample ID: LCS-25880</b>													
<b>Date Analyzed:</b>		06/14/2013 1017h											
<b>Test Code:</b>		200.8-DIS											
<b>Date Prepared:</b>		06/06/2013 1000h											
Thallium	0.212	mg/L	E200.8	0.000222	0.00200	0.2000	0	106	85 - 115				
<b>Lab Sample ID: LCS-25926</b>													
<b>Date Analyzed:</b>		06/08/2013 1130h											
<b>Test Code:</b>		Hg-DW-DIS-245.1											
<b>Date Prepared:</b>		06/07/2013 1230h											
Mercury	0.00359	mg/L	E245.1	0.0000175	0.000150	0.003330	0	108	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> MB-25879	Date Analyzed:	06/10/2013	1549h										
<b>Test Code:</b> 200.7-DIS	Date Prepared:	06/06/2013	1000h										
Calcium	< 1.00	mg/L	E200.7	0.0227	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.102	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0514	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00150	0.00500								
<b>Lab Sample ID:</b> MB-25879	Date Analyzed:	06/11/2013	1022h										
<b>Test Code:</b> 200.7-DIS	Date Prepared:	06/06/2013	1000h										
Potassium	< 1.00	mg/L	E200.7	0.203	1.00								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/10/2013	0647h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Silver	< 0.0100	mg/L	E200.8	0.000101	0.0100								
Tin	< 0.100	mg/L	E200.8	0.000620	0.100								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/13/2013	0202h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Beryllium	< 0.000500	mg/L	E200.8	0.0000174	0.000500								
Iron	< 0.0300	mg/L	E200.8	0.0118	0.0300								
Lead	< 0.00100	mg/L	E200.8	0.000316	0.00100								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/13/2013	0533h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Arsenic	< 0.00500	mg/L	E200.8	0.00118	0.00500								
Chromium	< 0.0250	mg/L	E200.8	0.000938	0.0250								
Cobalt	< 0.0100	mg/L	E200.8	0.00364	0.0100								
Manganese	< 0.0100	mg/L	E200.8	0.00166	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000496	0.0100								
Nickel	< 0.0200	mg/L	E200.8	0.000898	0.0200								
Selenium	< 0.00500	mg/L	E200.8	0.000686	0.00500								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/13/2013	0533h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Zinc	< 0.0100	mg/L	E200.8	0.00368	0.0100								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/13/2013	0621h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/13/2013	2113h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Copper	< 0.0100	mg/L	E200.8	0.00152	0.0100								
<b>Lab Sample ID:</b> MB-25880	Date Analyzed:	06/14/2013	1010h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2013	1000h										
Thallium	< 0.000500	mg/L	E200.8	0.0000555	0.000500								
<b>Lab Sample ID:</b> MB-25926	Date Analyzed:	06/08/2013	1128h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/07/2013	1230h										
Mercury	< 0.000150	mg/L	E245.1	0.0000175	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/10/2013 1612h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Calcium	342	mg/L	E200.7	2.27	100	10.00	363	-210	70 - 130				±
Sodium	1,060	mg/L	E200.7	5.14	100	10.00	1150	-900	70 - 130				±
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/11/2013 1035h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Magnesium	24.0	mg/L	E200.7	1.02	10.0	10.00	15.1	88.2	70 - 130				
Potassium	32.8	mg/L	E200.7	2.03	10.0	10.00	24.6	81.7	70 - 130				
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/13/2013 1521h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Vanadium	0.208	mg/L	E200.7	0.00150	0.00500	0.2000	0.0125	97.8	70 - 130				
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/10/2013 0807h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Cadmium	0.193	mg/L	E200.8	0.0000726	0.000500	0.2000	0	96.7	75 - 125				
Silver	0.182	mg/L	E200.8	0.000101	0.00200	0.2000	0	91.1	75 - 125				
Tin	0.967	mg/L	E200.8	0.000620	0.00200	1.000	0	96.7	75 - 125				
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/13/2013 0218h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Beryllium	0.181	mg/L	E200.8	0.0000698	0.00200	0.2000	0	90.3	75 - 125				
Iron	0.966	mg/L	E200.8	0.0472	0.100	1.000	0	96.6	75 - 125				
Lead	0.182	mg/L	E200.8	0.00126	0.00200	0.2000	0	91.1	75 - 125				
<b>Lab Sample ID: 1306068-001EMS</b>													
Date Analyzed:		06/13/2013 0549h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Arsenic	0.218	mg/L	E200.8	0.00118	0.00200	0.2000	0.00253	108	75 - 125				
Chromium	0.209	mg/L	E200.8	0.000938	0.00200	0.2000	0.00758	101	75 - 125				
Cobalt	0.201	mg/L	E200.8	0.00364	0.00400	0.2000	0	101	75 - 125				
Manganese	0.203	mg/L	E200.8	0.00166	0.00200	0.2000	0	102	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001EMS</b>		Date Analyzed: 06/13/2013 0549h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Molybdenum	0.228	mg/L	E200.8	0.000496	0.00200	0.2000	0.0251	101	75 - 125				
Nickel	0.203	mg/L	E200.8	0.000898	0.00200	0.2000	0.00106	101	75 - 125				
Selenium	0.208	mg/L	E200.8	0.000686	0.00200	0.2000	0.00273	103	75 - 125				
Uranium	0.185	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00172	91.7	75 - 125				
Zinc	1.05	mg/L	E200.8	0.00368	0.00500	1.000	0	105	75 - 125				
<b>Lab Sample ID: 1306068-001EMS</b>		Date Analyzed: 06/13/2013 2129h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Copper	0.195	mg/L	E200.8	0.00152	0.00200	0.2000	0	97.6	75 - 125				
<b>Lab Sample ID: 1306068-001EMS</b>		Date Analyzed: 06/14/2013 1031h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Thallium	0.189	mg/L	E200.8	0.000222	0.00200	0.2000	0	94.4	75 - 125				
<b>Lab Sample ID: 1306068-001EMS</b>		Date Analyzed: 06/08/2013 1136h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 06/07/2013 1230h											
Mercury	0.00357	mg/L	E245.1	0.0000175	0.000150	0.003330	0	107	85 - 115				

<sup>2</sup> - 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:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/10/2013 1616h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Calcium	357	mg/L	E200.7	2.27	100	10.00	363	-60.0	70 - 130	342	4.29	20	2
Sodium	1,100	mg/L	E200.7	5.14	100	10.00	1150	-500	70 - 130	1060	3.70	20	2
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/11/2013 1039h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Magnesium	24.2	mg/L	E200.7	1.02	10.0	10.00	15.1	90.9	70 - 130	24	1.11	20	
Potassium	34.2	mg/L	E200.7	2.03	10.0	10.00	24.6	95.3	70 - 130	32.8	4.06	20	
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/13/2013 1528h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2013 1000h											
Vanadium	0.208	mg/L	E200.7	0.00150	0.00500	0.2000	0.0125	97.9	70 - 130	0.208	0.136	20	
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/10/2013 0817h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Cadmium	0.197	mg/L	E200.8	0.0000726	0.000500	0.2000	0	98.6	75 - 125	0.193	1.88	20	
Silver	0.185	mg/L	E200.8	0.000101	0.00200	0.2000	0	92.6	75 - 125	0.182	1.63	20	
Tin	0.978	mg/L	E200.8	0.000620	0.00200	1.000	0	97.8	75 - 125	0.967	1.13	20	
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/13/2013 0223h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Beryllium	0.169	mg/L	E200.8	0.0000698	0.00200	0.2000	0	84.6	75 - 125	0.181	6.50	20	
Iron	0.921	mg/L	E200.8	0.0472	0.100	1.000	0	92.1	75 - 125	0.966	4.74	20	
Lead	0.179	mg/L	E200.8	0.00126	0.00200	0.2000	0	89.6	75 - 125	0.182	1.65	20	
<b>Lab Sample ID: 1306068-001EMSD</b>													
Date Analyzed:		06/13/2013 0555h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2013 1000h											
Arsenic	0.203	mg/L	E200.8	0.00118	0.00200	0.2000	0.00253	100	75 - 125	0.218	6.84	20	
Chromium	0.199	mg/L	E200.8	0.000938	0.00200	0.2000	0.00758	95.7	75 - 125	0.209	4.82	20	
Cobalt	0.190	mg/L	E200.8	0.00364	0.00400	0.2000	0	95.2	75 - 125	0.201	5.51	20	
Manganese	0.192	mg/L	E200.8	0.00166	0.00200	0.2000	0	96.0	75 - 125	0.203	5.86	20	



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001EMSD</b>		Date Analyzed: 06/13/2013 0555h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Molybdenum	0.222	mg/L	E200.8	0.000496	0.00200	0.2000	0.0251	98.5	75 - 125	0.228	2.60	20	
Nickel	0.191	mg/L	E200.8	0.000898	0.00200	0.2000	0.00106	95.0	75 - 125	0.203	6.03	20	
Selenium	0.192	mg/L	E200.8	0.000686	0.00200	0.2000	0.00273	94.6	75 - 125	0.208	8.11	20	
Uranium	0.175	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00172	86.5	75 - 125	0.185	5.83	20	
Zinc	0.995	mg/L	E200.8	0.00368	0.00500	1.000	0	99.5	75 - 125	1.05	5.33	20	
<b>Lab Sample ID: 1306068-001EMSD</b>		Date Analyzed: 06/13/2013 2134h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Copper	0.187	mg/L	E200.8	0.00152	0.00200	0.2000	0	93.7	75 - 125	0.195	4.11	20	
<b>Lab Sample ID: 1306068-001EMSD</b>		Date Analyzed: 06/14/2013 1038h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2013 1000h											
Thallium	0.185	mg/L	E200.8	0.000222	0.00200	0.2000	0	92.7	75 - 125	0.189	1.86	20	
<b>Lab Sample ID: 1306068-001EMSD</b>		Date Analyzed: 06/08/2013 1138h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 06/07/2013 1230h											
Mercury	0.00354	mg/L	E245.1	0.0000175	0.000150	0.003330	0	106	85 - 115	0.00357	0.731	20	

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



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-002CDUP</b> Date Analyzed: 06/07/2013 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	4,000	mg/L	SM2540C	8.00	20.0					3700	7.58	5	@

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-R55412</b> Date Analyzed: 06/10/2013 1357h													
Test Code: 300.0-W													
Chloride	4.69	mg/L	E300.0	0.0114	1.00	5.000	0	93.8	90 - 110				
Fluoride	5.17	mg/L	E300.0	0.0126	0.100	5.000	0	103	90 - 110				
Sulfate	4.77	mg/L	E300.0	0.177	1.00	5.000	0	95.4	90 - 110				
<b>Lab Sample ID: LCS-R55568</b> Date Analyzed: 06/13/2013 1430h													
Test Code: 300.0-W													
Sulfate	4.84	mg/L	E300.0	0.177	0.750	5.000	0	96.7	90 - 110				
<b>Lab Sample ID: LCS-R55260</b> Date Analyzed: 06/06/2013 1031h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	52,000	mg/L	SM2320B	4.53	10.0	50,000	0	104	90 - 110				
<b>Lab Sample ID: LCS-26004</b> Date Analyzed: 06/12/2013 2100h													
Test Code: NH3-W-350.1      Date Prepared: 06/12/2013 1400h													
Ammonia (as N)	1.00	mg/L	E350.1	0.0277	0.0500	1.000	0	100	90 - 110				
<b>Lab Sample ID: LCS-26100</b> Date Analyzed: 06/17/2013 2132h													
Test Code: NH3-W-350.1      Date Prepared: 06/17/2013 1600h													
Ammonia (as N)	0.944	mg/L	E350.1	0.0277	0.0500	1.000	0	94.4	90 - 110				
<b>Lab Sample ID: LCS-R55200</b> Date Analyzed: 06/05/2013 1921h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00252	0.100	1.000	0	101	90 - 110				
<b>Lab Sample ID: LCS-R55350</b> Date Analyzed: 06/07/2013 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	198	mg/L	SM2540C	4.00	10.0	205.0	0	96.6	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R55412</b> Date Analyzed: 06/10/2013 1334h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Fluoride	< 0.100	mg/L	E300.0	0.0126	0.100								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
<b>Lab Sample ID: MB-R55568</b> Date Analyzed: 06/13/2013 1344h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
<b>Lab Sample ID: MB-R55260</b> Date Analyzed: 06/06/2013 1031h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	4.53	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	4.53	1.00								
<b>Lab Sample ID: MB-26004</b> Date Analyzed: 06/12/2013 2059h													
Test Code: NH3-W-350.1      Date Prepared: 06/12/2013 1400h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
<b>Lab Sample ID: MB-26100</b> Date Analyzed: 06/17/2013 2130h													
Test Code: NH3-W-350.1      Date Prepared: 06/17/2013 1600h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
<b>Lab Sample ID: MB-R55200</b> Date Analyzed: 06/05/2013 1920h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
<b>Lab Sample ID: MB-R55350</b> Date Analyzed: 06/07/2013 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001BMS</b> Date Analyzed: 06/10/2013 1640h													
Test Code: 300.0-W													
Chloride	24,000	mg/L	E300.0	57.0	5,000	25,000	61.3	95.6	90 - 110				
Fluoride	25,400	mg/L	E300.0	63.0	500	25,000	0.351	102	90 - 110				
Sulfate	27,500	mg/L	E300.0	885	5,000	25,000	4090	93.5	90 - 110				
<b>Lab Sample ID: 1306139-001AMS</b> Date Analyzed: 06/10/2013 2010h													
Test Code: 300.0-W													
Chloride	2,500	mg/L	E300.0	5.70	500	2,500	136	94.7	90 - 110				
<b>Lab Sample ID: 1306182-002BMS</b> Date Analyzed: 06/13/2013 1517h													
Test Code: 300.0-W													
Sulfate	52,900	mg/L	E300.0	1,770	7,500	50,000	1550	103	90 - 110				
<b>Lab Sample ID: 1306068-001BMS</b> Date Analyzed: 06/06/2013 1031h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	91.7	mg/L	SM2320B	4.53	10.0	50.00	40.6	102	80 - 120				
<b>Lab Sample ID: 1306068-001DMS</b> Date Analyzed: 06/17/2013 2138h													
Test Code: NH3-W-350.1 Date Prepared: 06/17/2013 1600h													
Ammonia (as N)	0.873	mg/L	E350.1	0.0277	0.0500	1.000	0.0592	81.4	90 - 110				1
<b>Lab Sample ID: 1305692-001BMS</b> Date Analyzed: 06/05/2013 1957h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	130	mg/L	E353.2	0.252	10.0	100.0	13.7	116	90 - 110				1
<b>Lab Sample ID: 1306068-001DMS</b> Date Analyzed: 06/05/2013 2001h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	129	mg/L	E353.2	0.252	10.0	100.0	16.4	113	90 - 110				1

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001BMSD</b> Date Analyzed: 06/10/2013 1703h													
Test Code: 300.0-W													
Chloride	23,700	mg/L	E300.0	57.0	5,000	25,000	61.3	94.5	90 - 110	24000	1.17	20	
Fluoride	25,200	mg/L	E300.0	63.0	500	25,000	0.351	101	90 - 110	25400	0.858	20	
Sulfate	27,400	mg/L	E300.0	885	5,000	25,000	4090	93.1	90 - 110	27500	0.351	20	
<b>Lab Sample ID: 1306139-001AMSD</b> Date Analyzed: 06/10/2013 2033h													
Test Code: 300.0-W													
Chloride	2,480	mg/L	E300.0	5.70	500	2,500	136	93.8	90 - 110	2500	0.854	20	
<b>Lab Sample ID: 1306182-002BMSD</b> Date Analyzed: 06/13/2013 1540h													
Test Code: 300.0-W													
Sulfate	52,300	mg/L	E300.0	1,770	7,500	50,000	1550	101	90 - 110	52900	1.26	20	
<b>Lab Sample ID: 1306068-001BMSD</b> Date Analyzed: 06/06/2013 1031h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	90.7	mg/L	SM2320B	4.53	10.0	50.00	40.6	100	80 - 120	91.7	1.10	10	
<b>Lab Sample ID: 1306068-001DMSD</b> Date Analyzed: 06/17/2013 2139h													
Test Code: NH3-W-350.1 Date Prepared: 06/17/2013 1600h													
Ammonia (as N)	0.894	mg/L	E350.1	0.0277	0.0500	1.000	0.0592	83.5	90 - 110	0.873	2.39	10	1
<b>Lab Sample ID: 1305692-001BMSD</b> Date Analyzed: 06/05/2013 1959h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	129	mg/L	E353.2	0.252	10.0	100.0	13.7	115	90 - 110	130	0.884	10	1
<b>Lab Sample ID: 1306068-001DMSD</b> Date Analyzed: 06/05/2013 2002h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	125	mg/L	E353.2	0.252	10.0	100.0	16.4	109	90 - 110	129	3.34	10	

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 060513A</b>													
Date Analyzed: 06/05/2013 0732h													
Test Code: 8260-W													
Benzene	23.5	µg/L	SW8260C	0.149	2.00	20.00	0	117	62 - 127				
Chloroform	23.7	µg/L	SW8260C	0.277	2.00	20.00	0	118	67 - 132				
Methylene chloride	27.4	µg/L	SW8260C	0.155	2.00	20.00	0	137	32 - 185				
Naphthalene	18.8	µg/L	SW8260C	0.547	2.00	20.00	0	93.8	28 - 136				
Tetrahydrofuran	17.7	µg/L	SW8260C	0.874	2.00	20.00	0	88.4	43 - 146				
Toluene	23.1	µg/L	SW8260C	0.429	2.00	20.00	0	116	64 - 129				
Xylenes, Total	70.7	µg/L	SW8260C	0.870	2.00	60.00	0	118	52 - 134				
Surr: 1,2-Dichloroethane-d4	52.1	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	47.0	µg/L	SW8260C			50.00		94.1	77 - 121				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.9	81 - 135				



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**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> MB VOC 060513A	Date Analyzed:		06/05/2013 0810h										
<b>Test Code:</b> 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.5	77 - 121				
Surr: Dibromofluoromethane	49.9	µg/L	SW8260C			50.00		99.8	67 - 128				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		95.9	81 - 135				



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## QC SUMMARY REPORT

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**Lab Set ID:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001AMS</b>		Date Analyzed: 06/05/2013 1320h											
Test Code: 8260-W													
Benzene	23.5	µg/L	SW8260C	0.149	2.00	20.00	0	118	66 - 145				
Chloroform	23.3	µg/L	SW8260C	0.277	2.00	20.00	0	117	50 - 146				
Methylene chloride	25.6	µg/L	SW8260C	0.155	2.00	20.00	0	128	30 - 192				
Naphthalene	19.5	µg/L	SW8260C	0.547	2.00	20.00	0	97.4	41 - 131				
Tetrahydrofuran	19.2	µg/L	SW8260C	0.874	2.00	20.00	0	96.0	43 - 146				
Toluene	22.7	µg/L	SW8260C	0.429	2.00	20.00	0	113	18 - 192				
Xylenes, Total	68.2	µg/L	SW8260C	0.870	2.00	60.00	0	114	42 - 167				
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	47.5	µg/L	SW8260C			50.00		95.1	80 - 128				
Surr: Dibromofluoromethane	51.5	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.1	77 - 129				



463 West 3600 South  
Salt Lake City, UT 84115

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:** 1306068  
**Project:** 2nd Quarter Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001AMSD</b>		<b>Date Analyzed: 06/05/2013 1338h</b>											
<b>Test Code: 8260-W</b>													
Benzene	20.5	µg/L	SW8260C	0.149	2.00	20.00	0	103	66 - 145	23.5	13.5	25	
Chloroform	20.4	µg/L	SW8260C	0.277	2.00	20.00	0	102	50 - 146	23.3	13.2	25	
Methylene chloride	22.3	µg/L	SW8260C	0.155	2.00	20.00	0	112	30 - 192	25.6	13.7	25	
Naphthalene	17.2	µg/L	SW8260C	0.547	2.00	20.00	0	86.1	41 - 131	19.5	12.3	25	
Tetrahydrofuran	22.4	µg/L	SW8260C	0.874	2.00	20.00	0	112	43 - 146	19.2	15.5	25	
Toluene	19.7	µg/L	SW8260C	0.429	2.00	20.00	0	98.5	18 - 192	22.7	14.1	25	
Xylenes, Total	59.0	µg/L	SW8260C	0.870	2.00	60.00	0	98.4	42 - 167	68.3	14.5	25	
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	47.9	µg/L	SW8260C			50.00		95.8	80 - 128				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260C			50.00		102	80 - 124				
Surr: Toluene-d8	48.3	µg/L	SW8260C			50.00		96.6	77 - 129				

## WORK ORDER Summary

Work Order: **1306068**

Page 1 of 2

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

Due Date: 6/14/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2013

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306068-001A	MW-20_06032013	6/3/2013 1350h	6/5/2013 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1306068-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1306068-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1306068-001D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1306068-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1306068-002A	MW-37_06032013	6/3/2013 1308h	6/5/2013 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1306068-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1306068-002C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1306068-002D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				

# WORK ORDER Summary

Work Order: **1306068** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 6/14/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306068-002D	MW-37_06032013	6/3/2013 1308h	6/5/2013 0940h	NH3-W-PR	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1306068-002E				1 SEL Analytes: NO3NO2N				
				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
1 SEL Analytes: HG								
1306068-003A	Trip Blank	6/3/2013	6/5/2013 0940h	HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1306068-003A	Trip Blank	6/3/2013	6/5/2013 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4								

# American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1306068

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**

Contact: **Garrin Palmer**  
 Phone: **(435) 678-2221**  
 Email: **gpalmer@energyfuels.com**

Page 1 of 1

QC Level: 3

Project Name: **2nd Quarter Groundwater 2013**

PO#:

Sampler Name: **Tanner Holliday**

Turn Around Time  
**Standard**

Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	VOCs (8260C)	Fl, Cl, SO4 (4500E or 300)	TDS (2540C)	Carb/Bicarb (2320B)	Heavy Metals per S.O.W	Comments
1 MW-20_06032013	6/3/2013	1350	6	W	x	x	x	x	x	x	x	
2 MW-37_06032013	6/3/2013	1308	6	W	x	x	x	x	x	x	x	
3 Trip Blank	6/3/2013						x					
4 Temp Blank	6/4/2013											
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

**Laboratory Use Only**

Samples Were:

- 1 Stopped or Hand Delivered  Y
- 2 Ambient or Chilled  Y
- 3 Temperature 6°C
- 4 Received Broken/Leaking  Y  N
- 5 Improperly Sealed  Y  N
- 6 Properly Preserved  Y  N
- 6 Received Within Holding Times  Y  N

COG / Use 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

Special Instructions: **Email results to Tanner Holliday, Kathy Weinel, and David Turk**

*see previous project stel + previous consensat*

Relinquished by: Signature <u>Tanner Holliday</u>	Date: <u>6/4/2013</u>	Received by: Signature <u>[Signature]</u>	Date: <u>6/5/13</u>
Print Name: <u>Tanner Holliday</u>	Time: <u>1100</u>	Print Name: <u>[Name]</u>	Time: <u>940</u>
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time:
Relinquished by: Signature	Date:	Received by: Signature <u>[Signature]</u>	Date: <u>6/5/13</u>
Print Name	Time:	Print Name: <u>[Name]</u>	Time: <u>940</u>

*Details have been field filled.*

Table 3 – GEL Groundwater, Tailings Impoundment, and Seeps and Springs Sampling

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Heavy Metals</b>					
Arsenic	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Beryllium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Cadmium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Chromium	E200.7 or E200.8	25 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Cobalt	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Copper	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Iron	E200.7 or E200.8	30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Lead	E200.7 or E200.8	1.0 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Manganese	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Mercury	E 245.1 or E200.7 or E200.8	0.50 µg/L	28 days	HNO <sub>3</sub> to pH<2	None
Molybdenum	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Nickel	E200.7 or E200.8	20 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Selenium	E200.7 or E200.8	5 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Silver	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Thallium	E200.7 or E200.8	0.50 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Tin	E200.7 or E200.8	100 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Uranium	E200.7 or E200.8	0.30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Vanadium	E200.7 or E200.8	15 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Zinc	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Sodium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Potassium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Magnesium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Calcium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
<b>Radiologics</b>					
Gross Alpha	E 900.0 or E900.1	1.0 pCi/L	6 months	HNO <sub>3</sub> to pH<2	None

-RW 2/27/2013

Table 4 Fee Schedule

Analyte/ Group	Cost per Sample
Full Suite Metals	
Partial Suite Metals (cost per individual metal)	
Gross alpha	

\*\* - per email from Kathy Weinel 3/27/13 -RW

Run ION BALANCE when the full metals suite has been requested, per email from Kathy Weinel 3/27/13

**Ion Balance to include:**

- Total Anions, Measured
- Total Cations, Measured
- TDS Ratio, Measured/Calculated
- TDS, Calculated

-RW 3/27/13

Table 3 – AWAL Analyte List, Reporting Limits and Analytical Method Requirements

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Nutrients</b>					
Ammonia (as N)	A4500-NH <sub>3</sub> G or E350.1	0.05 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
<b>Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment</b>					
Acetone	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Benzene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
2-Butanone (MEK)	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Naphthalene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Tetrahydrofuran	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Toluene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Xylenes (total)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>Others</b>					
Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	≤ 6°C
TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C





June 10, 2013

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

Re: White Mesa Mill GW  
Work Order: 325944

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 17, 2013. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This data package has been revised to correct the client sample ID and collection date per request. Please see enclosed email for further details.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



This data package has been revised to correct the client sample ID and collection date per request. Please see enclosed email for further details.

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 325944**

**June 10, 2013**

**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 May 17, 2013 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.

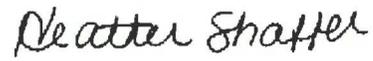
**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
325944001	MW-05_05142013
325944002	MW-11_05142013
325944003	MW-12_05152013
325944004	MW-14_05142013
325944005	MW-15_05152013
325944006	MW-25_05142013
325944007	MW-28_05152013
325944008	MW-30_05152013
325944009	MW-31_05132013
325944010	MW-32_05132013
325944011	MW-35_05132013
325944012	MW-36_05142013

**Case Narrative:**

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

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

A handwritten signature in black ink that reads "Heather Shaffer". The script is cursive and fluid.

Heather Shaffer  
Project Manager



## CHAIN OF CUSTODY

**Samples Shipped to:** Gel Laboratories **Contact:** Garrin Palmer  
2040 Savage Rd Ph: 435 678 2221  
Charleston, South Carolina 29407 gpalmer@energyfuels.com

### Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
2nd Quarter Ground Water 2013	Tanner Holliday	<i>Tanner Holliday</i>

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-05_05142013	5/14/2013	1620	Gross Alpha
MW-11_05142013	5/14/2013	1240	Gross Alpha
MW-12_05152013	5/15/2013	905	Gross Alpha
MW-14_05152013	5/15/2013	1345	Gross Alpha
MW-15_05152013	5/15/2013	950	Gross Alpha
MW-25_05142013	5/14/2013	1055	Gross Alpha
MW-28_05152013	5/15/2013	1445	Gross Alpha
MW-30_05152013	5/15/2013	1340	Gross Alpha
MW-31_05132013	5/13/2013	1315	Gross Alpha
MW-32_05132013	5/13/2013	1255	Gross Alpha
MW-35_05132013	5/13/2013	1445	Gross Alpha
MW-36_05142013	5/14/2013	805	Gross Alpha

Comments:

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 5/16/2013 1100	Received By:(Signature) <i>MPJ</i>	Date/Time 5-17-13 0900
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DNMI</u>		SDG/AR/COC/Work Order: <u>325944</u>
Received By: <u>JP</u>		Date Received: <u>5-16-13</u> <u>5-17-13</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0cpm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>41502209</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 Are Encore containers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected: <u>one per ID</u>
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air <u>FedEx Ground</u> UPS Field Services Courier Other  <u>8015 5301 8085</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 10-JUN-13

Work Order: 325944

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GEL Work Order/SDG: 325944      2nd Quarter GW 2013  
 Client SDG: 325944  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 07-JUN-13  
 Package Due Date: 05-JUN-13  
 EDD Due Date: 07-JUN-13  
 Due Date: 07-JUN-13  
 HXS1

Collector: C  
 Prelogin #: 20130503645  
 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
325944001	MW-05_05142013		14-MAY-13 16:20	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944002	MW-11_05142013		14-MAY-13 12:40	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944003	MW-12_05152013		15-MAY-13 09:05	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944004	MW-14_05142013		14-MAY-13 13:45	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944005	MW-15_05152013		15-MAY-13 09:50	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944006	MW-25_05142013		14-MAY-13 10:55	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944007	MW-28_05152013		15-MAY-13 14:45	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944008	MW-30_05152013		15-MAY-13 13:40	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944009	MW-31_05132013		13-MAY-13 13:15	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944010	MW-32_05132013		13-MAY-13 12:55	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944011	MW-35_05132013		13-MAY-13 14:45	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		
325944012	MW-36_05142013		14-MAY-13 08:05	17-MAY-13 09:00	-2	1	GROUND WATER		21		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-05_05142013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-002 MW-11_05142013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-003 MW-12_05152013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-004 MW-14_05142013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-005 MW-15_05152013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-006 MW-25_05142013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-007 MW-28_05152013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-008 MW-30_05152013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-009 MW-31_05132013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-010 MW-32_05132013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-011 MW-35_05132013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	
-012 MW-36_05142013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 12	

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# GEL Laboratories LLC – Login Review Report

Report Date: 10-JUN-13

Work Order: 325944

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<b>Product:</b> GFCTORAL	<b>Workdef ID:</b> 1297250	<b>In Product Group?</b> No	<b>Group Name:</b>	<b>Group Reference:</b>
<b>Method:</b> EPA 900.1 Modified				<b>Path:</b> Standard
<b>Product Description:</b> GFPC, Total Alpha Radium, Liquid				<b>Product Reference:</b> Gross Alpha
<b>Samples:</b> 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012				<b>Moisture Correction:</b> "As Received"
<b>Parmname Check:</b> All parmnames scheduled properly				

<u>CAS #</u>	<u>Parmname</u>	<u>Client RDL or PQL &amp; Unit</u>	<u>Reporting Units</u>	<u>Parm Function</u>	<u>Included in Sample?</u>	<u>Included in QC?</u>	<u>Custom List?</u>
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

<u>Action</u>	<u>Product Name</u>	<u>Description</u>	<u>Samples</u>
Contingent Tests			

**Login Requirements:**

<u>Requirement</u>	<u>Include?</u>	<u>Comments</u>

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

**Subject:** RE: DNMI 325944 Sample MW-14 Locus Issue  
**From:** Kathy Weinel <KWeinel@energyfuels.com>  
**Date:** 6/10/2013 10:25 AM  
**To:** Heather Shaffer <Heather.Shaffer@gel.com>

I looked into the issue – the boys wrote the wrong date on the COC and the Sample ID is incorrect as a result. The sample ID should be MW-14\_05142013 and the sample date is 5/14/13. If you change those things the sample will load.

Sorry, but we will also need a corrected data package.....

Thanks

K



Kathy Weinel

*Quality Assurance Manager*

t: 303-389-4134 | f: 303-389-4125

225 Union Blvd., Suite 600

Lakewood, CO, US, 80228

<http://www.energyfuels.com>

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**From:** Heather Shaffer [mailto:Heather.Shaffer@gel.com]  
**Sent:** Monday, June 10, 2013 6:39 AM  
**To:** Kathy Weinel  
**Cc:** Linda Pullano  
**Subject:** Fwd: DNMI 325944 Sample MW-14 Locus Issue

Kathy,

The EDD group had an issue with posting to Locus for White Mesa Mill work order 325944. Please see the forwarded email. Is this something you can help with?

Thanks!  
Heather

----- Original Message -----

**Subject:** DNMI 325944 Sample MW-14 Locus Issue  
**Date:** Fri, 07 Jun 2013 18:24:09 -0400  
**From:** Linda Pullano <lop@gel.com>  
**To:** Heather Shaffer <hea01394@gel.com>

Hi Heather,  
When trying to upload the EDD for DNMI 325944, the Locus site had a problem with Sample 14. I received the error "The entry in the Field Sample ID field is not present in the database." I do see a valid sampling location for MW14 and an MW-14A so I'm not sure why the sample is a problem. Flora and I have looked at the EDD for differences with that sample and we're not sure if it is not in some other database list for the site ID versus sampling location for this project. The EDD was not able to be uploaded to Locus.  
Linda

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**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 325944**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1303154

<b>Sample ID</b>	<b>Client ID</b>
325944001	MW-05_05142013
325944002	MW-11_05142013
325944003	MW-12_05152013
325944004	MW-14_05142013
325944005	MW-15_05152013
325944006	MW-25_05142013
325944007	MW-28_05152013
325944008	MW-30_05152013
325944009	MW-31_05132013
325944010	MW-32_05132013
325944011	MW-35_05132013
325944012	MW-36_05142013
1202879548	Method Blank (MB)
1202879549	325944008(MW-30_05152013) Sample Duplicate (DUP)
1202879550	325944008(MW-30_05152013) Matrix Spike (MS)
1202879551	325944008(MW-30_05152013) Matrix Spike Duplicate (MSD)
1202879552	Laboratory Control Sample (LCS)

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

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

### **Quality Control (QC) Information:**

#### **Blank Information**

The blank volume is representative of the sample volume in this batch.

#### **Designated QC**

The following sample was used for QC: 325944008 (MW-30\_05152013).

#### **QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: Matrix Spike and Matrix Spike Duplicate, 1202879550 (MW-30\_05152013) and 1202879551 (MW-30\_05152013), did not meet the relative percent difference requirement; however, they do meet the recovery requirement.

### **Technical Information:**

#### **Holding Time**

All sample procedures for this sample set were performed within the required holding time.

#### **Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

#### **Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

### **Miscellaneous Information:**

#### **Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

#### **Additional Comments**

The matrix spike and matrix spike duplicate, 1202879550 (MW-30\_05152013) and 1202879551 (MW-30\_05152013), aliquots were reduced to conserve sample volume. This package revision contains revised client sample id and collection date for 325944004 (MW-14\_05142013).

#### **Qualifier Information**

Manual qualifiers were not required.

### **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: 325944 GEL Work Order: 325944

**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: 10 JUN 2013

Title: Group Leader

# GEL LABORATORIES LLC

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

## QC Summary

Report Date: June 10, 2013  
Page 1 of 2

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

**Contact:** Ms. Kathy Weinel

**Workorder:** 325944

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>										
Batch	1303154									
QC1202879549	325944008	DUP								
Gross Radium Alpha		U	0.727	1.07	pCi/L	38.5	(0% - 100%)	KDF1	05/25/13	14:4
		Uncertainty	+/-0.210	+/-0.270						
QC1202879552	LCS									
Gross Radium Alpha		555		418	pCi/L		(75%-125%)		05/25/13	14:4
		Uncertainty		+/-5.07		75.3				
QC1202879548	MB									
Gross Radium Alpha		U	-0.0685		pCi/L				05/25/13	14:4
		Uncertainty	+/-0.118							
QC1202879550	325944008	MS								
Gross Radium Alpha		1110 U	0.727	1320	pCi/L		(75%-125%)		05/25/13	14:4
		Uncertainty	+/-0.210	+/-16.3		119				
QC1202879551	325944008	MSD								
Gross Radium Alpha		1110 U	0.727	935	pCi/L	34.4*	(0%-20%)		05/25/13	14:4
		Uncertainty	+/-0.210	+/-11.3		83.8				

**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
- 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

# GEL LABORATORIES LLC

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

## QC Summary

Workorder: 325944

Page 2 of 2

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

^ 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.



July 01, 2013

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

Re: White Mesa Mill GW  
Work Order: 326481

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 24, 2013. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This data package has been revised to report the re-count results for sample IDs MW-29\_05232013 and MW-70\_05232013.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



This data package has been revised to report the re-count results for sample IDs MW-29\_05232013 and MW-70\_05232013.

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 326481**

**July 01, 2013**

**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 May 24, 2013 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:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
326481001	MW-01_05212013
326481002	MW-02_05212013
326481003	MW-03_05222013
326481004	MW-03A_05232013
326481005	MW-17_05222013
326481006	MW-18_05202013
326481007	MW-19_05202013
326481008	MW-22_05222013
326481009	MW-23_05232013
326481010	MW-24_05222013
326481011	MW-26_05232013
326481012	MW-27_05212013
326481013	MW-29_05232013
326481014	MW-65_05212013
326481015	MW-70_05232013

**Case Narrative:**

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

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

*Heather Shaffer*

Heather Shaffer  
Project Manager

326481



# CHAIN OF CUSTODY

**Samples Shipped to:** Gel Laboratories **Contact:** Garrin Palmer  
2040 Savage Rd Ph: 435 678 2221  
Charleston, South Carolina 29407 gpalmer@energyfuels.com

## Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
2nd Quarter Ground Water 2013	Tanner Holliday	<i>Janner Holliday</i>

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-01_05212013	5/21/2013	1030	Gross Alpha
MW-02_05212013	5/21/2013	1430	Gross Alpha
MW-03_05222013	5/22/2013	1405	Gross Alpha
MW-03A_05232013	5/23/2013	700	Gross Alpha
MW-17_05222013	5/22/2013	1050	Gross Alpha
MW-18_05202013	5/20/2013	1320	Gross Alpha
MW-19_05202013	5/20/2013	1600	Gross Alpha
MW-22_05222013	5/22/2013	1315	Gross Alpha
MW-23_05232013	5/23/2013	720	Gross Alpha
MW-24_05222013	5/22/2013	625	Gross Alpha
MW-26_05232013	5/23/2013	740	Gross Alpha
MW-27_05212013	5/21/2013	1100	Gross Alpha
MW-29_05232013	5/23/2013	900	Gross Alpha
MW-65_05212013	5/21/2013	1430	Gross Alpha
MW-70_05232013	5/23/2013	900	Gross Alpha

Comments:

Relinquished By:(Signature) <i>Janner Holliday</i>	Date/Time 5/23/2013 1100	Received By:(Signature) <i>M. Palmer</i>	Date/Time 5-24-13
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time 0900



SAMPLE RECEIPT & REVIEW FORM

Client: <u>Energy Fuels</u>		SDG/AR/COC/Work Order: <u>326481</u>	
Received By: <u>M/K</u>		Date Received: <u>5-24-13</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>CMO</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

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	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) <u>20°C</u> *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
7	Are Encore containers present?	<input checked="" type="checkbox"/>			(If yes, immediately deliver to Volatiles laboratory)
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"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected: <u>1 per ID</u>
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"/>			
14	Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8015 5301 8019</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 01-JUL-13

Work Order: 326481

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**GEL Work Order/SDG:** 326481      **2nd Qtr GW 2013**  
**Client SDG:** 326481  
**Project Manager:** Heather Shaffer  
**Project Name:** DNMI00100 White Mesa Mill GW  
**Purchase Order:** DW16138  
**Package Level:** LEVEL3  
**EDD Format:** EIM\_DNMI

**Work Order Due Date:** 14-JUN-13  
**Package Due Date:** 12-JUN-13  
**EDD Due Date:** 14-JUN-13  
**Due Date:** 14-JUN-13  
**HXS1**

**Collector:** C  
**Prelogin #:** 20130503903  
**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
326481001	MW-01_05212013		21-MAY-13 10:30	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481002	MW-02_05212013		21-MAY-13 14:30	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481003	MW-03_05222013		22-MAY-13 14:05	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481004	MW-03A_05232013		23-MAY-13 07:00	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481005	MW-17_05222013		22-MAY-13 10:50	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481006	MW-18_05202013		20-MAY-13 13:20	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481007	MW-19_05202013		20-MAY-13 16:00	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481008	MW-22_05222013		22-MAY-13 13:15	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481009	MW-23_05232013		23-MAY-13 07:20	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481010	MW-24_05222013		22-MAY-13 06:25	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481011	MW-26_05232013		23-MAY-13 07:40	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481012	MW-27_05212013		21-MAY-13 11:00	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481013	MW-29_05232013		23-MAY-13 09:00	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481014	MW-65_05212013		21-MAY-13 14:30	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		
326481015	MW-70_05232013		23-MAY-13 09:00	24-MAY-13 09:00	-2	1	GROUND WATER		21		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-01_05212013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-002 MW-02_05212013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-003 MW-03_05222013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-004 MW-03A_05232013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-005 MW-17_05222013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-006 MW-18_05202013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	y

# GEL Laboratories LLC - Login Review Report

Report Date: 01-JUL-13

Work Order: 326481

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-007	MW-19_05202013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-008	MW-22_05222013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-009	MW-23_05232013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-010	MW-24_05222013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-011	MW-26_05232013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-012	MW-27_05212013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-013	MW-29_05232013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-014	MW-65_05212013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y
-015	MW-70_05232013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Temperature (C)	20
					Cooler Seal Undisturbed	y

Product: GFCTORAL    Workdef ID: 1297250    In Product Group? No    Group Name:    Group Reference:  
 Method: EPA 900.1 Modified    Path: Standard  
 Product Description: GFPC, Total Alpha Radium, Liquid    Product Reference: Gross Alpha  
 Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015    Moisture Correction: "As Received"

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	Yes

Action	Product Name	Description	Samples
Contingent Tests			

# GEL Laboratories LLC – Login Review Report

Report Date: 01-JUL-13  
Work Order: 326481  
Page 3 of 3

## Login Requirements:

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

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 326481**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 900.1 Modified

Analytical Batch Number: 1304576

<b>Sample ID</b>	<b>Client ID</b>
326481001	MW-01_05212013
326481002	MW-02_05212013
326481003	MW-03_05222013
326481004	MW-03A_05232013
326481005	MW-17_05222013
326481006	MW-18_05202013
326481007	MW-19_05202013
326481008	MW-22_05222013
326481009	MW-23_05232013
326481010	MW-24_05222013
326481011	MW-26_05232013
326481012	MW-27_05212013
326481013	MW-29_05232013
326481014	MW-65_05212013
326481015	MW-70_05232013
1202883266	Method Blank (MB)
1202883267	326481010(MW-24_05222013) Sample Duplicate (DUP)
1202883268	326481010(MW-24_05222013) Matrix Spike (MS)
1202883269	326481010(MW-24_05222013) Matrix Spike Duplicate (MSD)
1202883270	Laboratory Control Sample (LCS)

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

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used

before the expiration dates.

### **Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

### **Quality Control (QC) Information:**

#### **Blank Information**

The blank volume is representative of the sample volume in this batch.

#### **Designated QC**

The following sample was used for QC: 326481010 (MW-24\_05222013).

#### **QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: The matrix spike and matrix spike duplicate, 1202883268 (MW-24\_05222013) and 1202883269 (MW-24\_05222013), do not meet the relative percent difference requirement; however, they do meet the recovery requirement.

### **Technical Information:**

#### **Holding Time**

All sample procedures for this sample set were performed within the required holding time.

#### **Sample Re-prep/Re-analysis**

Sample 1202883270 (LCS) was recounted due to high recovery. The recount is reported. Sample 326481013 (MW-29\_05232013) was recounted to decrease uncertainty. The recount is reported. Samples 326481013 (MW-29\_05232013) and 326481015 (MW-70\_05232013) were recounted to verify sample results. The second counts are reported.

#### **Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

### **Miscellaneous Information:**

#### **Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

#### **Additional Comments**

The matrix spike and matrix spike duplicate, 1202883268 (MW-24\_05222013) and 1202883269 (MW-24\_05222013), aliquots were reduced to conserve sample volume. Samples 326481013 (MW-29\_05232013) and 326481015 (MW-70\_05232013) were recounted per client request. Recounts are more consistent with client historical results.

### **Qualifier Information**

Manual qualifiers were not required.

### **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: 326481 GEL Work Order: 326481

**The Qualifiers in this report are defined as follows:**

\* A quality control analyte recovery is outside of specified acceptance criteria

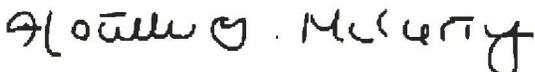
\*\* Analyte is a surrogate compound

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: Heather McCarty

Date: 02 JUL 2013

Title: Analyst II

# GEL LABORATORIES LLC

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

## QC Summary

Report Date: July 2, 2013  
Page 1 of 2

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

Contact: Ms. Kathy Weinel

Workorder: 326481

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch		1304576									
QC1202883267	326481010	DUP									
Gross Radium Alpha		1.15		1.80	pCi/L	44.2		(0% - 100%)	KDF1	06/05/13	15:1
		Uncertainty	+/-0.323	+/-0.325							
QC1202883270	LCS										
Gross Radium Alpha		555		583	pCi/L		105	(75%-125%)		06/06/13	15:1
		Uncertainty		+/-6.49							
QC1202883266	MB										
Gross Radium Alpha			U	0.282	pCi/L					06/05/13	15:1
		Uncertainty		+/-0.257							
QC1202883268	326481010	MS									
Gross Radium Alpha		1120	1.15	1000	pCi/L		89.4	(75%-125%)		06/05/13	15:1
		Uncertainty	+/-0.323	+/-12.7							
QC1202883269	326481010	MSD									
Gross Radium Alpha		1120	1.15	1300	pCi/L	26.4*	117	(0%-20%)		06/05/13	15:1
		Uncertainty	+/-0.323	+/-17.0							

### 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
- 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

# GEL LABORATORIES LLC

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

## QC Summary

Workorder: 326481

Page 2 of 2

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

^ 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.



June 19, 2013

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

Re: White Mesa Mill GW  
Work Order: 327219

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 07, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 327219**

**June 19, 2013**

**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 June 07, 2013 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:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
327219001	MW-20_06032013
327219002	MW-37_06032013

**Case Narrative:**

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

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

*Heather Shaffer*

Heather Shaffer  
Project Manager



Client: <u>DNMI</u>	SDG/AR/COC/Work Order: <u>327219</u>
Received By: <u>H. Taylor</u>	Date Received:
<b>Suspected Hazard Information</b>	<small>*If Net Counts &gt; 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.</small>
COC/Samples marked as radioactive?	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0cpm</u>
Classified Radioactive II or III by RSO?	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	

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 Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: Ice bags    Blue ice    Dry ice <u>None</u> Other (describe) <small>*all temperatures are recorded in Celsius <u>20</u></small>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>61524149</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
7 Are Encore containers present?	<input checked="" type="checkbox"/>			(If yes, immediately deliver to Volatiles laboratory)
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"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
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"/>			
14 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: FedEx Air    FedEx Ground    UPS    Field Services    Courier    Other  <u>12 187 444 12 9823 6086</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 19-JUN-13

Work Order: 327219

Page 1 of 2

GEL Work Order/SDG: 327219      2nd Quarter GW 2013  
 Client SDG: 327219  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 05-JUL-13  
 Package Due Date: 02-JUL-13  
 EDD Due Date: 05-JUL-13  
 Due Date: 05-JUL-13  
 HXS1

Collector: C  
 Prelogin #: 20130604305  
 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
327219001	MW-20_06032013		03-JUN-13 13:50	07-JUN-13 09:05	-2	1	GROUND WATER		20		1		
327219002	MW-37_06032013		03-JUN-13 13:08	07-JUN-13 09:05	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-20_06032013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 20	
-002 MW-37_06032013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 20	

Product: GFCTORAL      Workdef ID: 1297250      In Product Group? No      Group Name:      Group Reference:

Method: EPA 900.1 Modified      Path: Standard

Product Description: GFPC, Total Alpha Radium, Liquid      Product Reference: Gross Alpha

Samples: 001, 002      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	Yes

Action	Product Name	Description	Samples
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Contingent Tests

**Login Requirements:**

Requirement	Include?	Comments
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# GEL Laboratories LLC – Login Review Report

Report Date: 19-JUN-13

Work Order: 327219

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

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 327219**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 900.1 Modified

Analytical Batch Number: 1307891

<b>Sample ID</b>	<b>Client ID</b>
327219001	MW-20_06032013
327219002	MW-37_06032013
1202891941	Method Blank (MB)
1202891942	327219002(MW-37_06032013) Sample Duplicate (DUP)
1202891943	327219002(MW-37_06032013) Matrix Spike (MS)
1202891944	327219002(MW-37_06032013) Matrix Spike Duplicate (MSD)
1202891945	Laboratory Control Sample (LCS)

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

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 327219002 (MW-37\_06032013).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1202891943 (MW-37\_06032013) and 1202891944 (MW-37\_06032013), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**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: 327219 GEL Work Order: 327219

**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: Heather McCarty

Date: 21 JUN 2013

Title: Analyst II

# GEL LABORATORIES LLC

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## QC Summary

Report Date: June 21, 2013

Page 1 of 2

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

**Contact: Ms. Kathy Weinel**

**Workorder: 327219**

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1307891										
QC1202891942	327219002	DUP									
Gross Radium Alpha		1.22		1.19	pCi/L	2.55		(0% - 100%)	KDF1	06/20/13	15:3
	Uncertainty	+/-0.378		+/-0.325							
QC1202891945	LCS										
Gross Radium Alpha		555		459	pCi/L		82.7	(75%-125%)		06/20/13	15:3
	Uncertainty			+/-6.07							
QC1202891941	MB										
Gross Radium Alpha			U	0.116	pCi/L					06/20/13	15:3
	Uncertainty			+/-0.176							
QC1202891943	327219002	MS									
Gross Radium Alpha		1120		910	pCi/L		81.2	(75%-125%)		06/20/13	15:3
	Uncertainty	+/-0.378		+/-11.8							
QC1202891944	327219002	MSD									
Gross Radium Alpha		1120		934	pCi/L	2.61	83.3	(0%-20%)		06/20/13	15:3
	Uncertainty	+/-0.378		+/-12.2							

**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
- 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

# GEL LABORATORIES LLC

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## QC Summary

Workorder: 327219

Page 2 of 2

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

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.

^ 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

April 2013



# INORGANIC ANALYTICAL REPORT

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

**Contact:** Garrin Palmer

**Project:** April Groundwater 2013

**Lab Sample ID:** 1304547-001

**Client Sample ID:** MW-11\_04162013

**Collection Date:** 4/16/2013 1110h

**Received Date:** 4/19/2013 1040h

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	4/22/2013 1250h	4/25/2013 0319h	E200.8	0.0100	<b>0.181</b>	

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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-002  
**Client Sample ID:** MW-14\_04162013  
**Collection Date:** 4/16/2013 1500h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Manganese	mg/L	4/22/2013 1250h	4/25/2013 0345h	E200.8	0.0100	<b>2.06</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

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

**Contact:** Garrin Palmer

**Project:** April Groundwater 2013

**Lab Sample ID:** 1304547-003

**Client Sample ID:** MW-25\_04172013

**Collection Date:** 4/17/2013 1050h

**Received Date:** 4/19/2013 1040h

### **Analytical Results**

### **DISSOLVED METALS**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>		<b>Date Analyzed</b>		<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Cadmium	mg/L	4/22/2013	1250h	4/22/2013	2312h	E200.8	0.000500	<b>0.00136</b>	
Uranium	mg/L	4/22/2013	1250h	4/25/2013	0407h	E200.8	0.000300	<b>0.00556</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-004  
**Client Sample ID:** MW-26\_04172013  
**Collection Date:** 4/17/2013 1430h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Uranium	mg/L	4/22/2013 1250h	4/25/2013 0412h	E200.8	0.000300	<b>0.0588</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

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

**Contact:** Garrin Palmer

**Project:** April Groundwater 2013

**Lab Sample ID:** 1304547-004

**Client Sample ID:** MW-26\_04172013

**Collection Date:** 4/17/2013 1430h

**Received Date:** 4/19/2013 1040h

### **Analytical Results**

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<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		4/23/2013 1815h	E300.0	10.0	<b>70.4</b>	
Nitrate/Nitrite (as N)	mg/L		4/26/2013 2020h	E353.2	0.100	<b>1.73</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-004B  
**Client Sample ID:** MW-26\_04172013  
**Collection Date:** 4/17/2013 1430h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/22/2013 1310h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	<b>1,680</b>	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,100	1,000	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,050	1,000	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,060	1,000	106	80-124	
Surr: Toluene-d8	2037-26-5	981	1,000	98.1	77-129	

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

**Analyzed:** 4/22/2013 1223h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	<b>10.2</b>	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.7	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.6	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.2	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	77-129	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-006  
**Client Sample ID:** MW-30\_04172013  
**Collection Date:** 4/17/2013 1025h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>		<u>Date Analyzed</u>		<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Selenium	mg/L	4/22/2013	1250h	4/25/2013	0444h	E200.8	0.00500	<b>0.0373</b>	
Uranium	mg/L	4/22/2013	1250h	4/25/2013	0418h	E200.8	0.000300	<b>0.00708</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-006  
**Client Sample ID:** MW-30\_04172013  
**Collection Date:** 4/17/2013 1025h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		4/23/2013 1509h	E300.0	5.00	<b>117</b>	1
Nitrate/Nitrite (as N)	mg/L		4/26/2013 2036h	E353.2	10.0	<b>16.8</b>	

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

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-005  
**Client Sample ID:** MW-31\_04162013  
**Collection Date:** 4/16/2013 1300h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Selenium	mg/L	4/22/2013 1250h	4/25/2013 0439h	E200.8	0.00500	<b>0.0729</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-005  
**Client Sample ID:** MW-31\_04162013  
**Collection Date:** 4/16/2013 1300h  
**Received Date:** 4/19/2013 1040h

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		4/23/2013 1838h	E300.0	50.0	<b>171</b>	
Nitrate/Nitrite (as N)	mg/L		4/26/2013 2031h	E353.2	10.0	<b>18.8</b>	
Sulfate	mg/L		4/22/2013 2211h	E300.0	50.0	<b>668</b>	
Total Dissolved Solids	mg/L		4/19/2013 1400h	SM2540C	20.0	<b>1,260</b>	@

<sup>1</sup> - 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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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-007  
**Client Sample ID:** MW-35\_04172013  
**Collection Date:** 4/17/2013 1200h  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	4/22/2013 1250h	4/25/2013 0450h	E200.8	0.0100	<b>0.243</b>	
Molybdenum	mg/L	4/22/2013 1250h	4/22/2013 2349h	E200.8	0.0100	< 0.0100	
Selenium	mg/L	4/22/2013 1250h	4/25/2013 0450h	E200.8	0.00500	<b>0.0118</b>	
Thallium	mg/L	4/22/2013 1250h	4/25/2013 0423h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	4/22/2013 1250h	4/25/2013 0423h	E200.8	0.000300	<b>0.0200</b>	

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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: May 3, 2013

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-35\_04172013 Project: DNMI00100  
Sample ID: 324225001 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 17-APR-13 12:00  
Receive Date: 19-APR-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.75	+/-0.569	0.702	1.00	pCi/L		KDF1	04/28/13	1221	1296569	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

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

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



## INORGANIC ANALYTICAL REPORT

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

**Contact:** Garrin Palmer

**Project:** April Groundwater 2013

**Lab Sample ID:** 1304547-008

**Client Sample ID:** MW-65\_04172013

**Collection Date:** 4/17/2013 1050h

**Received Date:** 4/19/2013 1040h

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>		<u>Date Analyzed</u>		<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Cadmium	mg/L	4/22/2013	1250h	4/22/2013	2355h	E200.8	0.000500	<b>0.00130</b>	
Uranium	mg/L	4/22/2013	1250h	4/25/2013	0434h	E200.8	0.000300	<b>0.00535</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Groundwater 2013  
**Lab Sample ID:** 1304547-009A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 4/17/2013  
**Received Date:** 4/19/2013 1040h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/22/2013 1204h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	57.0	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.7	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.8	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: April Groundwater 2013

Dear Garrin Palmer:

Lab Set ID: 1304547

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 9 sample(s) on 4/19/2013 for the analyses presented in the following report.

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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, and Missouri.

web: [www.awal-labs.com](http://www.awal-labs.com)

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

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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

Thank You,

Approved by:

<b>Jose G. Rocha</b>	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US
	Date: 2013.04.30 13:15:50 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** April Groundwater 2013  
**Lab Set ID:** 1304547  
**Date Received:** 4/19/2013 1040h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
463 West 3600 South Salt Lake City, UT 84115	1304547-001A MW-11_04162013	4/16/2013 1110h	Aqueous	ICPMS Metals, Dissolved
	1304547-002A MW-14_04162013	4/16/2013 1500h	Aqueous	ICPMS Metals, Dissolved
	1304547-003A MW-25_04172013	4/17/2013 1050h	Aqueous	ICPMS Metals, Dissolved
	1304547-004A MW-26_04172013	4/17/2013 1430h	Aqueous	ICPMS Metals, Dissolved
Phone: (801) 263-8686	1304547-004B MW-26_04172013	4/17/2013 1430h	Aqueous	VOA by GC/MS Method 8260C/5030C
Toll Free: (888) 263-8686	1304547-004C MW-26_04172013	4/17/2013 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1304547-004D MW-26_04172013	4/17/2013 1430h	Aqueous	Anions, E300.0
e-mail: awal@awal-labs.com	1304547-005A MW-31_04162013	4/16/2013 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1304547-005B MW-31_04162013	4/16/2013 1300h	Aqueous	Total Dissolved Solids, A2540C
web: www.awal-labs.com	1304547-005B MW-31_04162013	4/16/2013 1300h	Aqueous	Anions, E300.0
	1304547-005C MW-31_04162013	4/16/2013 1300h	Aqueous	ICPMS Metals, Dissolved
	1304547-006A MW-30_04172013	4/17/2013 1025h	Aqueous	ICPMS Metals, Dissolved
Kyle F. Gross	1304547-006B MW-30_04172013	4/17/2013 1025h	Aqueous	Nitrite/Nitrate (as N), E353.2
Laboratory Director	1304547-006C MW-30_04172013	4/17/2013 1025h	Aqueous	Anions, E300.0
	1304547-007A MW-35_04172013	4/17/2013 1200h	Aqueous	ICPMS Metals, Dissolved
Jose Rocha	1304547-008A MW-65_04172013	4/17/2013 1050h	Aqueous	ICPMS Metals, Dissolved
QA Officer	1304547-009A Trip Blank	4/17/2013	Aqueous	VOA by GC/MS Method 8260C/5030C



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** April Groundwater 2013  
**Lab Set ID:** 1304547

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 4/19/2013  
**Date(s) of Collection:** 4/16 & 4/17/2013  
**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, DUP:

**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
1304547-006C	Chloride	MSD	Sample matrix interference
1304547-005A	Nitrate/Nitrite	MS/MSD	Sample matrix interference

**Duplicates (DUP):** The RPD for TDS was outside of control limits on sample 1304547-005B due to suspected sample non-homogeneity or matrix interference.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** April Groundwater 2013  
**Lab Set ID:** 1304547

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### **Sample Receipt Information:**

**Date of Receipt:** 4/19/2013  
**Date(s) of Collection:** 4/16 & 4/17/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

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

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

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

**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:** 1304547

**Project:** April Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID:</b> LCS-24960	Date Analyzed:	04/22/2013 2235h											
<b>Test Code:</b> 200.8-DIS	Date Prepared:	04/22/2013 1250h											
Cadmium	0.195	mg/L	E200.8	0.0000726	0.000500	0.2000	0	97.4	85 - 115				
Molybdenum	0.201	mg/L	E200.8	0.000496	0.00200	0.2000	0	100	85 - 115				
<b>Lab Sample ID:</b> LCS-24960	Date Analyzed:	04/25/2013 0313h											
<b>Test Code:</b> 200.8-DIS	Date Prepared:	04/22/2013 1250h											
Manganese	0.198	mg/L	E200.8	0.00166	0.00200	0.2000	0	99.0	85 - 115				
Selenium	0.192	mg/L	E200.8	0.000686	0.00200	0.2000	0	96.2	85 - 115				
Thallium	0.177	mg/L	E200.8	0.000222	0.00200	0.2000	0	88.4	85 - 115				
Uranium	0.185	mg/L	E200.8	0.0000598	0.00200	0.2000	0	92.5	85 - 115				



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QA Officer

## QC SUMMARY REPORT

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

**Lab Set ID:** 1304547

**Project:** April Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID:</b> MB-24960	Date Analyzed:	04/22/2013	2229h										
Test Code:	200.8-DIS	Date Prepared:	04/22/2013	1250h									
Cadmium	< 0.000500	mg/L	E200.8	0.00000726	0.000500								
Molybdenum	< 0.0100	mg/L	E200.8	0.0000496	0.0100								
<b>Lab Sample ID:</b> MB-24960	Date Analyzed:	04/25/2013	0308h										
Test Code:	200.8-DIS	Date Prepared:	04/22/2013	1250h									
Manganese	< 0.0100	mg/L	E200.8	0.000166	0.0100								
Selenium	< 0.00500	mg/L	E200.8	0.0000686	0.00500								
Thallium	< 0.000500	mg/L	E200.8	0.0000222	0.000500								
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1304547-001AMS</b>													
Date Analyzed:		04/22/2013 2256h											
Test Code:		200.8-DIS											
Date Prepared:		04/22/2013 1250h											
Cadmium	0.189	mg/L	E200.8	0.0000726	0.000500	0.2000	0	94.3	75 - 125				
Molybdenum	0.200	mg/L	E200.8	0.000496	0.00200	0.2000	0.00252	98.9	75 - 125				
<b>Lab Sample ID: 1304547-001AMS</b>													
Date Analyzed:		04/25/2013 0335h											
Test Code:		200.8-DIS											
Date Prepared:		04/22/2013 1250h											
Manganese	0.358	mg/L	E200.8	0.00166	0.00200	0.2000	0.181	88.8	75 - 125				
Selenium	0.201	mg/L	E200.8	0.000686	0.00200	0.2000	0	101	75 - 125				
Thallium	0.172	mg/L	E200.8	0.000222	0.00200	0.2000	0.000422	85.7	75 - 125				
Uranium	0.181	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000974	90.3	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1304547-001AMSD</b>													
Date Analyzed:		04/22/2013 2301h											
Test Code:		200.8-DIS											
Date Prepared:		04/22/2013 1250h											
Cadmium	0.197	mg/L	E200.8	0.0000726	0.000500	0.2000	0	98.5	75 - 125	0.189	4.30	20	
Molybdenum	0.214	mg/L	E200.8	0.000496	0.00200	0.2000	0.00252	106	75 - 125	0.2	6.69	20	
<b>Lab Sample ID: 1304547-001AMSD</b>													
Date Analyzed:		04/25/2013 0340h											
Test Code:		200.8-DIS											
Date Prepared:		04/22/2013 1250h											
Manganese	0.384	mg/L	E200.8	0.00166	0.00200	0.2000	0.181	102	75 - 125	0.358	7.01	20	
Selenium	0.209	mg/L	E200.8	0.000686	0.00200	0.2000	0	104	75 - 125	0.201	3.53	20	
Thallium	0.178	mg/L	E200.8	0.000222	0.00200	0.2000	0.000422	88.7	75 - 125	0.172	3.52	20	
Uranium	0.188	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000974	93.3	75 - 125	0.181	3.29	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> 1304547-005BDUP	Date Analyzed: 04/19/2013 1400h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	1,440	mg/L	SM2540C	8.00	20.0					1260	13.3	5	@

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> LCS-R53337      Date Analyzed: 04/22/2013 1755h													
Test Code: 300.0-W													
Sulfate	4.88	mg/L	E300.0	0.177	0.750	5.000	0	97.6	90 - 110				
<b>Lab Sample ID:</b> LCS-R53413      Date Analyzed: 04/23/2013 1239h													
Test Code: 300.0-W													
Chloride	4.61	mg/L	E300.0	0.0114	0.100	5.000	0	92.2	90 - 110				
<b>Lab Sample ID:</b> LCS-R53554      Date Analyzed: 04/26/2013 2002h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00252	0.100	1.000	0	107	90 - 110				
<b>Lab Sample ID:</b> LCS-R53283      Date Analyzed: 04/19/2013 1400h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	198	mg/L	SM2540C	4.00	10.0	205.0	0	96.6	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R53337</b> Date Analyzed: 04/22/2013 1732h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
<b>Lab Sample ID: MB-R53413</b> Date Analyzed: 04/23/2013 1216h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
<b>Lab Sample ID: MB-R53554</b> Date Analyzed: 04/26/2013 2000h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
<b>Lab Sample ID: MB-R53283</b> Date Analyzed: 04/19/2013 1400h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								



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## QC SUMMARY REPORT

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

**Lab Set ID:** 1304547

**Project:** April Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID: 1304547-005BMS</b> Date Analyzed: 04/22/2013 2235h													
Test Code: 300.0-W													
Sulfate	3,130	mg/L	E300.0	88.5	375	2,500	668	98.4	90 - 110				
<b>Lab Sample ID: 1304547-006CMS</b> Date Analyzed: 04/23/2013 1532h													
Test Code: 300.0-W													
Chloride	2,390	mg/L	E300.0	5.70	50.0	2,500	117	90.9	90 - 110				
<b>Lab Sample ID: 1304547-005AMS</b> Date Analyzed: 04/26/2013 2046h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	138	mg/L	E353.2	0.252	10.0	100.0	18.8	119	90 - 110				

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1304547-005BMSD</b> Date Analyzed: 04/22/2013 2258h													
Test Code: 300.0-W													
Sulfate	3,060	mg/L	E300.0	88.5	375	2,500	668	95.6	90 - 110	3130	2.30	20	
<b>Lab Sample ID: 1304547-006CMSD</b> Date Analyzed: 04/23/2013 1555h													
Test Code: 300.0-W													
Chloride	2,270	mg/L	E300.0	5.70	50.0	2,500	117	86.2	90 - 110	2390	5.02	20	1
<b>Lab Sample ID: 1304547-005AMSD</b> Date Analyzed: 04/26/2013 2047h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	134	mg/L	E353.2	0.252	10.0	100.0	18.8	116	90 - 110	138	2.71	10	1

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



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID:</b> LCS VOC 042213A		<b>Date Analyzed:</b> 04/22/2013 1048h											
<b>Test Code:</b> 8260-W													
Chloroform	22.4	µg/L	SW8260C	0.277	2.00	20.00	0	112	67 - 132				
Methylene chloride	24.1	µg/L	SW8260C	0.155	2.00	20.00	0	121	32 - 185				
Surr: 1,2-Dichloroethane-d4	55.5	µg/L	SW8260C			50.00		111	76 - 138				
Surr: 4-Bromofluorobenzene	50.8	µg/L	SW8260C			50.00		102	77 - 121				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	67 - 128				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.5	81 - 135				



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## QC SUMMARY REPORT

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

**Lab Set ID:** 1304547

**Project:** April Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID:</b> MB VOC 042213A	<b>Date Analyzed:</b> 04/22/2013 1126h												
<b>Test Code:</b> 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	56.9	µg/L	SW8260C			50.00		114	76 - 138				
Surr: 4-Bromofluorobenzene	54.7	µg/L	SW8260C			50.00		109	77 - 121				
Surr: Dibromofluoromethane	54.0	µg/L	SW8260C			50.00		108	67 - 128				
Surr: Toluene-d8	49.8	µg/L	SW8260C			50.00		99.6	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1304547-004BMS</b>		Date Analyzed: 04/22/2013 1329h											
Test Code: 8260-W													
Chloroform	2,170	µg/L	SW8260C	5.54	40.0	400.0	1680	122	50 - 146				
Methylene chloride	482	µg/L	SW8260C	3.10	40.0	400.0	10.2	118	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,140	µg/L	SW8260C			1,000		114	72 - 151				
Surr: 4-Bromofluorobenzene	1,010	µg/L	SW8260C			1,000		101	80 - 128				
Surr: Dibromofluoromethane	1,080	µg/L	SW8260C			1,000		108	80 - 124				
Surr: Toluene-d8	969	µg/L	SW8260C			1,000		96.9	77 - 129				



463 West 3600 South

Salt Lake City, UT 84115

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:** 1304547  
**Project:** April Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1304547-004BMSD</b>		Date Analyzed: 04/22/2013 1348h											
Test Code: 8260-W													
Chloroform	2,050	µg/L	SW8260C	5.54	40.0	400.0	1680	91.4	50 - 146	2170	5.79	25	
Methylene chloride	462	µg/L	SW8260C	3.10	40.0	400.0	10.2	113	30 - 192	482	4.11	25	
Surr: 1,2-Dichloroethane-d4	1,100	µg/L	SW8260C			1,000		110	72 - 151				
Surr: 4-Bromofluorobenzene	1,030	µg/L	SW8260C			1,000		103	80 - 128				
Surr: Dibromofluoromethane	1,050	µg/L	SW8260C			1,000		105	80 - 124				
Surr: Toluene-d8	973	µg/L	SW8260C			1,000		97.3	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1304547** Page 1 of 2

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

Due Date: 4/30/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** April Groundwater 2013

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 & Summary (No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. All dissolved metals have been field filtered.;

*de*

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304547-001A	MW-11_04162013	4/16/2013 1110h	4/19/2013 1040h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis.metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis.metals	
1304547-002A	MW-14_04162013	4/16/2013 1500h	4/19/2013 1040h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis.metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis.metals	
1304547-003A	MW-25_04172013	4/17/2013 1050h	4/19/2013 1040h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis.metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis.metals	
1304547-004A	MW-26_04172013	4/17/2013 1430h	4/19/2013 1040h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis.metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis.metals	
1304547-004B				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1304547-004C				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	1
1304547-004D				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - cl	
1304547-005A	MW-31_04162013	4/16/2013 1300h	4/19/2013 1040h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
1304547-005B				300.0-W <i>2 SEL Analytes: CL SO4</i>		<input checked="" type="checkbox"/>	ww - tds/wc	
				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds/wc	
1304547-005C				200.8-DIS <i>1 SEL Analytes: SE</i>		<input checked="" type="checkbox"/>	df - metals	
				200.8-DIS-PR		<input type="checkbox"/>	df - metals	
1304547-006A	MW-30_04172013	4/17/2013 1025h	4/19/2013 1040h	200.8-DIS <i>2 SEL Analytes: SE U</i>	Aqueous	<input checked="" type="checkbox"/>	df - metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - metals	
1304547-006B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	

**WORK ORDER Summary**Work Order: **1304547** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 4/30/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304547-006C	MW-30_04172013	4/17/2013 1025h	4/19/2013 1040h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1304547-007A	MW-35_04172013	4/17/2013 1200h	4/19/2013 1040h	200.8-DIS <i>6 SEL Analytes: CD MN MO SE TL U</i>	Aqueous	<input checked="" type="checkbox"/>	df - metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - metals	
1304547-008A	MW-65_04172013	4/17/2013 1050h	4/19/2013 1040h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous	<input checked="" type="checkbox"/>	df - metals	1
				200.8-DIS-PR		<input type="checkbox"/>	df - metals	
1304547-009A	Trip Blank	4/17/2013	4/19/2013 1040h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3

Client Energy Fuels  
 Address 6425 S Hwy 191  
Blanding UT 84511  
 City State Zip  
 Phone 435 678 2221 Fax \_\_\_\_\_  
 Contact Garrin Palmer  
 E-mail gpalmer@energyfuels.com  
 Project Name April Groundwater 2013  
 Project Number/P.O.# \_\_\_\_\_  
 Sampler Name Tanner Holliday



AMERICAN WEST ANALYTICAL LABORATORIES  
 463 West 3600 South Salt Lake City, Utah 84115  
**CHAIN OF CUSTODY**  
 (801) 263-8686  
 (888) 263-8686  
 Fax (801) 263-8687  
 Email: awal@awal-labs.com

Lab Sample Set # 1304547  
 Page 1 of 2  
 Turn Around Time (Circle One)  
 1 day 2 day 3 day 4 day 5 day Standard

Sample ID

Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED								QC LEVEL			COMMENTS				
			Manganese	Uranium	Cadmium	Nitrate + Nitrite	chloro & Dichloro*	Chloride	Selenium	TDS	Sulfate	1	2		2+			
MW-11_04162013		4/16/2013 1110	W	1	X													
MW-14_04162013		4/16/2013 1500	W	1	X													All Metals
MW-25_04172013		4/17/2013 1050	W	1		X	X											Arc Field Filtered
MW-26_04172013		4/17/2013 1430	W	6		X		X	X	X								
MW-31_04162013		4/16/2013 1300	W	3				X		X	X	X						
MW-30_04172013		4/17/2013 1025	W	3		X		X		X	X							

LABORATORY USE ONLY

SAMPLES WERE: 45

1 Shipped or hand delivered  
 Notes: \_\_\_\_\_

2 Ambient or Chilled  
 Notes: \_\_\_\_\_

3 Temperature 15

4 Received Broken/Leaking (Improperly Sealed)  
 Y N  
 Notes: \_\_\_\_\_

5 Properly Preserved  
Y N  
 Checked at Bench  
 Y N  
 Notes: \_\_\_\_\_

6 Received Within Holding Times  
Y N  
 Notes: \_\_\_\_\_

Relinquished By: Signature <u>Tanner Holliday</u>	Date <u>4/18/13</u>	Received By: Signature <u>Amber Cluff</u>	Date <u>4/18/13</u>
PRINT NAME <u>Tanner Holliday</u>	Time <u>1100</u>	PRINT NAME <u>Amber Cluff</u>	Time <u>10:40</u>
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:  
\* per Kathy Weinel;  
chloro = chloroform  
dichloro = dichloromethane  
-RW 4/25/13

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 N  
 Notes: \_\_\_\_\_

Client \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_ City State Zip  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Contact \_\_\_\_\_  
 E-mail Same as  
 Project Name \_\_\_\_\_  
 Project Number/P.O.# Page 1  
 Sampler Name \_\_\_\_\_



**AMERICAN WEST ANALYTICAL LABORATORIES**  
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**CHAIN OF CUSTODY**

Lab Sample Set # 1304547  
 Page 2 of 2

Turn Around Time (Circle One)  
 1 day 2 day 3 day 4 day 5 day Standard

Project Name \_\_\_\_\_  
 Project Number/P.O.# \_\_\_\_\_  
 Sampler Name \_\_\_\_\_

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED							QC LEVEL			COMMENTS	
				Molybdenum	Uranium	Selenium	Manganese	Thallium	Cadmium	Chloro & Dichloro*	1	2	2+		
MW-35_04172013	4/17/2013 1200	w	1	X	X	X	X	X				<u>3</u>	3+	4	All Metals
MW-65_04172013	4/17/2013 1050	w	1		X					X					are field filtered.
Trip Blank	4/17/2013	w								X					
Temp Blank	4/18/2013	w	1												

LABORATORY USE ONLY

SAMPLES WERE: UPS

1 Shipped or hand delivered  
 Notes: \_\_\_\_\_

2 Ambient or Chilled  
 Notes: \_\_\_\_\_

3 Temperature 1.5

4 Received Broken/Leaking (Improperly Sealed)  
 Y N  
 Notes: \_\_\_\_\_

5 Properly Preserved  
 Y N  
 Checked at Bench  
 Y N  
 Notes: \_\_\_\_\_

6 Received Within Holding Times  
 Y N  
 Notes: \_\_\_\_\_

Relinquished By: Signature <u>Tanner Holliday</u>	Date <u>4/18/13</u>	Received By: Signature <u>Amber Cluff</u>	Date <u>4/18/13</u>
PRINT NAME <u>Tanner Holliday</u>	Time <u>1100</u>	PRINT NAME <u>Amber Cluff</u>	Time <u>10:40</u>
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:  
4/18/13  
\* per Kathy Weinel:  
chloro = chloroform  
dichloro = dichloromethane  
-RW 4/25/13

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  
 Notes: \_\_\_\_\_

Sample Set: 1304547

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	Except 001	Except 002	Except 003	Except 004	Except 005	Except 006	Except 007	Except 008								
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO <sub>3</sub>		Yes															
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>					Yes	Yes	Yes										
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
O & G	pH <2 HCL																	
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>																	
TOX	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
TPH	pH <2 HCL																	

10/4/19

- 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



May 02, 2013

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

Re: White Mesa Mill GW  
Work Order: 324225

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 19, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 324225**

**May 02, 2013**

**Laboratory Identification:**

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

**Summary:**

**Sample receipt:** The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on April 19, 2013 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
324225001	MW-35_04172013

**Case Narrative:**

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

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

*Heather Shaffer*

Heather Shaffer  
Project Manager



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DAMI</u>		SDG/AR/COC/Work Order: <u>DAMI 234225</u>
Received By: <u>P. Went</u>		Date Received: <u>4-19-13</u>
<b>Suspected Hazard Information</b>	Yes	No
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>
Package, COC, and/or Samples marked as beryllium or asbestos containing?		<input checked="" type="checkbox"/>
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>

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) <u>19</u>
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>61524646</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
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"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
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"/>			
14 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8015 5301 8052</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 02-MAY-13  
 Work Order: 324225  
 Page 1 of 2

GEL Work Order/SDG: 324225      April Ground Water 2013  
 Client SDG: 324225  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 10-MAY-13  
 Package Due Date: 08-MAY-13  
 EDD Due Date: 10-MAY-13  
 Due Date: 10-MAY-13  
 HXS1

Collector: C  
 Prelogin #: 20130402660  
 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
324225001	MW-35_04172013		17-APR-13 12:00	19-APR-13 09:50	-2	1	GROUND WATER		21		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_04172013	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed y	

Product: GFCTORAL      Workdef ID: 1297250      In Product Group? No      Group Name:      Group Reference:  
 Method: EPA 900.1 Modified      Path: Standard  
 Product Description: GFPC, Total Alpha Radium, Liquid      Product Reference: Gross Alpha  
 Samples: 001      Moisture Correction: "As Received"

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	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

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

# GEL Laboratories LLC – Login Review Report

Report Date: 02-MAY-13

Work Order: 324225

Page 2 of 2

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

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 324225**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1296569

<b>Sample ID</b>	<b>Client ID</b>
324225001	MW-35_04172013
1202862712	Method Blank (MB)
1202862713	324225001(MW-35_04172013) Sample Duplicate (DUP)
1202862714	324225001(MW-35_04172013) Matrix Spike (MS)
1202862715	324225001(MW-35_04172013) Matrix Spike Duplicate (MSD)
1202862716	Laboratory Control Sample (LCS)

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

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 324225001 (MW-35\_04172013).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1202862714 (MW-35\_04172013) and 1202862715 (MW-35\_04172013), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**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: 324225 GEL Work Order: 324225

**The Qualifiers in this report are defined as follows:**

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

**Review/Validation**

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

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

**Signature:**



**Name: Kate Gellatly**

**Date: 03 MAY 2013**

**Title: Analyst I**

# GEL LABORATORIES LLC

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

## QC Summary

Report Date: May 3, 2013  
Page 1 of 2

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

Contact: Ms. Kathy Weinel

Workorder: 324225

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1296569										
QC1202862713	324225001	DUP									
Gross Radium Alpha		4.75		5.68	pCi/L	17.8		(0% - 20%)	KDF1	04/28/13	12:2
	Uncertainty	+/-0.569		+/-0.621							
QC1202862716	LCS										
Gross Radium Alpha	555			505	pCi/L		90.9	(75%-125%)		04/28/13	12:2
	Uncertainty			+/-5.66							
QC1202862712	MB										
Gross Radium Alpha			U	0.194	pCi/L					04/28/13	12:2
	Uncertainty			+/-0.170							
QC1202862714	324225001	MS									
Gross Radium Alpha	2230	4.75		1960	pCi/L		87.5	(75%-125%)		04/28/13	12:2
	Uncertainty	+/-0.569		+/-21.9							
QC1202862715	324225001	MSD									
Gross Radium Alpha	2230	4.75		1990	pCi/L	1.57	88.9	(0%-20%)		04/28/13	12:2
	Uncertainty	+/-0.569		+/-22.2							

**Notes:**

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
- 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

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## QC Summary

Workorder: 324225

Page 2 of 2

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

^ 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 F2

Laboratory Analytical Reports – Accelerated Monitoring

June 2013



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-001  
**Client Sample ID:** MW-11\_06252013  
**Collection Date:** 6/25/2013 1105h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date</u>		<u>Date</u>	<u>Method</u>	<u>Reporting</u>	<u>Analytical</u>	<u>Qual</u>
		<u>Prepared</u>		<u>Analyzed</u>	<u>Used</u>	<u>Limit</u>	<u>Result</u>	
Manganese	mg/L	6/28/2013 0910h		7/3/2013 1920h	E200.8	0.0100	<b>0.135</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-002  
**Client Sample ID:** MW-14\_06252013  
**Collection Date:** 6/25/2013 1330h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	6/28/2013 0910h	7/3/2013 1936h	E200.8	0.0100	1.99	

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Kyle F. Gross  
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Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-003  
**Client Sample ID:** MW-25\_06242013  
**Collection Date:** 6/24/2013 1140h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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<u>Compound</u>	<u>Units</u>	<u>Date</u>		<u>Date</u>	<u>Method</u>	<u>Reporting</u>	<u>Analytical</u>	<u>Qual</u>
		<u>Prepared</u>		<u>Analyzed</u>	<u>Used</u>	<u>Limit</u>	<u>Result</u>	
Cadmium	mg/L	6/28/2013 0910h		7/2/2013 0355h	E200.8	0.000500	<b>0.00131</b>	
Uranium	mg/L	6/28/2013 0910h		7/2/2013 0355h	E200.8	0.000300	<b>0.00535</b>	

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Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-003  
**Client Sample ID:** MW-25\_06242013  
**Collection Date:** 6/24/2013 1140h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		7/1/2013 1611h	E300.0	10.0	<b>30.4</b>	

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Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-004  
**Client Sample ID:** MW-26\_06252013  
**Collection Date:** 6/25/2013 1500h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	6/28/2013 0910h	7/2/2013 0400h	E200.8	0.000300	<b>0.0713</b>	

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Jose Rocha  
QA Officer

# INORGANIC ANALYTICAL REPORT



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Sample ID:** 1306139-003  
**Client Sample ID:** MW-26\_06052013  
**Collection Date:** 6/5/2013 0855h  
**Received Date:** 6/7/2013 1000h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		6/10/2013 2119h	E300.0	10.0	77.9	
Nitrate/Nitrite (as N)	mg/L		6/13/2013 1740h	E353.2	1.00	2.11	

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Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-004  
**Client Sample ID:** MW-26\_06252013  
**Collection Date:** 6/25/2013 1500h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		7/1/2013 1634h	E300.0	10.0	<b>87.8</b>	
Nitrate/Nitrite (as N)	mg/L		7/5/2013 1718h	E353.2	1.00	<b>3.04</b>	'@

<sup>1</sup> - 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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Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Sample ID:** 1306139-003C  
**Client Sample ID:** MW-26\_06052013  
**Collection Date:** 6/5/2013 0855h  
**Received Date:** 6/7/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/8/2013 2019h

**Units:** µg/L      **Dilution Factor:** 50      **Method:** SW8260C

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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	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,520	2,500	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,440	2,500	97.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	2,480	2,500	99.3	80-124	
Surr: Toluene-d8	2037-26-5	2,390	2,500	95.7	77-129	

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

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**Analyzed:** 6/7/2013 2027h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	52.4	

Jose Rocha  
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	46.1	50.00	92.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	45.7	50.00	91.4	77-129	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-004D  
**Client Sample ID:** MW-26\_06252013  
**Collection Date:** 6/25/2013 1500h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/27/2013 2212h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	<b>12.1</b>	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.6	50.00	95.3	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	48.0	50.00	96.1	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-005  
**Client Sample ID:** MW-30\_06252013  
**Collection Date:** 6/25/2013 1030h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	6/28/2013	910h	7/2/2013	406h	E200.8	0.00500	0.0321	
Uranium	mg/L	6/28/2013	910h	7/23/2013	1643h	E200.8	0.000300	0.00822	^

^ - Reissue of a previously generated report. Information has been added. Information herein supersedes that of the previously issued reports.

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Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-005  
**Client Sample ID:** MW-30\_06252013  
**Collection Date:** 6/25/2013 1030h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		7/1/2013 1657h	E300.0	50.0	127	
Nitrate/Nitrite (as N)	mg/L		7/5/2013 1719h	E353.2	1.00	16.1	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-006  
**Client Sample ID:** MW-31\_06242013  
**Collection Date:** 6/24/2013 1315h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## **Analytical Results**

## **DISSOLVED METALS**

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<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Selenium	mg/L	6/28/2013 0910h	7/2/2013 0411h	E200.8	0.00500	<b>0.0737</b>	

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QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-006  
**Client Sample ID:** MW-31\_06242013  
**Collection Date:** 6/24/2013 1315h  
**Received Date:** 6/27/2013 1050h

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		7/1/2013 1351h	E300.0	50.0	179	
Nitrate/Nitrite (as N)	mg/L		7/5/2013 1720h	E353.2	2.00	20.0	
Sulfate	mg/L		7/1/2013 1351h	E300.0	50.0	659	!
Total Dissolved Solids	mg/L		6/28/2013 1330h	SM2540C	20.0	1,380	@

! - 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:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-007  
**Client Sample ID:** MW-35\_06242013  
**Collection Date:** 6/24/2013 1400h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	6/28/2013 0910h	7/3/2013 1941h	E200.8	0.0100	<b>0.243</b>	
Molybdenum	mg/L	6/28/2013 0910h	7/3/2013 1941h	E200.8	0.0100	< 0.0100	
Selenium	mg/L	6/28/2013 0910h	7/2/2013 0416h	E200.8	0.00500	<b>0.0136</b>	
Thallium	mg/L	6/28/2013 0910h	7/1/2013 2253h	E200.8	0.000500	<b>0.000946</b>	
Uranium	mg/L	6/28/2013 0910h	7/2/2013 0416h	E200.8	0.000300	<b>0.0193</b>	

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Jose Rocha  
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# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 23, 2013

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-35\_06242013      Project: DNMI00100  
Sample ID: 328448001      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 24-JUN-13 14:00  
Receive Date: 28-JUN-13  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha		3.24	+/-0.556	0.852	1.00	pCi/L		KDF1	07/19/13	1212 1313253	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-008  
**Client Sample ID:** MW-65-06252013  
**Collection Date:** 6/25/2013 1330h  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	6/28/2013 0910h	7/3/2013 1946h	E200.8	0.0100	<b>1.94</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Sample ID:** 1306139-009A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/5/2013  
**Received Date:** 6/7/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/8/2013 2000h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
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	

Surrogate	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	48.1	50.00	96.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.9	50.00	97.8	80-124	
Surr: Toluene-d8	2037-26-5	48.0	50.00	95.9	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Sample ID:** 1306566-009A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/24/2013  
**Received Date:** 6/27/2013 1050h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/27/2013 2153h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.3	50.00	96.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	47.9	50.00	95.7	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: June Monthly Groundwater 2013

Dear Garrin Palmer:

Lab Set ID: 1306566

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 9 sample(s) on 6/27/2013 for the analyses presented in the following report.

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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, 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.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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.

This is a revision to a report originally issued on 7/11/2013. Uranium has been added to sample MW-30\_06252013 (AWAL 1306566-005C). Pages 1 & 9 have been updated.

Thank You,

Approved by:

**Jose G. Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US  
Date: 2013.07.25 15:46:33 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Monthly Groundwater 2013  
**Lab Set ID:** 1306566  
**Date Received:** 6/27/2013 1050h

**Contact:** Garrin Palmer

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1306566-001A	MW-11_06252013	6/25/2013 1105h	Aqueous	ICPMS Metals, Dissolved
1306566-002A	MW-14_06252013	6/25/2013 1330h	Aqueous	ICPMS Metals, Dissolved
1306566-003A	MW-25_06242013	6/24/2013 1140h	Aqueous	ICPMS Metals, Dissolved
1306566-003B	MW-25_06242013	6/24/2013 1140h	Aqueous	Anions, E300.0
1306566-004A	MW-26_06252013	6/25/2013 1500h	Aqueous	ICPMS Metals, Dissolved
1306566-004B	MW-26_06252013	6/25/2013 1500h	Aqueous	Anions, E300.0
1306566-004C	MW-26_06252013	6/25/2013 1500h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306566-004D	MW-26_06252013	6/25/2013 1500h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306566-005A	MW-30_06252013	6/25/2013 1030h	Aqueous	Anions, E300.0
1306566-005B	MW-30_06252013	6/25/2013 1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306566-005C	MW-30_06252013	6/25/2013 1030h	Aqueous	ICPMS Metals, Dissolved
1306566-006A	MW-31_06242013	6/24/2013 1315h	Aqueous	Anions, E300.0
1306566-006A	MW-31_06242013	6/24/2013 1315h	Aqueous	Total Dissolved Solids, A2540C
1306566-006B	MW-31_06242013	6/24/2013 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306566-006C	MW-31_06242013	6/24/2013 1315h	Aqueous	ICPMS Metals, Dissolved
1306566-007A	MW-35_06242013	6/24/2013 1400h	Aqueous	ICPMS Metals, Dissolved
1306566-008A	MW-65-06252013	6/25/2013 1330h	Aqueous	ICPMS Metals, Dissolved
1306566-009A	Trip Blank	6/24/2013	Aqueous	VOA by GC/MS Method 8260C/5030C



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** June Monthly Groundwater 2013  
**Lab Set ID:** 1306566

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## Sample Receipt Information:

**Date of Receipt:** 6/27/2013  
**Date(s) of Collection:** 6/24 & 6/25/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The 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, DUP:

**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
1306566-004C	Nitrate/Nitrite	MS/MSD/RPD	Sample matrix interference and suspected sample non-homogeneity or matrix interference.
1306566-006A	Sulfate	MSD	Sample matrix interference

**Duplicate (DUP):** The RPD for TDS was outside of control limits due to suspected sample non-homogeneity or matrix interference.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** June Monthly Groundwater 2013  
**Lab Set ID:** 1306566

---

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 6/27/2013  
**Date(s) of Collection:** 6/24 & 6/25/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** One target analyte was observed above its reporting limit.

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

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

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

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

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

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

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-26334</b>		Date Analyzed: 07/01/2013 2224h											
<b>Test Code: 200.8-DIS</b>		Date Prepared: 06/28/2013 0910h											
Thallium	0.190	mg/L	E200.8	0.000222	0.00200	0.2000	0	95.1	85 - 115				
<b>Lab Sample ID: LCS-26334</b>		Date Analyzed: 07/02/2013 0302h											
<b>Test Code: 200.8-DIS</b>		Date Prepared: 06/28/2013 0910h											
Cadmium	0.199	mg/L	E200.8	0.0000726	0.000500	0.2000	0	99.3	85 - 115				
Selenium	0.180	mg/L	E200.8	0.000686	0.00200	0.2000	0	90.0	85 - 115				
Uranium	0.178	mg/L	E200.8	0.0000598	0.00200	0.2000	0	88.9	85 - 115				
<b>Lab Sample ID: LCS-26334</b>		Date Analyzed: 07/03/2013 1915h											
<b>Test Code: 200.8-DIS</b>		Date Prepared: 06/28/2013 0910h											
Manganese	0.193	mg/L	E200.8	0.00166	0.00200	0.2000	0	96.4	85 - 115				
Molybdenum	0.190	mg/L	E200.8	0.000496	0.00200	0.2000	0	95.2	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:** 1306566

**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID:</b> MB-26334	Date Analyzed:	07/01/2013	2217h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/28/2013	0910h										
Thallium	< 0.000500	mg/L	E200.8	0.0000555	0.000500								
<b>Lab Sample ID:</b> MB-26334	Date Analyzed:	07/02/2013	0257h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/28/2013	0910h										
Cadmium	< 0.000500	mg/L	E200.8	0.00000726	0.000500								
Selenium	< 0.00500	mg/L	E200.8	0.0000686	0.00500								
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								
<b>Lab Sample ID:</b> MB-26334	Date Analyzed:	07/03/2013	1909h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/28/2013	0910h										
Manganese	< 0.0100	mg/L	E200.8	0.00166	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000496	0.0100								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

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

**Lab Set ID:** 1306566

**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID: 1306566-001AMS</b>													
Date Analyzed:		07/01/2013 2238h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Thallium	0.177	mg/L	E200.8	0.000222	0.00200	0.2000	0.000297	88.4	75 - 125				
<b>Lab Sample ID: 1306566-001AMS</b>													
Date Analyzed:		07/02/2013 0323h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Cadmium	0.182	mg/L	E200.8	0.0000726	0.000500	0.2000	0	91.2	75 - 125				
Selenium	0.174	mg/L	E200.8	0.000686	0.00200	0.2000	0	87.2	75 - 125				
Uranium	0.168	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000601	83.8	75 - 125				
<b>Lab Sample ID: 1306566-001AMS</b>													
Date Analyzed:		07/03/2013 1925h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Manganese	0.334	mg/L	E200.8	0.00166	0.00200	0.2000	0.135	99.4	75 - 125				
Molybdenum	0.200	mg/L	E200.8	0.000496	0.00200	0.2000	0.00225	98.8	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:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306566-001AMSD</b>													
Date Analyzed:		07/01/2013 2245h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Thallium	0.184	mg/L	E200.8	0.000222	0.00200	0.2000	0.000297	91.8	75 - 125	0.177	3.83	20	
<b>Lab Sample ID: 1306566-001AMSD</b>													
Date Analyzed:		07/02/2013 0329h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Cadmium	0.185	mg/L	E200.8	0.0000726	0.000500	0.2000	0	92.5	75 - 125	0.182	1.35	20	
Selenium	0.175	mg/L	E200.8	0.000686	0.00200	0.2000	0	87.3	75 - 125	0.174	0.201	20	
Uranium	0.173	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000601	86.4	75 - 125	0.168	3.03	20	
<b>Lab Sample ID: 1306566-001AMSD</b>													
Date Analyzed:		07/03/2013 1930h											
Test Code:		200.8-DIS											
Date Prepared:		06/28/2013 0910h											
Manganese	0.320	mg/L	E200.8	0.00166	0.00200	0.2000	0.135	92.3	75 - 125	0.334	4.31	20	
Molybdenum	0.189	mg/L	E200.8	0.000496	0.00200	0.2000	0.00225	93.1	75 - 125	0.2	5.85	20	



**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:** 1306566

**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID:</b> 1306566-006ADUP		Date Analyzed: 06/28/2013 1330h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	1,480	mg/L	SM2540C	8.00	20.0					1380	7.26	5	@

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



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-R56320</b> Date Analyzed: 07/01/2013 1328h													
Test Code: 300.0-W													
Chloride	5.23	mg/L	E300.0	0.0114	0.100	5.000	0	105	90 - 110				
Sulfate	5.40	mg/L	E300.0	0.177	0.750	5.000	0	108	90 - 110				
<b>Lab Sample ID: LCS-R56448</b> Date Analyzed: 07/05/2013 1714h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.930	mg/L	E353.2	0.00252	0.100	1.000	0	93.0	90 - 110				
<b>Lab Sample ID: LCS-R56236</b> Date Analyzed: 06/28/2013 1330h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	200	mg/L	SM2540C	4.00	10.0	205.0	0	97.6	80 - 120				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R56320</b> Date Analyzed: 07/01/2013 1304h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
<b>Lab Sample ID: MB-R56448</b> Date Analyzed: 07/05/2013 1712h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
<b>Lab Sample ID: MB-R56236</b> Date Analyzed: 06/28/2013 1330h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	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:** 1306566

**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID: 1306566-006AMS</b> Date Analyzed: 07/01/2013 1414h													
Test Code: 300.0-W													
Chloride	2,650	mg/L	E300.0	5.70	500	2,500	179	98.9	90 - 110				
Sulfate	3,310	mg/L	E300.0	88.5	500	2,500	659	106	90 - 110				
<b>Lab Sample ID: 1306566-004CMS</b> Date Analyzed: 07/05/2013 1727h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.9	mg/L	E353.2	0.0252	1.00	10.00	3.04	118	90 - 110				1

<sup>1</sup> - 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:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306566-006AMSD</b> Date Analyzed: 07/01/2013 1438h													
Test Code: 300.0-W													
Chloride	2,740	mg/L	E300.0	5.70	500	2,500	179	102	90 - 110	2650	3.33	20	
Sulfate	3,460	mg/L	E300.0	88.5	500	2,500	659	112	90 - 110	3310	4.16	20	1
<b>Lab Sample ID: 1306566-004CMSD</b> Date Analyzed: 07/05/2013 1726h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.4	mg/L	E353.2	0.0252	1.00	10.00	3.04	83.6	90 - 110	14.9	26.3	10	'@

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



463 West 3600 South  
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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 062713B</b> Date Analyzed: 06/27/2013 1821h													
Test Code: 8260-W													
Methylene chloride	18.5	µg/L	SW8260C	0.155	2.00	20.00	0	92.4	32 - 185				
Surr: 1,2-Dichloroethane-d4	51.7	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	46.7	µg/L	SW8260C			50.00		93.4	77 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.2	67 - 128				
Surr: Toluene-d8	48.2	µg/L	SW8260C			50.00		96.5	81 - 135				
<b>Lab Sample ID: LCS VOC 062813B</b> Date Analyzed: 06/28/2013 1650h													
Test Code: 8260-W													
Methylene chloride	19.5	µg/L	SW8260C	0.155	2.00	20.00	0	97.6	32 - 185				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	44.8	µg/L	SW8260C			50.00		89.6	77 - 121				
Surr: Dibromofluoromethane	49.4	µg/L	SW8260C			50.00		98.8	67 - 128				
Surr: Toluene-d8	47.4	µg/L	SW8260C			50.00		94.9	81 - 135				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB VOC 062713B</b> Date Analyzed: 06/27/2013 1900h													
Test Code: 8260-W													
Chloromethane	< 3.00	µg/L	SW8260C	0.127	3.00								
Methylene chloride	< 2.00	µg/L	SW8260C	0.155	2.00								
Surr: 1,2-Dichloroethane-d4	52.4	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	77 - 121				
Surr: Dibromofluoromethane	48.7	µg/L	SW8260C			50.00		97.3	67 - 128				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		95.9	81 - 135				
<b>Lab Sample ID: MB VOC 062713B</b> Date Analyzed: 06/27/2013 1900h													
Test Code: 8260-W													
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	52.4	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	77 - 121				
Surr: Dibromofluoromethane	48.7	µg/L	SW8260C			50.00		97.3	67 - 128				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		95.9	81 - 135				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

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

**Lab Set ID:** 1306566

**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer

**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
<b>Lab Sample ID: 1306585-001AMS</b>													
Date Analyzed: 06/27/2013 1939h													
Test Code: 8260-W													
Methylene chloride	18.0	µg/L	SW8260C	0.155	2.00	20.00	0	90.1	30 - 192				
Surr: 1,2-Dichloroethane-d4	53.0	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	45.8	µg/L	SW8260C			50.00		91.7	80 - 128				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.6	80 - 124				
Surr: Toluene-d8	47.8	µg/L	SW8260C			50.00		95.6	77 - 129				
<b>Lab Sample ID: 1306566-004DMS</b>													
Date Analyzed: 06/28/2013 2003h													
Test Code: 8260-W													
Methylene chloride	373	µg/L	SW8260C	3.10	40.0	400.0	12.1	90.1	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,040	µg/L	SW8260C			1,000		104	72 - 151				
Surr: 4-Bromofluorobenzene	930	µg/L	SW8260C			1,000		93.0	80 - 128				
Surr: Dibromofluoromethane	993	µg/L	SW8260C			1,000		99.3	80 - 124				
Surr: Toluene-d8	937	µg/L	SW8260C			1,000		93.7	77 - 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:** 1306566  
**Project:** June Monthly Groundwater 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306585-001AMSD</b> Date Analyzed: 06/27/2013 1958h													
Test Code: 8260-W													
Methylene chloride	18.0	µg/L	SW8260C	0.155	2.00	20.00	0	89.8	30 - 192	18	0.278	25	
Surr: 1,2-Dichloroethane-d4	52.0	µg/L	SW8260C			50.00		104	72 - 151				
Surr: 4-Bromofluorobenzene	45.4	µg/L	SW8260C			50.00		90.8	80 - 128				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.2	80 - 124				
Surr: Toluene-d8	47.5	µg/L	SW8260C			50.00		95.1	77 - 129				
<b>Lab Sample ID: 1306566-004DMSD</b> Date Analyzed: 06/28/2013 2023h													
Test Code: 8260-W													
Methylene chloride	369	µg/L	SW8260C	3.10	40.0	400.0	12.1	89.2	30 - 192	373	0.971	25	
Surr: 1,2-Dichloroethane-d4	1,040	µg/L	SW8260C			1,000		104	72 - 151				
Surr: 4-Bromofluorobenzene	906	µg/L	SW8260C			1,000		90.6	80 - 128				
Surr: Dibromofluoromethane	991	µg/L	SW8260C			1,000		99.1	80 - 124				
Surr: Toluene-d8	935	µg/L	SW8260C			1,000		93.5	77 - 129				

Uranium added to sample -005C. MH

**WORK ORDER Summary**

Work Order: **1306566** Page 1 of 2

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

Due Date: 7/25/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** June Monthly Groundwater 2013

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Metals have been field filtered. 7/23/2013: Uranium added on ASAP RUSH.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306566-001A	MW-11_06252013	6/25/2013 1105h	6/27/2013 1050h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df-dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df-dis met	
1306566-002A	MW-14_06252013	6/25/2013 1330h	6/27/2013 1050h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df-dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df-dis met	
1306566-003A	MW-25_06242013	6/24/2013 1140h	6/27/2013 1050h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous	<input checked="" type="checkbox"/>	df-dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df-dis met	
1306566-003B				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - cl	
1306566-004A	MW-26_06252013	6/25/2013 1500h	6/27/2013 1050h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous	<input checked="" type="checkbox"/>	df-dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df-dis met	
1306566-004B				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - cl	
1306566-004C				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306566-004D				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306566-005A	MW-30_06252013	6/25/2013 1030h	6/27/2013 1050h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - cl	1
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306566-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306566-005C				200.8-DIS <i>2 SEL Analytes: SE U</i>		<input checked="" type="checkbox"/>	df - dis met	
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1306566-006A	MW-31_06242013	6/24/2013 1315h	6/27/2013 1050h	300.0-W <i>2 SEL Analytes: CL SO4</i>	Aqueous	<input checked="" type="checkbox"/>	ww - tds / wc	1
				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds / wc	

# WORK ORDER Summary

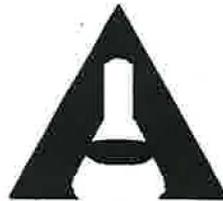
Work Order: **1306566** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 7/25/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306566-006B	MW-31_06242013	6/24/2013 1315h	6/27/2013 1050h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
1306566-006C				200.8-DIS <i>1 SEL Analytes: SE</i>		<input checked="" type="checkbox"/>	df - dis met	
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1306566-007A	MW-35_06242013	6/24/2013 1400h	6/27/2013 1050h	200.8-DIS <i>5 SEL Analytes: MN MO SE TL U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1306566-008A	MW-65-06252013	6/25/2013 1330h	6/27/2013 1050h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1306566-009A	Trip Blank	6/24/2013	6/27/2013 1050h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3

Client Energy Fuels  
 Address 6425 S Hwy 191  
Blanding UT 84511  
 City State Zip  
 Phone 435 678 2221 Fax \_\_\_\_\_  
 Contact Garrin Palmer  
 E-mail gpalmer@energyfuels.com  
 Project Name June Monthly Ground Water 2013  
 Project Number/P.O.# \_\_\_\_\_  
 Sampler Name Tanner Holliday



AMERICAN WEST ANALYTICAL LABORATORIES  
 463 West 3600 South Salt Lake City, Utah 84115  
**CHAIN OF CUSTODY**  
 (801) 263-8686 (888) 263-8686  
 Fax (801) 263-8687 Email: awal@awal-labs.com

Lab Sample Set # 1306566  
 Page 1 of 1  
 Turn Around Time (Circle One)  
 1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED										QC LEVEL			COMMENTS		
				Manganese	Uranium	Cadmium	Chloride	Nitrate + Nitrite	chloro & dichloro	Selenium	TDS	sulfate	Molybdenum	Thallium	1	2		2+	
MW-11_06252013	6/25/13 1105	W	1	X															
MW-14_06252013	6/25/13 1330	W	1	X															
MW-25_06242013	6/24/13 1140	W	2		X	X	X												
MW-26_06252013	6/25/13 1500	W	6		X		X	X	X										
MW-30_06252013	6/25/13 1030	W	3		X*		X	X		X									
MW-31_06242013	6/24/13 1315	W	5				X	X		X	X	X							
MW-35_06242013	6/24/13 1400	W	1	X	X					X				X	X				
MW-65_06252013	6/25/13 1330	W	1	X															
Trip Blank	6/24/13	W								X									
Temp Blank	6/26/13																		

LABORATORY USE ONLY

SAMPLES WERE:  
 Shipped or hand delivered  
 Notes: Fed Ex

2 Ambient or Chilled  
 Notes: \_\_\_\_\_

3 Temperature 1.9°C

4 Received Broken/Leaking (Improperly Sealed)  
 Y  N   
 Notes: \_\_\_\_\_

5 Properly Preserved  
 Y  N   
 Checked at Bench  
 Y  N   
 Notes: \_\_\_\_\_

6 Received Within Holding Times  
 Y  N   
 Notes: \_\_\_\_\_

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   
 Notes: \_\_\_\_\_

Relinquished By: Signature <u>Tanner Holliday</u>	Date <u>6/26/13</u>	Received By: Signature _____	Date _____
PRINT NAME <u>Tanner Holliday</u>	Time <u>1100</u>	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 <u>Renee Bruen</u>	Date <u>6/27/13</u>
PRINT NAME _____	Time _____	PRINT NAME _____	Time _____

Special Instructions:  
Metals are field filtered!

\* - per Kathy Weinel, Uranium added to sample MW-30\_0625201 (AWAL 1306566-005C). MH 7-22-13

**Preservation Check Sheet**

**Sample Set Extension and pH**

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>	yes																	
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>				yes	yes	yes												
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- 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



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Chloroform 2013

Dear Garrin Palmer:

Lab Set ID: 1306139

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 9 sample(s) on 6/7/2013 for the analyses presented in the following report.

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web: www.awal-labs.com

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, 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.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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

Thank You,

Approved by:

**Jose G.  
Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou=Quality  
Assurance Officer,  
email=jose@awal-labs.com,  
c=US  
Date: 2013.06.18 14:24:51  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Set ID:** 1306139  
**Date Received:** 6/7/2013 1000h

**Contact:** Garrin Palmer

463 West 3600 South  
 Salt Lake City, UT 84115

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1306139-001A	TW4-25_06052013	6/5/2013 0752h	Aqueous	Anions, E300.0
1306139-001B	TW4-25_06052013	6/5/2013 0752h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-001C	TW4-25_06052013	6/5/2013 0752h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-002A	TW4-24_06052013	6/5/2013 0812h	Aqueous	Anions, E300.0
1306139-002B	TW4-24_06052013	6/5/2013 0812h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-002C	TW4-24_06052013	6/5/2013 0812h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-003A	MW-26_06052013	6/5/2013 0855h	Aqueous	Anions, E300.0
1306139-003B	MW-26_06052013	6/5/2013 0855h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-003C	MW-26_06052013	6/5/2013 0855h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-004A	TW4-04_06052013	6/5/2013 0925h	Aqueous	Anions, E300.0
1306139-004B	TW4-04_06052013	6/5/2013 0925h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-004C	TW4-04_06052013	6/5/2013 0925h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-005A	MW-04_06052013	6/5/2013 0910h	Aqueous	Anions, E300.0
1306139-005B	MW-04_06052013	6/5/2013 0910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-005C	MW-04_06052013	6/5/2013 0910h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-006A	TW4-19_06052013	6/5/2013 1400h	Aqueous	Anions, E300.0
1306139-006B	TW4-19_06052013	6/5/2013 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-006C	TW4-19_06052013	6/5/2013 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-007A	TW4-22_06052013	6/5/2013 0830h	Aqueous	Anions, E300.0
1306139-007B	TW4-22_06052013	6/5/2013 0830h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-007C	TW4-22_06052013	6/5/2013 0830h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-008A	TW4-20_06052013	6/5/2013 0842h	Aqueous	Anions, E300.0
1306139-008B	TW4-20_06052013	6/5/2013 0842h	Aqueous	Nitrite/Nitrate (as N), E353.2
1306139-008C	TW4-20_06052013	6/5/2013 0842h	Aqueous	VOA by GC/MS Method 8260C/5030C
1306139-009A	Trip Blank	6/5/2013	Aqueous	VOA by GC/MS Method 8260C/5030C



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Set ID:** 1306139

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 6/7/2013  
**Date of Collection:** 6/5/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The 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, indicating no apparent matrix interferences.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Chloroform 2013  
**Lab Set ID:** 1306139

---

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Jose Rocha  
QA Officer

### **Sample Receipt Information:**

<b>Date of Receipt:</b>	6/7/2013
<b>Date of Collection:</b>	6/5/2013
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	None
<b>Method:</b>	SW-846 8260C/5030C
<b>Analysis:</b>	Volatile Organic Compounds

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

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

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

**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:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS-R55412</b>		Date Analyzed: 06/10/2013 1357h											
Test Code: 300.0-W													
Chloride	4.69	mg/L	E300.0	0.0114	1.00	5.000	0	93.8	90 - 110				
<b>Lab Sample ID: LCS-R55537</b>		Date Analyzed: 06/13/2013 1736h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.987	mg/L	E353.2	0.00252	0.100	1.000	0	98.7	90 - 110				



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB-R55412</b> Date Analyzed: 06/10/2013 1334h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
<b>Lab Sample ID: MB-R55537</b> Date Analyzed: 06/13/2013 1734h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001BMS</b> Date Analyzed: 06/10/2013 1640h													
Test Code: 300.0-W													
Chloride	24,000	mg/L	E300.0	57.0	5,000	25,000	61.3	95.6	90 - 110				
<b>Lab Sample ID: 1306139-001AMS</b> Date Analyzed: 06/10/2013 2010h													
Test Code: 300.0-W													
Chloride	2,500	mg/L	E300.0	5.70	500	2,500	136	94.7	90 - 110				
<b>Lab Sample ID: 1306139-003BMS</b> Date Analyzed: 06/13/2013 1741h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.3	mg/L	E353.2	0.0252	1.00	10.00	2.11	102	90 - 110				
<b>Lab Sample ID: 1306188-034AMS</b> Date Analyzed: 06/13/2013 1756h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00252	0.100	1.000	0	110	90 - 110				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306068-001BMSD</b> Date Analyzed: 06/10/2013 1703h													
Test Code: 300.0-W													
Chloride	23,700	mg/L	E300.0	57.0	5,000	25,000	61.3	94.5	90 - 110	24000	1.17	20	
<b>Lab Sample ID: 1306139-001AMSD</b> Date Analyzed: 06/10/2013 2033h													
Test Code: 300.0-W													
Chloride	2,480	mg/L	E300.0	5.70	500	2,500	136	93.8	90 - 110	2500	0.854	20	
<b>Lab Sample ID: 1306139-003BMSD</b> Date Analyzed: 06/13/2013 1743h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0252	1.00	10.00	2.11	97.7	90 - 110	12.3	3.49	10	
<b>Lab Sample ID: 1306188-034AMSD</b> Date Analyzed: 06/13/2013 1758h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00252	0.100	1.000	0	108	90 - 110	1.1	1.96	10	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: LCS VOC 060713B</b> Date Analyzed: 06/07/2013 1620h													
Test Code: 8260-W													
Chloroform	24.1	µg/L	SW8260C	0.277	2.00	20.00	0	120	67 - 132				
Methylene chloride	28.1	µg/L	SW8260C	0.155	2.00	20.00	0	140	32 - 185				
Surr: 1,2-Dichloroethane-d4	51.8	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	48.1	µg/L	SW8260C			50.00		96.2	77 - 121				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				
<b>Lab Sample ID: LCS VOC 060813B</b> Date Analyzed: 06/08/2013 1844h													
Test Code: 8260-W													
Chloroform	22.7	µg/L	SW8260C	0.277	2.00	20.00	0	114	67 - 132				
Methylene chloride	25.3	µg/L	SW8260C	0.155	2.00	20.00	0	127	32 - 185				
Surr: 1,2-Dichloroethane-d4	48.4	µg/L	SW8260C			50.00		96.8	76 - 138				
Surr: 4-Bromofluorobenzene	47.1	µg/L	SW8260C			50.00		94.2	77 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.5	67 - 128				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.3	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: MB VOC 060713B</b> Date Analyzed: 06/07/2013 1657h													
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	53.3	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	48.4	µg/L	SW8260C			50.00		96.9	77 - 121				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	48.1	µg/L	SW8260C			50.00		96.2	81 - 135				
<b>Lab Sample ID: MB VOC 060813B</b> Date Analyzed: 06/08/2013 1941h													
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	49.1	µg/L	SW8260C			50.00		98.1	76 - 138				
Surr: 4-Bromofluorobenzene	47.1	µg/L	SW8260C			50.00		94.2	77 - 121				
Surr: Dibromofluoromethane	48.3	µg/L	SW8260C			50.00		96.6	67 - 128				
Surr: Toluene-d8	47.8	µg/L	SW8260C			50.00		95.6	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306139-001CMS</b>		<b>Date Analyzed: 06/07/2013 2240h</b>											
<b>Test Code: 8260-W</b>													
Chloroform	27.9	µg/L	SW8260C	0.277	2.00	20.00	0	139	50 - 146				
Methylene chloride	27.9	µg/L	SW8260C	0.155	2.00	20.00	0	139	30 - 192				
Surr: 1,2-Dichloroethane-d4	55.3	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	46.0	µg/L	SW8260C			50.00		92.1	80 - 128				
Surr: Dibromofluoromethane	53.6	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		96.0	77 - 129				
<b>Lab Sample ID: 1306139-003CMS</b>		<b>Date Analyzed: 06/08/2013 2038h</b>											
<b>Test Code: 8260-W</b>													
Chloroform	5,190	µg/L	SW8260C	13.8	100	1,000	4030	117	50 - 146				
Methylene chloride	1,350	µg/L	SW8260C	7.75	100	1,000	55.5	129	30 - 192				
Surr: 1,2-Dichloroethane-d4	2,510	µg/L	SW8260C			2,500		100	72 - 151				
Surr: 4-Bromofluorobenzene	2,270	µg/L	SW8260C			2,500		90.8	80 - 128				
Surr: Dibromofluoromethane	2,490	µg/L	SW8260C			2,500		99.5	80 - 124				
Surr: Toluene-d8	2,350	µg/L	SW8260C			2,500		93.9	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1306139  
**Project:** 2nd Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**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
<b>Lab Sample ID: 1306139-001CMSD</b> Date Analyzed: 06/07/2013 2259h													
Test Code: 8260-W													
Chloroform	22.8	µg/L	SW8260C	0.277	2.00	20.00	0	114	50 - 146	27.9	19.9	25	
Methylene chloride	23.9	µg/L	SW8260C	0.155	2.00	20.00	0	120	30 - 192	27.9	15.3	25	
Surr: 1,2-Dichloroethane-d4	54.0	µg/L	SW8260C			50.00		108	72 - 151				
Surr: 4-Bromofluorobenzene	46.4	µg/L	SW8260C			50.00		92.8	80 - 128				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	80 - 124				
Surr: Toluene-d8	46.9	µg/L	SW8260C			50.00		93.8	77 - 129				
<b>Lab Sample ID: 1306139-003CMSD</b> Date Analyzed: 06/08/2013 2057h													
Test Code: 8260-W													
Chloroform	5,040	µg/L	SW8260C	13.8	100	1,000	4030	101	50 - 146	5190	3.01	25	
Methylene chloride	1,330	µg/L	SW8260C	7.75	100	1,000	55.5	127	30 - 192	1350	1.27	25	
Surr: 1,2-Dichloroethane-d4	2,540	µg/L	SW8260C			2,500		102	72 - 151				
Surr: 4-Bromofluorobenzene	2,360	µg/L	SW8260C			2,500		94.3	80 - 128				
Surr: Dibromofluoromethane	2,530	µg/L	SW8260C			2,500		101	80 - 124				
Surr: Toluene-d8	2,400	µg/L	SW8260C			2,500		96.1	77 - 129				

**WORK ORDER Summary**

Work Order: **1306139** Page 1 of 2

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

Due Date: 6/18/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Chloroform 2013

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet. EDD-Denison. Email Group.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306139-001A	TW4-25_06052013	6/5/2013 0752h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1306139-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306139-001C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306139-002A	TW4-24_06052013	6/5/2013 0812h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1306139-002B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306139-002C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306139-003A	MW-26_06052013	6/5/2013 0855h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1306139-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306139-003C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306139-004A	TW4-04_06052013	6/5/2013 0925h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1306139-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306139-004C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306139-005A	MW-04_06052013	6/5/2013 0910h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1306139-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1306139-005C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1306139-006A	TW4-19_06052013	6/5/2013 1400h	6/7/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1

# WORK ORDER Summary

Work Order: **1306139** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 6/18/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1306139-006B	TW4-19_06052013	6/5/2013 1400h	6/7/2013 1000h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
				1 SEL Analytes: NO3NO2N				
1306139-006C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1306139-007A	TW4-22_06052013	6/5/2013 0830h	6/7/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1306139-007B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1306139-007C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1306139-008A	TW4-20_06052013	6/5/2013 0842h	6/7/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1306139-008B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1306139-008C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1306139-009A	Trip Blank	6/5/2013	6/7/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				



Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO <sub>4</sub> E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Preservation Check Sheet

Sample Set Extension and pH

DB 6/7/13

Bottle Type	Preservative	All OK	Except -001	Except -002	Except -003	Except -004	Except -005	Except -006	Except -007	Except -008	Except						
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Cyanide	PH >12 NaOH																
Metals	pH <2 HNO <sub>3</sub>																
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		yes														
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>																
O & G	pH <2 HCL																
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>																
TOX	pH <2 H <sub>2</sub> SO <sub>4</sub>																
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TPH	pH <2 HCL																

- 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



July 24, 2013

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

Re: White Mesa Mill GW  
Work Order: 328448

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 28, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 328448**

**July 24, 2013**

**Laboratory Identification:**

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

**Summary:**

**Sample receipt:** The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on June 28, 2013 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
328448001	MW-35_06242013

**Case Narrative:**

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

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

*Heather Shaffer*

Heather Shaffer  
Project Manager



Client: <u>DNMI</u>	SDG/AR/COC/Work Order: <u>328448</u>
Received By: <u>H. Taylor</u>	Date Received: <u>062813</u>
<b>Suspected Hazard Information</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts):
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/> If yes, Were swipes taken of sample containers < action levels? <u>yes</u>
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/> If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/> Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>

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 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			<u>21</u>	Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>5105004</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
7 Are Encore containers present?	<input checked="" type="checkbox"/>			(If yes, immediately deliver to Volatiles laboratory)
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"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
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"/>			
14 Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other  <u>8015 5302 2088</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 24-JUL-13

Work Order: 328448

Page 1 of 2

GEL Work Order/SDG: 328448      June Monthly GW 2013  
 Client SDG: 328448  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 26-JUL-13  
 Package Due Date: 23-JUL-13  
 EDD Due Date: 26-JUL-13  
 Due Date: 26-JUL-13  
 HXS1

Collector: C  
 Prelogin #: 20130605020  
 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
328448001	MW-35_06242013		24-JUN-13 14:00	28-JUN-13 09:10	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_06242013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 21	

Product: GFCTORAL      Workdef ID: 1297250      In Product Group? No      Group Name:      Group Reference:

Method: EPA 900.1 Modified      Path: Standard

Product Description: GFPC, Total Alpha Radium, Liquid      Product Reference: Gross Alpha

Samples: 001      Moisture Correction: "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

Requirement	Include?	Comments

# GEL Laboratories LLC – Login Review Report

Report Date: 24-JUL-13

Work Order: 328448

Page 2 of 2

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

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 328448**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1313253

<b>Sample ID</b>	<b>Client ID</b>
328448001	MW-35_06242013
1202905136	Method Blank (MB)
1202905137	328448001(MW-35_06242013) Sample Duplicate (DUP)
1202905138	328448001(MW-35_06242013) Matrix Spike (MS)
1202905139	328448001(MW-35_06242013) Matrix Spike Duplicate (MSD)
1202905140	Laboratory Control Sample (LCS)

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

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 328448001 (MW-35\_06242013).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1202905138 (MW-35\_06242013) and 1202905139 (MW-35\_06242013), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**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: 328448 GEL Work Order: 328448

#### 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: Heather McCarty

Date: 23 JUL 2013

Title: Analyst II

# GEL LABORATORIES LLC

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

## QC Summary

Report Date: July 23, 2013

Page 1 of

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

**Contact: Ms. Kathy Weinel**

**Workorder: 328448**

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1313253										
QC1202905137	328448001	DUP									
Gross Radium Alpha		3.24		3.43	pCi/L	5.69		(0% - 100%)	KDF1	07/19/13	12:1
	Uncertainty	+/-0.556		+/-0.549							
QC1202905140	LCS										
Gross Radium Alpha	555			499	pCi/L		89.8	(75%-125%)		07/19/13	12:1
	Uncertainty			+/-6.90							
QC1202905136	MB										
Gross Radium Alpha			U	0.152	pCi/L					07/19/13	12:1
	Uncertainty			+/-0.206							
QC1202905138	328448001	MS									
Gross Radium Alpha	1120	3.24		883	pCi/L		78.2	(75%-125%)		07/19/13	12:1
	Uncertainty	+/-0.556		+/-11.8							
QC1202905139	328448001	MSD									
Gross Radium Alpha	1120	3.24		888	pCi/L	0.593	78.7	(0%-20%)		07/19/13	12:1
	Uncertainty	+/-0.556		+/-12.0							

**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
- 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



Tab G

Quality Assurance and Data Validation Tables

G-1A: Routine Field Data QA/QC Evaluation

Well	Sample Date	Time Req'd for 2 Casings	Time Pumped (min)	Amount Sufficient?	Conductance		RPD(%)	pH		RPD(%)	Temp (°C)		RPD(%)	Redox Potential (Eh)		RPD(%)	Turbidity (NTU)		>5 NTU	RPD(%)
MW-01	5/21/2013	182.65	225	Y	2083	2074	0.43	7.57	7.57	0.00	15.09	15.08	0.07	262	261	0.38	0	0	N	0.00
MW-02	5/21/2013	115.31	120	Y	4092	4100	0.20	7.45	7.45	0.00	15.79	15.73	0.38	341	341	0.00	0	0	N	0.00
MW-03	5/22/2013	50.28	60	Y	6294	6320	0.41	7.13	7.14	0.14	15.65	15.6	0.32	329	329	0.00	0	0	N	0.00
MW-03A	5/23/2013	64.42	55	Pumped dry	6605	6593	0.18	7.14	7.10	0.56	13.73	13.84	0.80	NM	NC	NC	NM	NM	N	NC
MW-05	5/14/2013	195.11	200	Y	3259	3280	0.64	8.01	8.01	0.00	15.40	15.41	0.06	165	162	1.83	0	0	N	0.00
MW-11	5/14/2013	257.34	260	Y	3176	3180	0.13	7.88	7.88	0.00	14.90	14.94	0.27	137	136	0.73	0	0	N	0.00
MW-12	5/15/2013	133.48	135	Y	4597	4597	0.00	7.20	7.19	0.14	14.76	14.74	0.14	322	319	0.94	6.6	6.7	Y	1.50
MW-14	5/14/2013	151.90	155	Y	4309	4313	0.09	7.38	7.39	0.14	15.00	14.98	0.13	278	275	1.08	0	0	N	0.00
MW-15	5/15/2013	186.45	190	Y	4719	4724	0.11	7.29	7.27	0.27	14.65	14.63	0.14	314	313	0.32	0	0	N	0.00
MW-17	5/22/2013	233.39	240	Y	4420	4415	0.11	7.12	7.12	0.00	15.00	15.00	0.00	301	300	0.33	150	145	Y	3.39
MW-18	5/20/2013	383.73	390	Y	3851	3850	0.03	6.96	6.97	0.14	14.71	14.69	0.14	329	323	1.84	13.5	13.5	Y	0.00
MW-19	5/20/2013	558.14	600	Y	1930	1931	0.05	7.15	7.16	0.14	14.75	14.79	0.27	345	342	0.87	18	18	Y	0.00
MW-20	6/3/2013	N/A	N/A	Bailed dry.	6772	6790	0.27	7.85	7.83	0.26	16.20	16.19	0.06	NM	NC	NC	NM	NM	N	NC
MW-22	5/22/2013	280.09	300	Y	8370	8365	0.06	5.15	5.18	0.58	15.05	15.04	0.07	437	439	0.46	3.7	3.8	N	2.67
MW-23	5/23/2013	112.70	95	Pumped dry	4306	4303	0.07	7.25	7.23	0.28	14.16	14.10	0.42	NM	NC	NC	NM	NM	N	NC
MW-24	5/22/2013	37.95	70	Y	4972	4978	0.12	6.76	6.77	0.15	13.00	12.95	0.39	NM	NC	NC	NM	NM	N	NC
MW-25	5/14/2013	252.65	255	Y	3556	3563	0.20	7.18	7.19	0.14	14.70	14.71	0.07	295	293	0.68	0	0	N	0.00
MW-26	5/23/2013	NA	NA		3756		NC	7.31		NC	14.50		NC	254		NC	1.5		N	NC
MW-27	5/21/2013	258.43	270	Y	1748	1747	0.06	7.58	7.58	0.00	14.93	14.94	0.07	331	331	0.00	0	0	N	0.00
MW-28	5/15/2013	204.62	210	Y	4579	4588	0.20	6.64	6.63	0.15	15.04	15.05	0.07	341	339	0.59	0	0	N	0.00
MW-29	5/23/2013	153.22	160	Y	5175	5171	0.08	6.90	6.88	0.29	14.56	14.56	0.00	232	233	0.43	64	65	Y	1.55
MW-30	5/15/2013	209.80	210	Y	2260	2247	0.58	7.52	7.54	0.27	14.96	14.98	0.13	276	274	0.73	0	0	N	0.00
MW-31	5/13/2013	376.99	390	Y	2228	2215	0.59	7.91	7.92	0.13	14.82	14.72	0.68	247	246	0.41	0	0	N	0.00
MW-32	5/13/2013	353.28	360	Y	4223	4225	0.05	7.15	7.10	0.70	14.73	14.71	0.14	195	193	1.03	53	54	Y	1.87
MW-35	5/13/2013	73.72	75	Y	4608	4612	0.09	7.34	7.33	0.14	15.19	15.20	0.07	230	224	2.64	0	0	N	0.00
MW-36	5/14/2013	68.36	75	Y	5456	5457	0.02	7.33	7.33	0.00	14.45	14.42	0.21	317	316	0.32	0	0	N	0.00
MW-37	6/3/2013	N/A	N/A	Bailed dry.	4595	4610	0.33	7.06	7.01	0.71	14.91	14.98	0.47	NM	NC	NC	NM	NM	N	NC

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.

MW-26 is a continuously pumped well.

Well was purged dry.

N/A = The amount of water in the well was insufficient to purge. The pump was not able to operate due to the minimal amount of water. The well was purged and sampled with a bailer.

RPD >10%. Per the revised QAPs Revisions 7.1 and 7.2, Attachment 2-3, when a well is purged to dryness, only pH, temperature and specific conductance parameters are required to be within 10% RPD. Redox potential and turbidity parameters are measured for information purposes only and as such are not required to meet the 10% RPD criteria used for pH, specific conductance and temperature.

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

NC = Not calculated.

Well was purged dry after 2 casing volumes were removed.

G-1B: Accelerated Field Data QA/QC Evaluation

Well	Sample Date	Time Req'd for 2 Casings	Time Pumped (min)	Amount Sufficient?	Conductance		RPD(%)	pH		RPD(%)	Temp (°C)		RPD(%)	Redox Potential (Eh)		RPD(%)	Turbidity (NTU)		<5 (NTU)	RPD(%)
<b>Accelerated October Monthly</b>																				
MW-11	4/16/2013	259.09	265	Y	2711	2709	0.07	6.17	6.17	0.00	14.56	14.55	0.07	236	236	0.00	16	15.9	N	0.63
MW-14	4/16/2013	148.53	160	Y	4190	4160	0.72	7.63	7.58	0.66	14.70	14.59	0.75	345	344	0.29	1.8	1.7	Y	5.71
MW-25	4/17/2013	243.74	250	Y	3461	3460	0.03	6.99	7.00	0.14	13.65	13.66	0.07	327	327	0.00	4.1	4.1	Y	0.00
MW-26	4/17/2013		NA		3622		NC	6.96		NC	13.64		NC	293		NC	1.0		Y	NC
MW-30	4/17/2013	205.52	210	Y	2173	2167	0.28	7.42	7.42	0.00	13.87	13.87	0.00	290	290	0.00	0	0	Y	0.00
MW-31	4/16/2013	373.68	385	Y	1916	1917	0.05	6.36	6.37	0.16	14.45	14.44	0.07	409	412	0.73	11	11	N	0.00
MW-35	4/17/2013	69.81	80	Y	4526	4525	0.02	6.95	6.96	0.14	14.03	14.04	0.07	297	295	0.68	0	0	Y	0.00
<b>Accelerated December Monthly</b>																				
MW-11	6/25/2013	257.70	270	Y	2843	2852	0.32	7.47	7.47	0.00	15.38	15.31	0.46	146	140	4.20	0	0	Y	0.00
MW-14	6/25/2013	151.36	160	Y	3884	3877	0.18	6.54	6.54	0.00	15.73	15.68	0.32	351	351	0.00	0	0	Y	0.00
MW-25	6/24/2013	252.89	270	Y	3180	3182	0.06	6.66	6.67	0.15	15.50	15.53	0.19	366	365	0.27	98	100	N	2.02
MW-26	6/5/2013*		NA		3840		NC	7.18		NC	15.46		NC	245		NC	0		Y	NC
MW-26	6/25/2013		NA		3400		NC	6.85		NC	16.07		NC	185		NC	0		Y	NC
MW-30	6/25/2013	209.44	220	Y	2025	2023	0.10	6.94	6.93	0.14	15.22	15.21	0.07	329	328	0.30	0	0	Y	0.00
MW-31	6/24/2013	377.95	390	Y	2009	2009	0.00	7.10	7.10	0.00	15.42	15.45	0.19	346	346	0.00	34	34	Y	0.00
MW-35	6/24/2013	73.72	75	Y	4063	4065	0.05	6.63	6.70	1.05	16.5	16.58	0.48	269	269	0.00	0	0	Y	0.00

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.

MW-26 is a continuously pumped well.

Chloroform and methylene chloride results are reported from the chloroform program sample collected June 5, 2013.

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-01	2-Butanone	5/21/2013	5/24/2013	3	14	OK
MW-01	Acetone	5/21/2013	5/24/2013	3	14	OK
MW-01	Ammonia (as N)	5/21/2013	6/3/2013	13	28	OK
MW-01	Arsenic	5/21/2013	5/30/2013	9	180	OK
MW-01	Benzene	5/21/2013	5/24/2013	3	14	OK
MW-01	Beryllium	5/21/2013	6/4/2013	14	180	OK
MW-01	Bicarbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-01	Cadmium	5/21/2013	5/30/2013	9	180	OK
MW-01	Calcium	5/21/2013	6/4/2013	14	180	OK
MW-01	Carbon tetrachloride	5/21/2013	5/24/2013	3	14	OK
MW-01	Carbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-01	Chloride	5/21/2013	5/24/2013	3	28	OK
MW-01	Chloroform	5/21/2013	5/24/2013	3	14	OK
MW-01	Chloromethane	5/21/2013	5/24/2013	3	14	OK
MW-01	Chromium	5/21/2013	5/30/2013	9	180	OK
MW-01	Cobalt	5/21/2013	5/30/2013	9	180	OK
MW-01	Copper	5/21/2013	6/3/2013	13	180	OK
MW-01	Fluoride	5/21/2013	5/25/2013	4	27	OK
MW-01	Gross Radium Alpha	5/21/2013	6/5/2013	15	180	OK
MW-01	Iron	5/21/2013	6/4/2013	14	180	OK
MW-01	Lead	5/21/2013	5/31/2013	10	180	OK
MW-01	Magnesium	5/21/2013	6/4/2013	14	180	OK
MW-01	Manganese	5/21/2013	6/3/2013	13	180	OK
MW-01	Mercury	5/21/2013	5/29/2013	8	180	OK
MW-01	Methylene chloride	5/21/2013	5/24/2013	3	14	OK
MW-01	Molybdenum	5/21/2013	5/30/2013	9	180	OK
MW-01	Naphthalene	5/21/2013	5/24/2013	3	14	OK
MW-01	Nickel	5/21/2013	5/30/2013	9	180	OK
MW-01	Nitrate/Nitrite (as N)	5/21/2013	6/3/2013	13	28	OK
MW-01	Potassium	5/21/2013	6/4/2013	14	180	OK
MW-01	Selenium	5/21/2013	5/30/2013	9	180	OK
MW-01	Silver	5/21/2013	5/30/2013	9	180	OK
MW-01	Sodium	5/21/2013	6/4/2013	14	180	OK
MW-01	Sulfate	5/21/2013	5/24/2013	3	28	OK
MW-01	Tetrahydrofuran	5/21/2013	5/24/2013	3	14	OK
MW-01	Thallium	5/21/2013	5/31/2013	10	180	OK
MW-01	Tin	5/21/2013	5/30/2013	9	180	OK
MW-01	Toluene	5/21/2013	5/24/2013	3	14	OK
MW-01	Total Dissolved Solids	5/21/2013	5/25/2013	4	7	OK
MW-01	Uranium	5/21/2013	5/30/2013	9	180	OK
MW-01	Vanadium	5/21/2013	6/4/2013	14	180	OK
MW-01	Xylenes, Total	5/21/2013	5/24/2013	3	14	OK
MW-01	Zinc	5/21/2013	5/30/2013	9	180	OK
MW-02	2-Butanone	5/21/2013	5/28/2013	7	14	OK
MW-02	Acetone	5/21/2013	5/28/2013	7	14	OK
MW-02	Ammonia (as N)	5/21/2013	6/3/2013	13	28	OK
MW-02	Arsenic	5/21/2013	5/30/2013	9	180	OK
MW-02	Benzene	5/21/2013	5/28/2013	7	14	OK
MW-02	Beryllium	5/21/2013	6/4/2013	14	180	OK
MW-02	Bicarbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-02	Cadmium	5/21/2013	5/30/2013	9	180	OK
MW-02	Calcium	5/21/2013	6/4/2013	14	180	OK
MW-02	Carbon tetrachloride	5/21/2013	5/28/2013	7	14	OK
MW-02	Carbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-02	Chloride	5/21/2013	5/25/2013	4	28	OK
MW-02	Chloroform	5/21/2013	5/28/2013	7	14	OK
MW-02	Chloromethane	5/21/2013	5/28/2013	7	14	OK
MW-02	Chromium	5/21/2013	5/30/2013	9	180	OK
MW-02	Cobalt	5/21/2013	5/30/2013	9	180	OK
MW-02	Copper	5/21/2013	6/3/2013	13	180	OK
MW-02	Fluoride	5/21/2013	5/25/2013	4	27	OK
MW-02	Gross Radium Alpha	5/21/2013	6/5/2013	15	180	OK
MW-02	Iron	5/21/2013	6/4/2013	14	180	OK
MW-02	Lead	5/21/2013	5/31/2013	10	180	OK
MW-02	Magnesium	5/21/2013	6/4/2013	14	180	OK
MW-02	Manganese	5/21/2013	6/3/2013	13	180	OK
MW-02	Mercury	5/21/2013	5/29/2013	8	180	OK
MW-02	Methylene chloride	5/21/2013	5/28/2013	7	14	OK
MW-02	Molybdenum	5/21/2013	5/30/2013	9	180	OK
MW-02	Naphthalene	5/21/2013	5/28/2013	7	14	OK
MW-02	Nickel	5/21/2013	5/30/2013	9	180	OK
MW-02	Nitrate/Nitrite (as N)	5/21/2013	6/3/2013	13	28	OK
MW-02	Potassium	5/21/2013	6/4/2013	14	180	OK
MW-02	Selenium	5/21/2013	5/30/2013	9	180	OK
MW-02	Silver	5/21/2013	5/30/2013	9	180	OK
MW-02	Sodium	5/21/2013	6/4/2013	14	180	OK
MW-02	Sulfate	5/21/2013	5/24/2013	3	28	OK
MW-02	Tetrahydrofuran	5/21/2013	5/28/2013	7	14	OK
MW-02	Thallium	5/21/2013	5/31/2013	10	180	OK
MW-02	Tin	5/21/2013	5/30/2013	9	180	OK
MW-02	Toluene	5/21/2013	5/28/2013	7	14	OK
MW-02	Total Dissolved Solids	5/21/2013	5/25/2013	4	7	OK
MW-02	Uranium	5/21/2013	5/30/2013	9	180	OK
MW-02	Vanadium	5/21/2013	6/4/2013	14	180	OK
MW-02	Xylenes, Total	5/21/2013	5/28/2013	7	14	OK
MW-02	Zinc	5/21/2013	5/30/2013	9	180	OK
MW-03	2-Butanone	5/22/2013	5/28/2013	6	14	OK
MW-03	Acetone	5/22/2013	5/28/2013	6	14	OK
MW-03	Ammonia (as N)	5/22/2013	6/3/2013	12	28	OK
MW-03	Arsenic	5/22/2013	5/30/2013	8	180	OK
MW-03	Benzene	5/22/2013	5/28/2013	6	14	OK
MW-03	Beryllium	5/22/2013	6/4/2013	13	180	OK
MW-03	Bicarbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-03	Cadmium	5/22/2013	5/30/2013	8	180	OK
MW-03	Calcium	5/22/2013	6/4/2013	13	180	OK
MW-03	Carbon tetrachloride	5/22/2013	5/28/2013	6	14	OK
MW-03	Carbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-03	Chloride	5/22/2013	5/24/2013	2	28	OK
MW-03	Chloroform	5/22/2013	5/28/2013	6	14	OK
MW-03	Chloromethane	5/22/2013	5/28/2013	6	14	OK
MW-03	Chromium	5/22/2013	5/30/2013	8	180	OK
MW-03	Cobalt	5/22/2013	5/30/2013	8	180	OK
MW-03	Copper	5/22/2013	6/3/2013	12	180	OK
MW-03	Fluoride	5/22/2013	5/25/2013	3	27	OK
MW-03	Gross Radium Alpha	5/22/2013	6/5/2013	14	180	OK
MW-03	Iron	5/22/2013	6/4/2013	13	180	OK
MW-03	Lead	5/22/2013	5/31/2013	9	180	OK
MW-03	Magnesium	5/22/2013	6/4/2013	13	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03	Manganese	5/22/2013	6/3/2013	12	180	OK
MW-03	Mercury	5/22/2013	5/29/2013	7	180	OK
MW-03	Methylene chloride	5/22/2013	5/28/2013	6	14	OK
MW-03	Molybdenum	5/22/2013	5/30/2013	8	180	OK
MW-03	Naphthalene	5/22/2013	5/28/2013	6	14	OK
MW-03	Nickel	5/22/2013	5/30/2013	8	180	OK
MW-03	Nitrate/Nitrite (as N)	5/22/2013	6/3/2013	12	28	OK
MW-03	Potassium	5/22/2013	6/4/2013	13	180	OK
MW-03	Selenium	5/22/2013	5/30/2013	8	180	OK
MW-03	Silver	5/22/2013	5/30/2013	8	180	OK
MW-03	Sodium	5/22/2013	6/4/2013	13	180	OK
MW-03	Sulfate	5/22/2013	5/24/2013	2	28	OK
MW-03	Tetrahydrofuran	5/22/2013	5/28/2013	6	14	OK
MW-03	Thallium	5/22/2013	5/31/2013	9	180	OK
MW-03	Tin	5/22/2013	5/30/2013	8	180	OK
MW-03	Toluene	5/22/2013	5/28/2013	6	14	OK
MW-03	Total Dissolved Solids	5/22/2013	5/25/2013	3	7	OK
MW-03	Uranium	5/22/2013	5/30/2013	8	180	OK
MW-03	Vanadium	5/22/2013	6/4/2013	13	180	OK
MW-03	Xylenes, Total	5/22/2013	5/28/2013	6	14	OK
MW-03	Zinc	5/22/2013	5/30/2013	8	180	OK
MW-03A	2-Butanone	5/23/2013	5/28/2013	5	14	OK
MW-03A	Acetone	5/23/2013	5/28/2013	5	14	OK
MW-03A	Ammonia (as N)	5/23/2013	6/3/2013	11	28	OK
MW-03A	Arsenic	5/23/2013	5/30/2013	7	180	OK
MW-03A	Benzene	5/23/2013	5/28/2013	5	14	OK
MW-03A	Beryllium	5/23/2013	6/4/2013	12	180	OK
MW-03A	Bicarbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-03A	Cadmium	5/23/2013	5/30/2013	7	180	OK
MW-03A	Calcium	5/23/2013	6/4/2013	12	180	OK
MW-03A	Carbon tetrachloride	5/23/2013	5/28/2013	5	14	OK
MW-03A	Carbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-03A	Chloride	5/23/2013	5/24/2013	1	28	OK
MW-03A	Chloroform	5/23/2013	5/28/2013	5	14	OK
MW-03A	Chloromethane	5/23/2013	5/28/2013	5	14	OK
MW-03A	Chromium	5/23/2013	5/30/2013	7	180	OK
MW-03A	Cobalt	5/23/2013	5/30/2013	7	180	OK
MW-03A	Copper	5/23/2013	6/3/2013	11	180	OK
MW-03A	Fluoride	5/23/2013	5/25/2013	2	27	OK
MW-03A	Gross Radium Alpha	5/23/2013	6/5/2013	13	180	OK
MW-03A	Iron	5/23/2013	6/4/2013	12	180	OK
MW-03A	Lead	5/23/2013	5/31/2013	8	180	OK
MW-03A	Magnesium	5/23/2013	6/4/2013	12	180	OK
MW-03A	Manganese	5/23/2013	6/3/2013	11	180	OK
MW-03A	Mercury	5/23/2013	5/29/2013	6	180	OK
MW-03A	Methylene chloride	5/23/2013	5/28/2013	5	14	OK
MW-03A	Molybdenum	5/23/2013	5/30/2013	7	180	OK
MW-03A	Naphthalene	5/23/2013	5/28/2013	5	14	OK
MW-03A	Nickel	5/23/2013	5/30/2013	7	180	OK
MW-03A	Nitrate/Nitrite (as N)	5/23/2013	6/3/2013	11	28	OK
MW-03A	Potassium	5/23/2013	6/4/2013	12	180	OK
MW-03A	Selenium	5/23/2013	5/30/2013	7	180	OK
MW-03A	Silver	5/23/2013	5/30/2013	7	180	OK
MW-03A	Sodium	5/23/2013	6/4/2013	12	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03A	Sulfate	5/23/2013	5/24/2013	1	28	OK
MW-03A	Tetrahydrofuran	5/23/2013	5/28/2013	5	14	OK
MW-03A	Thallium	5/23/2013	5/31/2013	8	180	OK
MW-03A	Tin	5/23/2013	5/30/2013	7	180	OK
MW-03A	Toluene	5/23/2013	5/28/2013	5	14	OK
MW-03A	Total Dissolved Solids	5/23/2013	5/25/2013	2	7	OK
MW-03A	Uranium	5/23/2013	5/30/2013	7	180	OK
MW-03A	Vanadium	5/23/2013	6/4/2013	12	180	OK
MW-03A	Xylenes, Total	5/23/2013	5/28/2013	5	14	OK
MW-03A	Zinc	5/23/2013	5/30/2013	7	180	OK
MW-05	2-Butanone	5/14/2013	5/19/2013	5	14	OK
MW-05	Acetone	5/14/2013	5/19/2013	5	14	OK
MW-05	Ammonia (as N)	5/14/2013	5/23/2013	9	28	OK
MW-05	Arsenic	5/14/2013	5/22/2013	8	180	OK
MW-05	Benzene	5/14/2013	5/19/2013	5	14	OK
MW-05	Beryllium	5/14/2013	5/22/2013	8	180	OK
MW-05	Bicarbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-05	Cadmium	5/14/2013	5/22/2013	8	180	OK
MW-05	Calcium	5/14/2013	5/29/2013	15	180	OK
MW-05	Carbon tetrachloride	5/14/2013	5/19/2013	5	14	OK
MW-05	Carbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-05	Chloride	5/14/2013	5/20/2013	6	28	OK
MW-05	Chloroform	5/14/2013	5/19/2013	5	14	OK
MW-05	Chloromethane	5/14/2013	5/19/2013	5	14	OK
MW-05	Chromium	5/14/2013	5/22/2013	8	180	OK
MW-05	Cobalt	5/14/2013	5/22/2013	8	180	OK
MW-05	Copper	5/14/2013	5/22/2013	8	180	OK
MW-05	Fluoride	5/14/2013	5/21/2013	7	27	OK
MW-05	Gross Radium Alpha	5/14/2013	5/25/2013	11	180	OK
MW-05	Iron	5/14/2013	5/22/2013	8	180	OK
MW-05	Lead	5/14/2013	5/22/2013	8	180	OK
MW-05	Magnesium	5/14/2013	5/28/2013	14	180	OK
MW-05	Manganese	5/14/2013	5/22/2013	8	180	OK
MW-05	Mercury	5/14/2013	5/21/2013	7	180	OK
MW-05	Methylene chloride	5/14/2013	5/19/2013	5	14	OK
MW-05	Molybdenum	5/14/2013	5/22/2013	8	180	OK
MW-05	Naphthalene	5/14/2013	5/19/2013	5	14	OK
MW-05	Nickel	5/14/2013	5/22/2013	8	180	OK
MW-05	Nitrate/Nitrite (as N)	5/14/2013	5/24/2013	10	28	OK
MW-05	Potassium	5/14/2013	5/28/2013	14	180	OK
MW-05	Selenium	5/14/2013	5/22/2013	8	180	OK
MW-05	Silver	5/14/2013	5/22/2013	8	180	OK
MW-05	Sodium	5/14/2013	5/28/2013	14	180	OK
MW-05	Sulfate	5/14/2013	5/20/2013	6	28	OK
MW-05	Tetrahydrofuran	5/14/2013	5/19/2013	5	14	OK
MW-05	Thallium	5/14/2013	5/22/2013	8	180	OK
MW-05	Tin	5/14/2013	5/24/2013	10	180	OK
MW-05	Toluene	5/14/2013	5/19/2013	5	14	OK
MW-05	Total Dissolved Solids	5/14/2013	5/17/2013	3	7	OK
MW-05	Uranium	5/14/2013	5/22/2013	8	180	OK
MW-05	Vanadium	5/14/2013	5/28/2013	14	180	OK
MW-05	Xylenes, Total	5/14/2013	5/19/2013	5	14	OK
MW-05	Zinc	5/14/2013	5/22/2013	8	180	OK
MW-11	2-Butanone	5/14/2013	5/19/2013	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-11	Acetone	5/14/2013	5/19/2013	5	14	OK
MW-11	Ammonia (as N)	5/14/2013	5/23/2013	9	28	OK
MW-11	Arsenic	5/14/2013	5/22/2013	8	180	OK
MW-11	Benzene	5/14/2013	5/19/2013	5	14	OK
MW-11	Beryllium	5/14/2013	5/22/2013	8	180	OK
MW-11	Bicarbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-11	Cadmium	5/14/2013	5/22/2013	8	180	OK
MW-11	Calcium	5/14/2013	5/29/2013	15	180	OK
MW-11	Carbon tetrachloride	5/14/2013	5/19/2013	5	14	OK
MW-11	Carbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-11	Chloride	5/14/2013	5/20/2013	6	28	OK
MW-11	Chloroform	5/14/2013	5/19/2013	5	14	OK
MW-11	Chloromethane	5/14/2013	5/19/2013	5	14	OK
MW-11	Chromium	5/14/2013	5/22/2013	8	180	OK
MW-11	Cobalt	5/14/2013	5/22/2013	8	180	OK
MW-11	Copper	5/14/2013	5/22/2013	8	180	OK
MW-11	Fluoride	5/14/2013	5/21/2013	7	27	OK
MW-11	Gross Radium Alpha	5/14/2013	5/25/2013	11	180	OK
MW-11	Iron	5/14/2013	5/22/2013	8	180	OK
MW-11	Lead	5/14/2013	5/22/2013	8	180	OK
MW-11	Magnesium	5/14/2013	5/29/2013	15	180	OK
MW-11	Manganese	5/14/2013	5/22/2013	8	180	OK
MW-11	Mercury	5/14/2013	5/21/2013	7	180	OK
MW-11	Methylene chloride	5/14/2013	5/19/2013	5	14	OK
MW-11	Molybdenum	5/14/2013	5/22/2013	8	180	OK
MW-11	Naphthalene	5/14/2013	5/19/2013	5	14	OK
MW-11	Nickel	5/14/2013	5/22/2013	8	180	OK
MW-11	Nitrate/Nitrite (as N)	5/14/2013	5/24/2013	10	28	OK
MW-11	Potassium	5/14/2013	5/28/2013	14	180	OK
MW-11	Selenium	5/14/2013	5/22/2013	8	180	OK
MW-11	Silver	5/14/2013	5/22/2013	8	180	OK
MW-11	Sodium	5/14/2013	5/28/2013	14	180	OK
MW-11	Sulfate	5/14/2013	5/20/2013	6	28	OK
MW-11	Tetrahydrofuran	5/14/2013	5/19/2013	5	14	OK
MW-11	Thallium	5/14/2013	5/22/2013	8	180	OK
MW-11	Tin	5/14/2013	5/24/2013	10	180	OK
MW-11	Toluene	5/14/2013	5/19/2013	5	14	OK
MW-11	Total Dissolved Solids	5/14/2013	5/17/2013	3	7	OK
MW-11	Uranium	5/14/2013	5/22/2013	8	180	OK
MW-11	Vanadium	5/14/2013	5/28/2013	14	180	OK
MW-11	Xylenes, Total	5/14/2013	5/19/2013	5	14	OK
MW-11	Zinc	5/14/2013	5/22/2013	8	180	OK
MW-12	2-Butanone	5/15/2013	5/19/2013	4	14	OK
MW-12	Acetone	5/15/2013	5/19/2013	4	14	OK
MW-12	Ammonia (as N)	5/15/2013	5/23/2013	8	28	OK
MW-12	Arsenic	5/15/2013	5/22/2013	7	180	OK
MW-12	Benzene	5/15/2013	5/19/2013	4	14	OK
MW-12	Beryllium	5/15/2013	5/22/2013	7	180	OK
MW-12	Bicarbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-12	Cadmium	5/15/2013	5/22/2013	7	180	OK
MW-12	Calcium	5/15/2013	5/24/2013	9	180	OK
MW-12	Carbon tetrachloride	5/15/2013	5/19/2013	4	14	OK
MW-12	Carbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-12	Chloride	5/15/2013	5/20/2013	5	28	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-12	Chloroform	5/15/2013	5/19/2013	4	14	OK
MW-12	Chloromethane	5/15/2013	5/19/2013	4	14	OK
MW-12	Chromium	5/15/2013	5/22/2013	7	180	OK
MW-12	Cobalt	5/15/2013	5/22/2013	7	180	OK
MW-12	Copper	5/15/2013	5/22/2013	7	180	OK
MW-12	Fluoride	5/15/2013	5/21/2013	6	27	OK
MW-12	Gross Radium Alpha	5/15/2013	5/25/2013	10	180	OK
MW-12	Iron	5/15/2013	5/22/2013	7	180	OK
MW-12	Lead	5/15/2013	5/22/2013	7	180	OK
MW-12	Magnesium	5/15/2013	5/24/2013	9	180	OK
MW-12	Manganese	5/15/2013	5/22/2013	7	180	OK
MW-12	Mercury	5/15/2013	5/21/2013	6	180	OK
MW-12	Methylene chloride	5/15/2013	5/19/2013	4	14	OK
MW-12	Molybdenum	5/15/2013	5/22/2013	7	180	OK
MW-12	Naphthalene	5/15/2013	5/19/2013	4	14	OK
MW-12	Nickel	5/15/2013	5/22/2013	7	180	OK
MW-12	Nitrate/Nitrite (as N)	5/15/2013	5/24/2013	9	28	OK
MW-12	Potassium	5/15/2013	5/28/2013	13	180	OK
MW-12	Selenium	5/15/2013	5/22/2013	7	180	OK
MW-12	Silver	5/15/2013	5/22/2013	7	180	OK
MW-12	Sodium	5/15/2013	5/28/2013	13	180	OK
MW-12	Sulfate	5/15/2013	5/20/2013	5	28	OK
MW-12	Tetrahydrofuran	5/15/2013	5/19/2013	4	14	OK
MW-12	Thallium	5/15/2013	5/22/2013	7	180	OK
MW-12	Tin	5/15/2013	5/24/2013	9	180	OK
MW-12	Toluene	5/15/2013	5/19/2013	4	14	OK
MW-12	Total Dissolved Solids	5/15/2013	5/17/2013	2	7	OK
MW-12	Uranium	5/15/2013	5/22/2013	7	180	OK
MW-12	Vanadium	5/15/2013	5/28/2013	13	180	OK
MW-12	Xylenes, Total	5/15/2013	5/19/2013	4	14	OK
MW-12	Zinc	5/15/2013	5/22/2013	7	180	OK
MW-14	2-Butanone	5/14/2013	5/19/2013	5	14	OK
MW-14	Acetone	5/14/2013	5/19/2013	5	14	OK
MW-14	Ammonia (as N)	5/14/2013	5/23/2013	9	28	OK
MW-14	Arsenic	5/14/2013	5/22/2013	8	180	OK
MW-14	Benzene	5/14/2013	5/19/2013	5	14	OK
MW-14	Beryllium	5/14/2013	5/22/2013	8	180	OK
MW-14	Bicarbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-14	Cadmium	5/14/2013	5/22/2013	8	180	OK
MW-14	Calcium	5/14/2013	5/29/2013	15	180	OK
MW-14	Carbon tetrachloride	5/14/2013	5/19/2013	5	14	OK
MW-14	Carbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-14	Chloride	5/14/2013	5/20/2013	6	28	OK
MW-14	Chloroform	5/14/2013	5/19/2013	5	14	OK
MW-14	Chloromethane	5/14/2013	5/19/2013	5	14	OK
MW-14	Chromium	5/14/2013	5/22/2013	8	180	OK
MW-14	Cobalt	5/14/2013	5/22/2013	8	180	OK
MW-14	Copper	5/14/2013	5/22/2013	8	180	OK
MW-14	Fluoride	5/14/2013	5/21/2013	7	27	OK
MW-14	Gross Radium Alpha	5/14/2013	5/25/2013	11	180	OK
MW-14	Iron	5/14/2013	5/22/2013	8	180	OK
MW-14	Lead	5/14/2013	5/22/2013	8	180	OK
MW-14	Magnesium	5/14/2013	5/29/2013	15	180	OK
MW-14	Manganese	5/14/2013	5/22/2013	8	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-14	Mercury	5/14/2013	5/21/2013	7	180	OK
MW-14	Methylene chloride	5/14/2013	5/19/2013	5	14	OK
MW-14	Molybdenum	5/14/2013	5/22/2013	8	180	OK
MW-14	Naphthalene	5/14/2013	5/19/2013	5	14	OK
MW-14	Nickel	5/14/2013	5/22/2013	8	180	OK
MW-14	Nitrate/Nitrite (as N)	5/14/2013	5/24/2013	10	28	OK
MW-14	Potassium	5/14/2013	5/28/2013	14	180	OK
MW-14	Selenium	5/14/2013	5/22/2013	8	180	OK
MW-14	Silver	5/14/2013	5/22/2013	8	180	OK
MW-14	Sodium	5/14/2013	5/28/2013	14	180	OK
MW-14	Sulfate	5/14/2013	5/20/2013	6	28	OK
MW-14	Tetrahydrofuran	5/14/2013	5/19/2013	5	14	OK
MW-14	Thallium	5/14/2013	5/22/2013	8	180	OK
MW-14	Tin	5/14/2013	5/24/2013	10	180	OK
MW-14	Toluene	5/14/2013	5/19/2013	5	14	OK
MW-14	Total Dissolved Solids	5/14/2013	5/17/2013	3	7	OK
MW-14	Uranium	5/14/2013	5/22/2013	8	180	OK
MW-14	Vanadium	5/14/2013	5/28/2013	14	180	OK
MW-14	Xylenes, Total	5/14/2013	5/19/2013	5	14	OK
MW-14	Zinc	5/14/2013	5/22/2013	8	180	OK
MW-15	2-Butanone	5/15/2013	5/19/2013	4	14	OK
MW-15	Acetone	5/15/2013	5/19/2013	4	14	OK
MW-15	Ammonia (as N)	5/15/2013	5/23/2013	8	28	OK
MW-15	Arsenic	5/15/2013	5/22/2013	7	180	OK
MW-15	Benzene	5/15/2013	5/19/2013	4	14	OK
MW-15	Beryllium	5/15/2013	5/22/2013	7	180	OK
MW-15	Bicarbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-15	Cadmium	5/15/2013	5/22/2013	7	180	OK
MW-15	Calcium	5/15/2013	5/24/2013	9	180	OK
MW-15	Carbon tetrachloride	5/15/2013	5/19/2013	4	14	OK
MW-15	Carbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-15	Chloride	5/15/2013	5/20/2013	5	28	OK
MW-15	Chloroform	5/15/2013	5/19/2013	4	14	OK
MW-15	Chloromethane	5/15/2013	5/19/2013	4	14	OK
MW-15	Chromium	5/15/2013	5/22/2013	7	180	OK
MW-15	Cobalt	5/15/2013	5/22/2013	7	180	OK
MW-15	Copper	5/15/2013	5/22/2013	7	180	OK
MW-15	Fluoride	5/15/2013	5/21/2013	6	27	OK
MW-15	Gross Radium Alpha	5/15/2013	5/25/2013	10	180	OK
MW-15	Iron	5/15/2013	5/22/2013	7	180	OK
MW-15	Lead	5/15/2013	5/22/2013	7	180	OK
MW-15	Magnesium	5/15/2013	5/24/2013	9	180	OK
MW-15	Manganese	5/15/2013	5/22/2013	7	180	OK
MW-15	Mercury	5/15/2013	5/21/2013	6	180	OK
MW-15	Methylene chloride	5/15/2013	5/19/2013	4	14	OK
MW-15	Molybdenum	5/15/2013	5/22/2013	7	180	OK
MW-15	Naphthalene	5/15/2013	5/19/2013	4	14	OK
MW-15	Nickel	5/15/2013	5/22/2013	7	180	OK
MW-15	Nitrate/Nitrite (as N)	5/15/2013	5/24/2013	9	28	OK
MW-15	Potassium	5/15/2013	5/28/2013	13	180	OK
MW-15	Selenium	5/15/2013	5/22/2013	7	180	OK
MW-15	Silver	5/15/2013	5/22/2013	7	180	OK
MW-15	Sodium	5/15/2013	5/28/2013	13	180	OK
MW-15	Sulfate	5/15/2013	5/20/2013	5	28	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-15	Tetrahydrofuran	5/15/2013	5/19/2013	4	14	OK
MW-15	Thallium	5/15/2013	5/22/2013	7	180	OK
MW-15	Tin	5/15/2013	5/24/2013	9	180	OK
MW-15	Toluene	5/15/2013	5/19/2013	4	14	OK
MW-15	Total Dissolved Solids	5/15/2013	5/17/2013	2	7	OK
MW-15	Uranium	5/15/2013	5/22/2013	7	180	OK
MW-15	Vanadium	5/15/2013	5/28/2013	13	180	OK
MW-15	Xylenes, Total	5/15/2013	5/19/2013	4	14	OK
MW-15	Zinc	5/15/2013	5/22/2013	7	180	OK
MW-17	2-Butanone	5/22/2013	5/28/2013	6	14	OK
MW-17	Acetone	5/22/2013	5/28/2013	6	14	OK
MW-17	Ammonia (as N)	5/22/2013	6/3/2013	12	28	OK
MW-17	Arsenic	5/22/2013	5/30/2013	8	180	OK
MW-17	Benzene	5/22/2013	5/28/2013	6	14	OK
MW-17	Beryllium	5/22/2013	6/4/2013	13	180	OK
MW-17	Bicarbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-17	Cadmium	5/22/2013	5/30/2013	8	180	OK
MW-17	Calcium	5/22/2013	6/4/2013	13	180	OK
MW-17	Carbon tetrachloride	5/22/2013	5/28/2013	6	14	OK
MW-17	Carbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-17	Chloride	5/22/2013	5/24/2013	2	28	OK
MW-17	Chloroform	5/22/2013	5/28/2013	6	14	OK
MW-17	Chloromethane	5/22/2013	5/28/2013	6	14	OK
MW-17	Chromium	5/22/2013	5/30/2013	8	180	OK
MW-17	Cobalt	5/22/2013	5/30/2013	8	180	OK
MW-17	Copper	5/22/2013	6/3/2013	12	180	OK
MW-17	Fluoride	5/22/2013	5/25/2013	3	27	OK
MW-17	Gross Radium Alpha	5/22/2013	6/5/2013	14	180	OK
MW-17	Iron	5/22/2013	6/4/2013	13	180	OK
MW-17	Lead	5/22/2013	5/31/2013	9	180	OK
MW-17	Magnesium	5/22/2013	6/4/2013	13	180	OK
MW-17	Manganese	5/22/2013	6/3/2013	12	180	OK
MW-17	Mercury	5/22/2013	5/29/2013	7	180	OK
MW-17	Methylene chloride	5/22/2013	5/28/2013	6	14	OK
MW-17	Molybdenum	5/22/2013	5/30/2013	8	180	OK
MW-17	Naphthalene	5/22/2013	5/28/2013	6	14	OK
MW-17	Nickel	5/22/2013	5/30/2013	8	180	OK
MW-17	Nitrate/Nitrite (as N)	5/22/2013	6/3/2013	12	28	OK
MW-17	Potassium	5/22/2013	6/4/2013	13	180	OK
MW-17	Selenium	5/22/2013	5/30/2013	8	180	OK
MW-17	Silver	5/22/2013	5/30/2013	8	180	OK
MW-17	Sodium	5/22/2013	6/4/2013	13	180	OK
MW-17	Sulfate	5/22/2013	5/24/2013	2	28	OK
MW-17	Tetrahydrofuran	5/22/2013	5/28/2013	6	14	OK
MW-17	Thallium	5/22/2013	5/31/2013	9	180	OK
MW-17	Tin	5/22/2013	5/30/2013	8	180	OK
MW-17	Toluene	5/22/2013	5/28/2013	6	14	OK
MW-17	Total Dissolved Solids	5/22/2013	5/25/2013	3	7	OK
MW-17	Uranium	5/22/2013	5/30/2013	8	180	OK
MW-17	Vanadium	5/22/2013	6/4/2013	13	180	OK
MW-17	Xylenes, Total	5/22/2013	5/28/2013	6	14	OK
MW-17	Zinc	5/22/2013	5/30/2013	8	180	OK
MW-18	2-Butanone	5/20/2013	5/28/2013	8	14	OK
MW-18	Acetone	5/20/2013	5/28/2013	8	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-18	Ammonia (as N)	5/20/2013	6/3/2013	14	28	OK
MW-18	Arsenic	5/20/2013	5/30/2013	10	180	OK
MW-18	Benzene	5/20/2013	5/28/2013	8	14	OK
MW-18	Beryllium	5/20/2013	6/4/2013	15	180	OK
MW-18	Bicarbonate (as CaCO3)	5/20/2013	5/28/2013	8	14	OK
MW-18	Cadmium	5/20/2013	5/30/2013	10	180	OK
MW-18	Calcium	5/20/2013	6/3/2013	14	180	OK
MW-18	Carbon tetrachloride	5/20/2013	5/28/2013	8	14	OK
MW-18	Carbonate (as CaCO3)	5/20/2013	5/28/2013	8	14	OK
MW-18	Chloride	5/20/2013	5/24/2013	4	28	OK
MW-18	Chloroform	5/20/2013	5/28/2013	8	14	OK
MW-18	Chloromethane	5/20/2013	5/28/2013	8	14	OK
MW-18	Chromium	5/20/2013	5/30/2013	10	180	OK
MW-18	Cobalt	5/20/2013	5/30/2013	10	180	OK
MW-18	Copper	5/20/2013	6/3/2013	14	180	OK
MW-18	Fluoride	5/20/2013	5/25/2013	5	27	OK
MW-18	Gross Radium Alpha	5/20/2013	6/5/2013	16	180	OK
MW-18	Iron	5/20/2013	6/4/2013	15	180	OK
MW-18	Lead	5/20/2013	5/31/2013	11	180	OK
MW-18	Magnesium	5/20/2013	6/3/2013	14	180	OK
MW-18	Manganese	5/20/2013	6/3/2013	14	180	OK
MW-18	Mercury	5/20/2013	5/29/2013	9	180	OK
MW-18	Methylene chloride	5/20/2013	5/28/2013	8	14	OK
MW-18	Molybdenum	5/20/2013	5/30/2013	10	180	OK
MW-18	Naphthalene	5/20/2013	5/28/2013	8	14	OK
MW-18	Nickel	5/20/2013	5/30/2013	10	180	OK
MW-18	Nitrate/Nitrite (as N)	5/20/2013	6/3/2013	14	28	OK
MW-18	Potassium	5/20/2013	6/4/2013	15	180	OK
MW-18	Selenium	5/20/2013	5/30/2013	10	180	OK
MW-18	Silver	5/20/2013	5/30/2013	10	180	OK
MW-18	Sodium	5/20/2013	6/4/2013	15	180	OK
MW-18	Sulfate	5/20/2013	5/24/2013	4	28	OK
MW-18	Tetrahydrofuran	5/20/2013	5/28/2013	8	14	OK
MW-18	Thallium	5/20/2013	5/31/2013	11	180	OK
MW-18	Tin	5/20/2013	5/30/2013	10	180	OK
MW-18	Toluene	5/20/2013	5/28/2013	8	14	OK
MW-18	Total Dissolved Solids	5/20/2013	5/25/2013	5	7	OK
MW-18	Uranium	5/20/2013	5/31/2013	11	180	OK
MW-18	Vanadium	5/20/2013	6/4/2013	15	180	OK
MW-18	Xylenes, Total	5/20/2013	5/28/2013	8	14	OK
MW-18	Zinc	5/20/2013	5/30/2013	10	180	OK
MW-19	2-Butanone	5/20/2013	5/28/2013	8	14	OK
MW-19	Acetone	5/20/2013	5/28/2013	8	14	OK
MW-19	Ammonia (as N)	5/20/2013	6/3/2013	14	28	OK
MW-19	Arsenic	5/20/2013	5/30/2013	10	180	OK
MW-19	Benzene	5/20/2013	5/28/2013	8	14	OK
MW-19	Beryllium	5/20/2013	6/4/2013	15	180	OK
MW-19	Bicarbonate (as CaCO3)	5/20/2013	5/28/2013	8	14	OK
MW-19	Cadmium	5/20/2013	5/30/2013	10	180	OK
MW-19	Calcium	5/20/2013	6/4/2013	15	180	OK
MW-19	Carbon tetrachloride	5/20/2013	5/28/2013	8	14	OK
MW-19	Carbonate (as CaCO3)	5/20/2013	5/28/2013	8	14	OK
MW-19	Chloride	5/20/2013	5/25/2013	5	28	OK
MW-19	Chloroform	5/20/2013	5/28/2013	8	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-19	Chloromethane	5/20/2013	5/28/2013	8	14	OK
MW-19	Chromium	5/20/2013	5/30/2013	10	180	OK
MW-19	Cobalt	5/20/2013	5/30/2013	10	180	OK
MW-19	Copper	5/20/2013	6/3/2013	14	180	OK
MW-19	Fluoride	5/20/2013	5/25/2013	5	27	OK
MW-19	Gross Radium Alpha	5/20/2013	6/5/2013	16	180	OK
MW-19	Iron	5/20/2013	6/4/2013	15	180	OK
MW-19	Lead	5/20/2013	5/31/2013	11	180	OK
MW-19	Magnesium	5/20/2013	6/4/2013	15	180	OK
MW-19	Manganese	5/20/2013	6/3/2013	14	180	OK
MW-19	Mercury	5/20/2013	5/29/2013	9	180	OK
MW-19	Methylene chloride	5/20/2013	5/28/2013	8	14	OK
MW-19	Molybdenum	5/20/2013	5/30/2013	10	180	OK
MW-19	Naphthalene	5/20/2013	5/28/2013	8	14	OK
MW-19	Nickel	5/20/2013	5/30/2013	10	180	OK
MW-19	Nitrate/Nitrite (as N)	5/20/2013	6/3/2013	14	28	OK
MW-19	Potassium	5/20/2013	6/4/2013	15	180	OK
MW-19	Selenium	5/20/2013	5/30/2013	10	180	OK
MW-19	Silver	5/20/2013	5/30/2013	10	180	OK
MW-19	Sodium	5/20/2013	6/4/2013	15	180	OK
MW-19	Sulfate	5/20/2013	5/24/2013	4	28	OK
MW-19	Tetrahydrofuran	5/20/2013	5/28/2013	8	14	OK
MW-19	Thallium	5/20/2013	5/31/2013	11	180	OK
MW-19	Tin	5/20/2013	5/30/2013	10	180	OK
MW-19	Toluene	5/20/2013	5/28/2013	8	14	OK
MW-19	Total Dissolved Solids	5/20/2013	5/25/2013	5	7	OK
MW-19	Uranium	5/20/2013	5/31/2013	11	180	OK
MW-19	Vanadium	5/20/2013	6/4/2013	15	180	OK
MW-19	Xylenes, Total	5/20/2013	5/28/2013	8	14	OK
MW-19	Zinc	5/20/2013	5/30/2013	10	180	OK
MW-20	2-Butanone	6/3/2013	6/5/2013	2	14	OK
MW-20	Acetone	6/3/2013	6/5/2013	2	14	OK
MW-20	Ammonia (as N)	6/3/2013	6/17/2013	14	28	OK
MW-20	Arsenic	6/3/2013	6/13/2013	10	180	OK
MW-20	Benzene	6/3/2013	6/5/2013	2	14	OK
MW-20	Beryllium	6/3/2013	6/13/2013	10	180	OK
MW-20	Bicarbonate (as CaCO3)	6/3/2013	6/6/2013	3	14	OK
MW-20	Cadmium	6/3/2013	6/10/2013	7	180	OK
MW-20	Calcium	6/3/2013	6/10/2013	7	180	OK
MW-20	Carbon tetrachloride	6/3/2013	6/5/2013	2	14	OK
MW-20	Carbonate (as CaCO3)	6/3/2013	6/6/2013	3	14	OK
MW-20	Chloride	6/3/2013	6/10/2013	7	28	OK
MW-20	Chloroform	6/3/2013	6/5/2013	2	14	OK
MW-20	Chloromethane	6/3/2013	6/5/2013	2	14	OK
MW-20	Chromium	6/3/2013	6/13/2013	10	180	OK
MW-20	Cobalt	6/3/2013	6/13/2013	10	180	OK
MW-20	Copper	6/3/2013	6/13/2013	10	180	OK
MW-20	Fluoride	6/3/2013	6/11/2013	8	27	OK
MW-20	Gross Radium Alpha	6/3/2013	6/20/2013	17	180	OK
MW-20	Iron	6/3/2013	6/13/2013	10	180	OK
MW-20	Lead	6/3/2013	6/13/2013	10	180	OK
MW-20	Magnesium	6/3/2013	6/11/2013	8	180	OK
MW-20	Manganese	6/3/2013	6/13/2013	10	180	OK
MW-20	Mercury	6/3/2013	6/8/2013	5	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-20	Methylene chloride	6/3/2013	6/5/2013	2	14	OK
MW-20	Molybdenum	6/3/2013	6/13/2013	10	180	OK
MW-20	Naphthalene	6/3/2013	6/5/2013	2	14	OK
MW-20	Nickel	6/3/2013	6/13/2013	10	180	OK
MW-20	Nitrate/Nitrite (as N)	6/3/2013	6/5/2013	2	28	OK
MW-20	Potassium	6/3/2013	6/11/2013	8	180	OK
MW-20	Selenium	6/3/2013	6/13/2013	10	180	OK
MW-20	Silver	6/3/2013	6/10/2013	7	180	OK
MW-20	Sodium	6/3/2013	6/10/2013	7	180	OK
MW-20	Sulfate	6/3/2013	6/13/2013	10	28	OK
MW-20	Tetrahydrofuran	6/3/2013	6/5/2013	2	14	OK
MW-20	Thallium	6/3/2013	6/14/2013	11	180	OK
MW-20	Tin	6/3/2013	6/10/2013	7	180	OK
MW-20	Toluene	6/3/2013	6/5/2013	2	14	OK
MW-20	Total Dissolved Solids	6/3/2013	6/7/2013	4	7	OK
MW-20	Uranium	6/3/2013	6/13/2013	10	180	OK
MW-20	Vanadium	6/3/2013	6/13/2013	10	180	OK
MW-20	Xylenes, Total	6/3/2013	6/5/2013	2	14	OK
MW-20	Zinc	6/3/2013	6/13/2013	10	180	OK
MW-22	2-Butanone	5/22/2013	5/28/2013	6	14	OK
MW-22	Acetone	5/22/2013	5/28/2013	6	14	OK
MW-22	Ammonia (as N)	5/22/2013	6/3/2013	12	28	OK
MW-22	Arsenic	5/22/2013	5/30/2013	8	180	OK
MW-22	Benzene	5/22/2013	5/28/2013	6	14	OK
MW-22	Beryllium	5/22/2013	6/4/2013	13	180	OK
MW-22	Bicarbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-22	Cadmium	5/22/2013	5/31/2013	9	180	OK
MW-22	Calcium	5/22/2013	6/3/2013	12	180	OK
MW-22	Carbon tetrachloride	5/22/2013	5/28/2013	6	14	OK
MW-22	Carbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-22	Chloride	5/22/2013	5/25/2013	3	28	OK
MW-22	Chloroform	5/22/2013	5/28/2013	6	14	OK
MW-22	Chloromethane	5/22/2013	5/28/2013	6	14	OK
MW-22	Chromium	5/22/2013	5/31/2013	9	180	OK
MW-22	Cobalt	5/22/2013	5/30/2013	8	180	OK
MW-22	Copper	5/22/2013	6/3/2013	12	180	OK
MW-22	Fluoride	5/22/2013	5/25/2013	3	27	OK
MW-22	Gross Radium Alpha	5/22/2013	6/5/2013	14	180	OK
MW-22	Iron	5/22/2013	6/4/2013	13	180	OK
MW-22	Lead	5/22/2013	5/31/2013	9	180	OK
MW-22	Magnesium	5/22/2013	6/3/2013	12	180	OK
MW-22	Manganese	5/22/2013	6/3/2013	12	180	OK
MW-22	Mercury	5/22/2013	5/29/2013	7	180	OK
MW-22	Methylene chloride	5/22/2013	5/28/2013	6	14	OK
MW-22	Molybdenum	5/22/2013	5/30/2013	8	180	OK
MW-22	Naphthalene	5/22/2013	5/28/2013	6	14	OK
MW-22	Nickel	5/22/2013	5/30/2013	8	180	OK
MW-22	Nitrate/Nitrite (as N)	5/22/2013	6/3/2013	12	28	OK
MW-22	Potassium	5/22/2013	6/4/2013	13	180	OK
MW-22	Selenium	5/22/2013	5/30/2013	8	180	OK
MW-22	Silver	5/22/2013	5/31/2013	9	180	OK
MW-22	Sodium	5/22/2013	6/4/2013	13	180	OK
MW-22	Sulfate	5/22/2013	5/25/2013	3	28	OK
MW-22	Tetrahydrofuran	5/22/2013	5/28/2013	6	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-22	Thallium	5/22/2013	5/31/2013	9	180	OK
MW-22	Tin	5/22/2013	5/31/2013	9	180	OK
MW-22	Toluene	5/22/2013	5/28/2013	6	14	OK
MW-22	Total Dissolved Solids	5/22/2013	5/25/2013	3	7	OK
MW-22	Uranium	5/22/2013	5/31/2013	9	180	OK
MW-22	Vanadium	5/22/2013	6/4/2013	13	180	OK
MW-22	Xylenes, Total	5/22/2013	5/28/2013	6	14	OK
MW-22	Zinc	5/22/2013	5/30/2013	8	180	OK
MW-23	2-Butanone	5/23/2013	5/28/2013	5	14	OK
MW-23	Acetone	5/23/2013	5/28/2013	5	14	OK
MW-23	Ammonia (as N)	5/23/2013	6/3/2013	11	28	OK
MW-23	Arsenic	5/23/2013	5/30/2013	7	180	OK
MW-23	Benzene	5/23/2013	5/28/2013	5	14	OK
MW-23	Beryllium	5/23/2013	6/4/2013	12	180	OK
MW-23	Bicarbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-23	Cadmium	5/23/2013	5/31/2013	8	180	OK
MW-23	Calcium	5/23/2013	6/3/2013	11	180	OK
MW-23	Carbon tetrachloride	5/23/2013	5/28/2013	5	14	OK
MW-23	Carbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-23	Chloride	5/23/2013	5/25/2013	2	28	OK
MW-23	Chloroform	5/23/2013	5/28/2013	5	14	OK
MW-23	Chloromethane	5/23/2013	5/28/2013	5	14	OK
MW-23	Chromium	5/23/2013	5/31/2013	8	180	OK
MW-23	Cobalt	5/23/2013	5/30/2013	7	180	OK
MW-23	Copper	5/23/2013	6/3/2013	11	180	OK
MW-23	Fluoride	5/23/2013	5/25/2013	2	27	OK
MW-23	Gross Radium Alpha	5/23/2013	6/5/2013	13	180	OK
MW-23	Iron	5/23/2013	6/4/2013	12	180	OK
MW-23	Lead	5/23/2013	5/31/2013	8	180	OK
MW-23	Magnesium	5/23/2013	6/4/2013	12	180	OK
MW-23	Manganese	5/23/2013	6/3/2013	11	180	OK
MW-23	Mercury	5/23/2013	5/29/2013	6	180	OK
MW-23	Methylene chloride	5/23/2013	5/28/2013	5	14	OK
MW-23	Molybdenum	5/23/2013	5/30/2013	7	180	OK
MW-23	Naphthalene	5/23/2013	5/28/2013	5	14	OK
MW-23	Nickel	5/23/2013	5/30/2013	7	180	OK
MW-23	Nitrate/Nitrite (as N)	5/23/2013	6/3/2013	11	28	OK
MW-23	Potassium	5/23/2013	6/4/2013	12	180	OK
MW-23	Selenium	5/23/2013	5/30/2013	7	180	OK
MW-23	Silver	5/23/2013	5/31/2013	8	180	OK
MW-23	Sodium	5/23/2013	6/4/2013	12	180	OK
MW-23	Sulfate	5/23/2013	5/25/2013	2	28	OK
MW-23	Tetrahydrofuran	5/23/2013	5/28/2013	5	14	OK
MW-23	Thallium	5/23/2013	5/31/2013	8	180	OK
MW-23	Tin	5/23/2013	5/31/2013	8	180	OK
MW-23	Toluene	5/23/2013	5/28/2013	5	14	OK
MW-23	Total Dissolved Solids	5/23/2013	5/25/2013	2	7	OK
MW-23	Uranium	5/23/2013	5/31/2013	8	180	OK
MW-23	Vanadium	5/23/2013	6/4/2013	12	180	OK
MW-23	Xylenes, Total	5/23/2013	5/28/2013	5	14	OK
MW-23	Zinc	5/23/2013	5/30/2013	7	180	OK
MW-24	2-Butanone	5/22/2013	5/28/2013	6	14	OK
MW-24	Acetone	5/22/2013	5/28/2013	6	14	OK
MW-24	Ammonia (as N)	5/22/2013	6/3/2013	12	28	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-24	Arsenic	5/22/2013	5/30/2013	8	180	OK
MW-24	Benzene	5/22/2013	5/28/2013	6	14	OK
MW-24	Beryllium	5/22/2013	6/4/2013	13	180	OK
MW-24	Bicarbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-24	Cadmium	5/22/2013	5/31/2013	9	180	OK
MW-24	Calcium	5/22/2013	6/4/2013	13	180	OK
MW-24	Carbon tetrachloride	5/22/2013	5/28/2013	6	14	OK
MW-24	Carbonate (as CaCO3)	5/22/2013	5/28/2013	6	14	OK
MW-24	Chloride	5/22/2013	5/25/2013	3	28	OK
MW-24	Chloroform	5/22/2013	5/28/2013	6	14	OK
MW-24	Chloromethane	5/22/2013	5/28/2013	6	14	OK
MW-24	Chromium	5/22/2013	5/31/2013	9	180	OK
MW-24	Cobalt	5/22/2013	5/30/2013	8	180	OK
MW-24	Copper	5/22/2013	6/3/2013	12	180	OK
MW-24	Fluoride	5/22/2013	5/25/2013	3	27	OK
MW-24	Gross Radium Alpha	5/22/2013	6/5/2013	14	180	OK
MW-24	Iron	5/22/2013	6/3/2013	12	180	OK
MW-24	Lead	5/22/2013	5/31/2013	9	180	OK
MW-24	Magnesium	5/22/2013	6/4/2013	13	180	OK
MW-24	Manganese	5/22/2013	6/3/2013	12	180	OK
MW-24	Mercury	5/22/2013	5/29/2013	7	180	OK
MW-24	Methylene chloride	5/22/2013	5/28/2013	6	14	OK
MW-24	Molybdenum	5/22/2013	5/30/2013	8	180	OK
MW-24	Naphthalene	5/22/2013	5/28/2013	6	14	OK
MW-24	Nickel	5/22/2013	5/30/2013	8	180	OK
MW-24	Nitrate/Nitrite (as N)	5/22/2013	6/3/2013	12	28	OK
MW-24	Potassium	5/22/2013	6/4/2013	13	180	OK
MW-24	Selenium	5/22/2013	5/30/2013	8	180	OK
MW-24	Silver	5/22/2013	5/31/2013	9	180	OK
MW-24	Sodium	5/22/2013	6/4/2013	13	180	OK
MW-24	Sulfate	5/22/2013	5/25/2013	3	28	OK
MW-24	Tetrahydrofuran	5/22/2013	5/28/2013	6	14	OK
MW-24	Thallium	5/22/2013	5/31/2013	9	180	OK
MW-24	Tin	5/22/2013	5/31/2013	9	180	OK
MW-24	Toluene	5/22/2013	5/28/2013	6	14	OK
MW-24	Total Dissolved Solids	5/22/2013	5/25/2013	3	7	OK
MW-24	Uranium	5/22/2013	5/31/2013	9	180	OK
MW-24	Vanadium	5/22/2013	6/4/2013	13	180	OK
MW-24	Xylenes, Total	5/22/2013	5/28/2013	6	14	OK
MW-24	Zinc	5/22/2013	5/30/2013	8	180	OK
MW-25	2-Butanone	5/14/2013	5/19/2013	5	14	OK
MW-25	Acetone	5/14/2013	5/19/2013	5	14	OK
MW-25	Ammonia (as N)	5/14/2013	5/23/2013	9	28	OK
MW-25	Arsenic	5/14/2013	5/22/2013	8	180	OK
MW-25	Benzene	5/14/2013	5/19/2013	5	14	OK
MW-25	Beryllium	5/14/2013	5/22/2013	8	180	OK
MW-25	Bicarbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-25	Cadmium	5/14/2013	5/22/2013	8	180	OK
MW-25	Calcium	5/14/2013	5/24/2013	10	180	OK
MW-25	Carbon tetrachloride	5/14/2013	5/19/2013	5	14	OK
MW-25	Carbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-25	Chloride	5/14/2013	5/20/2013	6	28	OK
MW-25	Chloroform	5/14/2013	5/19/2013	5	14	OK
MW-25	Chloromethane	5/14/2013	5/19/2013	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Chromium	5/14/2013	5/22/2013	8	180	OK
MW-25	Cobalt	5/14/2013	5/22/2013	8	180	OK
MW-25	Copper	5/14/2013	5/22/2013	8	180	OK
MW-25	Fluoride	5/14/2013	5/21/2013	7	27	OK
MW-25	Gross Radium Alpha	5/14/2013	5/25/2013	11	180	OK
MW-25	Iron	5/14/2013	5/22/2013	8	180	OK
MW-25	Lead	5/14/2013	5/22/2013	8	180	OK
MW-25	Magnesium	5/14/2013	5/24/2013	10	180	OK
MW-25	Manganese	5/14/2013	5/22/2013	8	180	OK
MW-25	Mercury	5/14/2013	5/21/2013	7	180	OK
MW-25	Methylene chloride	5/14/2013	5/19/2013	5	14	OK
MW-25	Molybdenum	5/14/2013	5/22/2013	8	180	OK
MW-25	Naphthalene	5/14/2013	5/19/2013	5	14	OK
MW-25	Nickel	5/14/2013	5/22/2013	8	180	OK
MW-25	Nitrate/Nitrite (as N)	5/14/2013	5/24/2013	10	28	OK
MW-25	Potassium	5/14/2013	5/28/2013	14	180	OK
MW-25	Selenium	5/14/2013	5/22/2013	8	180	OK
MW-25	Silver	5/14/2013	5/22/2013	8	180	OK
MW-25	Sodium	5/14/2013	5/28/2013	14	180	OK
MW-25	Sulfate	5/14/2013	5/20/2013	6	28	OK
MW-25	Tetrahydrofuran	5/14/2013	5/19/2013	5	14	OK
MW-25	Thallium	5/14/2013	5/22/2013	8	180	OK
MW-25	Tin	5/14/2013	5/24/2013	10	180	OK
MW-25	Toluene	5/14/2013	5/19/2013	5	14	OK
MW-25	Total Dissolved Solids	5/14/2013	5/17/2013	3	7	OK
MW-25	Uranium	5/14/2013	5/22/2013	8	180	OK
MW-25	Vanadium	5/14/2013	5/28/2013	14	180	OK
MW-25	Xylenes, Total	5/14/2013	5/19/2013	5	14	OK
MW-25	Zinc	5/14/2013	5/22/2013	8	180	OK
MW-26	2-Butanone	5/23/2013	5/28/2013	5	14	OK
MW-26	Acetone	5/23/2013	5/28/2013	5	14	OK
MW-26	Ammonia (as N)	5/23/2013	6/3/2013	11	28	OK
MW-26	Arsenic	5/23/2013	5/30/2013	7	180	OK
MW-26	Benzene	5/23/2013	5/28/2013	5	14	OK
MW-26	Beryllium	5/23/2013	6/4/2013	12	180	OK
MW-26	Bicarbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-26	Cadmium	5/23/2013	5/31/2013	8	180	OK
MW-26	Calcium	5/23/2013	6/3/2013	11	180	OK
MW-26	Carbon tetrachloride	5/23/2013	5/28/2013	5	14	OK
MW-26	Carbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-26	Chloride	5/23/2013	5/25/2013	2	28	OK
MW-26	Chloroform	5/23/2013	5/29/2013	6	14	OK
MW-26	Chloromethane	5/23/2013	5/28/2013	5	14	OK
MW-26	Chromium	5/23/2013	5/31/2013	8	180	OK
MW-26	Cobalt	5/23/2013	5/30/2013	7	180	OK
MW-26	Copper	5/23/2013	6/3/2013	11	180	OK
MW-26	Fluoride	5/23/2013	5/25/2013	2	27	OK
MW-26	Gross Radium Alpha	5/23/2013	6/5/2013	13	180	OK
MW-26	Iron	5/23/2013	6/4/2013	12	180	OK
MW-26	Lead	5/23/2013	5/31/2013	8	180	OK
MW-26	Magnesium	5/23/2013	6/4/2013	12	180	OK
MW-26	Manganese	5/23/2013	6/3/2013	11	180	OK
MW-26	Mercury	5/23/2013	5/29/2013	6	180	OK
MW-26	Methylene chloride	5/23/2013	5/28/2013	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Molybdenum	5/23/2013	5/30/2013	7	180	OK
MW-26	Naphthalene	5/23/2013	5/28/2013	5	14	OK
MW-26	Nickel	5/23/2013	5/30/2013	7	180	OK
MW-26	Nitrate/Nitrite (as N)	5/23/2013	6/3/2013	11	28	OK
MW-26	Potassium	5/23/2013	6/4/2013	12	180	OK
MW-26	Selenium	5/23/2013	5/30/2013	7	180	OK
MW-26	Silver	5/23/2013	5/31/2013	8	180	OK
MW-26	Sodium	5/23/2013	6/4/2013	12	180	OK
MW-26	Sulfate	5/23/2013	5/25/2013	2	28	OK
MW-26	Tetrahydrofuran	5/23/2013	5/28/2013	5	14	OK
MW-26	Thallium	5/23/2013	5/31/2013	8	180	OK
MW-26	Tin	5/23/2013	5/31/2013	8	180	OK
MW-26	Toluene	5/23/2013	5/28/2013	5	14	OK
MW-26	Total Dissolved Solids	5/23/2013	5/25/2013	2	7	OK
MW-26	Uranium	5/23/2013	5/31/2013	8	180	OK
MW-26	Vanadium	5/23/2013	6/4/2013	12	180	OK
MW-26	Xylenes, Total	5/23/2013	5/28/2013	5	14	OK
MW-26	Zinc	5/23/2013	5/30/2013	7	180	OK
MW-27	2-Butanone	5/21/2013	5/28/2013	7	14	OK
MW-27	Acetone	5/21/2013	5/28/2013	7	14	OK
MW-27	Ammonia (as N)	5/21/2013	6/3/2013	13	28	OK
MW-27	Arsenic	5/21/2013	5/30/2013	9	180	OK
MW-27	Benzene	5/21/2013	5/28/2013	7	14	OK
MW-27	Beryllium	5/21/2013	6/4/2013	14	180	OK
MW-27	Bicarbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-27	Cadmium	5/21/2013	5/31/2013	10	180	OK
MW-27	Calcium	5/21/2013	6/4/2013	14	180	OK
MW-27	Carbon tetrachloride	5/21/2013	5/28/2013	7	14	OK
MW-27	Carbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-27	Chloride	5/21/2013	5/25/2013	4	28	OK
MW-27	Chloroform	5/21/2013	5/28/2013	7	14	OK
MW-27	Chloromethane	5/21/2013	5/28/2013	7	14	OK
MW-27	Chromium	5/21/2013	5/31/2013	10	180	OK
MW-27	Cobalt	5/21/2013	5/30/2013	9	180	OK
MW-27	Copper	5/21/2013	6/3/2013	13	180	OK
MW-27	Fluoride	5/21/2013	5/25/2013	4	27	OK
MW-27	Gross Radium Alpha	5/21/2013	6/5/2013	15	180	OK
MW-27	Iron	5/21/2013	6/4/2013	14	180	OK
MW-27	Lead	5/21/2013	5/31/2013	10	180	OK
MW-27	Magnesium	5/21/2013	6/4/2013	14	180	OK
MW-27	Manganese	5/21/2013	6/3/2013	13	180	OK
MW-27	Mercury	5/21/2013	5/29/2013	8	180	OK
MW-27	Methylene chloride	5/21/2013	5/28/2013	7	14	OK
MW-27	Molybdenum	5/21/2013	5/30/2013	9	180	OK
MW-27	Naphthalene	5/21/2013	5/28/2013	7	14	OK
MW-27	Nickel	5/21/2013	5/30/2013	9	180	OK
MW-27	Nitrate/Nitrite (as N)	5/21/2013	6/3/2013	13	28	OK
MW-27	Potassium	5/21/2013	6/4/2013	14	180	OK
MW-27	Selenium	5/21/2013	5/30/2013	9	180	OK
MW-27	Silver	5/21/2013	5/31/2013	10	180	OK
MW-27	Sodium	5/21/2013	6/4/2013	14	180	OK
MW-27	Sulfate	5/21/2013	5/25/2013	4	28	OK
MW-27	Tetrahydrofuran	5/21/2013	5/28/2013	7	14	OK
MW-27	Thallium	5/21/2013	5/31/2013	10	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-27	Tin	5/21/2013	5/31/2013	10	180	OK
MW-27	Toluene	5/21/2013	5/28/2013	7	14	OK
MW-27	Total Dissolved Solids	5/21/2013	5/25/2013	4	7	OK
MW-27	Uranium	5/21/2013	5/31/2013	10	180	OK
MW-27	Vanadium	5/21/2013	6/4/2013	14	180	OK
MW-27	Xylenes, Total	5/21/2013	5/28/2013	7	14	OK
MW-27	Zinc	5/21/2013	5/30/2013	9	180	OK
MW-28	2-Butanone	5/15/2013	5/19/2013	4	14	OK
MW-28	Acetone	5/15/2013	5/19/2013	4	14	OK
MW-28	Ammonia (as N)	5/15/2013	5/23/2013	8	28	OK
MW-28	Arsenic	5/15/2013	5/22/2013	7	180	OK
MW-28	Benzene	5/15/2013	5/19/2013	4	14	OK
MW-28	Beryllium	5/15/2013	5/22/2013	7	180	OK
MW-28	Bicarbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-28	Cadmium	5/15/2013	5/22/2013	7	180	OK
MW-28	Calcium	5/15/2013	5/24/2013	9	180	OK
MW-28	Carbon tetrachloride	5/15/2013	5/19/2013	4	14	OK
MW-28	Carbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-28	Chloride	5/15/2013	5/23/2013	8	28	OK
MW-28	Chloroform	5/15/2013	5/19/2013	4	14	OK
MW-28	Chloromethane	5/15/2013	5/19/2013	4	14	OK
MW-28	Chromium	5/15/2013	5/22/2013	7	180	OK
MW-28	Cobalt	5/15/2013	5/22/2013	7	180	OK
MW-28	Copper	5/15/2013	5/22/2013	7	180	OK
MW-28	Fluoride	5/15/2013	5/21/2013	6	27	OK
MW-28	Gross Radium Alpha	5/15/2013	5/25/2013	10	180	OK
MW-28	Iron	5/15/2013	5/22/2013	7	180	OK
MW-28	Lead	5/15/2013	5/22/2013	7	180	OK
MW-28	Magnesium	5/15/2013	5/24/2013	9	180	OK
MW-28	Manganese	5/15/2013	5/22/2013	7	180	OK
MW-28	Mercury	5/15/2013	5/21/2013	6	180	OK
MW-28	Methylene chloride	5/15/2013	5/19/2013	4	14	OK
MW-28	Molybdenum	5/15/2013	5/22/2013	7	180	OK
MW-28	Naphthalene	5/15/2013	5/19/2013	4	14	OK
MW-28	Nickel	5/15/2013	5/22/2013	7	180	OK
MW-28	Nitrate/Nitrite (as N)	5/15/2013	5/24/2013	9	28	OK
MW-28	Potassium	5/15/2013	5/28/2013	13	180	OK
MW-28	Selenium	5/15/2013	5/22/2013	7	180	OK
MW-28	Silver	5/15/2013	5/22/2013	7	180	OK
MW-28	Sodium	5/15/2013	5/28/2013	13	180	OK
MW-28	Sulfate	5/15/2013	5/20/2013	5	28	OK
MW-28	Tetrahydrofuran	5/15/2013	5/19/2013	4	14	OK
MW-28	Thallium	5/15/2013	5/22/2013	7	180	OK
MW-28	Tin	5/15/2013	5/24/2013	9	180	OK
MW-28	Toluene	5/15/2013	5/19/2013	4	14	OK
MW-28	Total Dissolved Solids	5/15/2013	5/17/2013	2	7	OK
MW-28	Uranium	5/15/2013	5/22/2013	7	180	OK
MW-28	Vanadium	5/15/2013	5/28/2013	13	180	OK
MW-28	Xylenes, Total	5/15/2013	5/19/2013	4	14	OK
MW-28	Zinc	5/15/2013	5/22/2013	7	180	OK
MW-29	2-Butanone	5/23/2013	5/28/2013	5	14	OK
MW-29	Acetone	5/23/2013	5/28/2013	5	14	OK
MW-29	Ammonia (as N)	5/23/2013	6/3/2013	11	28	OK
MW-29	Arsenic	5/23/2013	5/30/2013	7	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-29	Benzene	5/23/2013	5/28/2013	5	14	OK
MW-29	Beryllium	5/23/2013	6/4/2013	12	180	OK
MW-29	Bicarbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-29	Cadmium	5/23/2013	5/31/2013	8	180	OK
MW-29	Calcium	5/23/2013	6/4/2013	12	180	OK
MW-29	Carbon tetrachloride	5/23/2013	5/28/2013	5	14	OK
MW-29	Carbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-29	Chloride	5/23/2013	5/25/2013	2	28	OK
MW-29	Chloroform	5/23/2013	5/28/2013	5	14	OK
MW-29	Chloromethane	5/23/2013	5/28/2013	5	14	OK
MW-29	Chromium	5/23/2013	5/31/2013	8	180	OK
MW-29	Cobalt	5/23/2013	5/30/2013	7	180	OK
MW-29	Copper	5/23/2013	6/3/2013	11	180	OK
MW-29	Fluoride	5/23/2013	5/25/2013	2	27	OK
MW-29	Gross Radium Alpha	5/23/2013	6/28/2013	36	180	OK
MW-29	Iron	5/23/2013	6/3/2013	11	180	OK
MW-29	Lead	5/23/2013	5/31/2013	8	180	OK
MW-29	Magnesium	5/23/2013	6/4/2013	12	180	OK
MW-29	Manganese	5/23/2013	6/3/2013	11	180	OK
MW-29	Mercury	5/23/2013	5/29/2013	6	180	OK
MW-29	Methylene chloride	5/23/2013	5/28/2013	5	14	OK
MW-29	Molybdenum	5/23/2013	5/30/2013	7	180	OK
MW-29	Naphthalene	5/23/2013	5/28/2013	5	14	OK
MW-29	Nickel	5/23/2013	5/30/2013	7	180	OK
MW-29	Nitrate/Nitrite (as N)	5/23/2013	6/3/2013	11	28	OK
MW-29	Potassium	5/23/2013	6/4/2013	12	180	OK
MW-29	Selenium	5/23/2013	5/30/2013	7	180	OK
MW-29	Silver	5/23/2013	5/31/2013	8	180	OK
MW-29	Sodium	5/23/2013	6/4/2013	12	180	OK
MW-29	Sulfate	5/23/2013	5/25/2013	2	28	OK
MW-29	Tetrahydrofuran	5/23/2013	5/28/2013	5	14	OK
MW-29	Thallium	5/23/2013	5/31/2013	8	180	OK
MW-29	Tin	5/23/2013	5/31/2013	8	180	OK
MW-29	Toluene	5/23/2013	5/28/2013	5	14	OK
MW-29	Total Dissolved Solids	5/23/2013	5/25/2013	2	7	OK
MW-29	Uranium	5/23/2013	5/31/2013	8	180	OK
MW-29	Vanadium	5/23/2013	6/4/2013	12	180	OK
MW-29	Xylenes, Total	5/23/2013	5/28/2013	5	14	OK
MW-29	Zinc	5/23/2013	6/4/2013	12	180	OK
MW-30	2-Butanone	5/15/2013	5/19/2013	4	14	OK
MW-30	Acetone	5/15/2013	5/19/2013	4	14	OK
MW-30	Ammonia (as N)	5/15/2013	5/23/2013	8	28	OK
MW-30	Arsenic	5/15/2013	5/22/2013	7	180	OK
MW-30	Benzene	5/15/2013	5/19/2013	4	14	OK
MW-30	Beryllium	5/15/2013	5/22/2013	7	180	OK
MW-30	Bicarbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-30	Cadmium	5/15/2013	5/22/2013	7	180	OK
MW-30	Calcium	5/15/2013	5/24/2013	9	180	OK
MW-30	Carbon tetrachloride	5/15/2013	5/19/2013	4	14	OK
MW-30	Carbonate (as CaCO3)	5/15/2013	5/20/2013	5	14	OK
MW-30	Chloride	5/15/2013	5/20/2013	5	28	OK
MW-30	Chloroform	5/15/2013	5/19/2013	4	14	OK
MW-30	Chloromethane	5/15/2013	5/19/2013	4	14	OK
MW-30	Chromium	5/15/2013	5/22/2013	7	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Cobalt	5/15/2013	5/22/2013	7	180	OK
MW-30	Copper	5/15/2013	5/22/2013	7	180	OK
MW-30	Fluoride	5/15/2013	5/21/2013	6	27	OK
MW-30	Gross Radium Alpha	5/15/2013	5/25/2013	10	180	OK
MW-30	Iron	5/15/2013	5/22/2013	7	180	OK
MW-30	Lead	5/15/2013	5/22/2013	7	180	OK
MW-30	Magnesium	5/15/2013	5/28/2013	13	180	OK
MW-30	Manganese	5/15/2013	5/22/2013	7	180	OK
MW-30	Mercury	5/15/2013	5/21/2013	6	180	OK
MW-30	Methylene chloride	5/15/2013	5/19/2013	4	14	OK
MW-30	Molybdenum	5/15/2013	5/22/2013	7	180	OK
MW-30	Naphthalene	5/15/2013	5/19/2013	4	14	OK
MW-30	Nickel	5/15/2013	5/22/2013	7	180	OK
MW-30	Nitrate/Nitrite (as N)	5/15/2013	5/24/2013	9	28	OK
MW-30	Potassium	5/15/2013	5/28/2013	13	180	OK
MW-30	Selenium	5/15/2013	5/22/2013	7	180	OK
MW-30	Silver	5/15/2013	5/22/2013	7	180	OK
MW-30	Sodium	5/15/2013	5/28/2013	13	180	OK
MW-30	Sulfate	5/15/2013	5/20/2013	5	28	OK
MW-30	Tetrahydrofuran	5/15/2013	5/19/2013	4	14	OK
MW-30	Thallium	5/15/2013	5/22/2013	7	180	OK
MW-30	Tin	5/15/2013	5/24/2013	9	180	OK
MW-30	Toluene	5/15/2013	5/19/2013	4	14	OK
MW-30	Total Dissolved Solids	5/15/2013	5/17/2013	2	7	OK
MW-30	Uranium	5/15/2013	5/22/2013	7	180	OK
MW-30	Vanadium	5/15/2013	5/28/2013	13	180	OK
MW-30	Xylenes, Total	5/15/2013	5/19/2013	4	14	OK
MW-30	Zinc	5/15/2013	5/22/2013	7	180	OK
MW-31	2-Butanone	5/13/2013	5/19/2013	6	14	OK
MW-31	Acetone	5/13/2013	5/19/2013	6	14	OK
MW-31	Ammonia (as N)	5/13/2013	5/23/2013	10	28	OK
MW-31	Arsenic	5/13/2013	5/22/2013	9	180	OK
MW-31	Benzene	5/13/2013	5/19/2013	6	14	OK
MW-31	Beryllium	5/13/2013	5/22/2013	9	180	OK
MW-31	Bicarbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-31	Cadmium	5/13/2013	5/22/2013	9	180	OK
MW-31	Calcium	5/13/2013	5/24/2013	11	180	OK
MW-31	Carbon tetrachloride	5/13/2013	5/19/2013	6	14	OK
MW-31	Carbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-31	Chloride	5/13/2013	5/20/2013	7	28	OK
MW-31	Chloroform	5/13/2013	5/19/2013	6	14	OK
MW-31	Chloromethane	5/13/2013	5/19/2013	6	14	OK
MW-31	Chromium	5/13/2013	5/22/2013	9	180	OK
MW-31	Cobalt	5/13/2013	5/22/2013	9	180	OK
MW-31	Copper	5/13/2013	5/22/2013	9	180	OK
MW-31	Fluoride	5/13/2013	5/21/2013	8	27	OK
MW-31	Gross Radium Alpha	5/13/2013	5/25/2013	12	180	OK
MW-31	Iron	5/13/2013	5/22/2013	9	180	OK
MW-31	Lead	5/13/2013	5/22/2013	9	180	OK
MW-31	Magnesium	5/13/2013	5/28/2013	15	180	OK
MW-31	Manganese	5/13/2013	5/22/2013	9	180	OK
MW-31	Mercury	5/13/2013	5/21/2013	8	180	OK
MW-31	Methylene chloride	5/13/2013	5/19/2013	6	14	OK
MW-31	Molybdenum	5/13/2013	5/22/2013	9	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-31	Naphthalene	5/13/2013	5/19/2013	6	14	OK
MW-31	Nickel	5/13/2013	5/22/2013	9	180	OK
MW-31	Nitrate/Nitrite (as N)	5/13/2013	5/24/2013	11	28	OK
MW-31	Potassium	5/13/2013	5/28/2013	15	180	OK
MW-31	Selenium	5/13/2013	5/22/2013	9	180	OK
MW-31	Silver	5/13/2013	5/22/2013	9	180	OK
MW-31	Sodium	5/13/2013	5/28/2013	15	180	OK
MW-31	Sulfate	5/13/2013	5/20/2013	7	28	OK
MW-31	Tetrahydrofuran	5/13/2013	5/19/2013	6	14	OK
MW-31	Thallium	5/13/2013	5/22/2013	9	180	OK
MW-31	Tin	5/13/2013	5/24/2013	11	180	OK
MW-31	Toluene	5/13/2013	5/19/2013	6	14	OK
MW-31	Total Dissolved Solids	5/13/2013	5/17/2013	4	7	OK
MW-31	Uranium	5/13/2013	5/22/2013	9	180	OK
MW-31	Vanadium	5/13/2013	5/28/2013	15	180	OK
MW-31	Xylenes, Total	5/13/2013	5/19/2013	6	14	OK
MW-31	Zinc	5/13/2013	5/22/2013	9	180	OK
MW-32	2-Butanone	5/13/2013	5/19/2013	6	14	OK
MW-32	Acetone	5/13/2013	5/19/2013	6	14	OK
MW-32	Ammonia (as N)	5/13/2013	5/23/2013	10	28	OK
MW-32	Arsenic	5/13/2013	5/22/2013	9	180	OK
MW-32	Benzene	5/13/2013	5/19/2013	6	14	OK
MW-32	Beryllium	5/13/2013	5/22/2013	9	180	OK
MW-32	Bicarbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-32	Cadmium	5/13/2013	5/22/2013	9	180	OK
MW-32	Calcium	5/13/2013	5/24/2013	11	180	OK
MW-32	Carbon tetrachloride	5/13/2013	5/19/2013	6	14	OK
MW-32	Carbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-32	Chloride	5/13/2013	5/20/2013	7	28	OK
MW-32	Chloroform	5/13/2013	5/19/2013	6	14	OK
MW-32	Chloromethane	5/13/2013	5/19/2013	6	14	OK
MW-32	Chromium	5/13/2013	5/22/2013	9	180	OK
MW-32	Cobalt	5/13/2013	5/22/2013	9	180	OK
MW-32	Copper	5/13/2013	5/22/2013	9	180	OK
MW-32	Fluoride	5/13/2013	5/21/2013	8	27	OK
MW-32	Gross Radium Alpha	5/13/2013	5/25/2013	12	180	OK
MW-32	Iron	5/13/2013	5/22/2013	9	180	OK
MW-32	Lead	5/13/2013	5/22/2013	9	180	OK
MW-32	Magnesium	5/13/2013	5/24/2013	11	180	OK
MW-32	Manganese	5/13/2013	5/22/2013	9	180	OK
MW-32	Mercury	5/13/2013	5/21/2013	8	180	OK
MW-32	Methylene chloride	5/13/2013	5/19/2013	6	14	OK
MW-32	Molybdenum	5/13/2013	5/22/2013	9	180	OK
MW-32	Naphthalene	5/13/2013	5/19/2013	6	14	OK
MW-32	Nickel	5/13/2013	5/22/2013	9	180	OK
MW-32	Nitrate/Nitrite (as N)	5/13/2013	5/24/2013	11	28	OK
MW-32	Potassium	5/13/2013	5/28/2013	15	180	OK
MW-32	Selenium	5/13/2013	5/22/2013	9	180	OK
MW-32	Silver	5/13/2013	5/22/2013	9	180	OK
MW-32	Sodium	5/13/2013	5/28/2013	15	180	OK
MW-32	Sulfate	5/13/2013	5/20/2013	7	28	OK
MW-32	Tetrahydrofuran	5/13/2013	5/19/2013	6	14	OK
MW-32	Thallium	5/13/2013	5/22/2013	9	180	OK
MW-32	Tin	5/13/2013	5/24/2013	11	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-32	Toluene	5/13/2013	5/19/2013	6	14	OK
MW-32	Total Dissolved Solids	5/13/2013	5/17/2013	4	7	OK
MW-32	Uranium	5/13/2013	5/22/2013	9	180	OK
MW-32	Vanadium	5/13/2013	5/28/2013	15	180	OK
MW-32	Xylenes, Total	5/13/2013	5/19/2013	6	14	OK
MW-32	Zinc	5/13/2013	5/22/2013	9	180	OK
MW-35	2-Butanone	5/13/2013	5/19/2013	6	14	OK
MW-35	Acetone	5/13/2013	5/19/2013	6	14	OK
MW-35	Ammonia (as N)	5/13/2013	5/23/2013	10	28	OK
MW-35	Arsenic	5/13/2013	5/22/2013	9	180	OK
MW-35	Benzene	5/13/2013	5/19/2013	6	14	OK
MW-35	Beryllium	5/13/2013	5/22/2013	9	180	OK
MW-35	Bicarbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-35	Cadmium	5/13/2013	5/22/2013	9	180	OK
MW-35	Calcium	5/13/2013	5/24/2013	11	180	OK
MW-35	Carbon tetrachloride	5/13/2013	5/19/2013	6	14	OK
MW-35	Carbonate (as CaCO3)	5/13/2013	5/20/2013	7	14	OK
MW-35	Chloride	5/13/2013	5/21/2013	8	28	OK
MW-35	Chloroform	5/13/2013	5/19/2013	6	14	OK
MW-35	Chloromethane	5/13/2013	5/19/2013	6	14	OK
MW-35	Chromium	5/13/2013	5/22/2013	9	180	OK
MW-35	Cobalt	5/13/2013	5/22/2013	9	180	OK
MW-35	Copper	5/13/2013	5/22/2013	9	180	OK
MW-35	Fluoride	5/13/2013	5/21/2013	8	27	OK
MW-35	Gross Radium Alpha	5/13/2013	5/25/2013	12	180	OK
MW-35	Iron	5/13/2013	5/22/2013	9	180	OK
MW-35	Lead	5/13/2013	5/22/2013	9	180	OK
MW-35	Magnesium	5/13/2013	5/24/2013	11	180	OK
MW-35	Manganese	5/13/2013	5/22/2013	9	180	OK
MW-35	Mercury	5/13/2013	5/21/2013	8	180	OK
MW-35	Methylene chloride	5/13/2013	5/19/2013	6	14	OK
MW-35	Molybdenum	5/13/2013	5/22/2013	9	180	OK
MW-35	Naphthalene	5/13/2013	5/19/2013	6	14	OK
MW-35	Nickel	5/13/2013	5/22/2013	9	180	OK
MW-35	Nitrate/Nitrite (as N)	5/13/2013	5/24/2013	11	28	OK
MW-35	Potassium	5/13/2013	5/28/2013	15	180	OK
MW-35	Selenium	5/13/2013	5/22/2013	9	180	OK
MW-35	Silver	5/13/2013	5/22/2013	9	180	OK
MW-35	Sodium	5/13/2013	5/28/2013	15	180	OK
MW-35	Sulfate	5/13/2013	5/21/2013	8	28	OK
MW-35	Tetrahydrofuran	5/13/2013	5/19/2013	6	14	OK
MW-35	Thallium	5/13/2013	5/22/2013	9	180	OK
MW-35	Tin	5/13/2013	5/24/2013	11	180	OK
MW-35	Toluene	5/13/2013	5/19/2013	6	14	OK
MW-35	Total Dissolved Solids	5/13/2013	5/17/2013	4	7	OK
MW-35	Uranium	5/13/2013	5/22/2013	9	180	OK
MW-35	Vanadium	5/13/2013	5/28/2013	15	180	OK
MW-35	Xylenes, Total	5/13/2013	5/19/2013	6	14	OK
MW-35	Zinc	5/13/2013	5/22/2013	9	180	OK
MW-36	2-Butanone	5/14/2013	5/19/2013	5	14	OK
MW-36	Acetone	5/14/2013	5/19/2013	5	14	OK
MW-36	Ammonia (as N)	5/14/2013	5/23/2013	9	28	OK
MW-36	Arsenic	5/14/2013	5/22/2013	8	180	OK
MW-36	Benzene	5/14/2013	5/19/2013	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-36	Beryllium	5/14/2013	5/22/2013	8	180	OK
MW-36	Bicarbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-36	Cadmium	5/14/2013	5/22/2013	8	180	OK
MW-36	Calcium	5/14/2013	5/24/2013	10	180	OK
MW-36	Carbon tetrachloride	5/14/2013	5/19/2013	5	14	OK
MW-36	Carbonate (as CaCO3)	5/14/2013	5/20/2013	6	14	OK
MW-36	Chloride	5/14/2013	5/21/2013	7	28	OK
MW-36	Chloroform	5/14/2013	5/19/2013	5	14	OK
MW-36	Chloromethane	5/14/2013	5/19/2013	5	14	OK
MW-36	Chromium	5/14/2013	5/22/2013	8	180	OK
MW-36	Cobalt	5/14/2013	5/22/2013	8	180	OK
MW-36	Copper	5/14/2013	5/22/2013	8	180	OK
MW-36	Fluoride	5/14/2013	5/21/2013	7	27	OK
MW-36	Gross Radium Alpha	5/14/2013	5/25/2013	11	180	OK
MW-36	Iron	5/14/2013	5/22/2013	8	180	OK
MW-36	Lead	5/14/2013	5/22/2013	8	180	OK
MW-36	Magnesium	5/14/2013	5/24/2013	10	180	OK
MW-36	Manganese	5/14/2013	5/22/2013	8	180	OK
MW-36	Mercury	5/14/2013	5/21/2013	7	180	OK
MW-36	Methylene chloride	5/14/2013	5/19/2013	5	14	OK
MW-36	Molybdenum	5/14/2013	5/22/2013	8	180	OK
MW-36	Naphthalene	5/14/2013	5/19/2013	5	14	OK
MW-36	Nickel	5/14/2013	5/22/2013	8	180	OK
MW-36	Nitrate/Nitrite (as N)	5/14/2013	5/24/2013	10	28	OK
MW-36	Potassium	5/14/2013	5/28/2013	14	180	OK
MW-36	Selenium	5/14/2013	5/22/2013	8	180	OK
MW-36	Silver	5/14/2013	5/22/2013	8	180	OK
MW-36	Sodium	5/14/2013	5/28/2013	14	180	OK
MW-36	Sulfate	5/14/2013	5/21/2013	7	28	OK
MW-36	Tetrahydrofuran	5/14/2013	5/19/2013	5	14	OK
MW-36	Thallium	5/14/2013	5/22/2013	8	180	OK
MW-36	Tin	5/14/2013	5/24/2013	10	180	OK
MW-36	Toluene	5/14/2013	5/19/2013	5	14	OK
MW-36	Total Dissolved Solids	5/14/2013	5/17/2013	3	7	OK
MW-36	Uranium	5/14/2013	5/22/2013	8	180	OK
MW-36	Vanadium	5/14/2013	5/28/2013	14	180	OK
MW-36	Xylenes, Total	5/14/2013	5/19/2013	5	14	OK
MW-36	Zinc	5/14/2013	5/22/2013	8	180	OK
MW-37	2-Butanone	6/3/2013	6/5/2013	2	14	OK
MW-37	Acetone	6/3/2013	6/5/2013	2	14	OK
MW-37	Ammonia (as N)	6/3/2013	6/17/2013	14	28	OK
MW-37	Arsenic	6/3/2013	6/13/2013	10	180	OK
MW-37	Benzene	6/3/2013	6/5/2013	2	14	OK
MW-37	Beryllium	6/3/2013	6/13/2013	10	180	OK
MW-37	Bicarbonate (as CaCO3)	6/3/2013	6/6/2013	3	14	OK
MW-37	Cadmium	6/3/2013	6/10/2013	7	180	OK
MW-37	Calcium	6/3/2013	6/10/2013	7	180	OK
MW-37	Carbon tetrachloride	6/3/2013	6/5/2013	2	14	OK
MW-37	Carbonate (as CaCO3)	6/3/2013	6/6/2013	3	14	OK
MW-37	Chloride	6/3/2013	6/10/2013	7	28	OK
MW-37	Chloroform	6/3/2013	6/5/2013	2	14	OK
MW-37	Chloromethane	6/3/2013	6/5/2013	2	14	OK
MW-37	Chromium	6/3/2013	6/13/2013	10	180	OK
MW-37	Cobalt	6/3/2013	6/13/2013	10	180	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-37	Copper	6/3/2013	6/13/2013	10	180	OK
MW-37	Fluoride	6/3/2013	6/11/2013	8	27	OK
MW-37	Gross Radium Alpha	6/3/2013	6/20/2013	17	180	OK
MW-37	Iron	6/3/2013	6/13/2013	10	180	OK
MW-37	Lead	6/3/2013	6/13/2013	10	180	OK
MW-37	Magnesium	6/3/2013	6/10/2013	7	180	OK
MW-37	Manganese	6/3/2013	6/13/2013	10	180	OK
MW-37	Mercury	6/3/2013	6/8/2013	5	180	OK
MW-37	Methylene chloride	6/3/2013	6/5/2013	2	14	OK
MW-37	Molybdenum	6/3/2013	6/13/2013	10	180	OK
MW-37	Naphthalene	6/3/2013	6/5/2013	2	14	OK
MW-37	Nickel	6/3/2013	6/13/2013	10	180	OK
MW-37	Nitrate/Nitrite (as N)	6/3/2013	6/5/2013	2	28	OK
MW-37	Potassium	6/3/2013	6/13/2013	10	180	OK
MW-37	Selenium	6/3/2013	6/13/2013	10	180	OK
MW-37	Silver	6/3/2013	6/10/2013	7	180	OK
MW-37	Sodium	6/3/2013	6/10/2013	7	180	OK
MW-37	Sulfate	6/3/2013	6/13/2013	10	28	OK
MW-37	Tetrahydrofuran	6/3/2013	6/5/2013	2	14	OK
MW-37	Thallium	6/3/2013	6/14/2013	11	180	OK
MW-37	Tin	6/3/2013	6/10/2013	7	180	OK
MW-37	Toluene	6/3/2013	6/5/2013	2	14	OK
MW-37	Total Dissolved Solids	6/3/2013	6/7/2013	4	7	OK
MW-37	Uranium	6/3/2013	6/13/2013	10	180	OK
MW-37	Vanadium	6/3/2013	6/13/2013	10	180	OK
MW-37	Xylenes, Total	6/3/2013	6/5/2013	2	14	OK
MW-37	Zinc	6/3/2013	6/13/2013	10	180	OK
MW-65	2-Butanone	5/21/2013	5/28/2013	7	14	OK
MW-65	Acetone	5/21/2013	5/28/2013	7	14	OK
MW-65	Ammonia (as N)	5/21/2013	6/3/2013	13	28	OK
MW-65	Arsenic	5/21/2013	5/30/2013	9	180	OK
MW-65	Benzene	5/21/2013	5/28/2013	7	14	OK
MW-65	Beryllium	5/21/2013	6/4/2013	14	180	OK
MW-65	Bicarbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-65	Cadmium	5/21/2013	5/31/2013	10	180	OK
MW-65	Calcium	5/21/2013	6/4/2013	14	180	OK
MW-65	Carbon tetrachloride	5/21/2013	5/28/2013	7	14	OK
MW-65	Carbonate (as CaCO3)	5/21/2013	5/28/2013	7	14	OK
MW-65	Chloride	5/21/2013	5/25/2013	4	28	OK
MW-65	Chloroform	5/21/2013	5/28/2013	7	14	OK
MW-65	Chloromethane	5/21/2013	5/28/2013	7	14	OK
MW-65	Chromium	5/21/2013	5/31/2013	10	180	OK
MW-65	Cobalt	5/21/2013	5/30/2013	9	180	OK
MW-65	Copper	5/21/2013	6/3/2013	13	180	OK
MW-65	Fluoride	5/21/2013	5/25/2013	4	27	OK
MW-65	Gross Radium Alpha	5/21/2013	6/5/2013	15	180	OK
MW-65	Iron	5/21/2013	6/4/2013	14	180	OK
MW-65	Lead	5/21/2013	5/31/2013	10	180	OK
MW-65	Magnesium	5/21/2013	6/4/2013	14	180	OK
MW-65	Manganese	5/21/2013	6/3/2013	13	180	OK
MW-65	Mercury	5/21/2013	5/29/2013	8	180	OK
MW-65	Methylene chloride	5/21/2013	5/28/2013	7	14	OK
MW-65	Molybdenum	5/21/2013	5/30/2013	9	180	OK
MW-65	Naphthalene	5/21/2013	5/28/2013	7	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Nickel	5/21/2013	5/30/2013	9	180	OK
MW-65	Nitrate/Nitrite (as N)	5/21/2013	6/3/2013	13	28	OK
MW-65	Potassium	5/21/2013	6/4/2013	14	180	OK
MW-65	Selenium	5/21/2013	5/30/2013	9	180	OK
MW-65	Silver	5/21/2013	5/31/2013	10	180	OK
MW-65	Sodium	5/21/2013	6/4/2013	14	180	OK
MW-65	Sulfate	5/21/2013	5/25/2013	4	28	OK
MW-65	Tetrahydrofuran	5/21/2013	5/28/2013	7	14	OK
MW-65	Thallium	5/21/2013	5/31/2013	10	180	OK
MW-65	Tin	5/21/2013	5/31/2013	10	180	OK
MW-65	Toluene	5/21/2013	5/28/2013	7	14	OK
MW-65	Total Dissolved Solids	5/21/2013	5/25/2013	4	7	OK
MW-65	Uranium	5/21/2013	5/31/2013	10	180	OK
MW-65	Vanadium	5/21/2013	6/4/2013	14	180	OK
MW-65	Xylenes, Total	5/21/2013	5/28/2013	7	14	OK
MW-65	Zinc	5/21/2013	5/30/2013	9	180	OK
MW-70	2-Butanone	5/23/2013	5/28/2013	5	14	OK
MW-70	Acetone	5/23/2013	5/28/2013	5	14	OK
MW-70	Ammonia (as N)	5/23/2013	6/3/2013	11	28	OK
MW-70	Arsenic	5/23/2013	5/30/2013	7	180	OK
MW-70	Benzene	5/23/2013	5/28/2013	5	14	OK
MW-70	Beryllium	5/23/2013	6/4/2013	12	180	OK
MW-70	Bicarbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-70	Cadmium	5/23/2013	5/31/2013	8	180	OK
MW-70	Calcium	5/23/2013	6/4/2013	12	180	OK
MW-70	Carbon tetrachloride	5/23/2013	5/28/2013	5	14	OK
MW-70	Carbonate (as CaCO3)	5/23/2013	5/28/2013	5	14	OK
MW-70	Chloride	5/23/2013	5/25/2013	2	28	OK
MW-70	Chloroform	5/23/2013	5/28/2013	5	14	OK
MW-70	Chloromethane	5/23/2013	5/28/2013	5	14	OK
MW-70	Chromium	5/23/2013	5/31/2013	8	180	OK
MW-70	Cobalt	5/23/2013	5/30/2013	7	180	OK
MW-70	Copper	5/23/2013	6/4/2013	12	180	OK
MW-70	Fluoride	5/23/2013	5/25/2013	2	27	OK
MW-70	Gross Radium Alpha	5/23/2013	6/28/2013	36	180	OK
MW-70	Iron	5/23/2013	6/4/2013	12	180	OK
MW-70	Lead	5/23/2013	5/31/2013	8	180	OK
MW-70	Magnesium	5/23/2013	6/4/2013	12	180	OK
MW-70	Manganese	5/23/2013	6/4/2013	12	180	OK
MW-70	Mercury	5/23/2013	5/29/2013	6	180	OK
MW-70	Methylene chloride	5/23/2013	5/28/2013	5	14	OK
MW-70	Molybdenum	5/23/2013	5/30/2013	7	180	OK
MW-70	Naphthalene	5/23/2013	5/28/2013	5	14	OK
MW-70	Nickel	5/23/2013	5/30/2013	7	180	OK
MW-70	Nitrate/Nitrite (as N)	5/23/2013	6/3/2013	11	28	OK
MW-70	Potassium	5/23/2013	6/4/2013	12	180	OK
MW-70	Selenium	5/23/2013	5/30/2013	7	180	OK
MW-70	Silver	5/23/2013	5/31/2013	8	180	OK
MW-70	Sodium	5/23/2013	6/4/2013	12	180	OK
MW-70	Sulfate	5/23/2013	5/25/2013	2	28	OK
MW-70	Tetrahydrofuran	5/23/2013	5/28/2013	5	14	OK
MW-70	Thallium	5/23/2013	5/31/2013	8	180	OK
MW-70	Tin	5/23/2013	5/31/2013	8	180	OK
MW-70	Toluene	5/23/2013	5/28/2013	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-70	Total Dissolved Solids	5/23/2013	5/25/2013	2	7	OK
MW-70	Uranium	5/23/2013	5/31/2013	8	180	OK
MW-70	Vanadium	5/23/2013	6/4/2013	12	180	OK
MW-70	Xylenes, Total	5/23/2013	5/28/2013	5	14	OK
MW-70	Zinc	5/23/2013	6/4/2013	12	180	OK
Trip Blank	2-Butanone	5/13/2013	5/19/2013	6	14	OK
Trip Blank	2-Butanone	5/20/2013	5/28/2013	8	14	OK
Trip Blank	2-Butanone	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Acetone	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Acetone	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Acetone	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Benzene	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Benzene	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Benzene	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Carbon tetrachloride	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Carbon tetrachloride	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Carbon tetrachloride	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Chloroform	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Chloroform	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Chloroform	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Chloromethane	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Chloromethane	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Chloromethane	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Methylene chloride	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Methylene chloride	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Methylene chloride	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Naphthalene	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Naphthalene	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Naphthalene	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Tetrahydrofuran	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Tetrahydrofuran	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Tetrahydrofuran	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Toluene	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Toluene	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Toluene	6/3/2013	6/5/2013	2	14	OK
Trip Blank	Xylenes, Total	5/13/2013	5/19/2013	6	14	OK
Trip Blank	Xylenes, Total	5/20/2013	5/28/2013	8	14	OK
Trip Blank	Xylenes, Total	6/3/2013	6/5/2013	2	14	OK

## G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	4/17/2013	4/22/2013	5	14	OK
Trip Blank	Methylene chloride	4/17/2013	4/22/2013	5	14	OK
Trip Blank	Carbon tetrachloride	6/5/2013	6/8/2013	3	14	OK
Trip Blank	Chloroform	6/5/2013	6/8/2013	3	14	OK
Trip Blank	Chloromethane	6/5/2013	6/8/2013	3	14	OK
Trip Blank	Methylene chloride	6/5/2013	6/8/2013	3	14	OK
Trip Blank	Chloromethane	6/24/2013	6/27/2013	3	14	OK
Trip Blank	Methylene chloride	6/24/2013	6/27/2013	3	14	OK
MW-11	Manganese	4/16/2013	4/25/2013	9	180	OK
MW-11	Manganese	6/25/2013	7/3/2013	8	180	OK
MW-14	Manganese	4/16/2013	4/25/2013	9	180	OK
MW-14	Manganese	6/25/2013	7/3/2013	8	180	OK
MW-25	Cadmium	4/17/2013	4/22/2013	5	180	OK
MW-25	Uranium	4/17/2013	4/25/2013	8	180	OK
MW-25	Chloride	6/24/2013	7/1/2013	7	28	OK
MW-25	Cadmium	6/24/2013	7/2/2013	8	180	OK
MW-25	Uranium	6/24/2013	7/2/2013	8	180	OK
MW-26	Chloride	4/17/2013	4/23/2013	6	28	OK
MW-26	Chloroform	4/17/2013	4/22/2013	5	14	OK
MW-26	Uranium	4/17/2013	4/25/2013	8	180	OK
MW-26	Methylene chloride	4/17/2013	4/22/2013	5	14	OK
MW-26	Nitrate/Nitrite (as N)	4/17/2013	4/26/2013	9	28	OK
MW-26	Chloride	6/5/2013	6/10/2013	5	28	OK
MW-26	Carbon tetrachloride	6/5/2013	6/7/2013	2	14	OK
MW-26	Chloroform	6/5/2013	6/8/2013	3	14	OK
MW-26	Chloromethane	6/5/2013	6/7/2013	2	14	OK
MW-26	Methylene chloride	6/5/2013	6/7/2013	2	14	OK
MW-26	Nitrate/Nitrite (as N)	6/5/2013	6/13/2013	8	28	OK
MW-26	Chloride	6/25/2013	7/1/2013	6	28	OK
MW-26	Chloromethane	6/25/2013	6/27/2013	2	14	OK
MW-26	Uranium	6/25/2013	7/2/2013	7	180	OK
MW-26	Methylene chloride	6/25/2013	6/27/2013	2	14	OK
MW-26	Nitrate/Nitrite (as N)	6/25/2013	7/5/2013	10	28	OK
MW-30	Chloride	4/17/2013	4/23/2013	6	28	OK
MW-30	Uranium	4/17/2013	4/25/2013	8	180	OK
MW-30	Selenium	4/17/2013	4/25/2013	8	180	OK
MW-30	Nitrate/Nitrite (as N)	4/17/2013	4/26/2013	9	28	OK
MW-30	Chloride	6/25/2013	7/1/2013	6	28	OK
MW-30	Selenium	6/25/2013	7/2/2013	7	180	OK
MW-30	Nitrate/Nitrite (as N)	6/25/2013	7/5/2013	10	28	OK
MW-31	Sulfate	4/16/2013	4/22/2013	6	28	OK
MW-31	Chloride	4/16/2013	4/23/2013	7	28	OK
MW-31	Selenium	4/16/2013	4/25/2013	9	180	OK
MW-31	Nitrate/Nitrite (as N)	4/16/2013	4/26/2013	10	28	OK
MW-31	Total Dissolved Solids	4/16/2013	4/19/2013	3	7	OK
MW-31	Sulfate	6/24/2013	7/1/2013	7	28	OK
MW-31	Chloride	6/24/2013	7/1/2013	7	28	OK
MW-31	Selenium	6/24/2013	7/2/2013	8	180	OK
MW-31	Nitrate/Nitrite (as N)	6/24/2013	7/5/2013	11	28	OK
MW-31	Total Dissolved Solids	6/24/2013	6/28/2013	4	7	OK
MW-35	Manganese	4/17/2013	4/25/2013	8	180	OK
MW-35	Molybdenum	4/17/2013	4/22/2013	5	180	OK
MW-35	Thallium	4/17/2013	4/25/2013	8	180	OK
MW-35	Uranium	4/17/2013	4/25/2013	8	180	OK

## G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Selenium	4/17/2013	4/25/2013	8	180	OK
MW-35	Gross Radium Alpha	4/17/2013	4/28/2013	11	180	OK
MW-35	Manganese	6/24/2013	7/3/2013	9	180	OK
MW-35	Molybdenum	6/24/2013	7/3/2013	9	180	OK
MW-35	Thallium	6/24/2013	7/1/2013	7	180	OK
MW-35	Uranium	6/24/2013	7/2/2013	8	180	OK
MW-35	Selenium	6/24/2013	7/2/2013	8	180	OK
MW-35	Gross Radium Alpha	6/24/2013	7/19/2013	25	180	OK
MW-65	Cadmium	4/17/2013	4/22/2013	5	180	OK
MW-65	Uranium	4/17/2013	4/25/2013	8	180	OK
MW-65	Manganese	6/25/2013	7/3/2013	8	180	OK

G-3A: Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 326481	MW-01, MW-02, MW-03, MW-03A, MW-17, MW-18, MW-19, MW-22, MW-23, MW-24, MW-26, MW-27, MW-29, MW-65, MW-70	NA
GEL 325944	MW-05, MW-11, MW-12, MW-14, MW-15, MW-25, MW-28, MW-30, MW-31, MW-32, MW-35, MW-36	NA
GEL 327219	MW-20, MW-37	NA
AWAL 1305419	MW-05, MW-11, MW-12, MW-14, MW-15, MW-25, MW-28, MW-30, MW-31, MW-32, MW-35, MW-36	3.0°C
AWAL 1305551	MW-01, MW-02, MW-03, MW-03A, MW-17, MW-18, MW-19, MW-22, MW-23, MW-24, MW-26, MW-27, MW-29, MW-65, MW-70	4.0°C
AWAL 1306068	MW-20, MW-37	6.0°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: Laboratory Receipt Temperature Check - Accelerated Samples

Sample Batch	Wells in Batch	Temperature
GEL 324225	MW-35	NA
AWAL 1304547	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	1.5 °C
GEL 328448	MW-35	NA
AWAL 1306566	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	1.9 °C
AWAL 1306139	MW-26	2.2 °C

G-4A: 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	E900.1
VOCs	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
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 <sub>3</sub> , Bicarbonate as HCO <sub>3</sub>	A2320 B	A2320 B
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

G-4B: Analytical Method Check - Accelerated Samples

Parameter	QAP Method*	Method Used by Lab
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 or E200.8
Gross Alpha	E900.0 or E900.1	E900.1
VOCs	SW8260B or SW8260C	SW8260C
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 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-01	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-01	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-01	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-01	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-01	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-01	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-01	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-01	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-01	Calcium	20	mg/l		0.5	mg/l	OK	20
MW-01	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-01	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-01	Chloride	5	mg/l		1	mg/l	OK	5
MW-01	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-01	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-01	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-01	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-01	Copper	10	ug/L	U	10	ug/L	OK	20
MW-01	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-01	Gross Radium Alpha	0.834	pCi/L	U	1	pCi/L	OK	1
MW-01	Iron	30	ug/L		30	ug/L	OK	5
MW-01	Lead	1	ug/L	U	1	ug/L	OK	5

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-01	Magnesium	20	mg/l		0.5	mg/l	OK	20
MW-01	Manganese	10	ug/L		10	ug/L	OK	20
MW-01	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-01	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-01	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-01	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-01	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-01	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-01	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-01	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-01	Silver	10	ug/L	U	10	ug/L	OK	20
MW-01	Sodium	20	mg/l		0.5	mg/l	OK	20
MW-01	Sulfate	100	mg/l		1	mg/l	OK	100
MW-01	Tetrahydrofuran	1	ug/L		1	ug/L	OK	1
MW-01	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-01	Tin	100	ug/L	U	100	ug/L	OK	20
MW-01	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-01	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-01	Uranium	0.3	ug/L	U	0.3	ug/L	OK	2
MW-01	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-01	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-01	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-02	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-02	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-02	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-02	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-02	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-02	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-02	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-02	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-02	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-02	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-02	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-02	Chloride	1	mg/l		1	mg/l	OK	1
MW-02	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-02	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-02	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-02	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-02	Copper	10	ug/L	U	10	ug/L	OK	20
MW-02	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-02	Gross Radium Alpha	0.995	pCi/L		1	pCi/L	OK	1
MW-02	Iron	30	ug/L	U	30	ug/L	OK	5
MW-02	Lead	1	ug/L	U	1	ug/L	OK	5
MW-02	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-02	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-02	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-02	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-02	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-02	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-02	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-02	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-02	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-02	Selenium	5	ug/L		5	ug/L	OK	20
MW-02	Silver	10	ug/L	U	10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-02	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-02	Sulfate	500	mg/l		1	mg/l	OK	500
MW-02	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-02	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-02	Tin	100	ug/L	U	100	ug/L	OK	20
MW-02	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-02	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-02	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-02	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-02	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-02	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-03	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-03	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-03	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-03	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-03	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-03	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-03	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-03	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-03	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-03	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-03	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-03	Chloride	10	mg/l		1	mg/l	OK	10
MW-03	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-03	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-03	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-03	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-03	Copper	10	ug/L	U	10	ug/L	OK	20
MW-03	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-03	Gross Radium Alpha	0.706	pCi/L	U	1	pCi/L	OK	1
MW-03	Iron	30	ug/L	U	30	ug/L	OK	5
MW-03	Lead	1	ug/L	U	1	ug/L	OK	5
MW-03	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-03	Manganese	10	ug/L		10	ug/L	OK	20
MW-03	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-03	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-03	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-03	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-03	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-03	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-03	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-03	Selenium	5	ug/L		5	ug/L	OK	20
MW-03	Silver	10	ug/L	U	10	ug/L	OK	20
MW-03	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-03	Sulfate	500	mg/l		1	mg/l	OK	500
MW-03	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-03	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-03	Tin	100	ug/L	U	100	ug/L	OK	20
MW-03	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-03	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-03	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-03	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-03	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-03	Zinc	10	ug/L		10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-03A	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-03A	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-03A	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-03A	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-03A	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-03A	Beryllium	0.5	ug/L		0.5	ug/L	OK	5
MW-03A	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-03A	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-03A	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-03A	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-03A	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-03A	Chloride	10	mg/l		1	mg/l	OK	10
MW-03A	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-03A	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-03A	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-03A	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-03A	Copper	10	ug/L	U	10	ug/L	OK	20
MW-03A	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-03A	Gross Radium Alpha	0.938	pCi/L	U	1	pCi/L	OK	1
MW-03A	Iron	30	ug/L	U	30	ug/L	OK	5
MW-03A	Lead	1	ug/L	U	1	ug/L	OK	5
MW-03A	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-03A	Manganese	10	ug/L		10	ug/L	OK	20
MW-03A	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-03A	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-03A	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-03A	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-03A	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-03A	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-03A	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-03A	Selenium	5	ug/L		5	ug/L	OK	20
MW-03A	Silver	10	ug/L	U	10	ug/L	OK	20
MW-03A	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-03A	Sulfate	500	mg/l		1	mg/l	OK	500
MW-03A	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-03A	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-03A	Tin	100	ug/L	U	100	ug/L	OK	20
MW-03A	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-03A	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-03A	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-03A	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-03A	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-03A	Zinc	10	ug/L		10	ug/L	OK	20
MW-05	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-05	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-05	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-05	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-05	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-05	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-05	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-05	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-05	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-05	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-05	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-05	Chloride	10	mg/l		1	mg/l	OK	10
MW-05	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-05	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-05	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-05	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-05	Copper	10	ug/L	U	10	ug/L	OK	20
MW-05	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-05	Gross Radium Alpha	0.644	pCi/L	U	1	pCi/L	OK	1
MW-05	Iron	30	ug/L		30	ug/L	OK	5
MW-05	Lead	1	ug/L	U	1	ug/L	OK	5
MW-05	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-05	Manganese	10	ug/L		10	ug/L	OK	20
MW-05	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-05	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-05	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-05	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-05	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-05	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-05	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-05	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-05	Silver	10	ug/L	U	10	ug/L	OK	20
MW-05	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-05	Sulfate	500	mg/l		1	mg/l	OK	500
MW-05	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-05	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-05	Tin	100	ug/L	U	100	ug/L	OK	20
MW-05	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-05	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-05	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-05	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-05	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-05	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-11	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-11	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-11	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-11	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-11	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-11	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-11	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-11	Calcium	10	mg/l		0.5	mg/l	OK	10
MW-11	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-11	Chloride	5	mg/l		1	mg/l	OK	5
MW-11	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-11	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-11	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-11	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-11	Copper	10	ug/L	U	10	ug/L	OK	20
MW-11	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-11	Gross Radium Alpha	0.608	pCi/L	U	1	pCi/L	OK	1
MW-11	Iron	30	ug/L		30	ug/L	OK	5
MW-11	Lead	1	ug/L	U	1	ug/L	OK	5
MW-11	Magnesium	10	mg/l		0.5	mg/l	OK	10

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-11	Manganese	10	ug/L		10	ug/L	OK	20
MW-11	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-11	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-11	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-11	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-11	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-11	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-11	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-11	Silver	10	ug/L	U	10	ug/L	OK	20
MW-11	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-11	Sulfate	500	mg/l		1	mg/l	OK	500
MW-11	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-11	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Tin	100	ug/L	U	100	ug/L	OK	20
MW-11	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-11	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-11	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-11	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-11	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-11	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-12	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-12	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-12	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-12	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-12	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-12	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-12	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-12	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-12	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-12	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-12	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-12	Chloride	10	mg/l		1	mg/l	OK	10
MW-12	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-12	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-12	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-12	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-12	Copper	10	ug/L	U	10	ug/L	OK	20
MW-12	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-12	Gross Radium Alpha	0.637	pCi/L	U	1	pCi/L	OK	1
MW-12	Iron	30	ug/L	U	30	ug/L	OK	5
MW-12	Lead	1	ug/L	U	1	ug/L	OK	5
MW-12	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-12	Manganese	10	ug/L		10	ug/L	OK	20
MW-12	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-12	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-12	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-12	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-12	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-12	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-12	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-12	Selenium	5	ug/L		5	ug/L	OK	20
MW-12	Silver	10	ug/L	U	10	ug/L	OK	20
MW-12	Sodium	100	mg/l		0.5	mg/l	OK	100

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-12	Sulfate	500	mg/l		1	mg/l	OK	500
MW-12	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-12	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-12	Tin	100	ug/L	U	100	ug/L	OK	20
MW-12	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-12	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-12	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-12	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-12	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-12	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-14	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-14	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-14	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-14	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-14	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-14	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-14	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-14	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-14	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-14	Chloride	5	mg/l		1	mg/l	OK	5
MW-14	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-14	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-14	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-14	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-14	Copper	10	ug/L	U	10	ug/L	OK	20
MW-14	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-14	Gross Radium Alpha	0.597	pCi/L	U	1	pCi/L	OK	1
MW-14	Iron	30	ug/L	U	30	ug/L	OK	5
MW-14	Lead	1	ug/L	U	1	ug/L	OK	5
MW-14	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-14	Manganese	10	ug/L		10	ug/L	OK	50
MW-14	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-14	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-14	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-14	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-14	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-14	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-14	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-14	Silver	10	ug/L	U	10	ug/L	OK	20
MW-14	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-14	Sulfate	500	mg/l		1	mg/l	OK	500
MW-14	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-14	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Tin	100	ug/L	U	100	ug/L	OK	20
MW-14	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-14	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-14	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-14	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-14	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-14	Zinc	10	ug/L		10	ug/L	OK	20
MW-15	2-Butanone	20	ug/L	U	20	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-15	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-15	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-15	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-15	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-15	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-15	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-15	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-15	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-15	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-15	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-15	Chloride	5	mg/l		1	mg/l	OK	5
MW-15	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-15	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-15	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-15	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-15	Copper	10	ug/L	U	10	ug/L	OK	20
MW-15	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-15	Gross Radium Alpha	0.837	pCi/L	U	1	pCi/L	OK	1
MW-15	Iron	30	ug/L	U	30	ug/L	OK	5
MW-15	Lead	1	ug/L	U	1	ug/L	OK	5
MW-15	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-15	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-15	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-15	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-15	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-15	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-15	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-15	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-15	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-15	Selenium	5	ug/L		5	ug/L	OK	20
MW-15	Silver	10	ug/L	U	10	ug/L	OK	20
MW-15	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-15	Sulfate	500	mg/l		1	mg/l	OK	500
MW-15	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-15	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-15	Tin	100	ug/L	U	100	ug/L	OK	20
MW-15	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-15	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-15	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-15	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-15	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-15	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-17	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-17	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-17	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-17	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-17	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-17	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-17	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-17	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-17	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-17	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-17	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-17	Chloride	10	mg/l		1	mg/l	OK	10

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-17	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-17	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-17	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-17	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-17	Copper	10	ug/L	U	10	ug/L	OK	20
MW-17	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-17	Gross Radium Alpha	0.801	pCi/L	U	1	pCi/L	OK	1
MW-17	Iron	30	ug/L	U	30	ug/L	OK	5
MW-17	Lead	1	ug/L	U	1	ug/L	OK	5
MW-17	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-17	Manganese	10	ug/L		10	ug/L	OK	20
MW-17	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-17	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-17	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-17	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-17	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-17	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-17	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-17	Selenium	5	ug/L		5	ug/L	OK	20
MW-17	Silver	10	ug/L	U	10	ug/L	OK	20
MW-17	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-17	Sulfate	500	mg/l		1	mg/l	OK	500
MW-17	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-17	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-17	Tin	100	ug/L	U	100	ug/L	OK	20
MW-17	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-17	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-17	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-17	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-17	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-17	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-18	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-18	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-18	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-18	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-18	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-18	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-18	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-18	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-18	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-18	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-18	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-18	Chloride	10	mg/l		1	mg/l	OK	10
MW-18	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-18	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-18	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-18	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-18	Copper	10	ug/L	U	10	ug/L	OK	20
MW-18	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-18	Gross Radium Alpha	0.79	pCi/L		1	pCi/L	OK	1
MW-18	Iron	30	ug/L		30	ug/L	OK	5
MW-18	Lead	1	ug/L	U	1	ug/L	OK	5
MW-18	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-18	Manganese	10	ug/L		10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-18	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-18	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-18	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-18	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-18	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-18	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-18	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-18	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-18	Silver	10	ug/L	U	10	ug/L	OK	20
MW-18	Sodium	20	mg/l		0.5	mg/l	OK	20
MW-18	Sulfate	500	mg/l		1	mg/l	OK	500
MW-18	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-18	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-18	Tin	100	ug/L	U	100	ug/L	OK	20
MW-18	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-18	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-18	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-18	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-18	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-18	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-19	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-19	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-19	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-19	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-19	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-19	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-19	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-19	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-19	Calcium	10	mg/l		0.5	mg/l	OK	10
MW-19	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-19	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-19	Chloride	10	mg/l		1	mg/l	OK	10
MW-19	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-19	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-19	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-19	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-19	Copper	10	ug/L	U	10	ug/L	OK	20
MW-19	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-19	Gross Radium Alpha	0.702	pCi/L		1	pCi/L	OK	1
MW-19	Iron	30	ug/L	U	30	ug/L	OK	5
MW-19	Lead	1	ug/L	U	1	ug/L	OK	5
MW-19	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-19	Manganese	10	ug/L		10	ug/L	OK	20
MW-19	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-19	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-19	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-19	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-19	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-19	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-19	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-19	Selenium	5	ug/L		5	ug/L	OK	20
MW-19	Silver	10	ug/L	U	10	ug/L	OK	20
MW-19	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-19	Sulfate	100	mg/l		1	mg/l	OK	100

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-19	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-19	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-19	Tin	100	ug/L	U	100	ug/L	OK	20
MW-19	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-19	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-19	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-19	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-19	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-19	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-20	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-20	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-20	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-20	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-20	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-20	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-20	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-20	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-20	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-20	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-20	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-20	Chloride	10	mg/l		1	mg/l	OK	10
MW-20	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-20	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-20	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-20	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-20	Copper	10	ug/L	U	10	ug/L	OK	20
MW-20	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-20	Gross Radium Alpha	0.739	pCi/L	U	1	pCi/L	OK	1
MW-20	Iron	30	ug/L	U	30	ug/L	OK	5
MW-20	Lead	1	ug/L	U	1	ug/L	OK	5
MW-20	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-20	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-20	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-20	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-20	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-20	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-20	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-20	Nitrate/Nitrite (as N)	10	ug/L		0.1	ug/L	OK	100
MW-20	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-20	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-20	Silver	10	ug/L	U	10	ug/L	OK	20
MW-20	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-20	Sulfate	500	mg/l		1	mg/l	OK	500
MW-20	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-20	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-20	Tin	100	ug/L	U	100	ug/L	OK	20
MW-20	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-20	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-20	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-20	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-20	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-20	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-22	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-22	Acetone	20	ug/L	U	20	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-22	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-22	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-22	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-22	Beryllium	0.5	ug/L		0.5	ug/L	OK	5
MW-22	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-22	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-22	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-22	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-22	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-22	Chloride	10	mg/l		1	mg/l	OK	10
MW-22	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-22	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-22	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-22	Cobalt	10	ug/L		10	ug/L	OK	20
MW-22	Copper	10	ug/L		10	ug/L	OK	20
MW-22	Fluoride	1	mg/l		0.1	mg/l	OK	10
MW-22	Gross Radium Alpha	0.938	pCi/L		1	pCi/L	OK	1
MW-22	Iron	30	ug/L		30	ug/L	OK	5
MW-22	Lead	1	ug/L		1	ug/L	OK	5
MW-22	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-22	Manganese	50	ug/L		10	ug/L	OK	500
MW-22	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-22	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-22	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-22	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-22	Nickel	20	ug/L		20	ug/L	OK	20
MW-22	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-22	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-22	Selenium	5	ug/L		5	ug/L	OK	20
MW-22	Silver	10	ug/L	U	10	ug/L	OK	20
MW-22	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-22	Sulfate	1000	mg/l		1	mg/l	OK	1000
MW-22	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-22	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-22	Tin	100	ug/L	U	100	ug/L	OK	20
MW-22	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-22	Total Dissolved Solids	100	mg/l		10	mg/l	OK	10
MW-22	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-22	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-22	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-22	Zinc	10	ug/L		10	ug/L	OK	20
MW-23	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-23	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-23	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-23	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-23	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-23	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-23	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-23	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-23	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-23	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-23	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-23	Chloride	1	mg/l		1	mg/l	OK	1
MW-23	Chloroform	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-23	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-23	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-23	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-23	Copper	10	ug/L	U	10	ug/L	OK	20
MW-23	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-23	Gross Radium Alpha	0.585	pCi/L		1	pCi/L	OK	1
MW-23	Iron	30	ug/L	U	30	ug/L	OK	5
MW-23	Lead	1	ug/L	U	1	ug/L	OK	5
MW-23	Magnesium	20	mg/l		0.5	mg/l	OK	20
MW-23	Manganese	10	ug/L		10	ug/L	OK	20
MW-23	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-23	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-23	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-23	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-23	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-23	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-23	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-23	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-23	Silver	10	ug/L	U	10	ug/L	OK	20
MW-23	Sodium	20	mg/l		0.5	mg/l	OK	20
MW-23	Sulfate	500	mg/l		1	mg/l	OK	500
MW-23	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-23	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-23	Tin	100	ug/L	U	100	ug/L	OK	20
MW-23	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-23	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-23	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-23	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-23	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-23	Zinc	10	ug/L		10	ug/L	OK	20
MW-24	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-24	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-24	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-24	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-24	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-24	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-24	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-24	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-24	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-24	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-24	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-24	Chloride	10	mg/l		1	mg/l	OK	10
MW-24	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-24	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-24	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-24	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-24	Copper	10	ug/L	U	10	ug/L	OK	20
MW-24	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-24	Gross Radium Alpha	0.6	pCi/L		1	pCi/L	OK	1
MW-24	Iron	100	ug/L		30	ug/L	OK	20
MW-24	Lead	1	ug/L	U	1	ug/L	OK	5
MW-24	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-24	Manganese	10	ug/L		10	ug/L	OK	50
MW-24	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-24	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-24	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-24	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-24	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-24	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-24	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-24	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-24	Silver	10	ug/L	U	10	ug/L	OK	20
MW-24	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-24	Sulfate	500	mg/l		1	mg/l	OK	500
MW-24	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-24	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-24	Tin	100	ug/L	U	100	ug/L	OK	20
MW-24	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-24	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-24	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-24	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-24	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-24	Zinc	10	ug/L		10	ug/L	OK	20
MW-25	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-25	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-25	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-25	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-25	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-25	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-25	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-25	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-25	Chloride	5	mg/l		1	mg/l	OK	5
MW-25	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-25	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-25	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-25	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-25	Copper	10	ug/L	U	10	ug/L	OK	20
MW-25	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-25	Gross Radium Alpha	0.643	pCi/L		1	pCi/L	OK	1
MW-25	Iron	30	ug/L	U	30	ug/L	OK	5
MW-25	Lead	1	ug/L	U	1	ug/L	OK	5
MW-25	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-25	Manganese	10	ug/L		10	ug/L	OK	20
MW-25	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-25	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-25	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-25	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-25	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-25	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-25	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-25	Silver	10	ug/L	U	10	ug/L	OK	20
MW-25	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-25	Sulfate	500	mg/l		1	mg/l	OK	500
MW-25	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-25	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-25	Tin	100	ug/L	U	100	ug/L	OK	20
MW-25	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-25	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-25	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-25	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-25	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-25	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-26	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-26	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-26	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-26	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-26	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-26	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-26	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-26	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-26	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-26	Chloride	10	mg/l		1	mg/l	OK	10
MW-26	Chloroform	20	ug/L		1	ug/L	OK	20
MW-26	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-26	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-26	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-26	Copper	10	ug/L	U	10	ug/L	OK	20
MW-26	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-26	Gross Radium Alpha	0.908	pCi/L		1	pCi/L	OK	1
MW-26	Iron	30	ug/L		30	ug/L	OK	5
MW-26	Lead	1	ug/L	U	1	ug/L	OK	5
MW-26	Magnesium	20	mg/l		0.5	mg/l	OK	20
MW-26	Manganese	10	ug/L		10	ug/L	OK	20
MW-26	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-26	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-26	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-26	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-26	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-26	Selenium	5	ug/L		5	ug/L	OK	20
MW-26	Silver	10	ug/L	U	10	ug/L	OK	20
MW-26	Sodium	20	mg/l		0.5	mg/l	OK	20
MW-26	Sulfate	500	mg/l		1	mg/l	OK	500
MW-26	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-26	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Tin	100	ug/L	U	100	ug/L	OK	20
MW-26	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-26	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-26	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-26	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-26	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-26	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-27	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-27	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-27	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-27	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-27	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-27	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-27	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-27	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-27	Calcium	10	mg/l		0.5	mg/l	OK	10
MW-27	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-27	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-27	Chloride	10	mg/l		1	mg/l	OK	10
MW-27	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-27	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-27	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-27	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-27	Copper	10	ug/L	U	10	ug/L	OK	20
MW-27	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-27	Gross Radium Alpha	0.66	pCi/L		1	pCi/L	OK	1
MW-27	Iron	30	ug/L	U	30	ug/L	OK	5
MW-27	Lead	1	ug/L	U	1	ug/L	OK	5
MW-27	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-27	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-27	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-27	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-27	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-27	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-27	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-27	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-27	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-27	Selenium	5	ug/L		5	ug/L	OK	20
MW-27	Silver	10	ug/L	U	10	ug/L	OK	20
MW-27	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-27	Sulfate	100	mg/l		1	mg/l	OK	100
MW-27	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-27	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-27	Tin	100	ug/L	U	100	ug/L	OK	20
MW-27	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-27	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-27	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-27	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-27	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-27	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-28	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-28	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-28	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-28	Arsenic	5	ug/L		5	ug/L	OK	20
MW-28	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-28	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-28	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-28	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-28	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-28	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-28	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-28	Chloride	50	mg/l		1	mg/l	OK	50
MW-28	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-28	Chloromethane	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-28	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-28	Cobalt	10	ug/L		10	ug/L	OK	20
MW-28	Copper	10	ug/L	U	10	ug/L	OK	20
MW-28	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-28	Gross Radium Alpha	0.429	pCi/L		1	pCi/L	OK	1
MW-28	Iron	30	ug/L	U	30	ug/L	OK	5
MW-28	Lead	1	ug/L	U	1	ug/L	OK	5
MW-28	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-28	Manganese	10	ug/L		10	ug/L	OK	20
MW-28	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-28	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-28	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-28	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-28	Nickel	20	ug/L		20	ug/L	OK	20
MW-28	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-28	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-28	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-28	Silver	10	ug/L	U	10	ug/L	OK	20
MW-28	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-28	Sulfate	500	mg/l		1	mg/l	OK	500
MW-28	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-28	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-28	Tin	100	ug/L	U	100	ug/L	OK	20
MW-28	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-28	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-28	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-28	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-28	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-28	Zinc	10	ug/L		10	ug/L	OK	20
MW-29	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-29	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-29	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-29	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-29	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-29	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-29	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-29	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-29	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-29	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-29	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-29	Chloride	10	mg/l		1	mg/l	OK	10
MW-29	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-29	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-29	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-29	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-29	Copper	10	ug/L	U	10	ug/L	OK	20
MW-29	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-29	Gross Radium Alpha	0.282	pCi/L	U	1	pCi/L	OK	1
MW-29	Iron	100	ug/L		30	ug/L	OK	20
MW-29	Lead	1	ug/L	U	1	ug/L	OK	5
MW-29	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-29	Manganese	10	ug/L		10	ug/L	OK	100
MW-29	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-29	Methylene chloride	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-29	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-29	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-29	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-29	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-29	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-29	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-29	Silver	10	ug/L	U	10	ug/L	OK	20
MW-29	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-29	Sulfate	500	mg/l		1	mg/l	OK	500
MW-29	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-29	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-29	Tin	100	ug/L	U	100	ug/L	OK	20
MW-29	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-29	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-29	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-29	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-29	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-29	Zinc	10	ug/L	U	10	ug/L	OK	5
MW-30	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-30	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-30	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-30	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-30	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-30	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-30	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-30	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-30	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-30	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-30	Chloride	50	mg/l		1	mg/l	OK	50
MW-30	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-30	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-30	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-30	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-30	Copper	10	ug/L	U	10	ug/L	OK	20
MW-30	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-30	Gross Radium Alpha	0.314	pCi/L	U	1	pCi/L	OK	1
MW-30	Iron	30	ug/L		30	ug/L	OK	5
MW-30	Lead	1	ug/L	U	1	ug/L	OK	5
MW-30	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-30	Manganese	10	ug/L		10	ug/L	OK	20
MW-30	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-30	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-30	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-30	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-30	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-30	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-30	Selenium	5	ug/L		5	ug/L	OK	20
MW-30	Silver	10	ug/L	U	10	ug/L	OK	20
MW-30	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-30	Sulfate	100	mg/l		1	mg/l	OK	100
MW-30	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-30	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-30	Tin	100	ug/L	U	100	ug/L	OK	20
MW-30	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-30	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-30	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-30	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-30	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-30	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-31	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-31	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-31	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-31	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-31	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-31	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-31	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-31	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-31	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-31	Chloride	50	mg/l		1	mg/l	OK	50
MW-31	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-31	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-31	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-31	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-31	Copper	10	ug/L	U	10	ug/L	OK	20
MW-31	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-31	Gross Radium Alpha	0.437	pCi/L		1	pCi/L	OK	1
MW-31	Iron	30	ug/L	U	30	ug/L	OK	5
MW-31	Lead	1	ug/L	U	1	ug/L	OK	5
MW-31	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-31	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-31	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-31	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-31	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-31	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-31	Nitrate/Nitrite (as N)	2	ug/L		0.1	ug/L	OK	20
MW-31	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-31	Selenium	5	ug/L		5	ug/L	OK	20
MW-31	Silver	10	ug/L	U	10	ug/L	OK	20
MW-31	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-31	Sulfate	50	mg/l		1	mg/l	OK	50
MW-31	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-31	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Tin	100	ug/L	U	100	ug/L	OK	20
MW-31	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-31	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-31	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-31	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-31	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-31	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-32	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-32	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-32	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-32	Arsenic	5	ug/L	U	5	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-32	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-32	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-32	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-32	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-32	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-32	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-32	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-32	Chloride	10	mg/l		1	mg/l	OK	10
MW-32	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-32	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-32	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-32	Cobalt	10	ug/L		10	ug/L	OK	20
MW-32	Copper	10	ug/L	U	10	ug/L	OK	20
MW-32	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-32	Gross Radium Alpha	0.473	pCi/L		1	pCi/L	OK	1
MW-32	Iron	500	ug/L		30	ug/L	OK	100
MW-32	Lead	1	ug/L	U	1	ug/L	OK	5
MW-32	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-32	Manganese	10	ug/L		10	ug/L	OK	100
MW-32	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-32	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-32	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-32	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-32	Nickel	20	ug/L		20	ug/L	OK	20
MW-32	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-32	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-32	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-32	Silver	10	ug/L	U	10	ug/L	OK	20
MW-32	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-32	Sulfate	500	mg/l		1	mg/l	OK	500
MW-32	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-32	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-32	Tin	100	ug/L	U	100	ug/L	OK	20
MW-32	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-32	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-32	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-32	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-32	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-32	Zinc	10	ug/L		10	ug/L	OK	20
MW-35	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-35	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-35	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-35	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-35	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-35	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-35	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-35	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-35	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-35	Chloride	10	mg/l		1	mg/l	OK	10
MW-35	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-35	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-35	Chromium	25	ug/L	U	25	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-35	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-35	Copper	10	ug/L	U	10	ug/L	OK	20
MW-35	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-35	Gross Radium Alpha	0.891	pCi/L		1	pCi/L	OK	1
MW-35	Iron	30	ug/L		30	ug/L	OK	5
MW-35	Lead	1	ug/L	U	1	ug/L	OK	5
MW-35	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-35	Manganese	10	ug/L		10	ug/L	OK	20
MW-35	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-35	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-35	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-35	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-35	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-35	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-35	Selenium	5	ug/L		5	ug/L	OK	20
MW-35	Silver	10	ug/L	U	10	ug/L	OK	20
MW-35	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-35	Sulfate	500	mg/l		1	mg/l	OK	500
MW-35	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-35	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-35	Tin	100	ug/L	U	100	ug/L	OK	20
MW-35	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-35	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-35	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-35	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-35	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-35	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-36	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-36	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-36	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-36	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-36	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-36	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-36	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-36	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-36	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-36	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-36	Chloride	10	mg/l		1	mg/l	OK	10
MW-36	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-36	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-36	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-36	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-36	Copper	10	ug/L	U	10	ug/L	OK	20
MW-36	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-36	Gross Radium Alpha	0.698	pCi/L		1	pCi/L	OK	1
MW-36	Iron	30	ug/L	U	30	ug/L	OK	5
MW-36	Lead	1	ug/L	U	1	ug/L	OK	5
MW-36	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-36	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-36	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-36	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Molybdenum	10	ug/L	U	10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-36	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-36	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-36	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-36	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-36	Selenium	5	ug/L		5	ug/L	OK	20
MW-36	Silver	10	ug/L	U	10	ug/L	OK	20
MW-36	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-36	Sulfate	500	mg/l		1	mg/l	OK	500
MW-36	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-36	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-36	Tin	100	ug/L	U	100	ug/L	OK	20
MW-36	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-36	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-36	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-36	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-36	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-36	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-37	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-37	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-37	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-37	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-37	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-37	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-37	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-37	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-37	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-37	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-37	Chloride	10	mg/l		1	mg/l	OK	10
MW-37	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-37	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-37	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-37	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-37	Copper	10	ug/L	U	10	ug/L	OK	20
MW-37	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-37	Gross Radium Alpha	0.864	pCi/L		1	pCi/L	OK	1
MW-37	Iron	30	ug/L	U	30	ug/L	OK	5
MW-37	Lead	1	ug/L	U	1	ug/L	OK	5
MW-37	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-37	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-37	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-37	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-37	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-37	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-37	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-37	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-37	Selenium	5	ug/L		5	ug/L	OK	20
MW-37	Silver	10	ug/L	U	10	ug/L	OK	20
MW-37	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-37	Sulfate	500	mg/l		1	mg/l	OK	500
MW-37	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-37	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-37	Tin	100	ug/L	U	100	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-37	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-37	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-37	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-37	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-37	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-37	Zinc	10	ug/L		10	ug/L	OK	20
MW-65	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-65	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-65	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-65	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-65	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-65	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-65	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-65	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-65	Calcium	20	mg/l		0.5	mg/l	OK	20
MW-65	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-65	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-65	Chloride	1	mg/l		1	mg/l	OK	1
MW-65	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-65	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-65	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-65	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-65	Copper	10	ug/L	U	10	ug/L	OK	20
MW-65	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-65	Gross Radium Alpha	0.465	pCi/L		1	pCi/L	OK	1
MW-65	Iron	30	ug/L	U	30	ug/L	OK	5
MW-65	Lead	1	ug/L	U	1	ug/L	OK	5
MW-65	Magnesium	20	mg/l		0.5	mg/l	OK	20
MW-65	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-65	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-65	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-65	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-65	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-65	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-65	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-65	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-65	Selenium	5	ug/L		5	ug/L	OK	20
MW-65	Silver	10	ug/L	U	10	ug/L	OK	20
MW-65	Sodium	20	mg/l		0.5	mg/l	OK	20
MW-65	Sulfate	500	mg/l		1	mg/l	OK	500
MW-65	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-65	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-65	Tin	100	ug/L	U	100	ug/L	OK	20
MW-65	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-65	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-65	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-65	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-65	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-65	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-70	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-70	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-70	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-70	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-70	Benzene	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-70	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-70	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-70	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-70	Calcium	50	mg/l		0.5	mg/l	OK	50
MW-70	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-70	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-70	Chloride	10	mg/l		1	mg/l	OK	10
MW-70	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-70	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-70	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-70	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-70	Copper	10	ug/L	U	10	ug/L	OK	20
MW-70	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-70	Gross Radium Alpha	0.361	pCi/L	U	1	pCi/L	OK	1
MW-70	Iron	500	ug/L		30	ug/L	OK	100
MW-70	Lead	1	ug/L	U	1	ug/L	OK	5
MW-70	Magnesium	50	mg/l		0.5	mg/l	OK	50
MW-70	Manganese	10	ug/L		10	ug/L	OK	100
MW-70	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-70	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-70	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-70	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-70	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-70	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-70	Potassium	10	mg/l		0.5	mg/l	OK	10
MW-70	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-70	Silver	10	ug/L	U	10	ug/L	OK	20
MW-70	Sodium	50	mg/l		0.5	mg/l	OK	50
MW-70	Sulfate	500	mg/l		1	mg/l	OK	500
MW-70	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-70	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-70	Tin	100	ug/L	U	100	ug/L	OK	20
MW-70	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-70	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-70	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-70	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-70	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-70	Zinc	10	ug/L	U	10	ug/L	OK	5

## G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	Chloroform	1		U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1		U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1		U	1	ug/L	OK	1
Trip Blank	Chloroform	1		U	1	ug/L	OK	1
Trip Blank	Chloromethane	1		U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1		U	1	ug/L	OK	1
Trip Blank	Chloromethane	1		U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1		U	1	ug/L	OK	1
MW-11	Manganese	10			10	ug/L	OK	1
MW-11	Manganese	10			10	ug/L	OK	1
MW-14	Manganese	10			10	ug/L	OK	1
MW-14	Manganese	10			10	ug/L	OK	1
MW-25	Cadmium	0.5			0.5	ug/L	OK	1
MW-25	Uranium	0.3			0.3	ug/L	OK	1
MW-25	Chloride	10			1	mg/l	OK	1
MW-25	Cadmium	0.5			0.5	ug/L	OK	1
MW-25	Uranium	0.3			0.3	ug/L	OK	1
MW-26	Chloride	10			1	mg/l	OK	1
MW-26	Chloroform	20			1	ug/L	OK	1
MW-26	Uranium	0.3			0.3	ug/L	OK	1
MW-26	Methylene chloride	1			1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	0.1			0.1	ug/L	OK	1
MW-26	Chloride	10			1	mg/l	OK	1
MW-26	Carbon tetrachloride	1		U	1	ug/L	OK	1
MW-26	Chloroform	50			1	ug/L	OK	1
MW-26	Chloromethane	1		U	1	ug/L	OK	1
MW-26	Methylene chloride	1			1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	1			0.1	ug/L	OK	1
MW-26	Chloride	10			1	mg/l	OK	1
MW-26	Chloromethane	1		U	1	ug/L	OK	1
MW-26	Uranium	0.3			0.3	ug/L	OK	1
MW-26	Methylene chloride	1			1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	1			0.1	ug/L	OK	1
MW-30	Chloride	5			1	mg/l	OK	1
MW-30	Uranium	0.3			0.3	ug/L	OK	1
MW-30	Selenium	5			5	ug/L	OK	1
MW-30	Nitrate/Nitrite (as N)	10			0.1	ug/L	OK	1
MW-30	Chloride	50			1	mg/l	OK	1
MW-30	Selenium	5			5	ug/L	OK	1
MW-30	Nitrate/Nitrite (as N)	1			0.1	ug/L	OK	1
MW-31	Sulfate	50			1	mg/l	OK	1
MW-31	Chloride	50			1	mg/l	OK	1
MW-31	Selenium	5			5	ug/L	OK	1
MW-31	Nitrate/Nitrite (as N)	10			0.1	ug/L	OK	1
MW-31	Total Dissolved Solids	20			10	mg/l	OK	1
MW-31	Sulfate	50			1	mg/l	OK	1
MW-31	Chloride	50			1	mg/l	OK	1
MW-31	Selenium	5			5	ug/L	OK	1
MW-31	Nitrate/Nitrite (as N)	2			0.1	ug/L	OK	1
MW-31	Total Dissolved Solids	20			10	mg/l	OK	1
MW-35	Manganese	10			10	ug/L	OK	1
MW-35	Molybdenum	10		U	10	ug/L	OK	1
MW-35	Thallium	0.5		U	0.5	ug/L	OK	1
MW-35	Uranium	0.3			0.3	ug/L	OK	1

## G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-35	Selenium	5			5	ug/L	OK	1
MW-35	Gross Radium Alpha	0.702			1	pCi/L	OK	1
MW-35	Manganese	10			10	ug/L	OK	1
MW-35	Molybdenum	10		U	10	ug/L	OK	1
MW-35	Thallium	0.5			0.5	ug/L	OK	1
MW-35	Uranium	0.3			0.3	ug/L	OK	1
MW-35	Selenium	5			5	ug/L	OK	1
MW-35	Gross Radium Alpha	0.852			1	pCi/L	OK	1
MW-65	Cadmium	0.5			0.5	ug/L	OK	1
MW-65	Uranium	0.3			0.3	ug/L	OK	1
MW-65	Manganese	10			10	ug/L	OK	1

G-6A: Trip Blank Evaluation

All trip blanks for the Quarter were non detect.

<b>Blank</b>	<b>Sample Date</b>	<b>Laboratory</b>
1	5/13/2013	American West Analytical Laboratories
2	5/20/2013	American West Analytical Laboratories
3	6/3/2013	American West Analytical Laboratories

G-6B: Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

<b>Blank</b>	<b>Sample Date</b>	<b>Laboratory</b>
1	4/17/2013	American West Analytical Laboratories
2	6/5/2013	American West Analytical Laboratories
3	6/24/2013	American West Analytical Laboratories

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

Constituent	MW-02	MW-65	%RPD
Bicarbonate as HCO <sub>3</sub>	331	325	1.83
Calcium	304	312	2.60
Chloride (mg/L)	7.21	7.21	0.00
Fluoride (mg/L)	0.353	0.322	9.19
Magnesium	91.3	89.6	1.88
Potassium	9.81	10.2	3.90
Selenium	0.016	0.0164	2.47
Sodium	488	492	0.82
Sulfate (mg/L)	1410	1490	5.52
TDS (mg/L)	3200	3360	4.88
Uranium	0.0133	0.0139	4.41
<b>Radiologic Duplicate Tests</b>			
Gross Alpha minus Rn & U*	1.48	1.71	1.042
Gross Alpha minus Rn & U Precision (±)	0.995	0.312	
* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.			
Constituent	MW-29	MW-70	%RPD
Ammonia (as N)	0.528	0.475	10.57
Calcium	439	450	2.47
Chloride (mg/L)	35.0	35.6	1.70
Fluoride (mg/L)	0.767	0.725	5.63
Sodium	473	483	2.09
TDS (mg/L)	4340	4380	0.92
Uranium	0.0119	0.0122	2.49

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

<b>Constituent</b>	<b>MW-25 4/17/2013</b>	<b>MW-65 4/17/2013</b>	<b>%RPD*</b>
Cadmium	0.00136	0.0013	4.51
Uranium	0.00556	0.00535	3.85
<b>Constituent</b>	<b>MW-14 6/25/2013</b>	<b>MW-65 6/25/2013</b>	<b>%RPD</b>
Manganese	1.99	1.94	2.54

G-8A: Radiologies Counting Error

Well	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-01	<1.0	0.279	NC	3.75	NC
MW-02	1.48	0.434	N	3.2	Y
MW-03	<1.0	0.244	NC	1	Y
MW-03A	<1.0	0.281	NC	7.5	NC
MW-05	<1.0	0.644	NC	3.75	NC
MW-11	<1.0	0.258	NC	3.75	NC
MW-12	<1.0	0.286	NC	7.5	NC
MW-14	<1.0	0.277	NC	7.5	NC
MW-15	<1.0	0.257	NC	7.5	NC
MW-17	<1.0	0.266	NC	2.8	NC
MW-18	1.1	0.343	N	7.5	Y
MW-19	1.19	0.329	N	2.36	Y
MW-20	<1.0	0.308	NC	--	
MW-22	14.0	1.08	Y	--	
MW-23	1.88	0.392	N	2.86	Y
MW-24	1.15	0.323	N	7.5	Y
MW-25	1.06	0.286	N	7.5	Y
MW-26	3.49	0.685	Y	4.69	Y
MW-27	1.57	0.388	N	2	Y
MW-28	2.01	0.355	Y	2.42	Y
MW-29	<1.0	0.181	NC	2	NC
MW-30	<1.0	0.210	NC	3.75	NC
MW-31	1.07	0.262	N	7.5	Y
MW-32	3.72	0.474	Y	3.33	NA
MW-35	4.92	0.590	Y	3.75	NA
MW-36	2.68	0.463	Y	--	
MW-37	1.22	0.378	N	--	
MW-65	1.71	0.312	Y	--	
MW-70	<1.0	0.173	NC	--	

GWCLs have not been established for MW-20, MW-22, MW-36, and MW-37.

N/A - the counting error is less than 20% of the activity as required by the GWDP. The value is above the GWCL and this check column is not applicable.

NC = Not calculated. The sample results are nondetect and the check is not applicable.

**G-8B: Radiologics Counting Error for Accelerated Samples**

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/- )	Counting Error $\leq$ 20%	GWCL	Within GWCL?
MW-35	4/17/2013	4.75	0.569	Y	3.75	N/A
MW-35	6/24/2013	3.24	0.556	Y	3.75	Y

N/A - the counting error is less than 20% of the activity as required by the GWDP. The value is above the GWCL and this check column is not applicable.

G-9A: Laboratory Matrix QC

**Matrix Spike % Recovery Comparison**

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
1305419	MW-32	Calcium*	NC	NC	75-125	NC	20
1305419	MW-32	Magnesium*	NC	NC	75-125	NC	20
1305419	MW-32	Manganese*	NC	NC	75-125	NC	20
1305419	MW-05	Sodium*	NC	NC	75-125	NC	20
1305419	MW-05	Calcium*	NC	NC	75-125	NC	20
1305419	MW-05	Chloride	82.4	78.8	90 - 110	4.46	10
1305419	MW-05	Fluoride	87.5	86.1	90 - 110	1.63	10
1305419	MW-05	Sulfate	91.9	89.4	90 - 110	2.64	10
1305419	MW-31	Chloride	77.5	77.9	90 - 110	0.414	10
1305419	MW-31	Fluoride	84.4	83.2	90 - 110	1.45	10
1305419	MW-31	Sulfate	86.9	91.1	90 - 110	3.67	10
1305551	MW-01	Sodium*	NC	NC	75-125	NC	20
1305551	MW-70 (Dup of MW-29)	Calcium*	NC	NC	75-125	NC	20
1305551	MW-70 (Dup of MW-29)	Magnesium*	NC	NC	75-125	NC	20
1305551	MW-70 (Dup of MW-29)	Sodium*	NC	NC	75-125	NC	20
1305551	MW-70 (Dup of MW-29)	Manganese*	NC	NC	75-125	NC	20
1305551	MW-01	Ammonia	86.1	85.9	90 - 110	0.167	10
1305551	MW-19	Ammonia	88.0	86.1	90 - 110	2.17	10
1306068	MW-20	Sodium*	NC	NC	75-125	NC	20
1306068	MW-20	Calcium*	NC	NC	75-125	NC	20
1306068	MW-20	Ammonia	81.4	83.5	90 - 110	2.39	10
1306068	MW-20	Nitrate/Nitrite as N	116	115	90 - 110	0.884	10
1306068	MW-20	Nitrate/Nitrite as N	113	109	90 - 110	3.34	10
325944	MW-30	Gross Alpha	119	83.8	75-125	34.4	20
326481	MW-24	Gross Alpha	89.4	117	75-125	26.4	20

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

**Laboratory Duplicate % Recovery Comparison**

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
1305551	MW-01	TDS	1350	1420	5.2	5
1306068	MW-37	TDS	4000	3700	7.58	5

G-9B: Accelerated Laboratory Matrix QC

**Matrix Spike % Recovery Comparison**

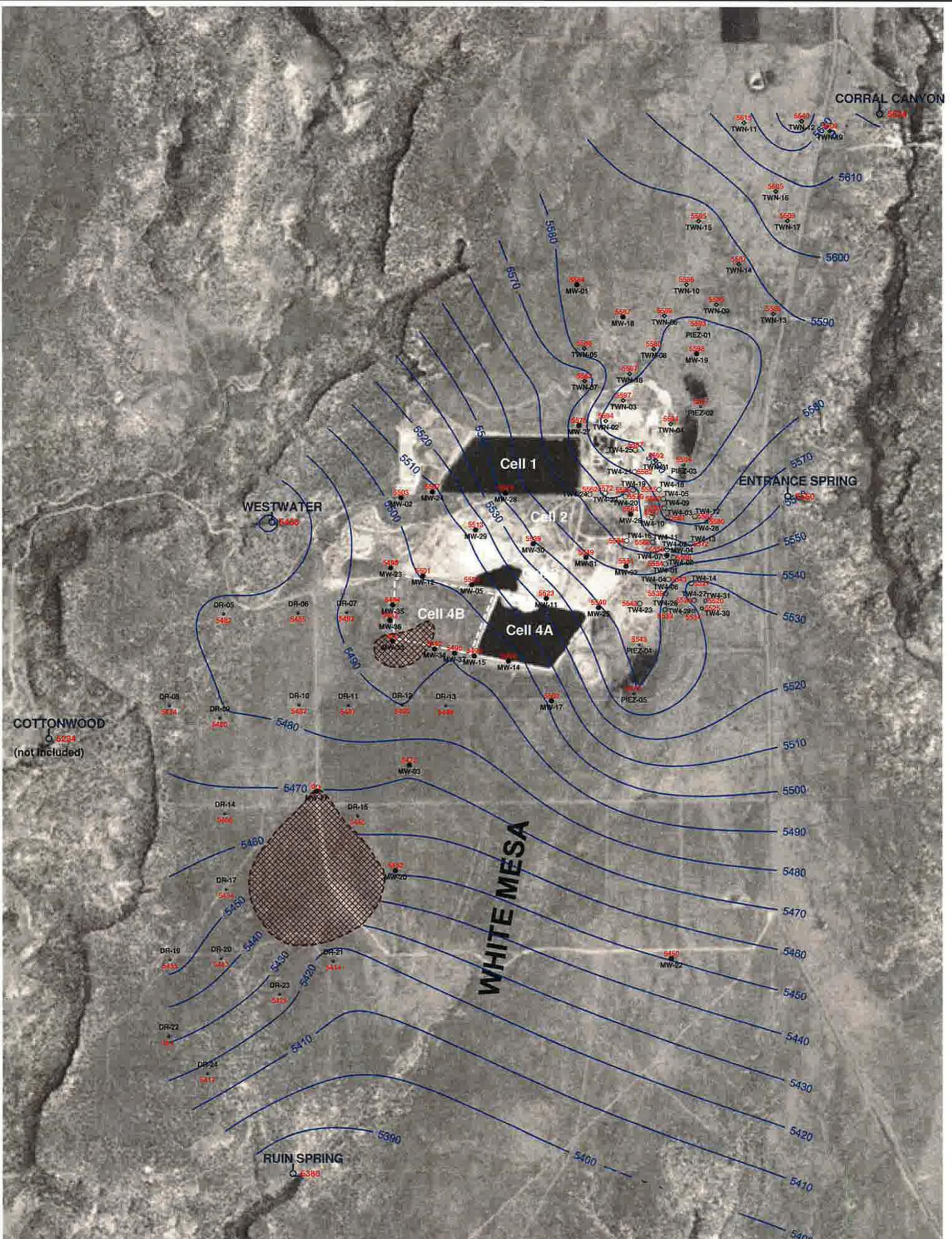
Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
1304547 - April Accelerated	MW-31	Nitrate+Nitrite (as N)	119	116	90 - 110	2.71	10
1304547 - April Accelerated	MW-31	Chloride	90.9	86.2	90 - 110	5.02	20
1306566 - June Accelerated	MW-26	Nitrate+Nitrite (as N)	118	83.6	90 - 110	26.3	10
1306566 - June Accelerated	MW-26	Sulfate	106	112	90 - 110	4.16	20

**Laboratory Duplicate % Recovery Comparison**

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
1304547	MW-31	TDS	1440	1260	13.3	5
1306566	MW-31	TDS	1480	1380	7.26	5

Tab H

Kriged Current Quarterly Groundwater Contour Map



**EXPLANATION**

-  estimated dry area
- MW-5**  
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5582 temporary perched monitoring well showing elevation in feet amsl
- TWN-10**  
 5586 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**  
 5593 perched piezometer showing elevation in feet amsl
- TW4-28**  
 5580 temporary perched monitoring well installed March, 2013 showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

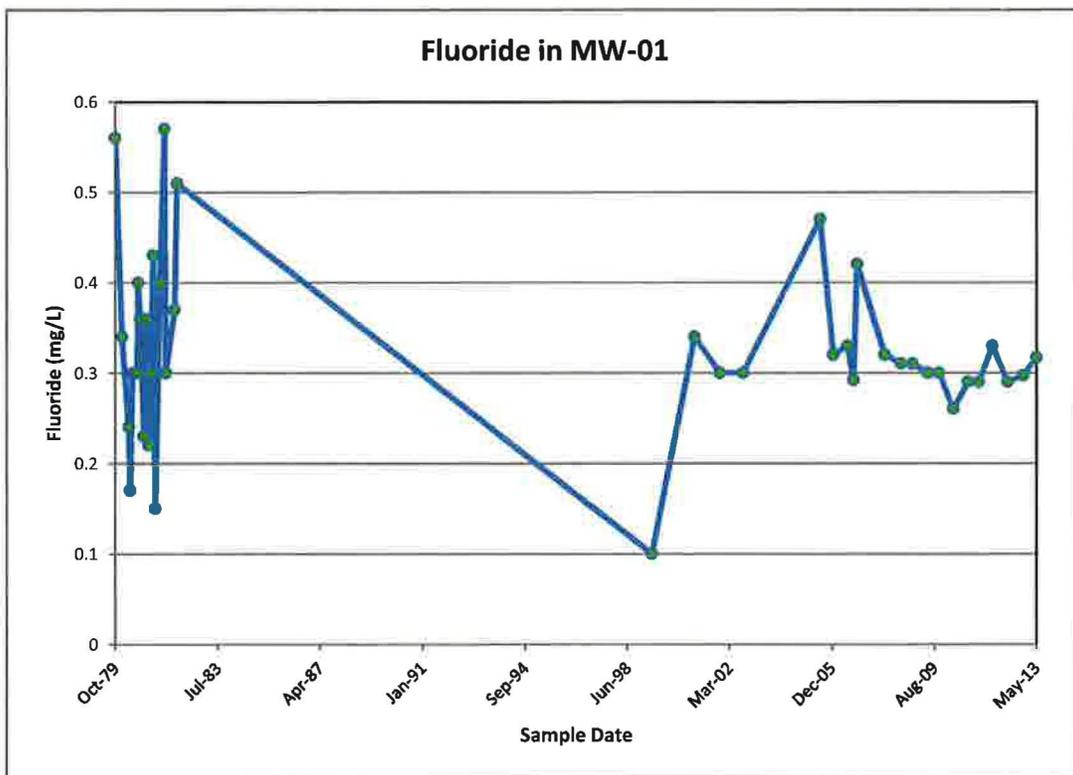
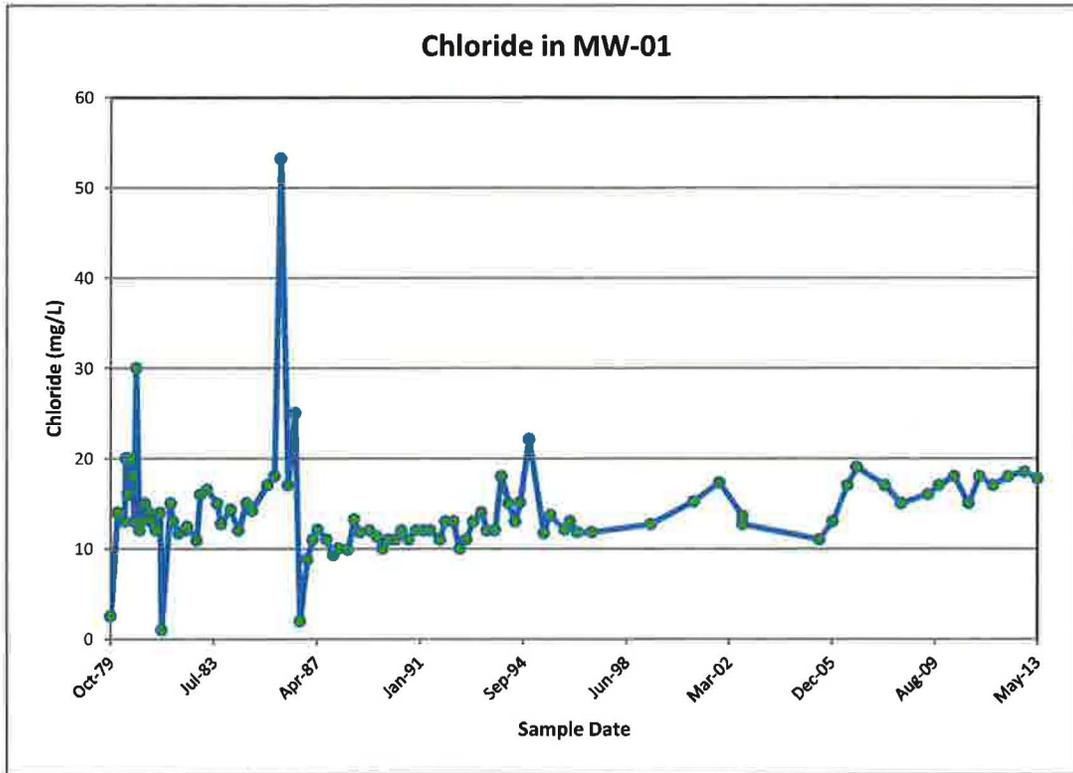
**KRIGED 2nd QUARTER, 2013 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug13/Uwl0613.srf	H-1

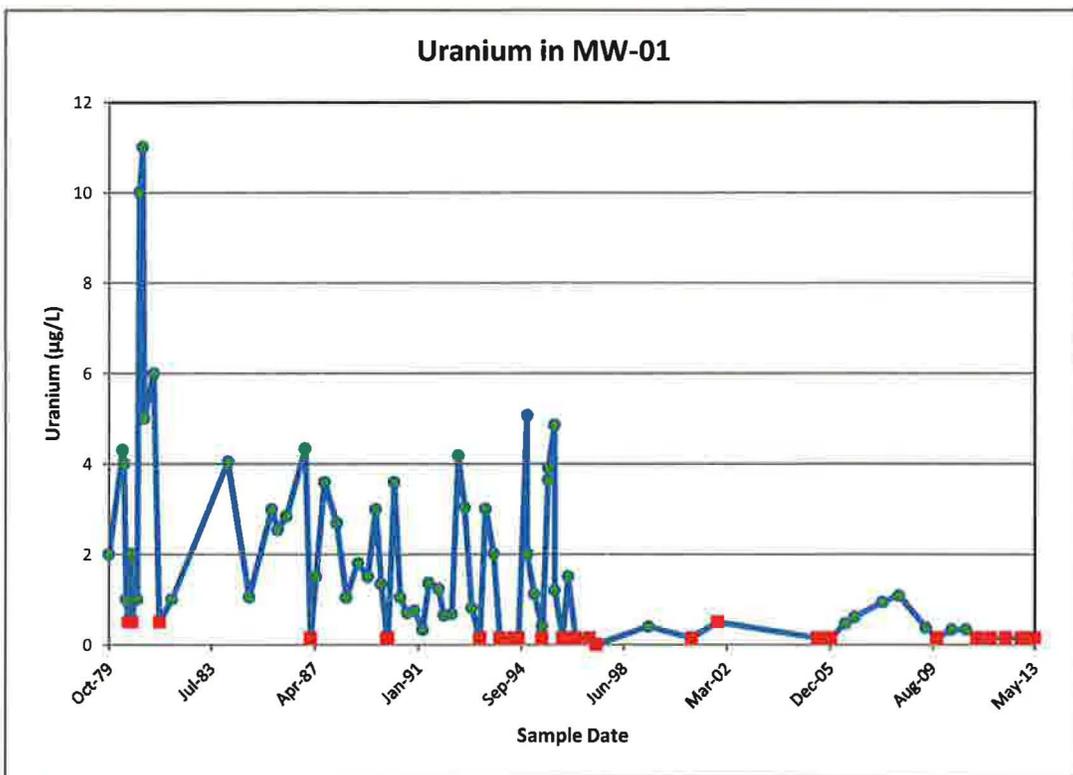
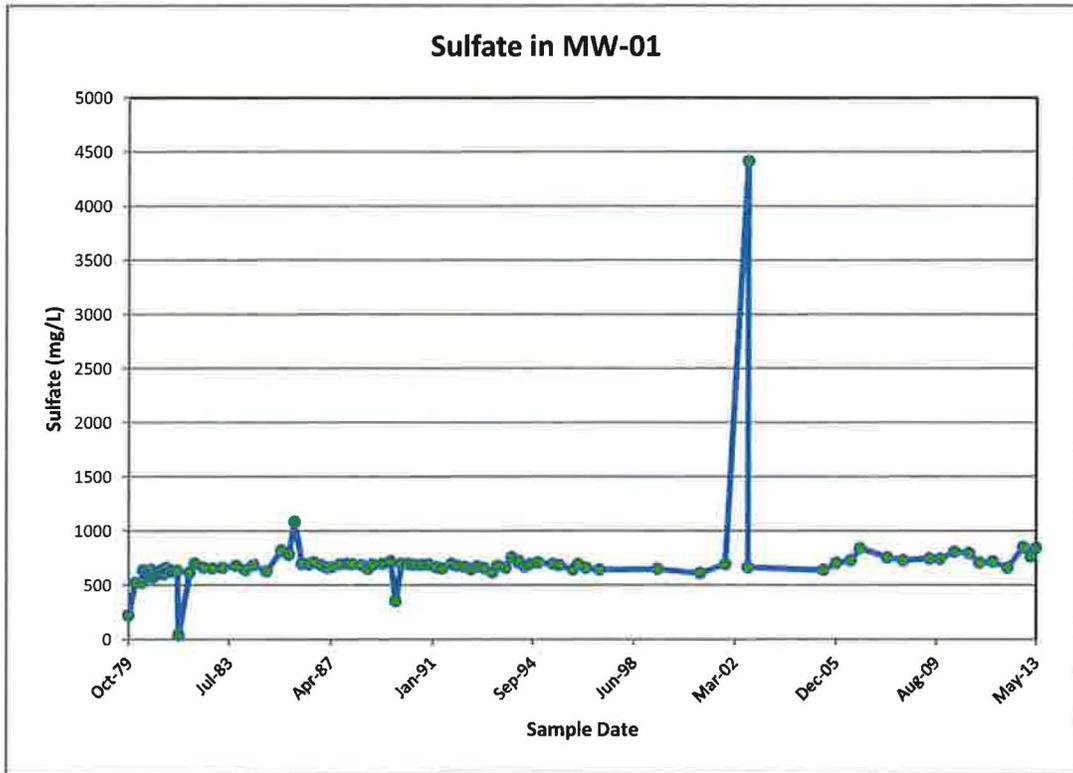
Tab I

Groundwater Time Concentration Plots

## Time concentration plots for MW-01



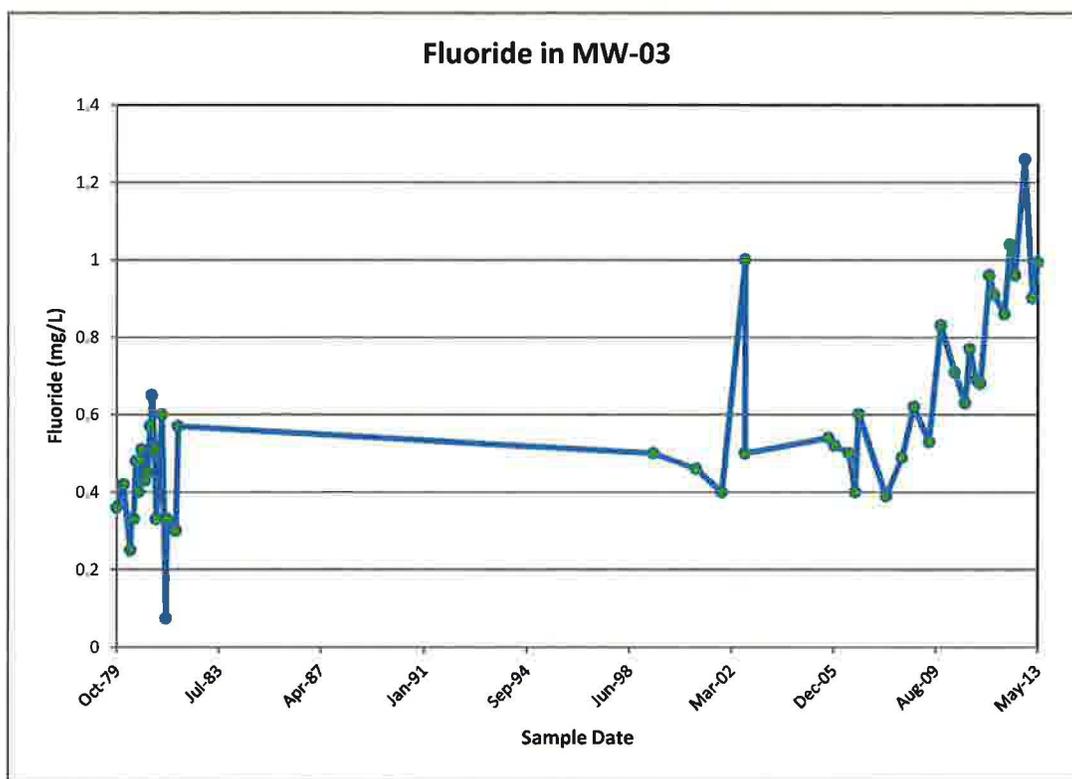
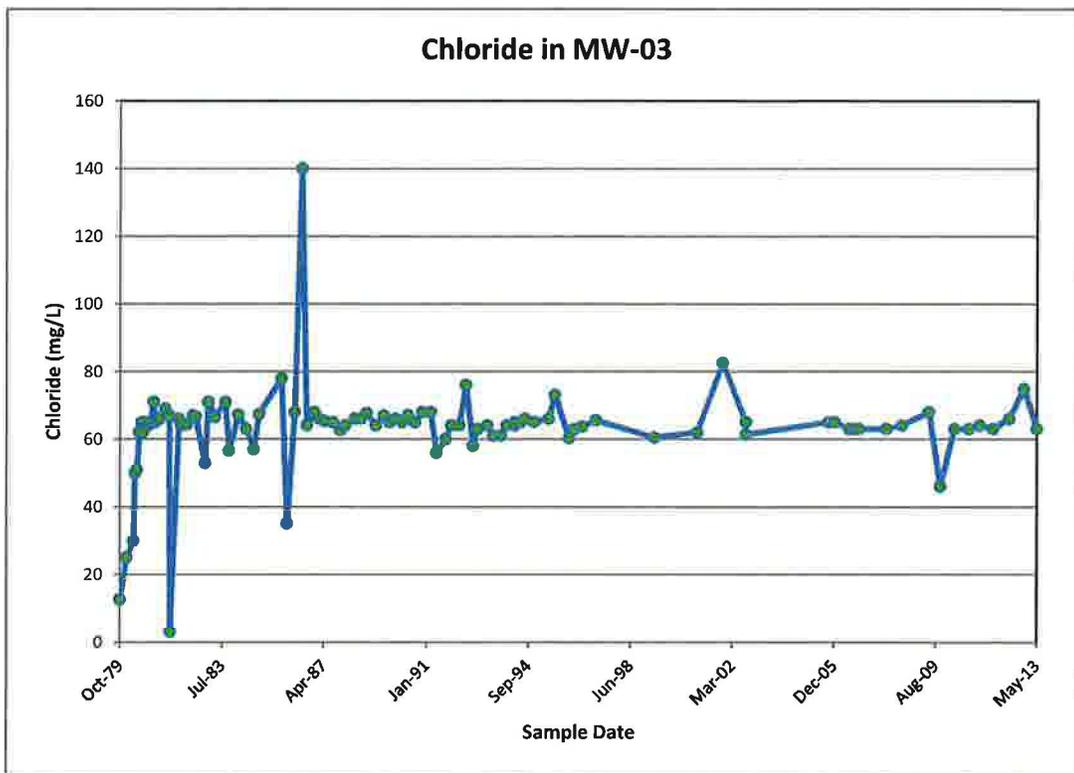
## Time concentration plots for MW-01



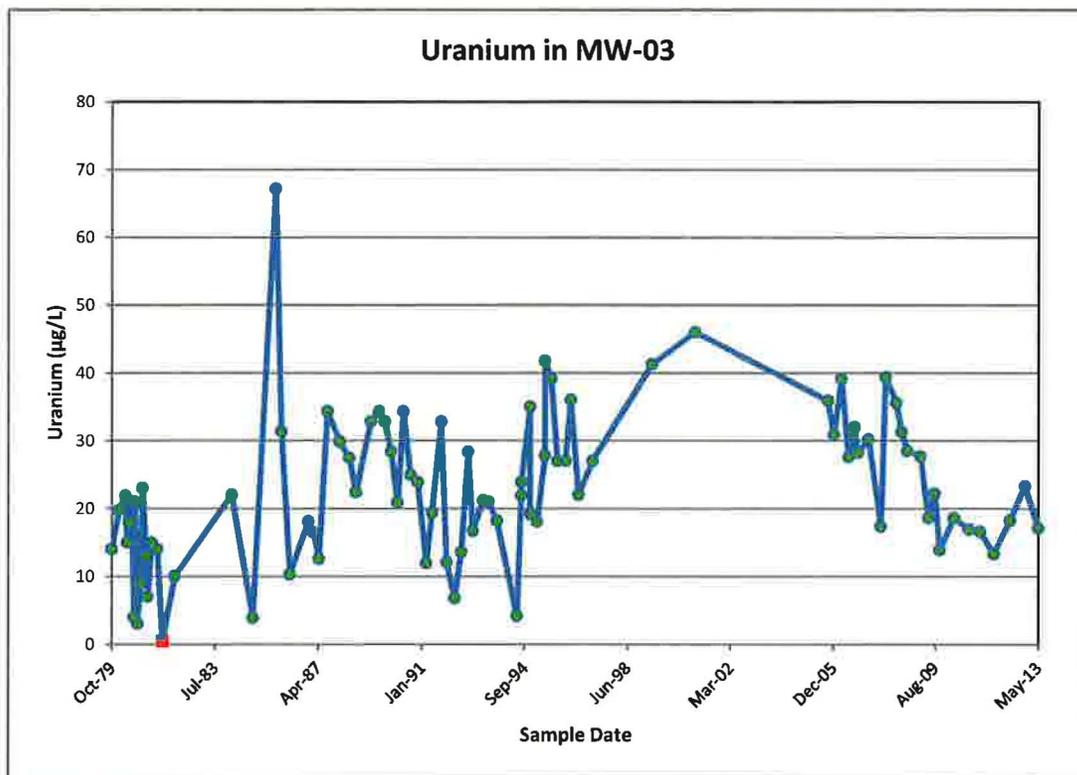
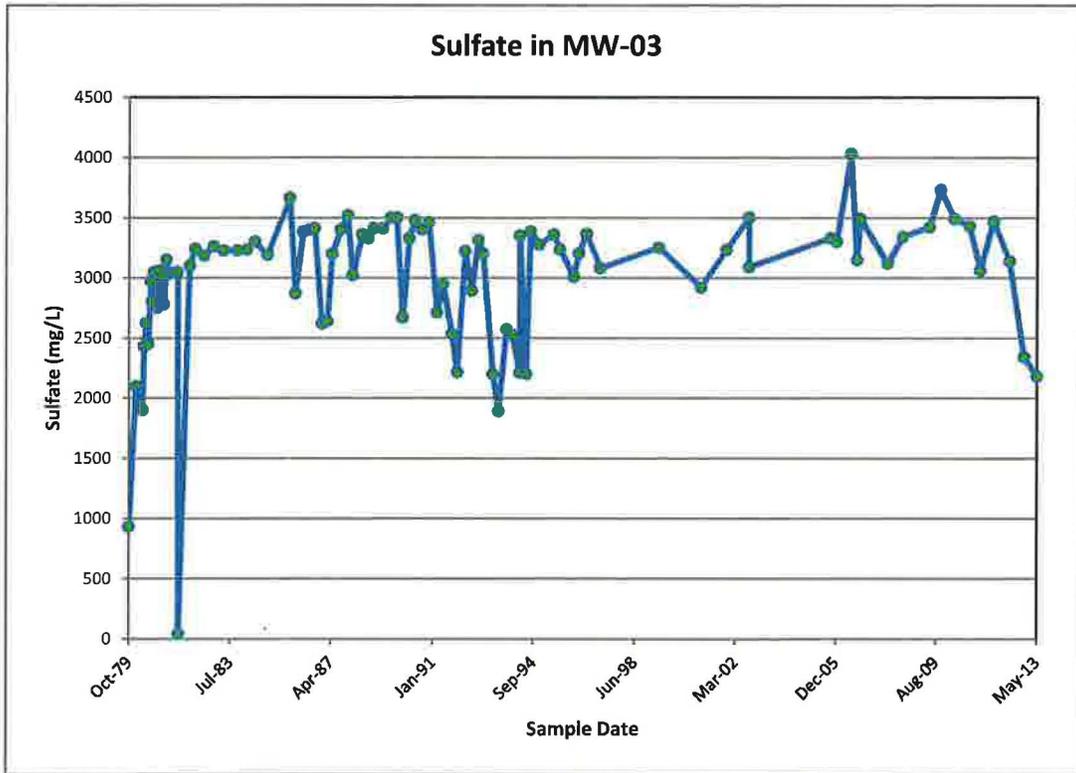




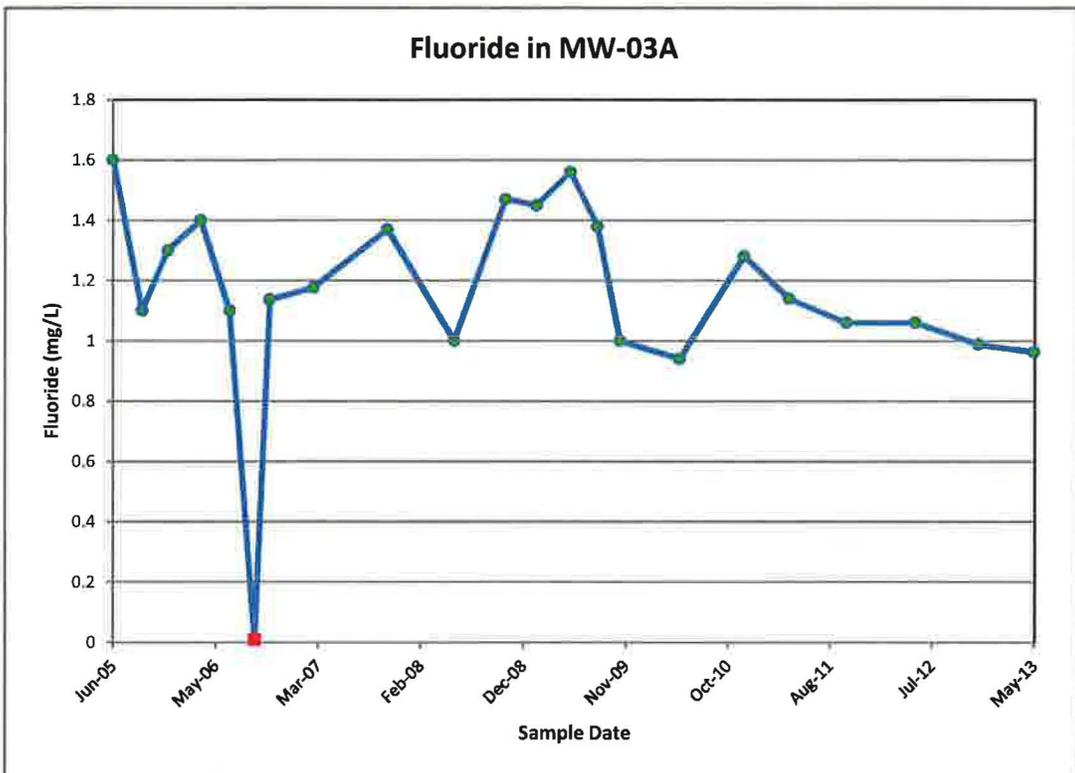
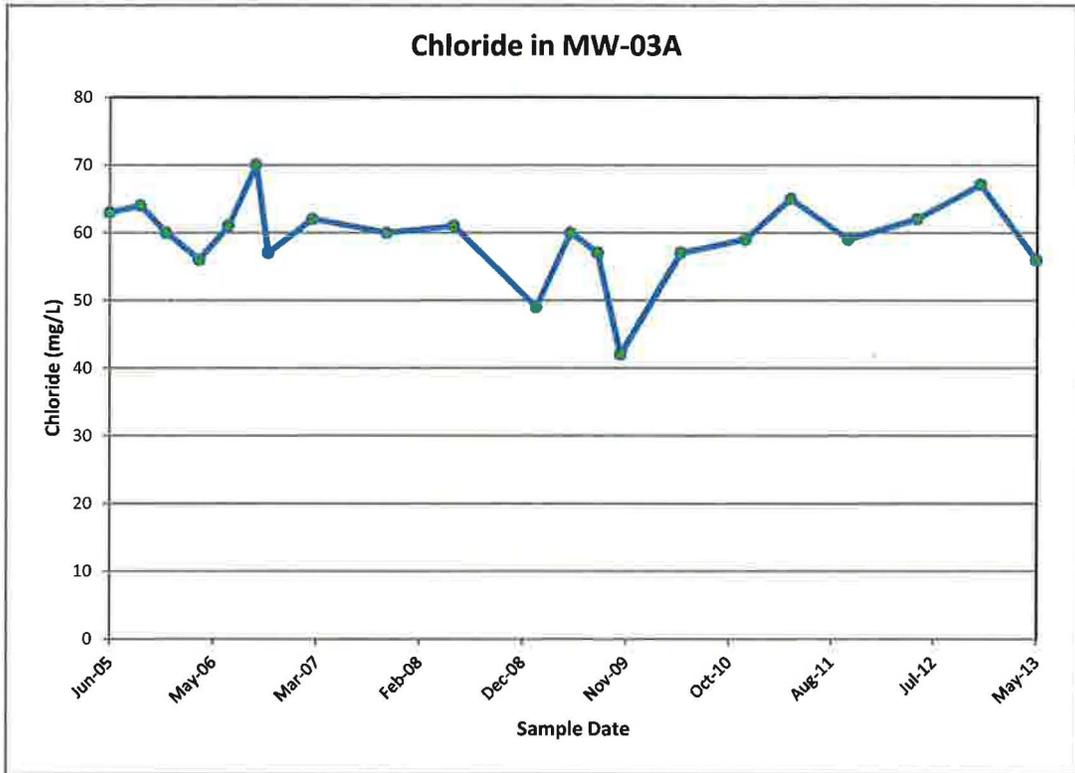
### Time concentration plots for MW-03



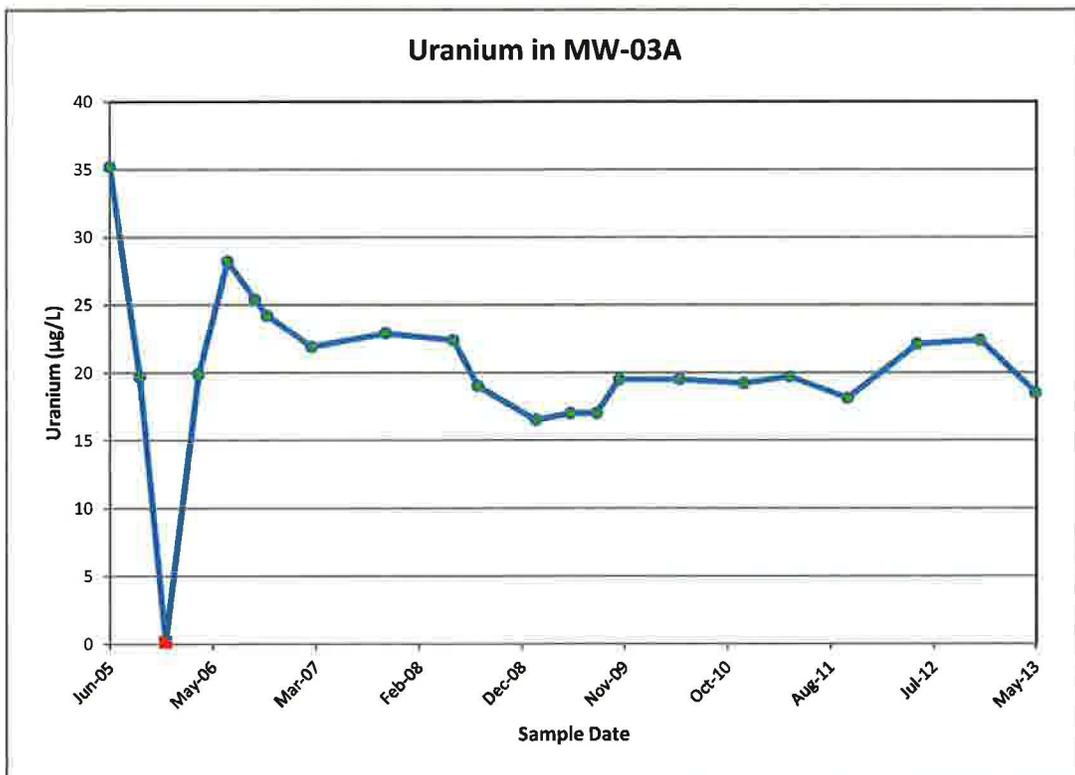
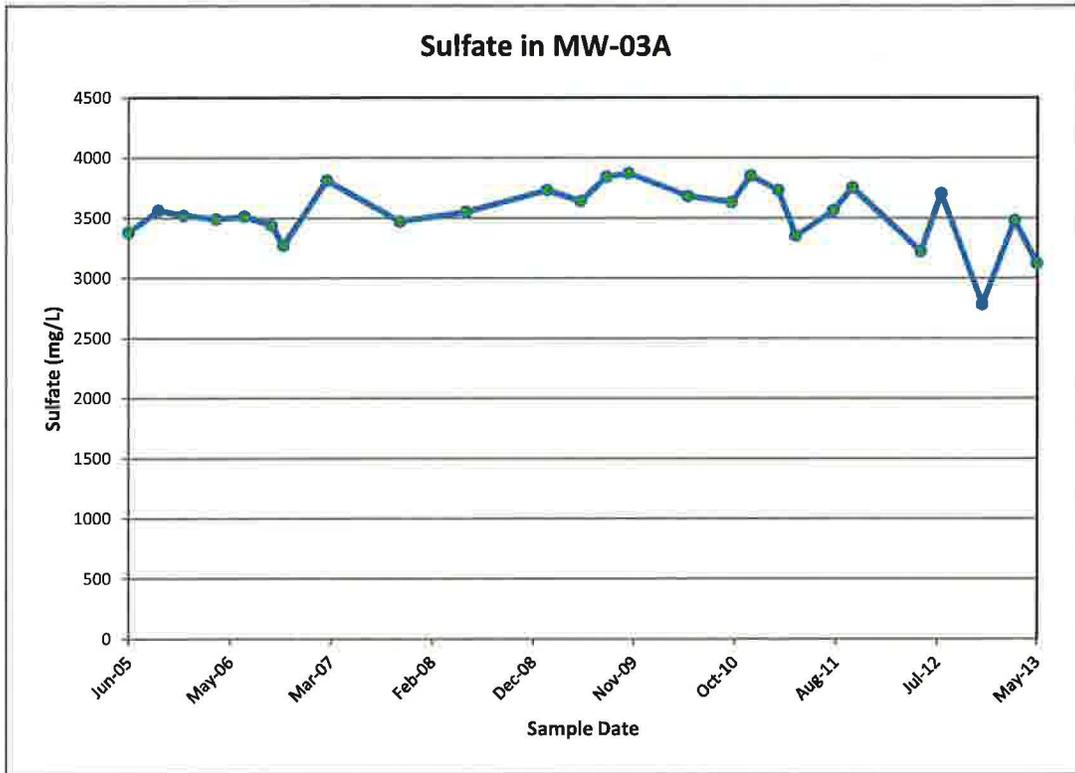
## Time concentration plots for MW-03



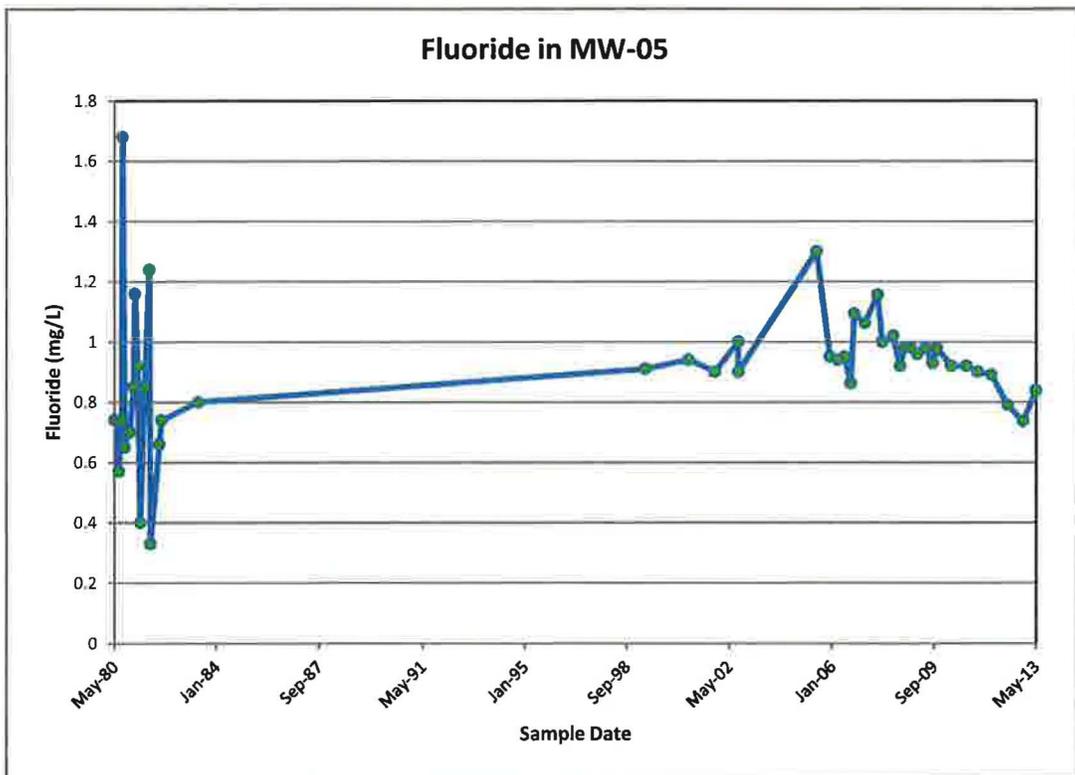
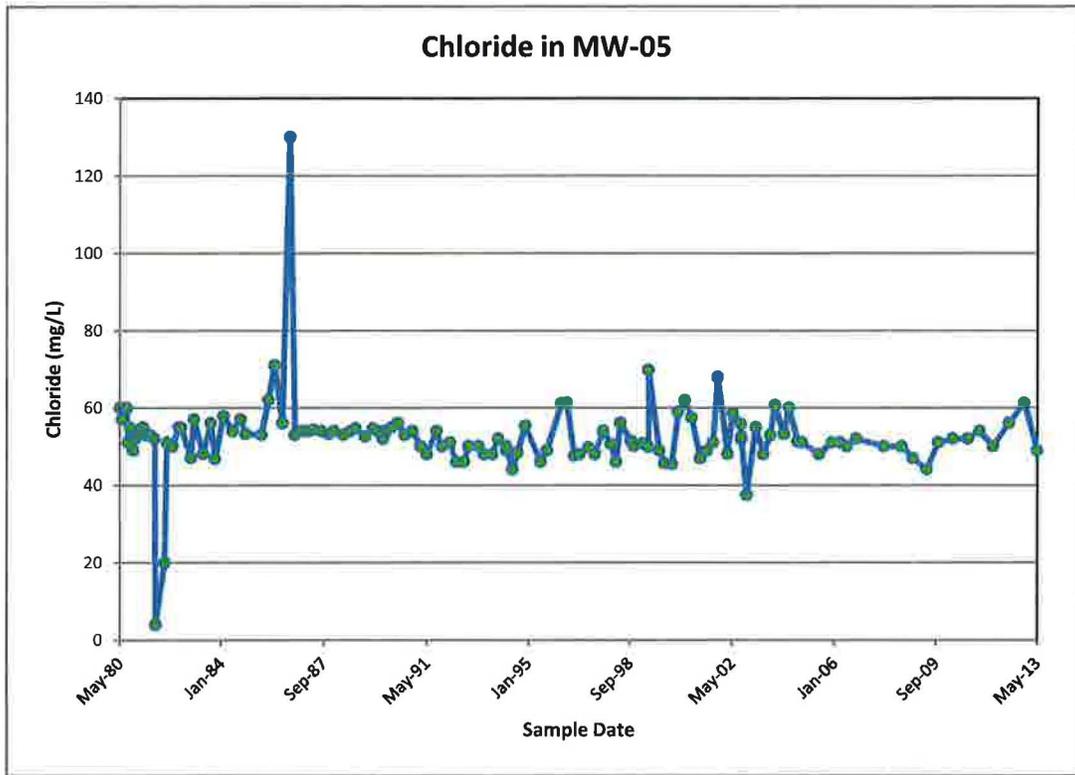
### Time concentration plots for MW-03A



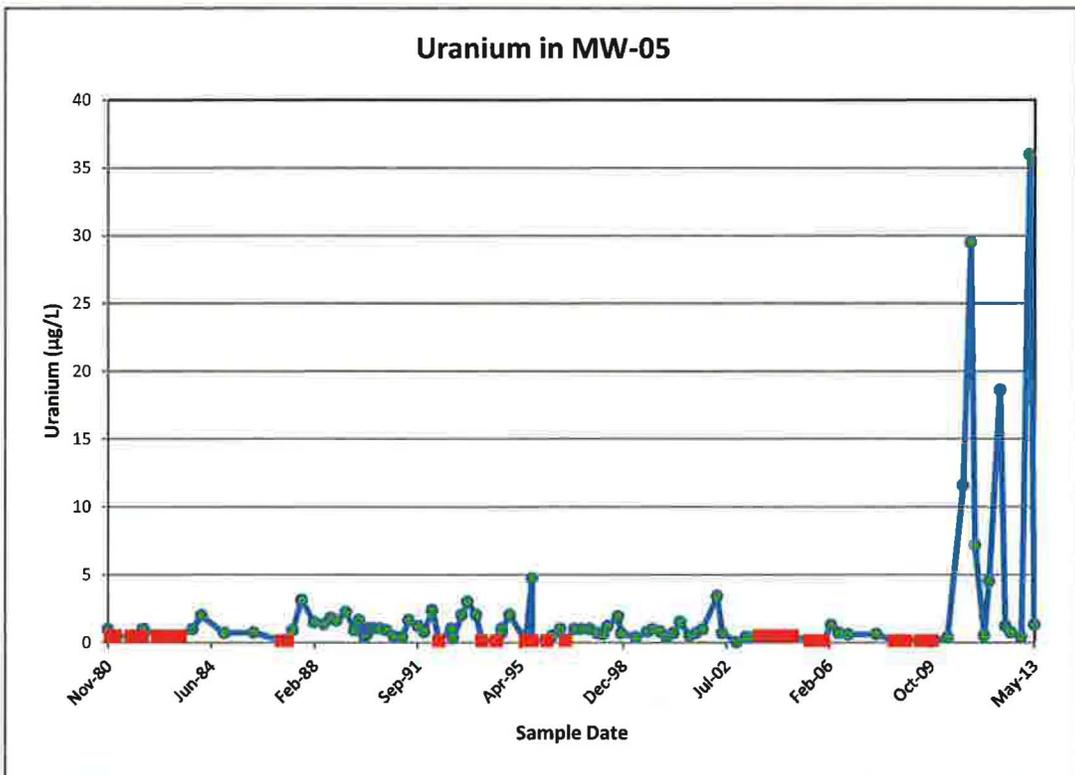
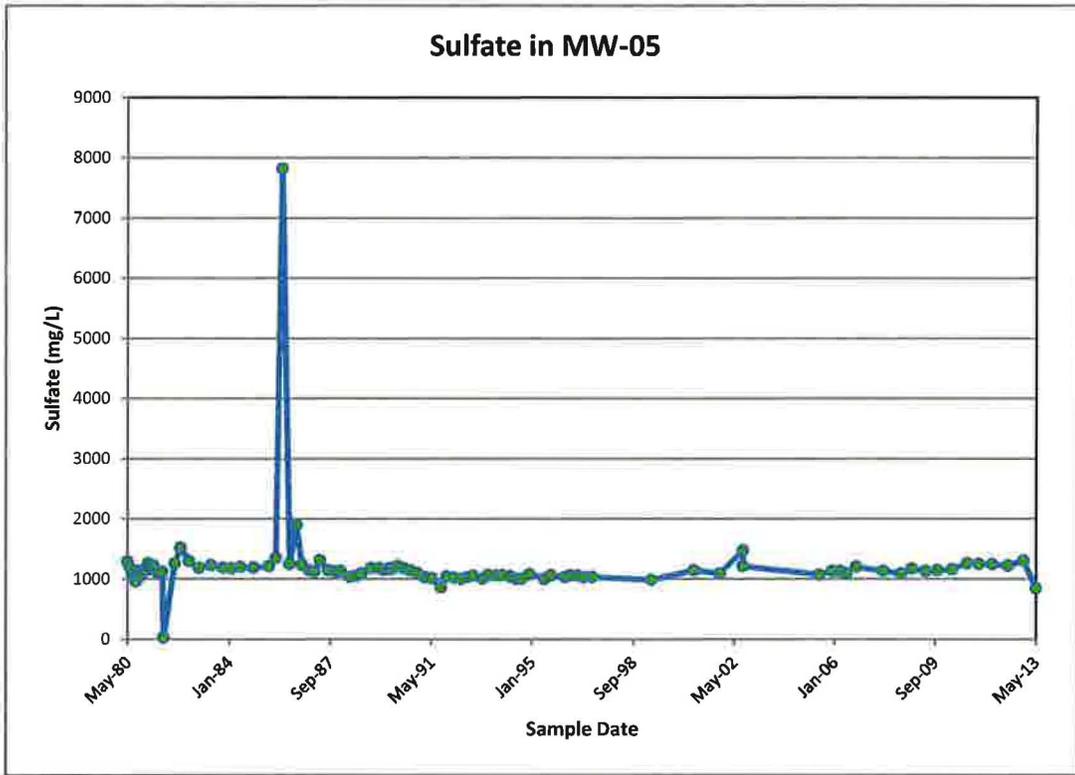
### Time concentration plots for MW-03A



### Time concentration plots for MW-05



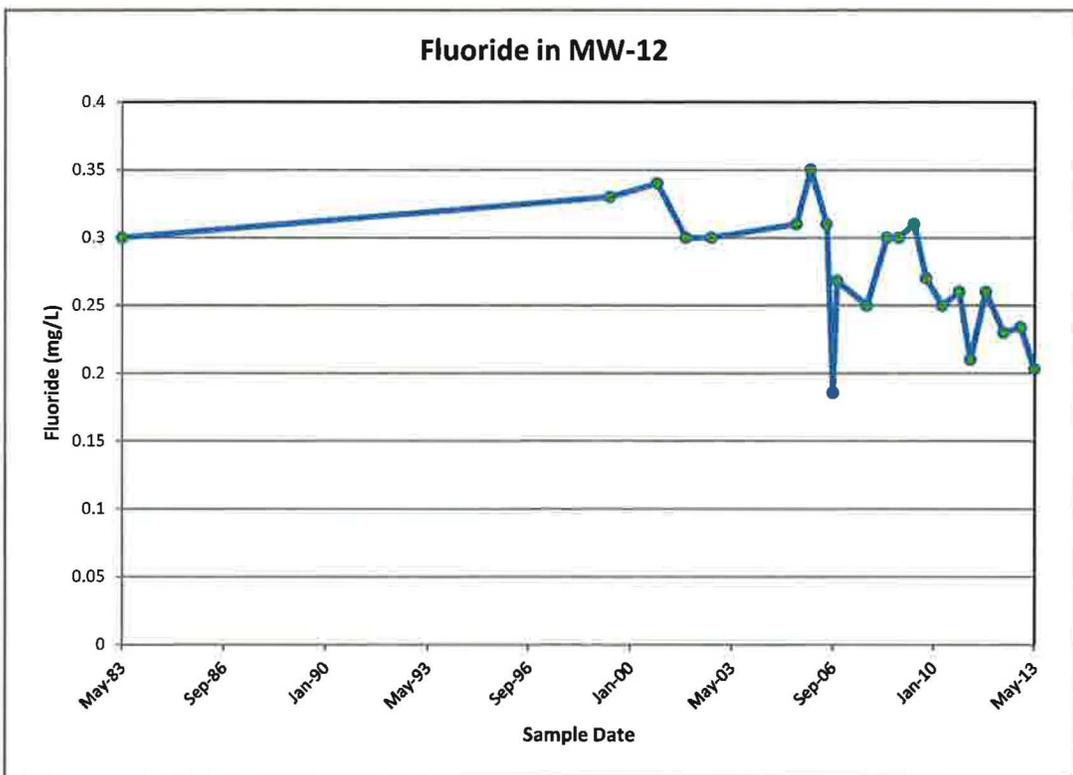
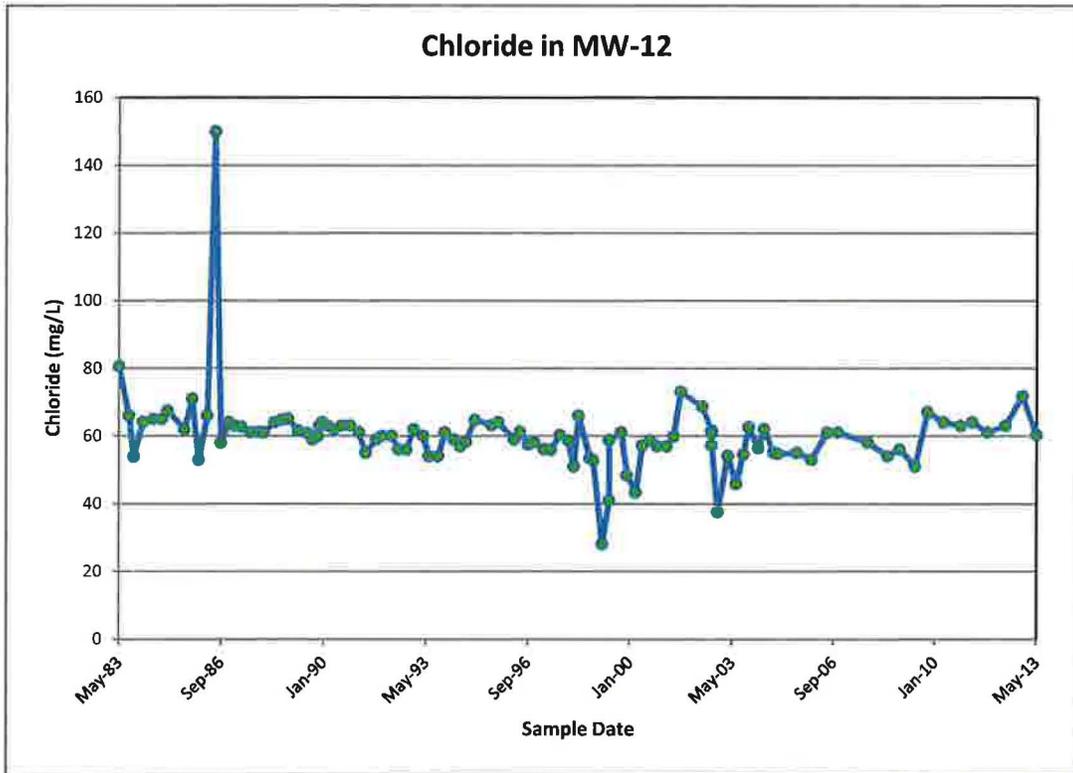
### Time concentration plots for MW-05



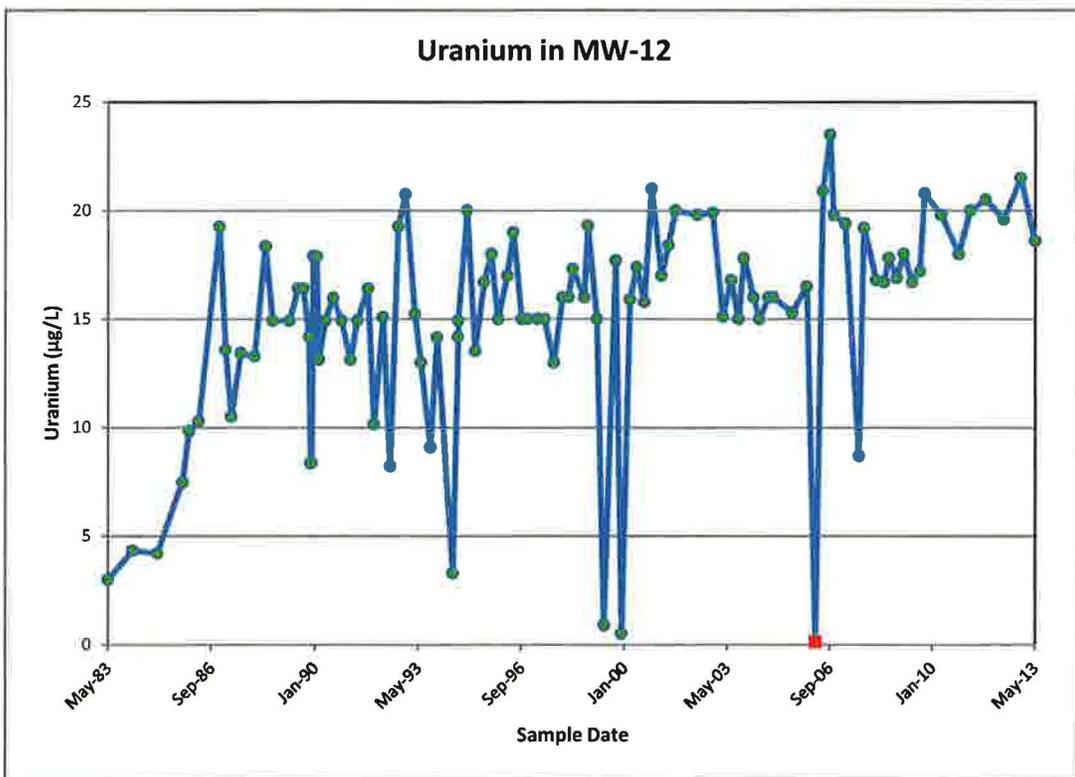
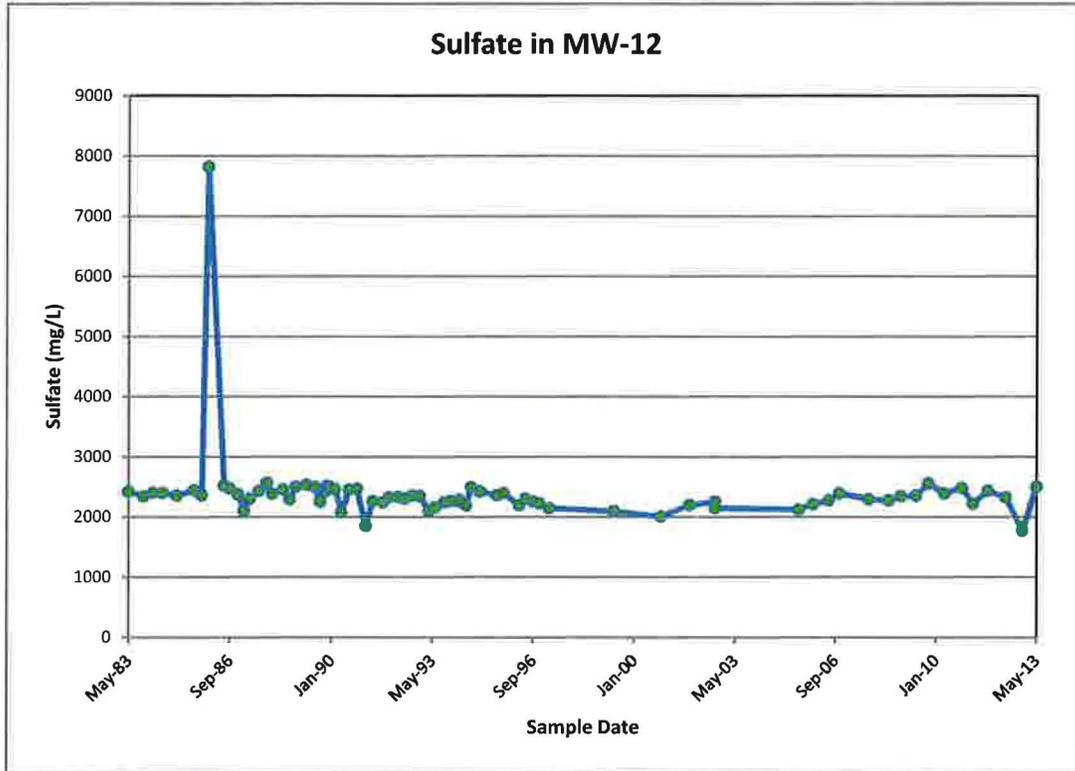




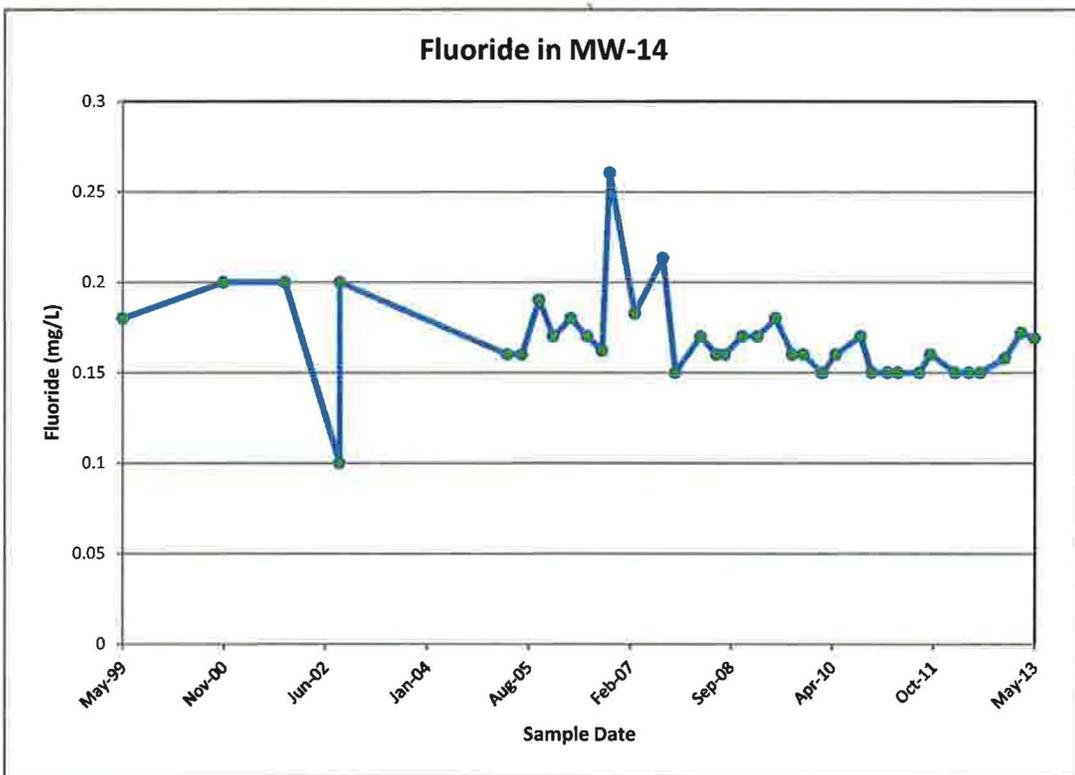
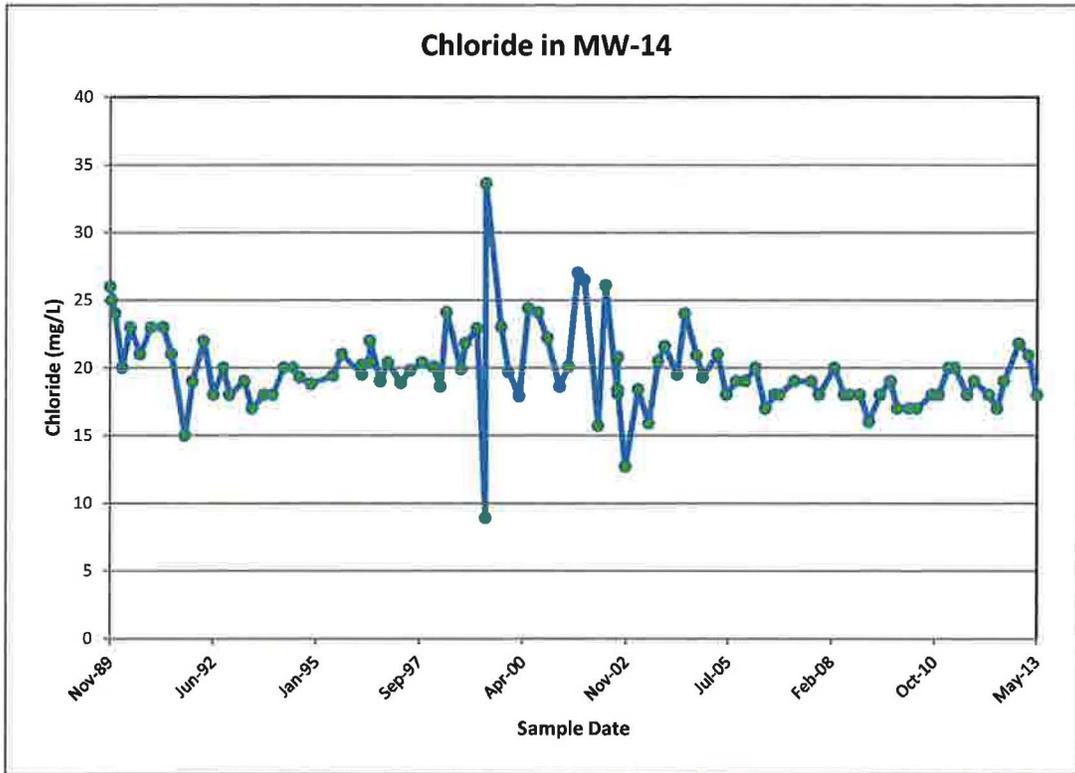
## Time concentration plots for MW-12



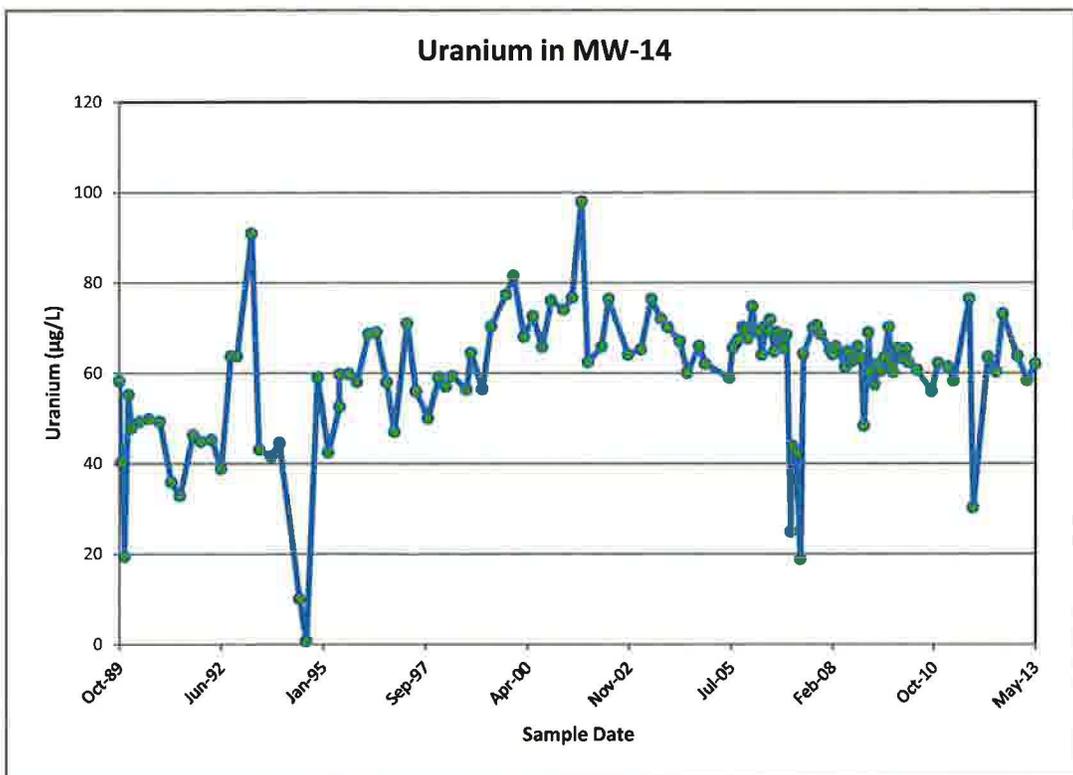
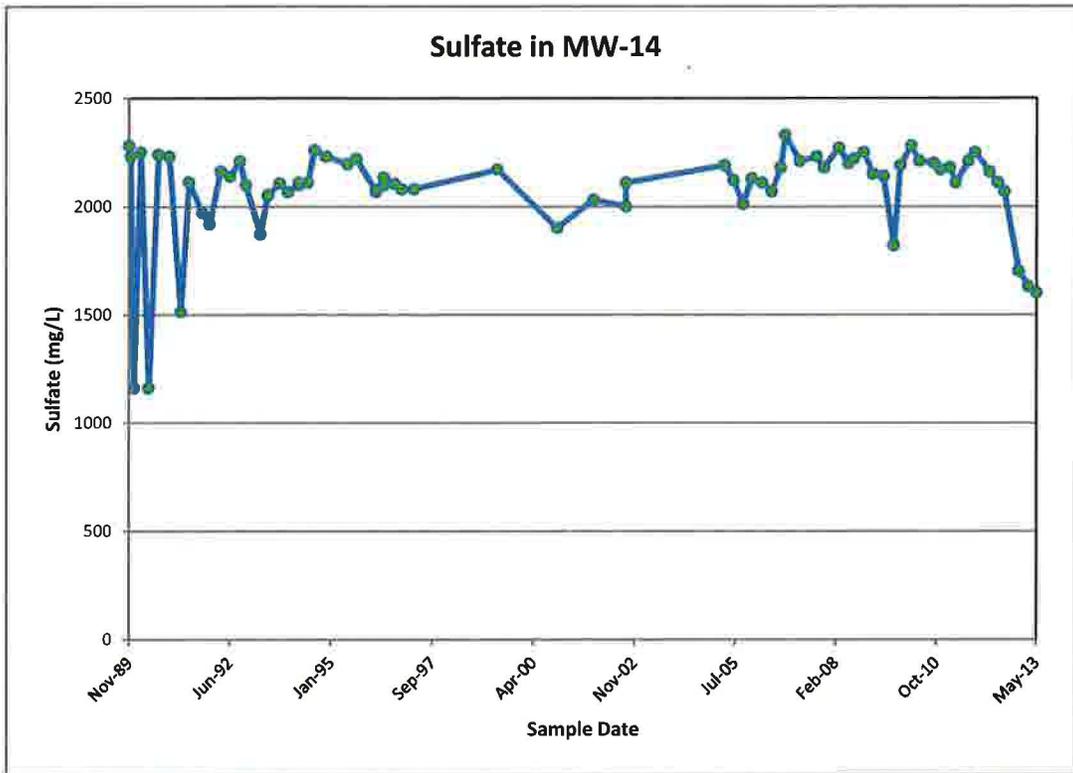
## Time concentration plots for MW-12



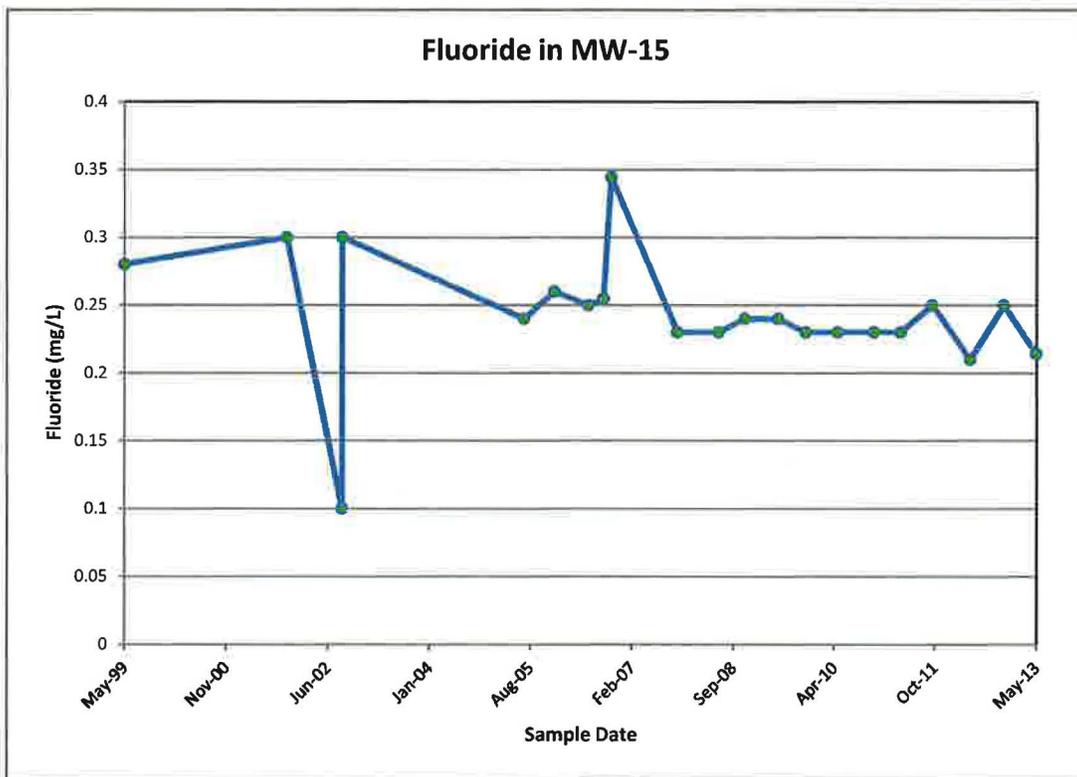
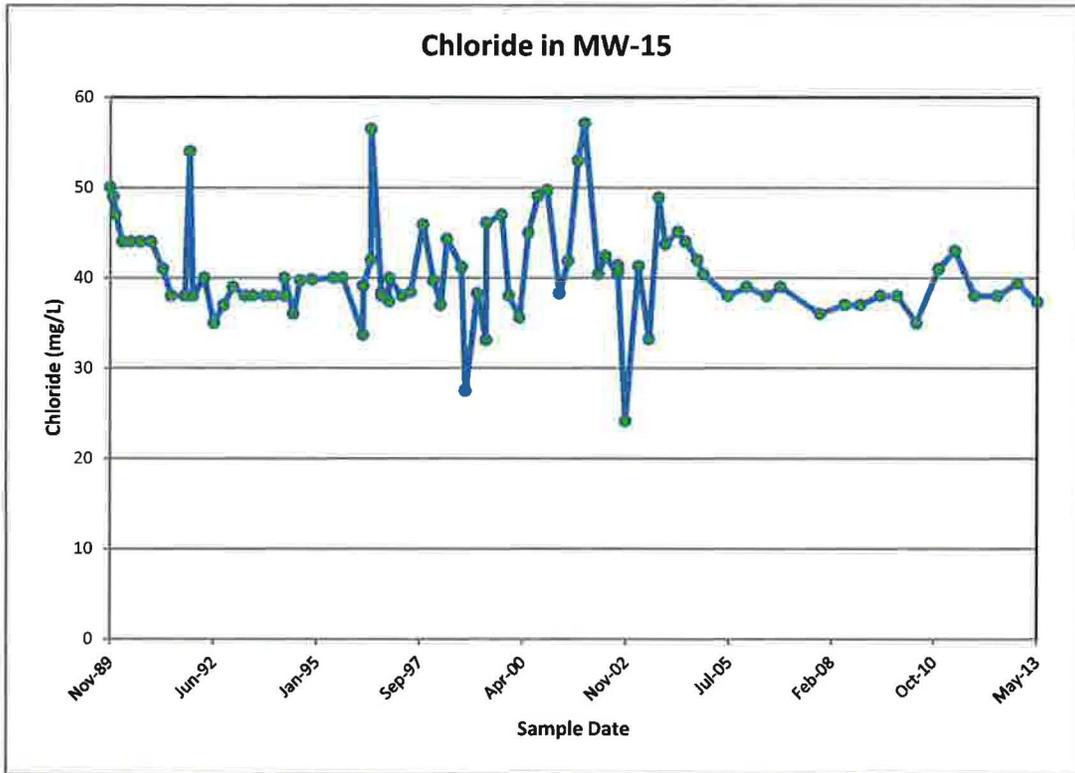
## Time concentration plots for MW-14



### Time concentration plots for MW-14

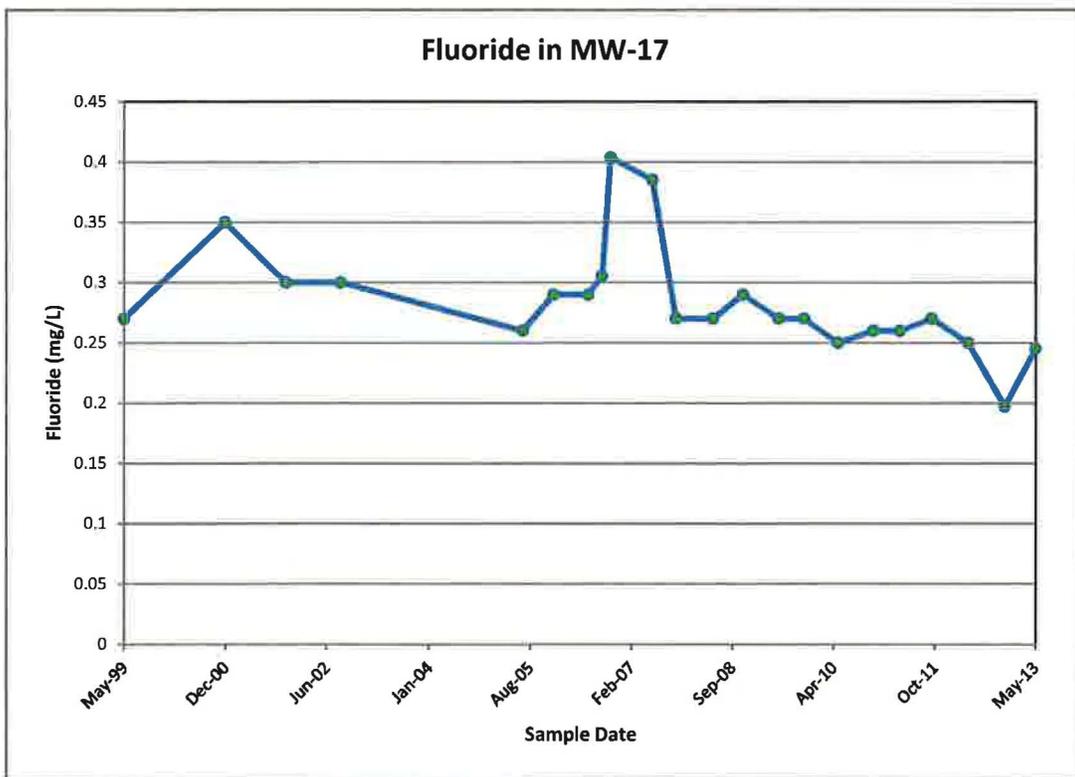
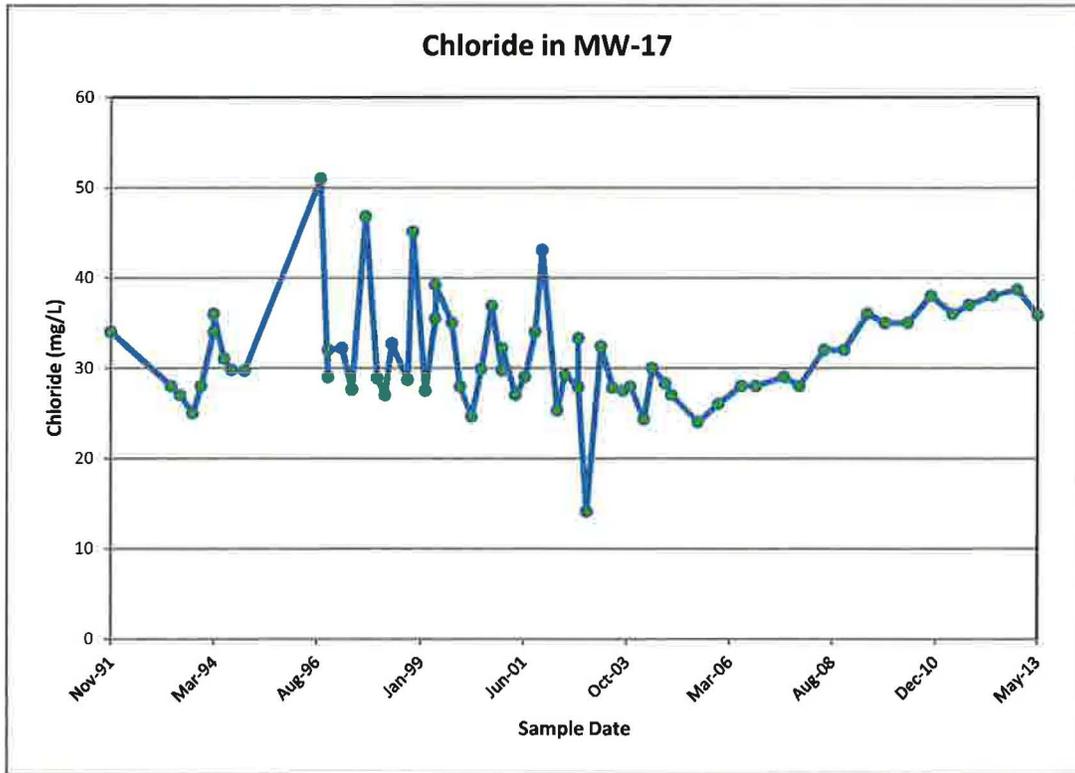


## Time concentration plots for MW-15

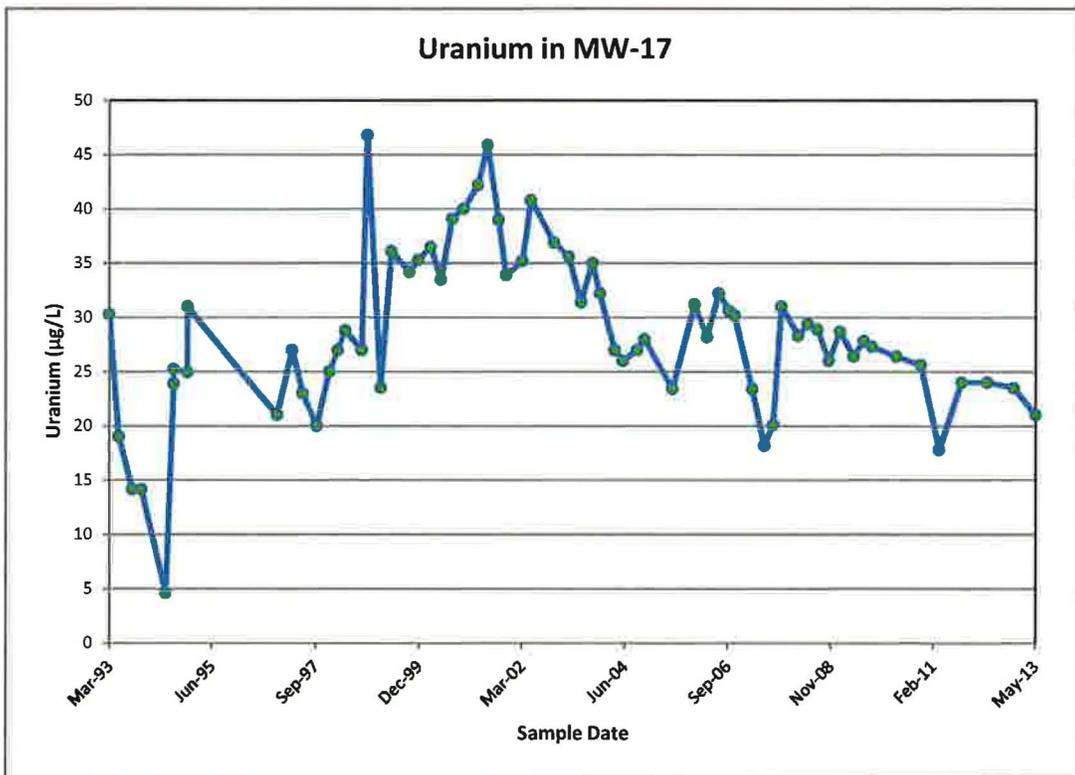
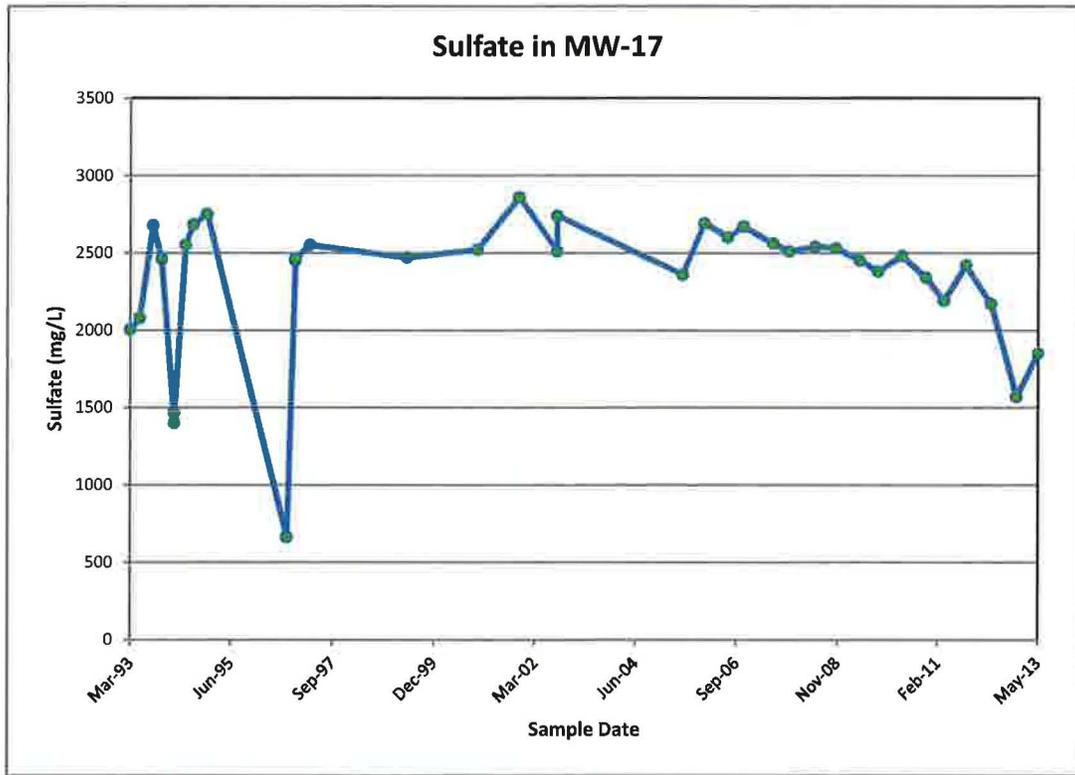




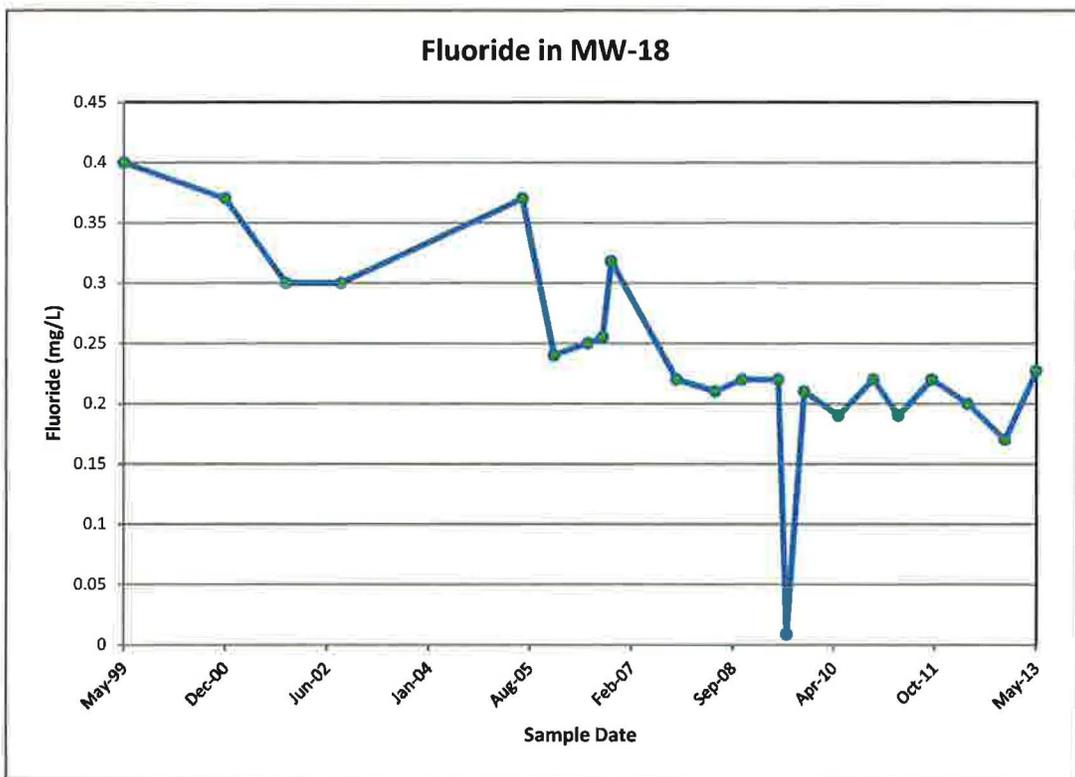
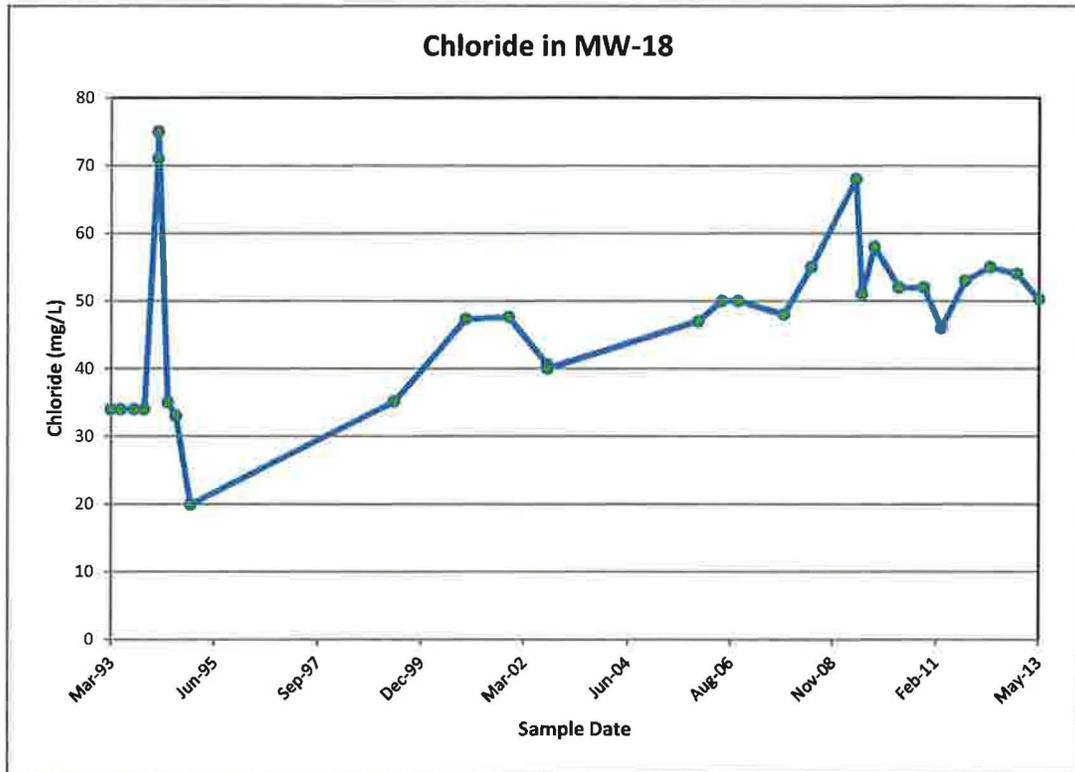
## Time concentration plots for MW-17



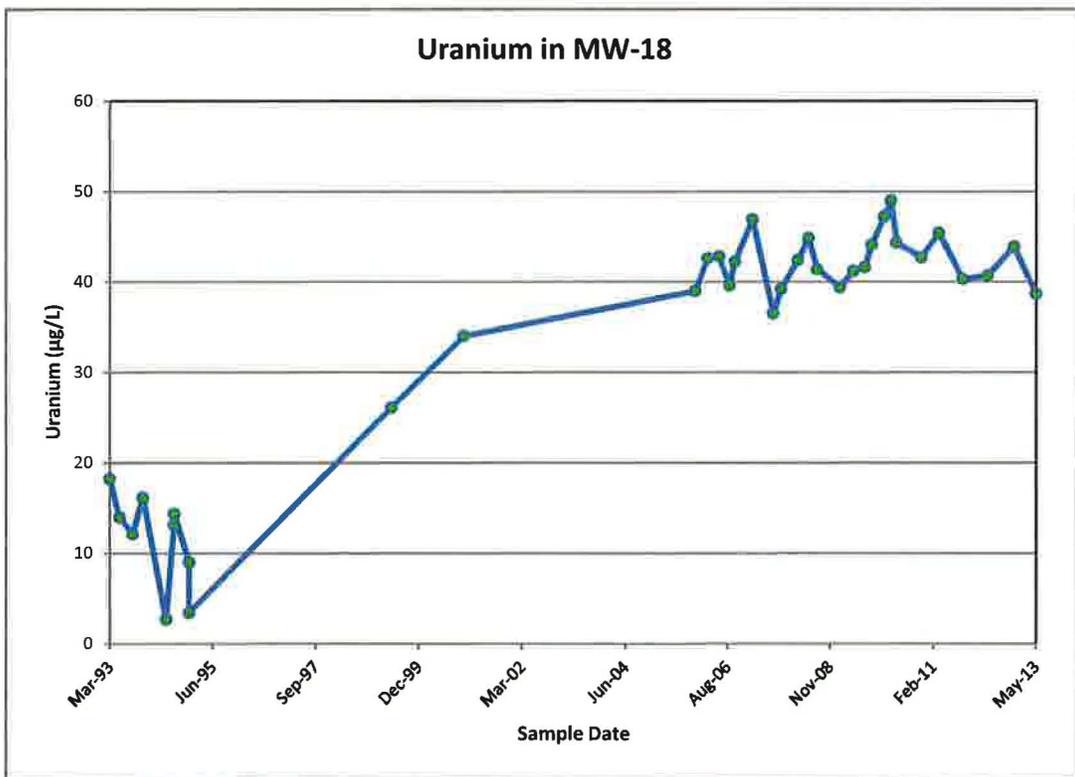
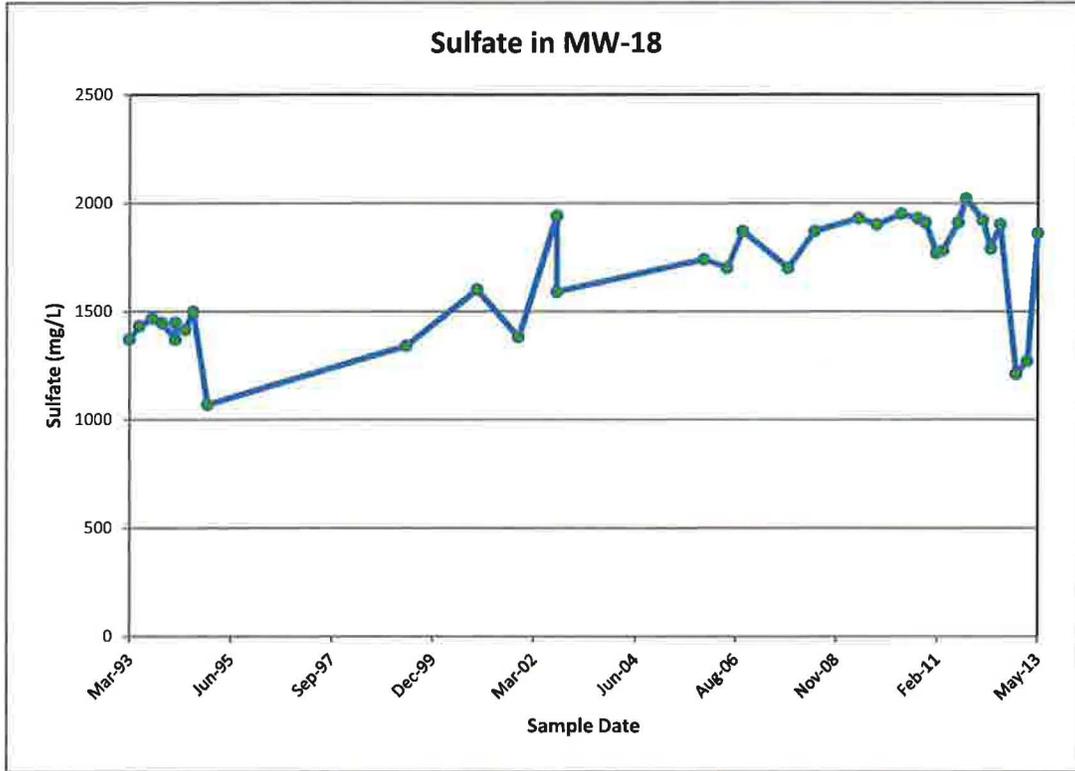
### Time concentration plots for MW-17



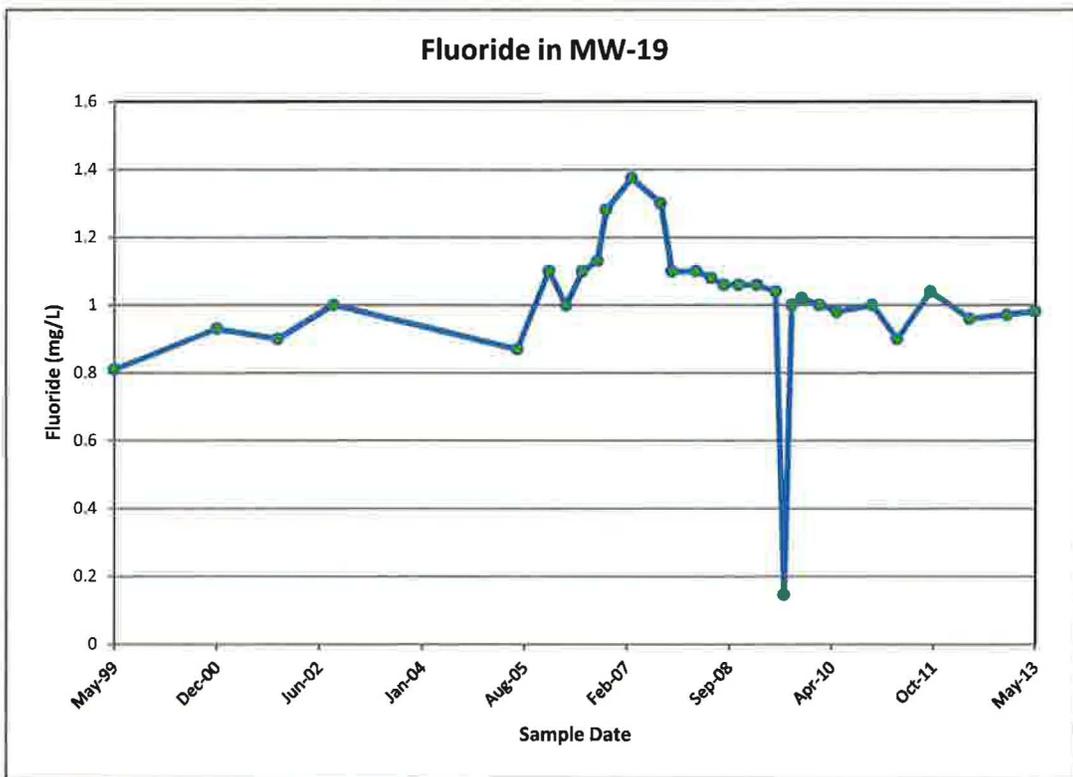
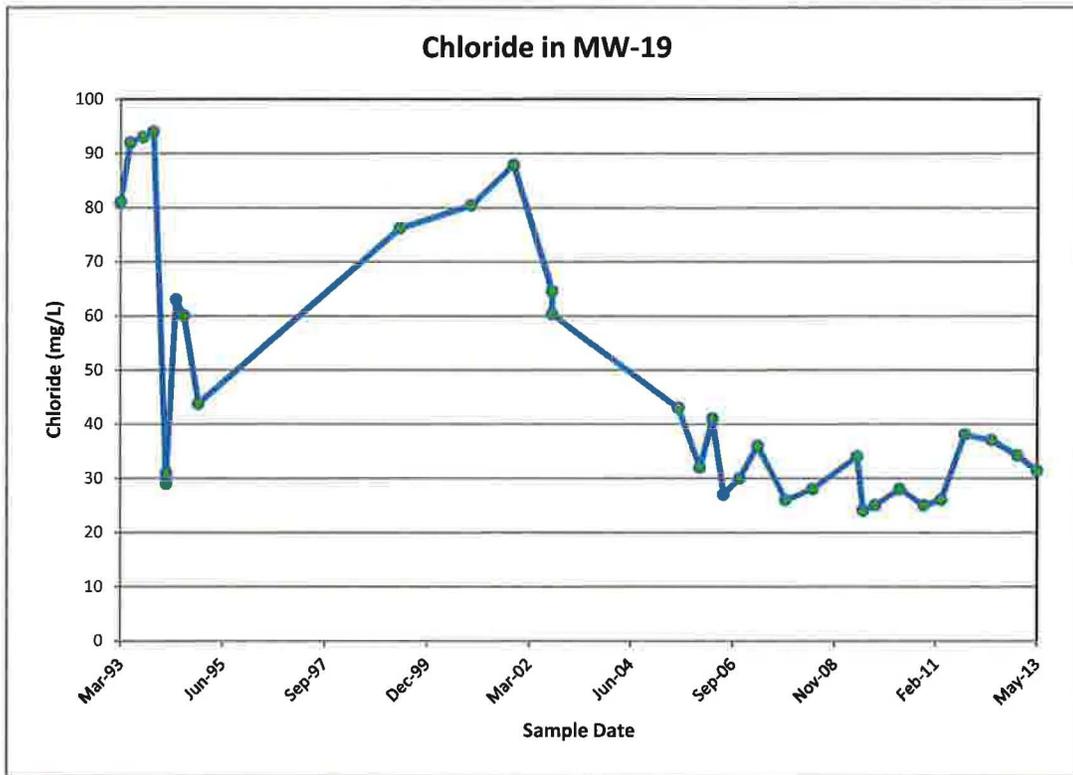
## Time concentration plots for MW-18



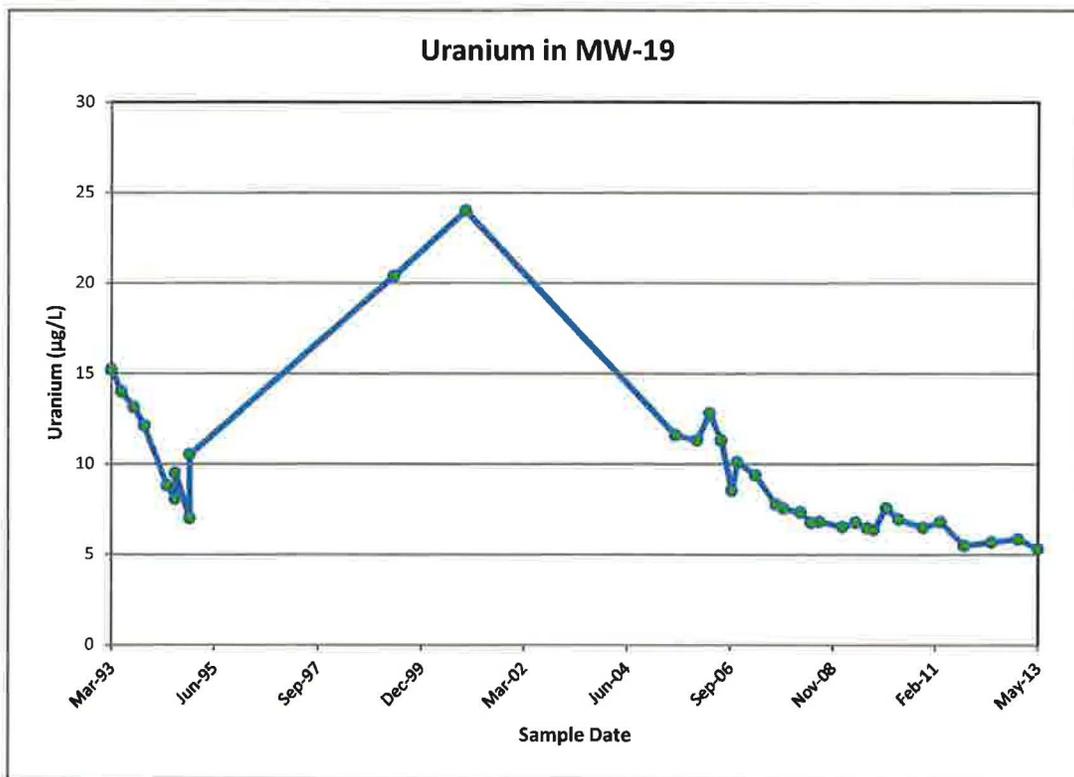
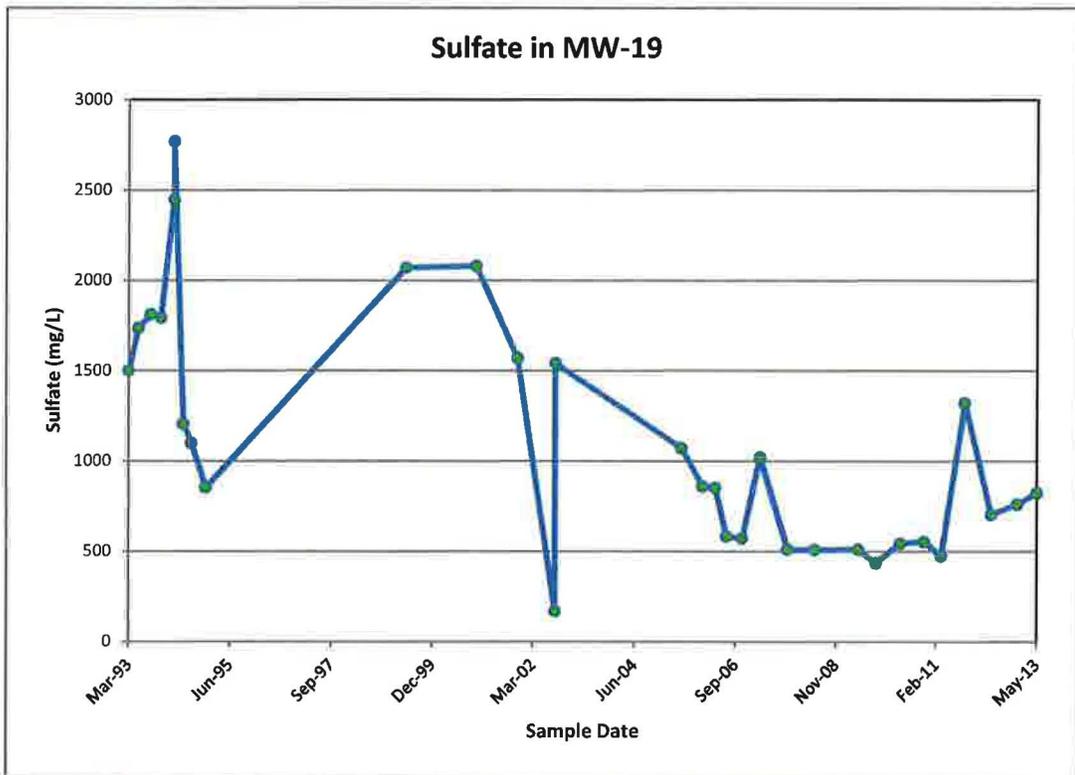
## Time concentration plots for MW-18



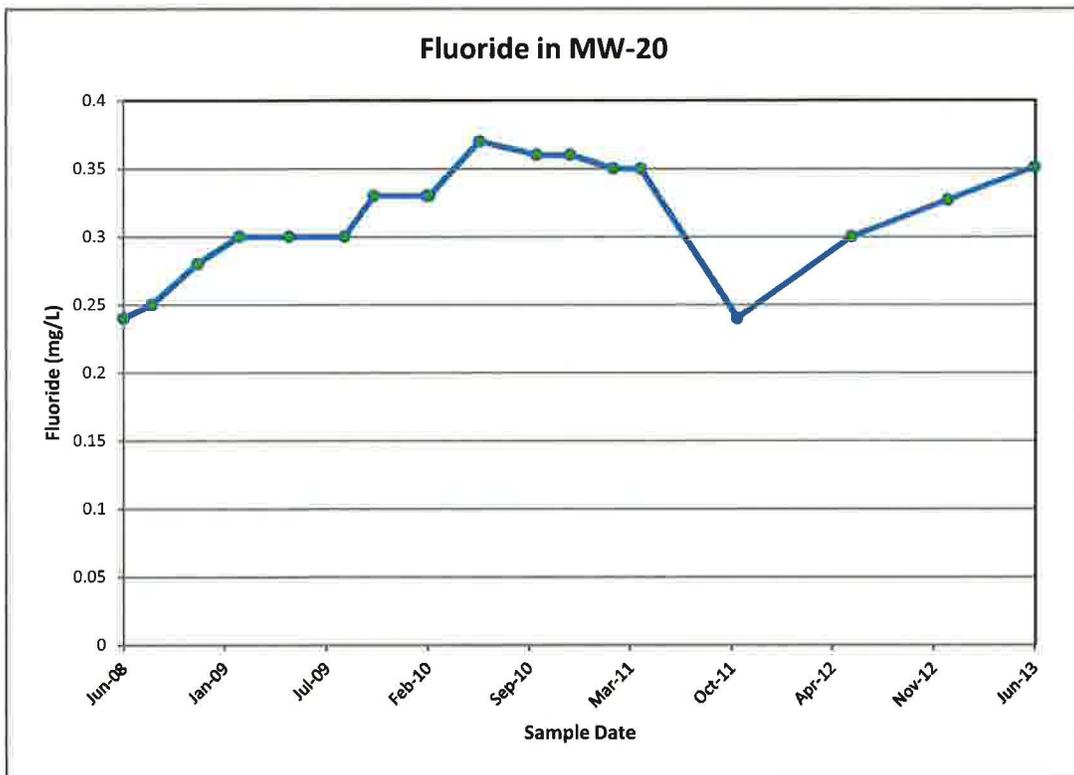
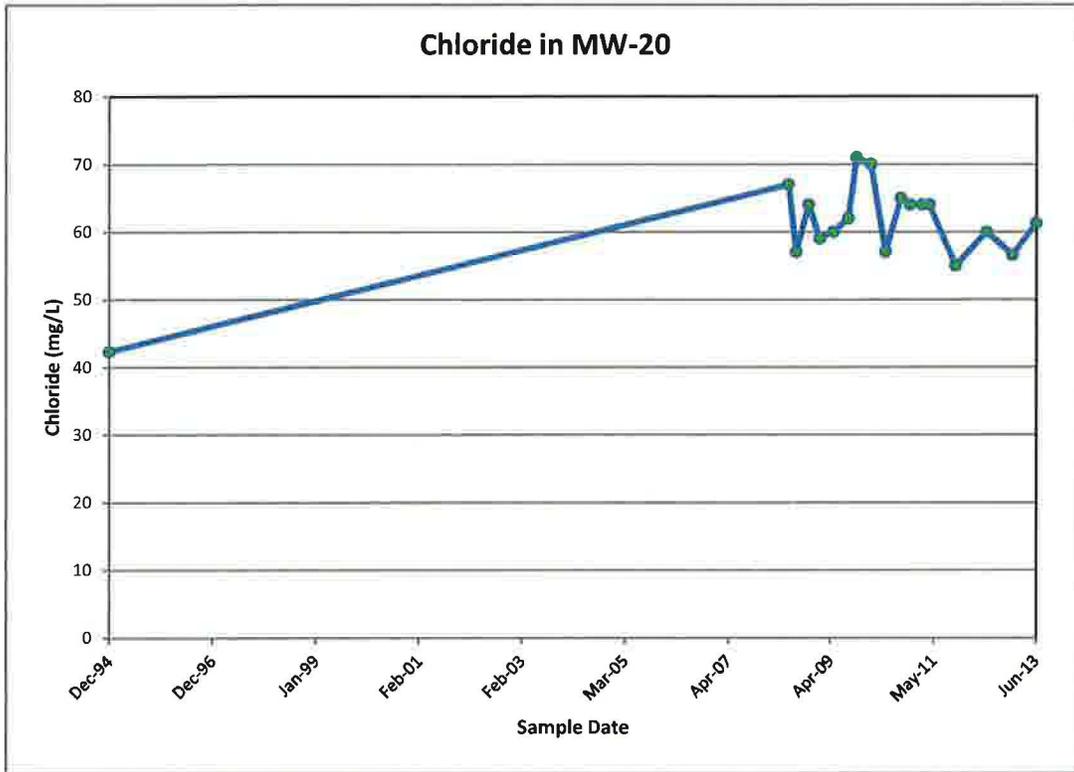
### Time concentration plots for MW-19



## Time concentration plots for MW-19

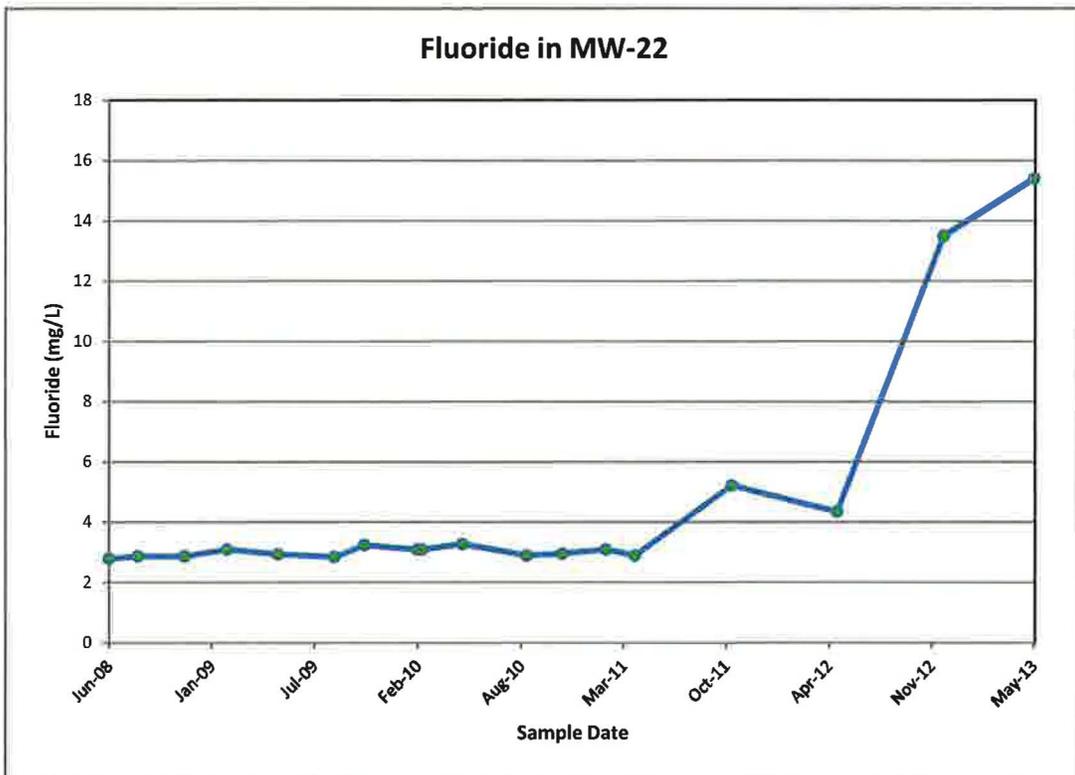
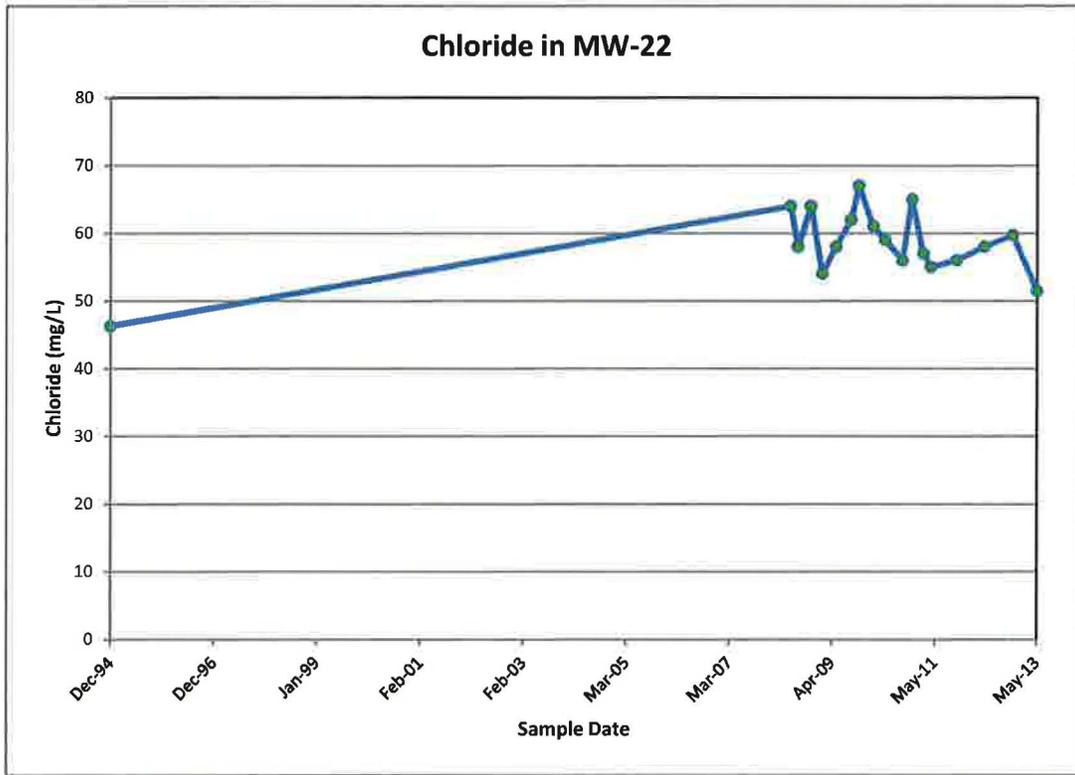


## Time concentration plots for MW-20

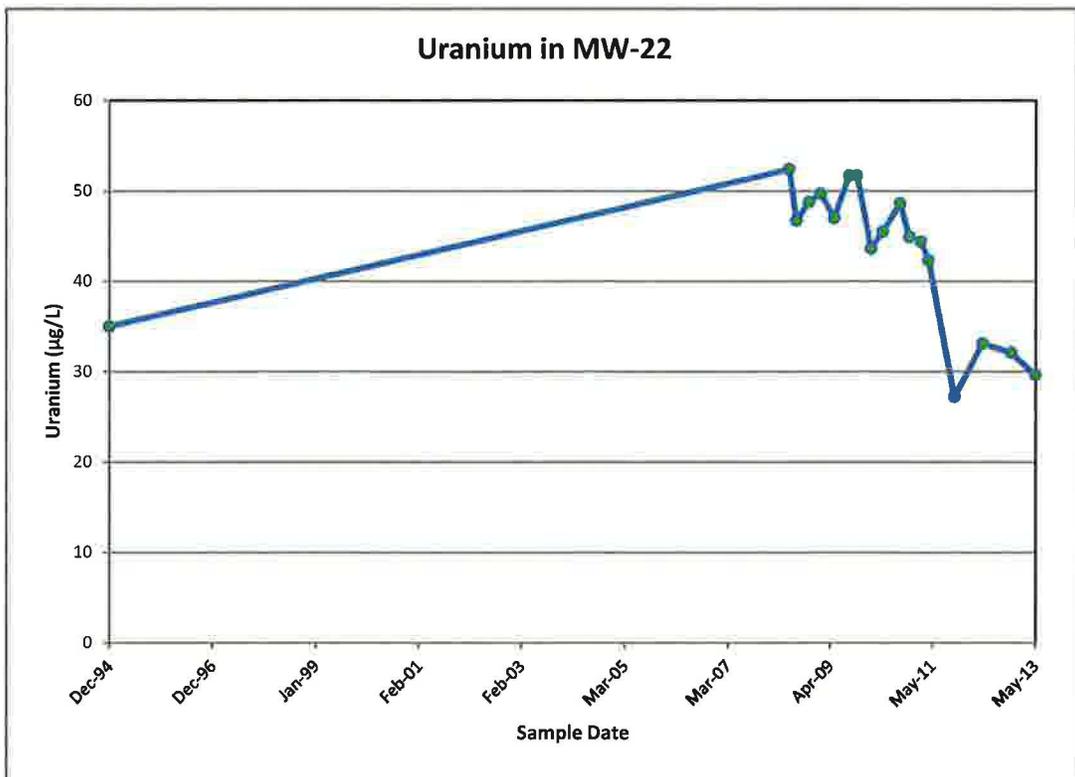
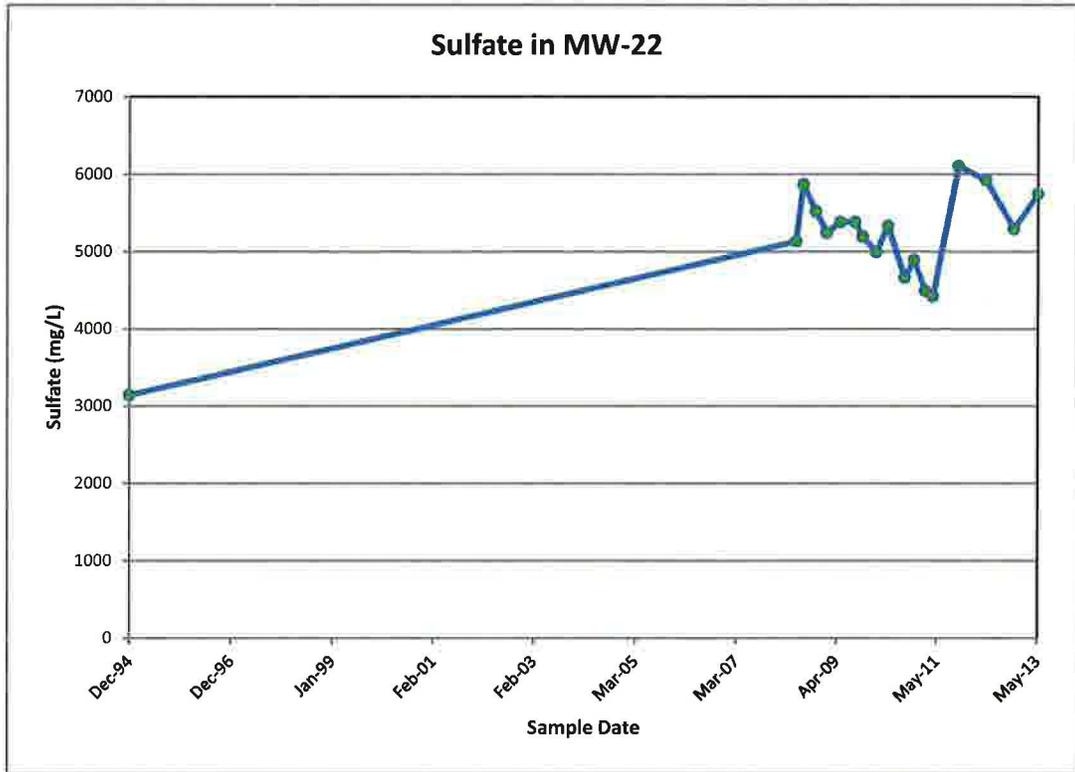




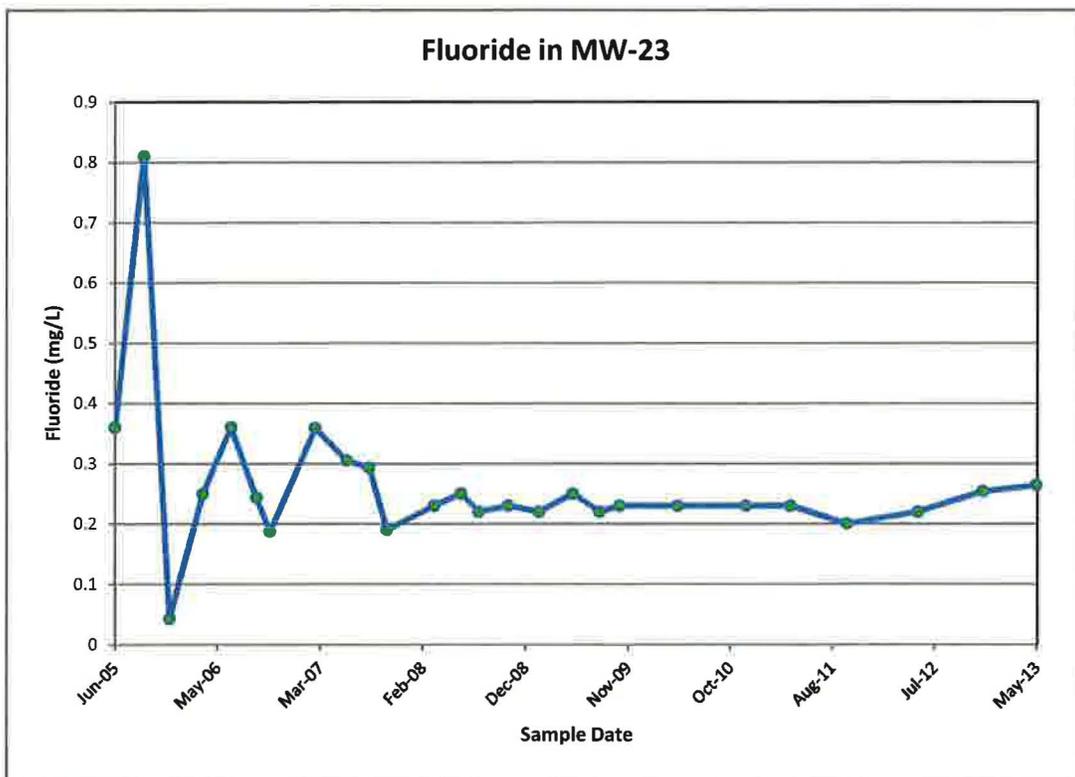
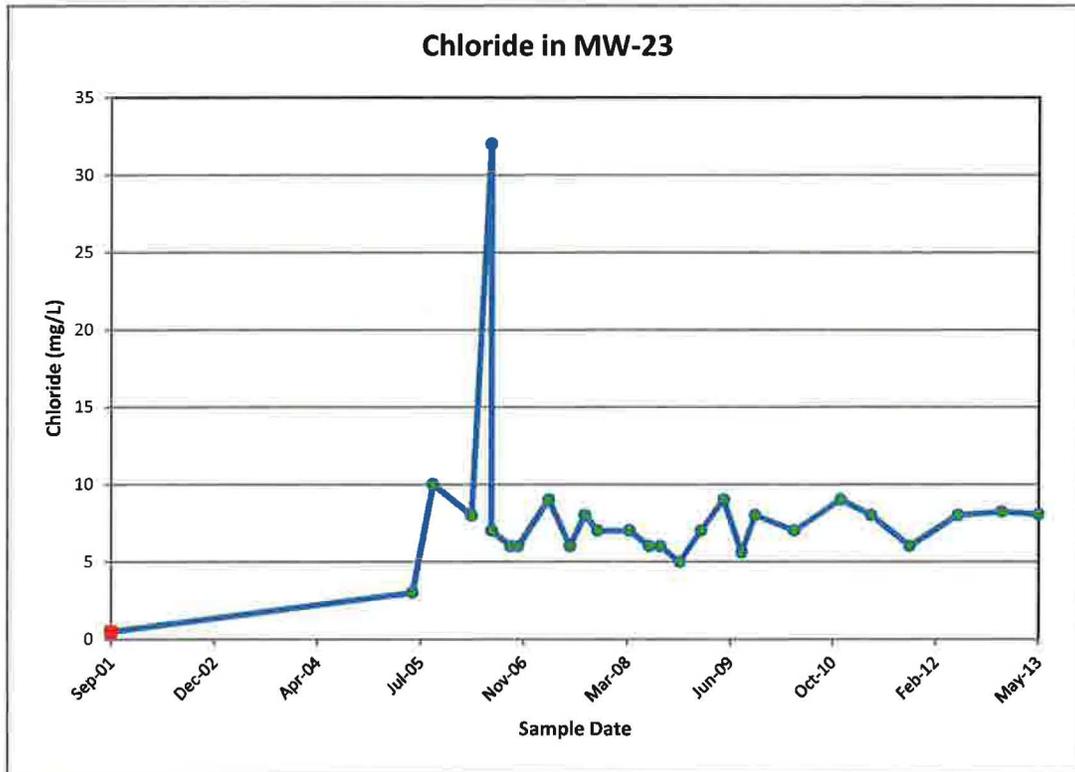
## Time concentration plots for MW-22



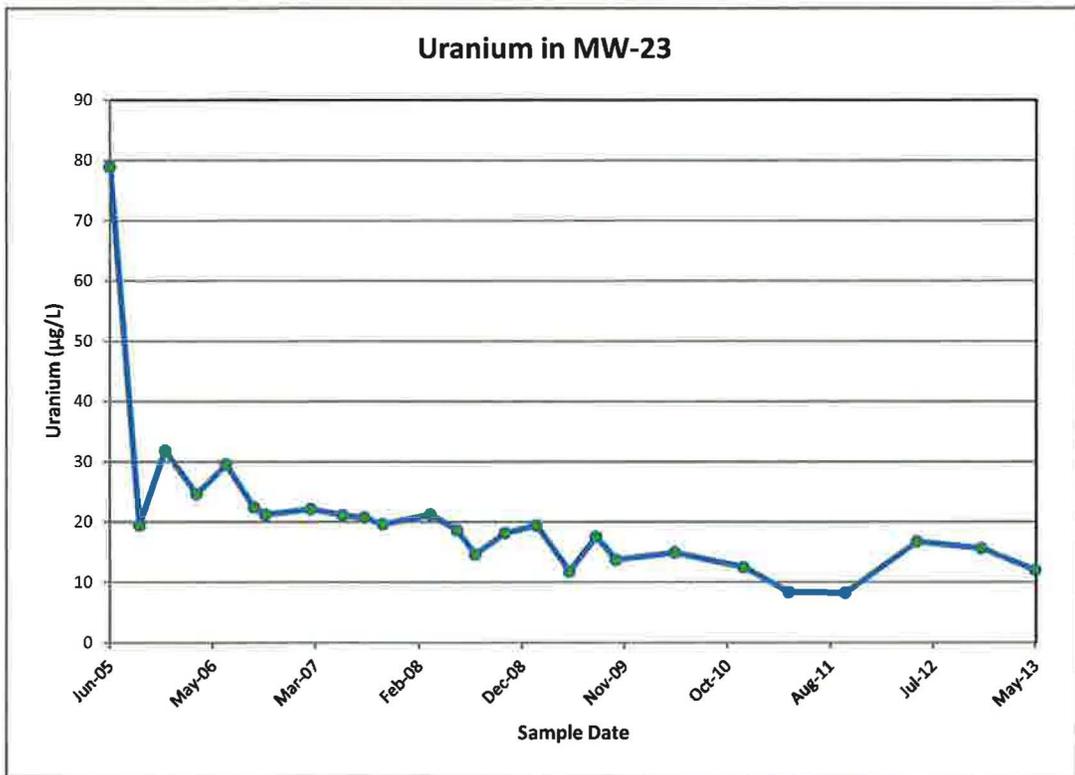
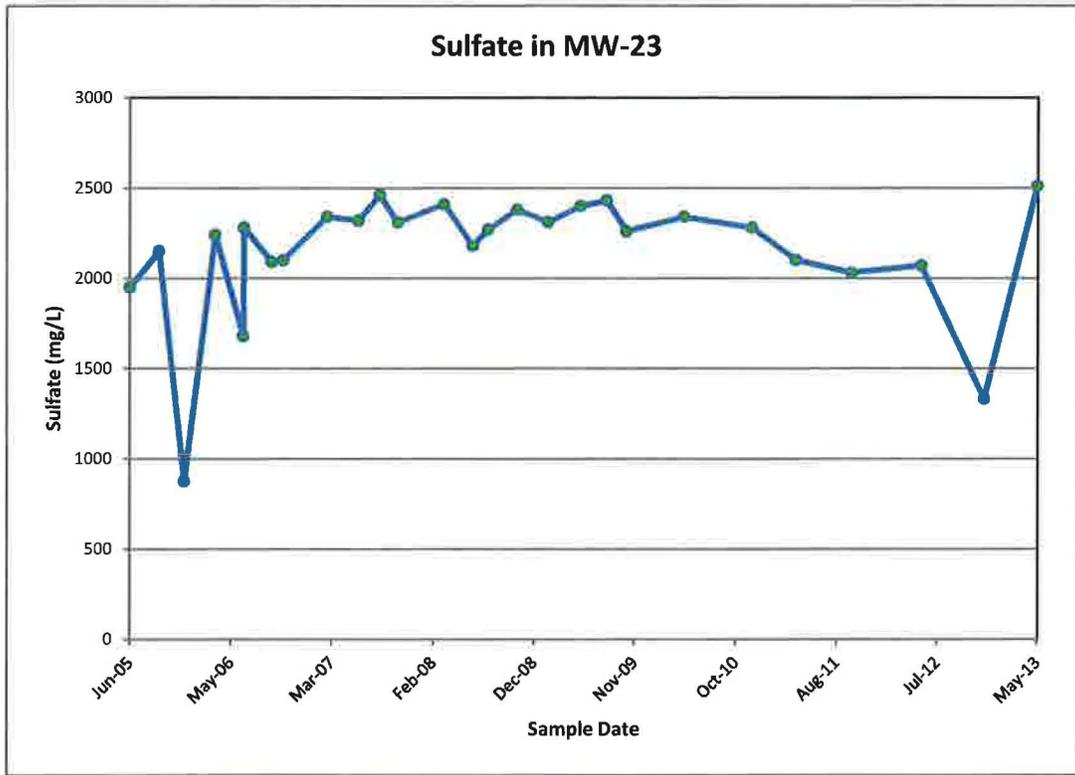
## Time concentration plots for MW-22



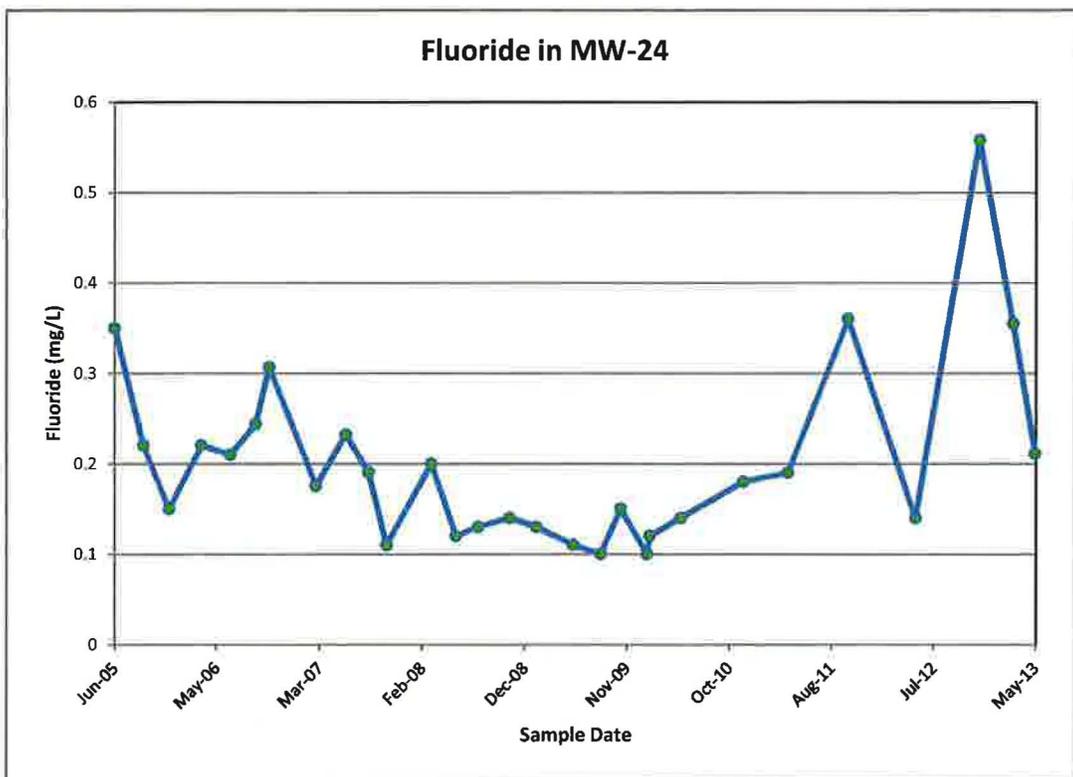
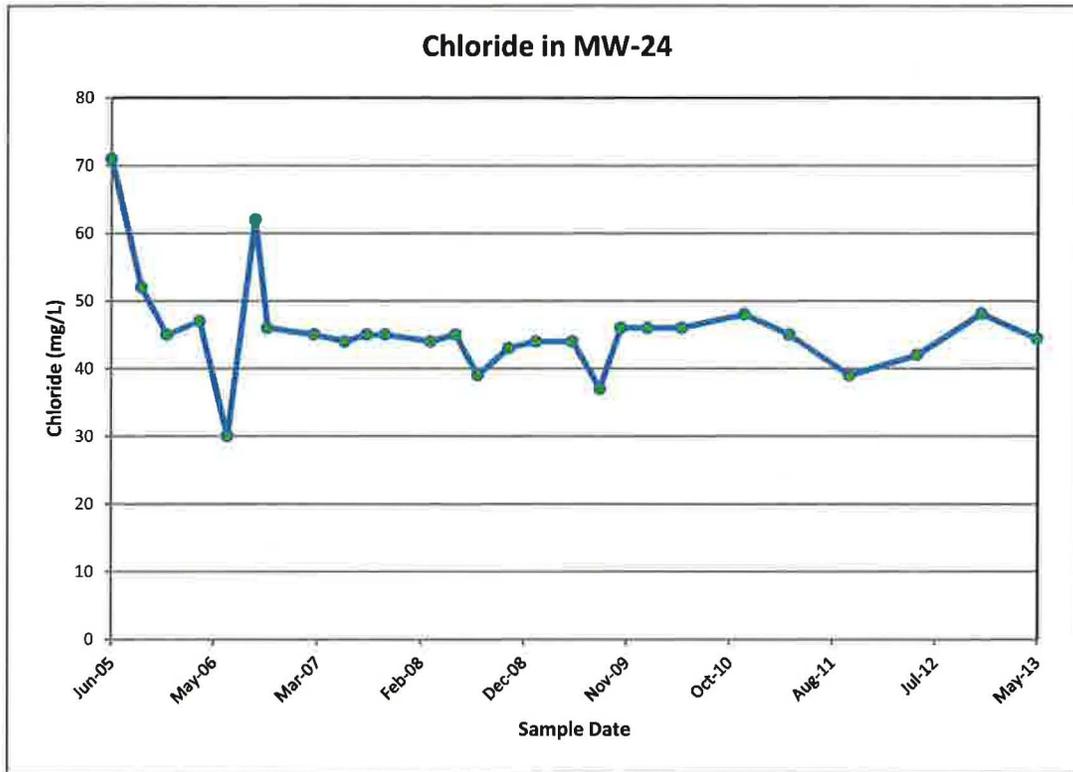
## Time concentration plots for MW-23



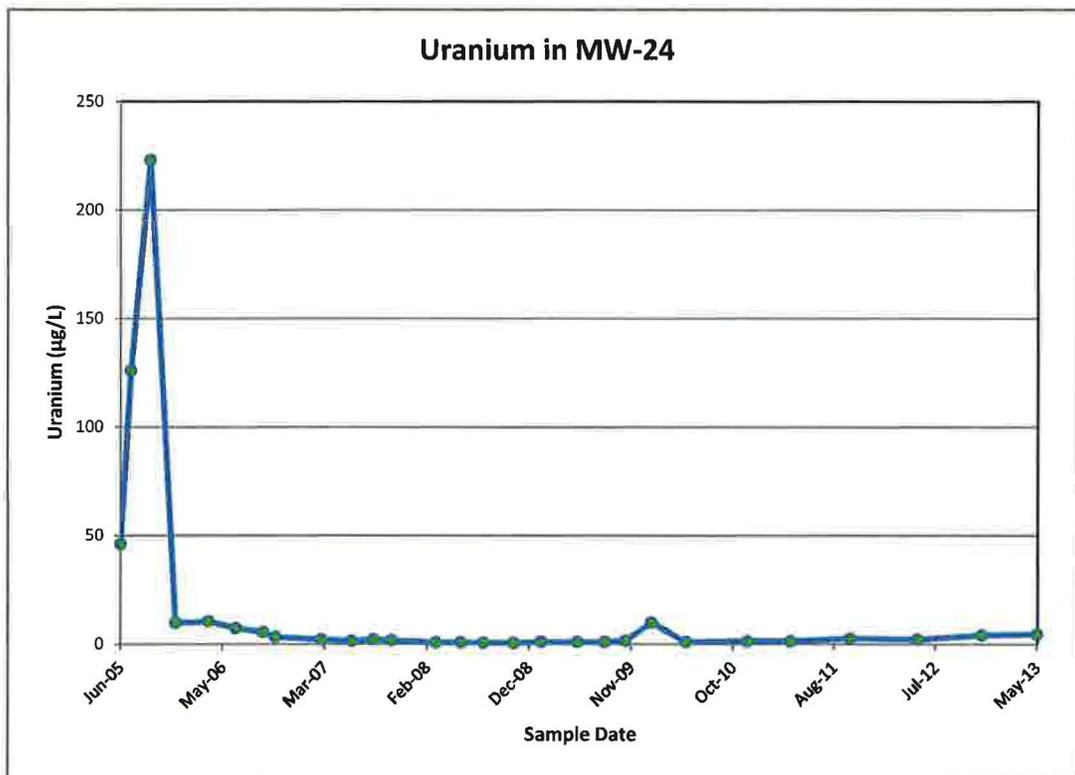
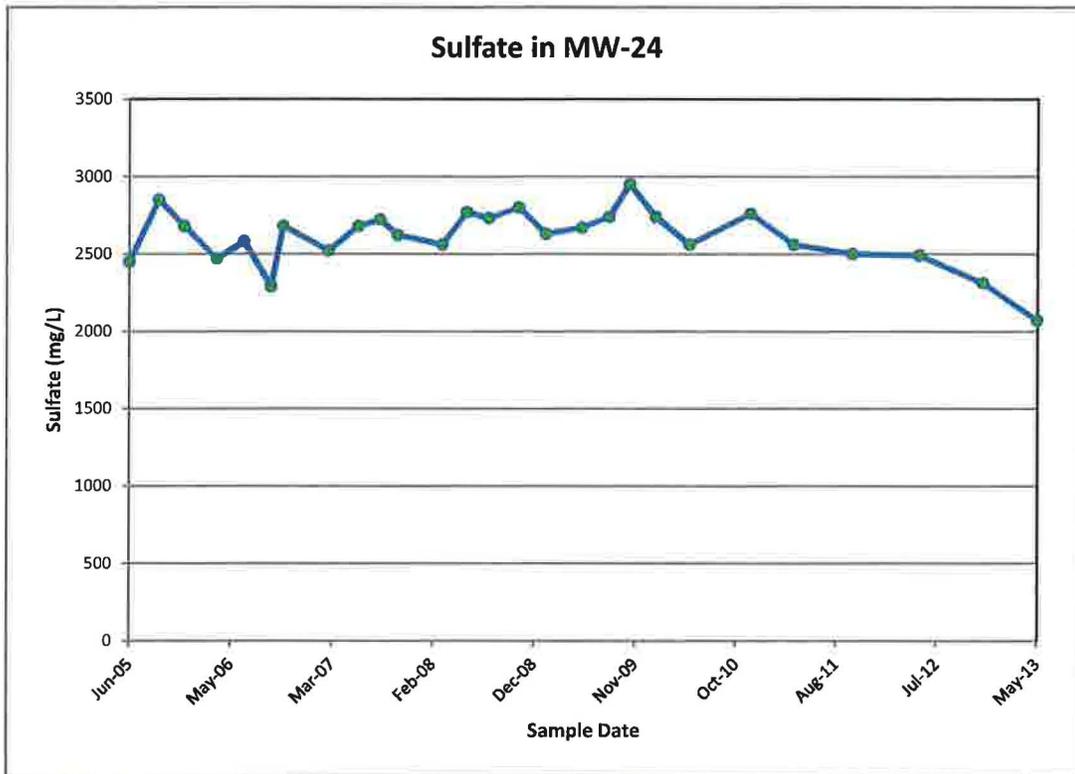
### Time concentration plots for MW-23



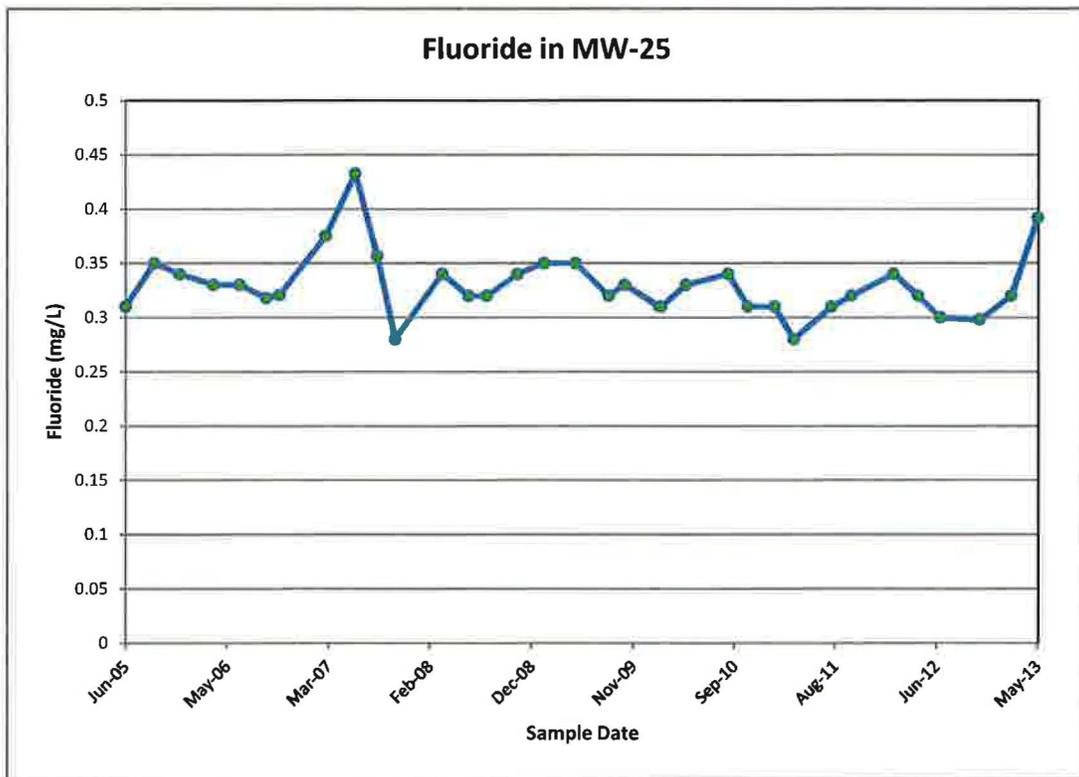
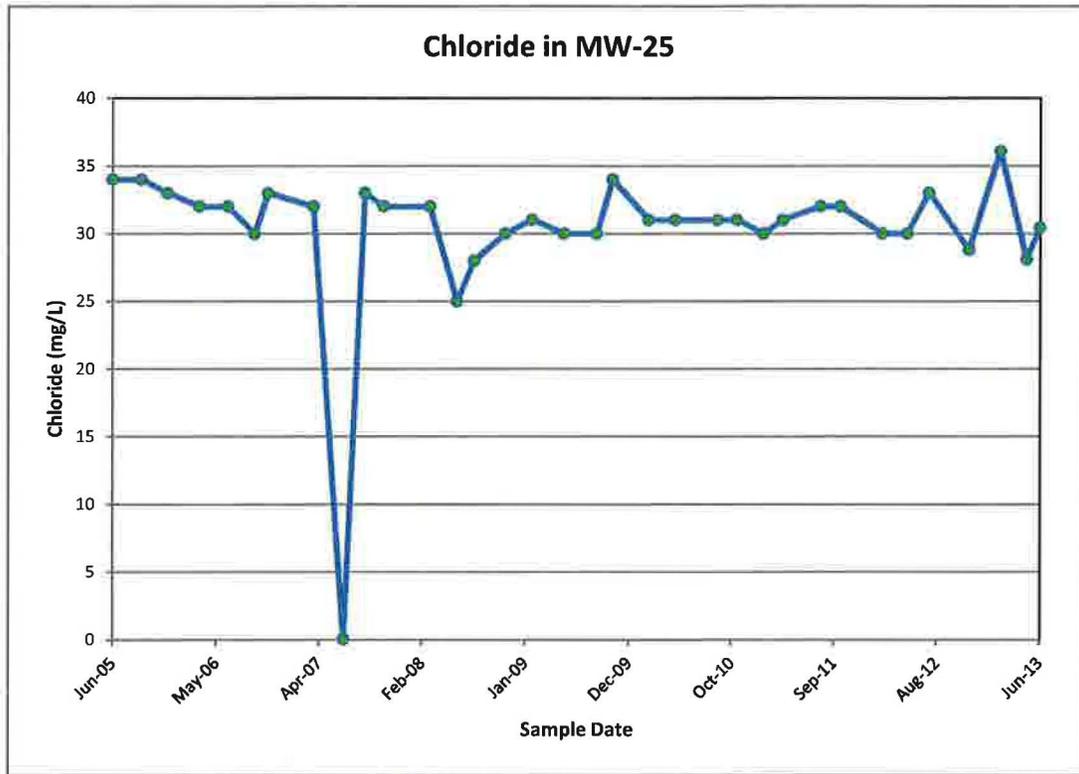
## Time concentration plots for MW-24



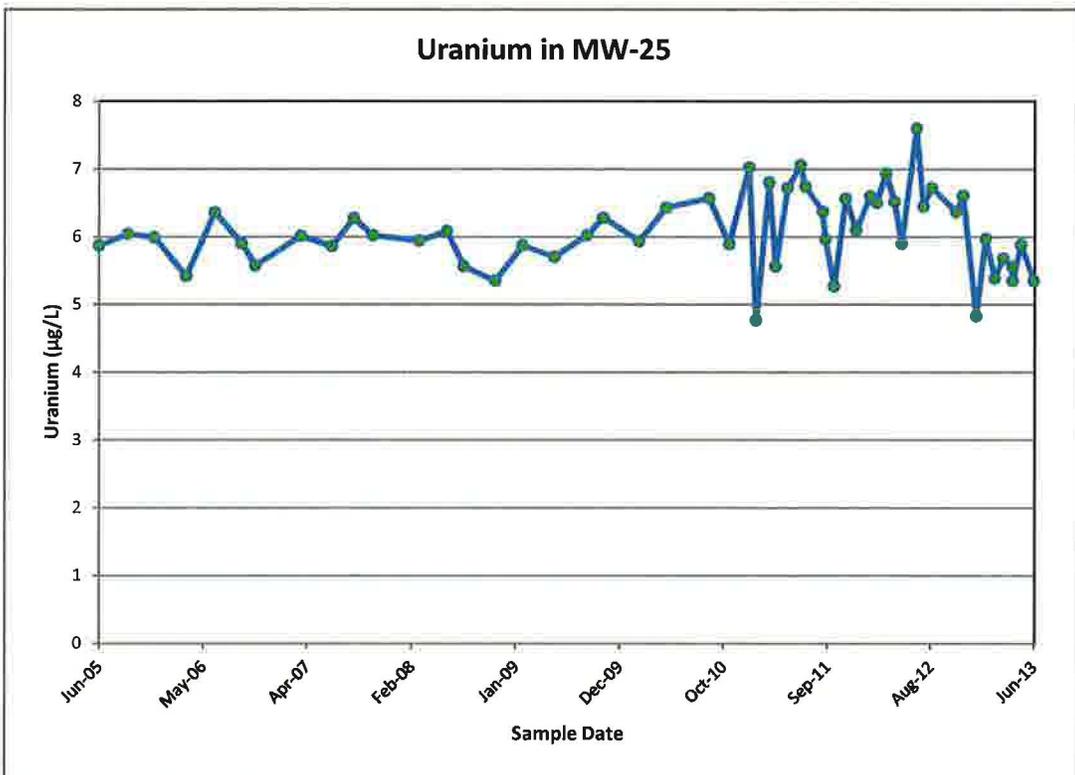
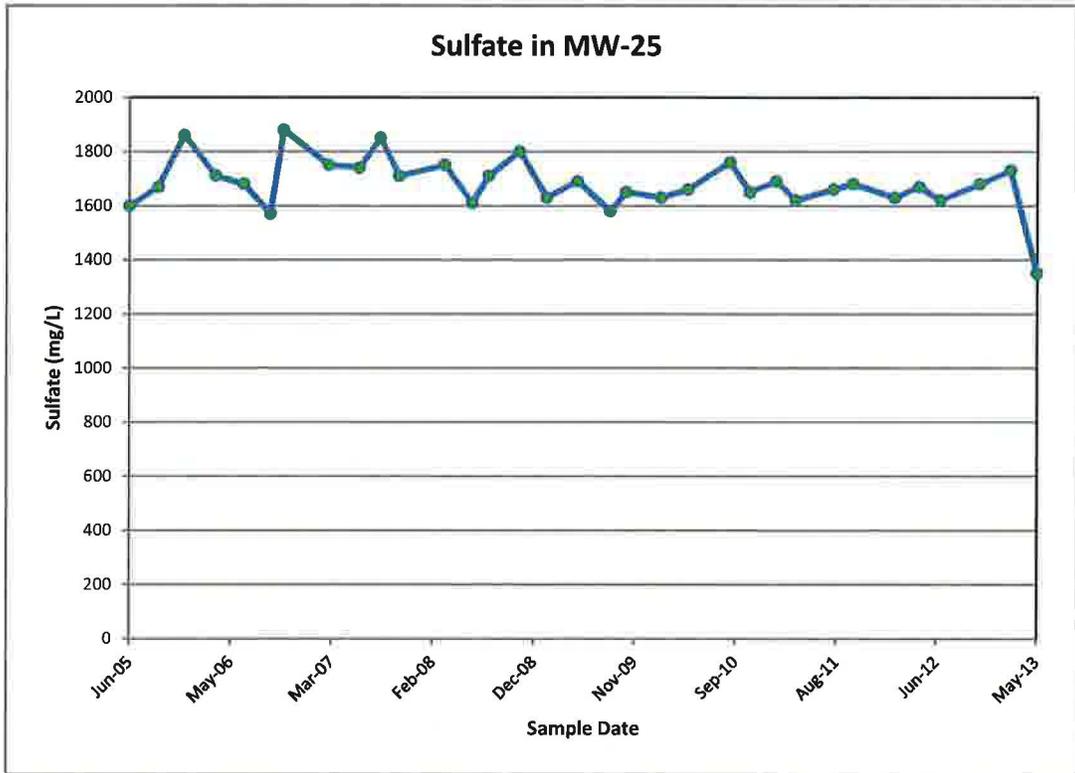
## Time concentration plots for MW-24



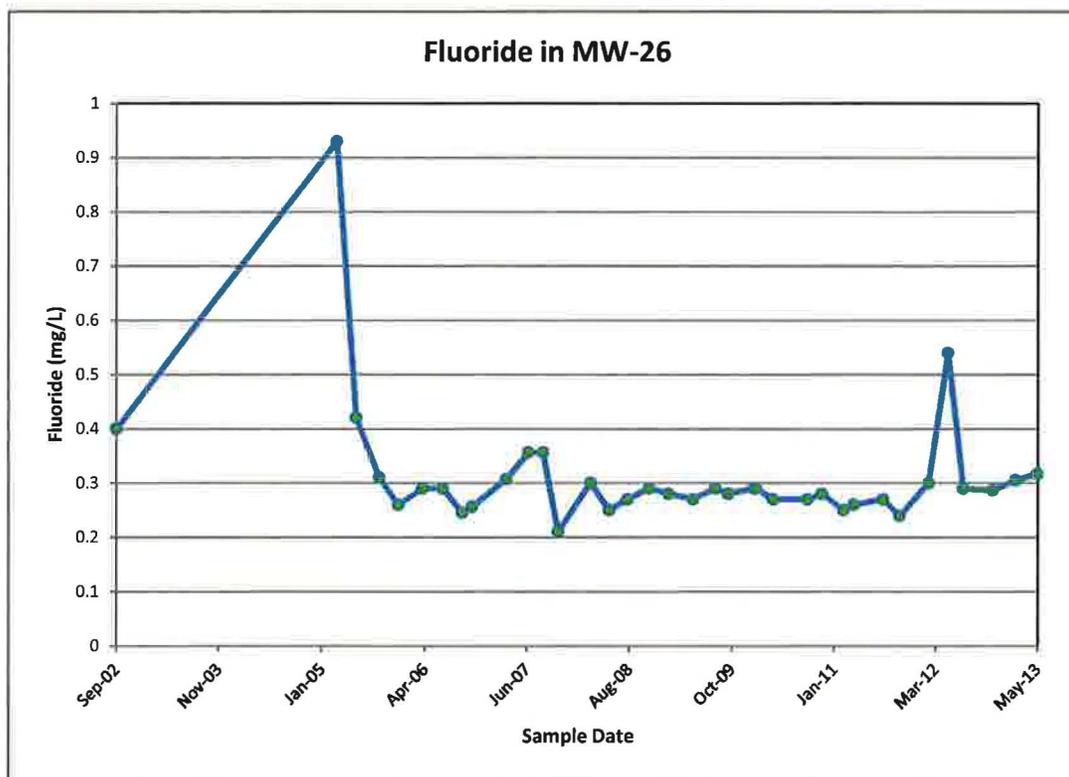
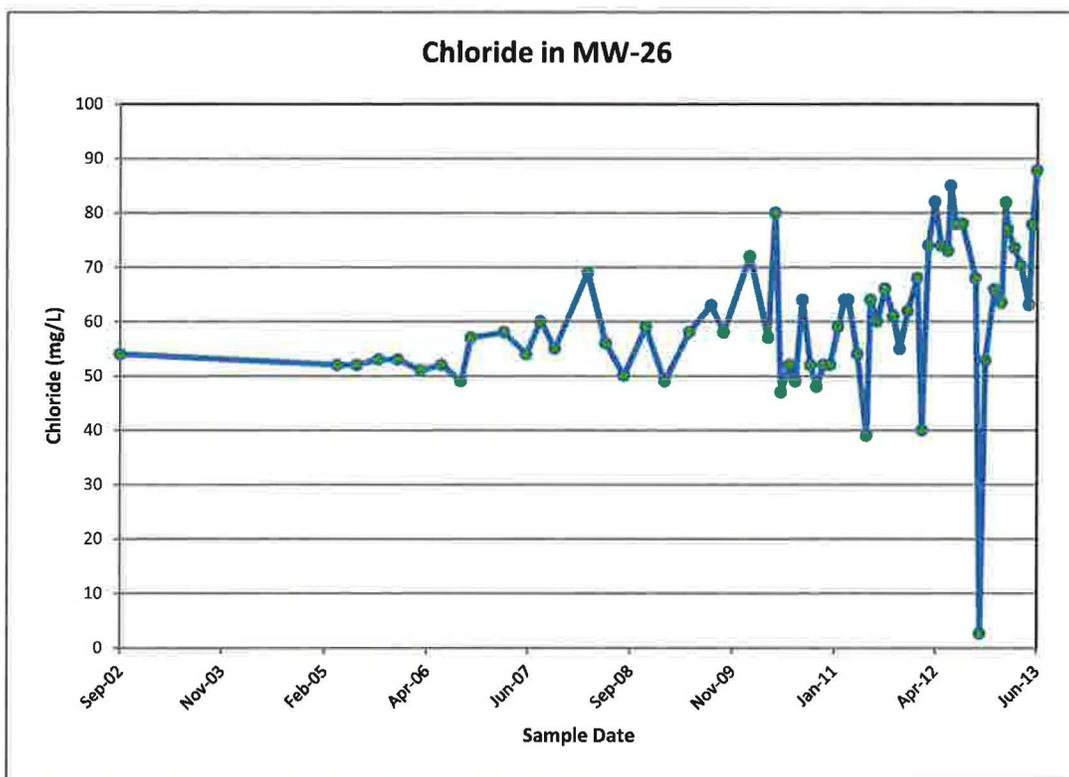
## Time concentration plots for MW-25



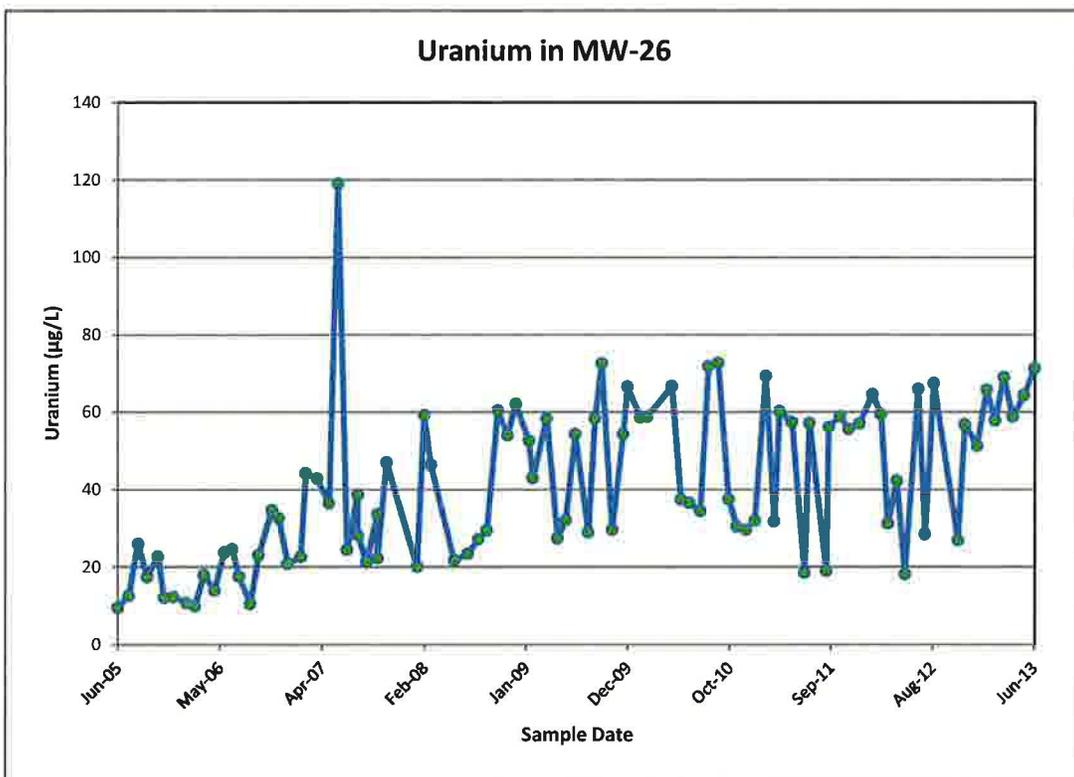
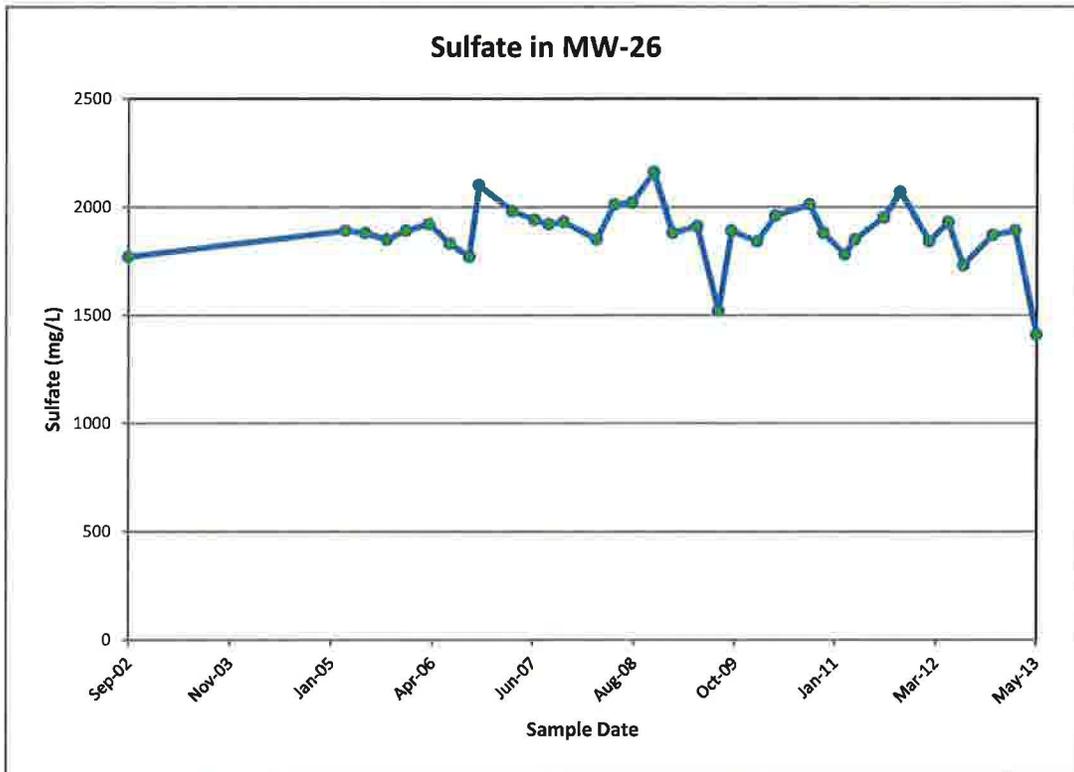
## Time concentration plots for MW-25



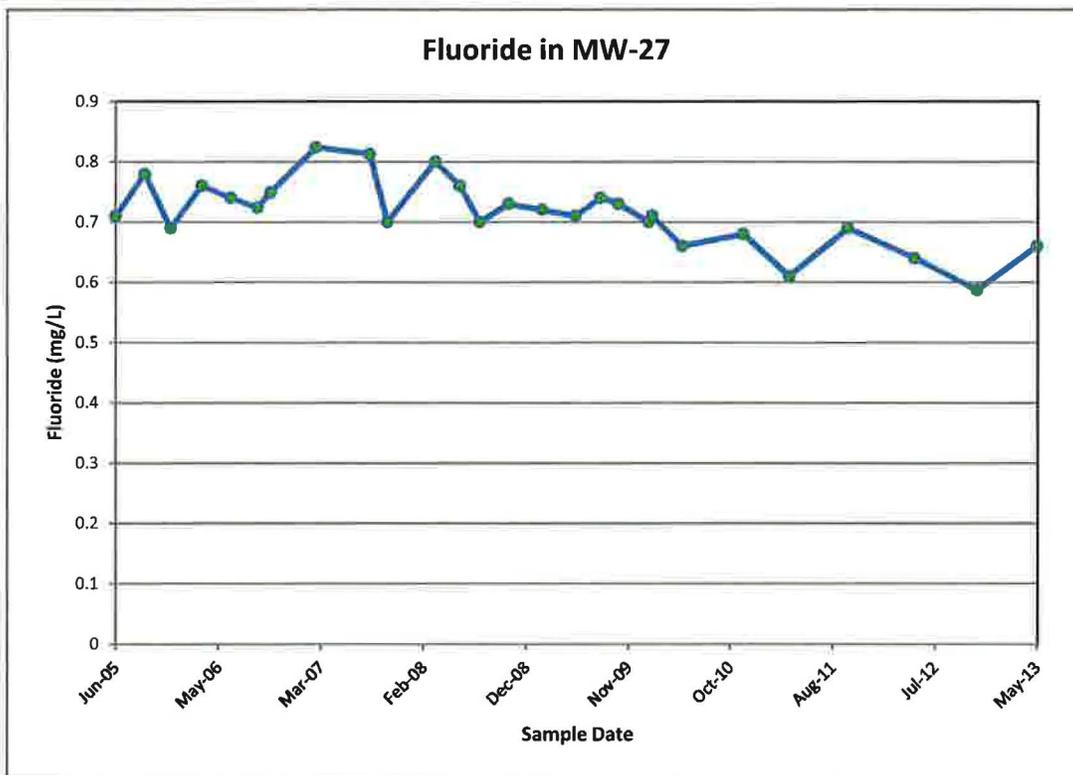
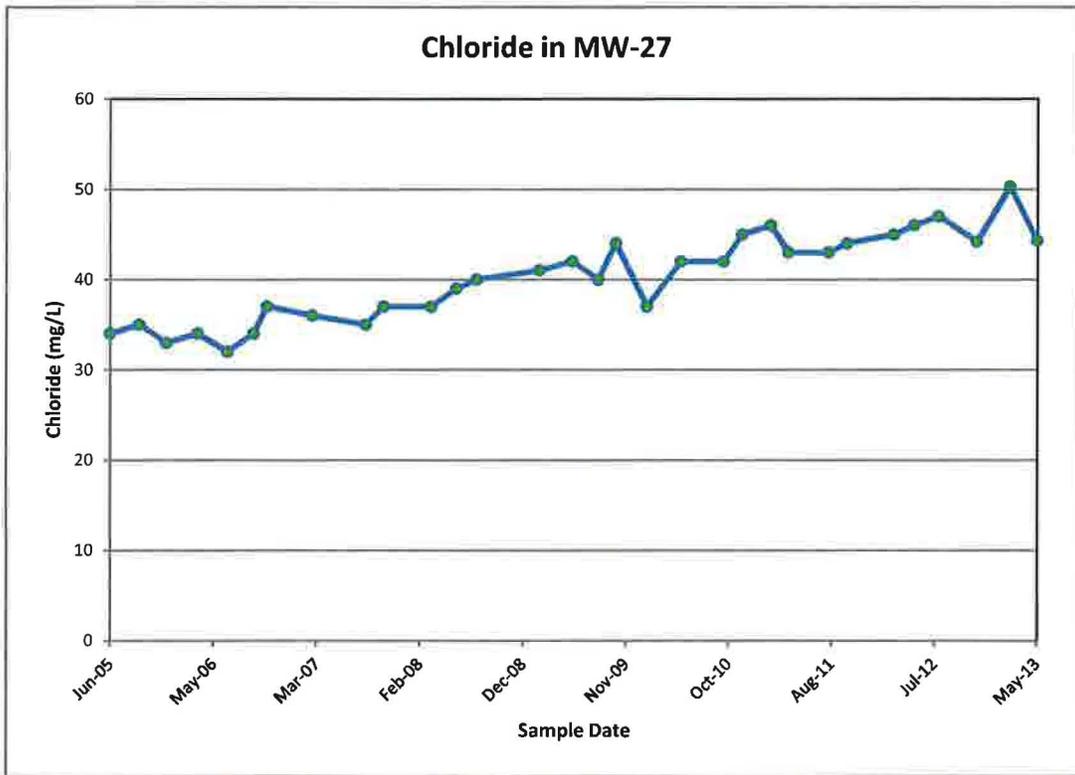
### Time concentration plots for MW-26



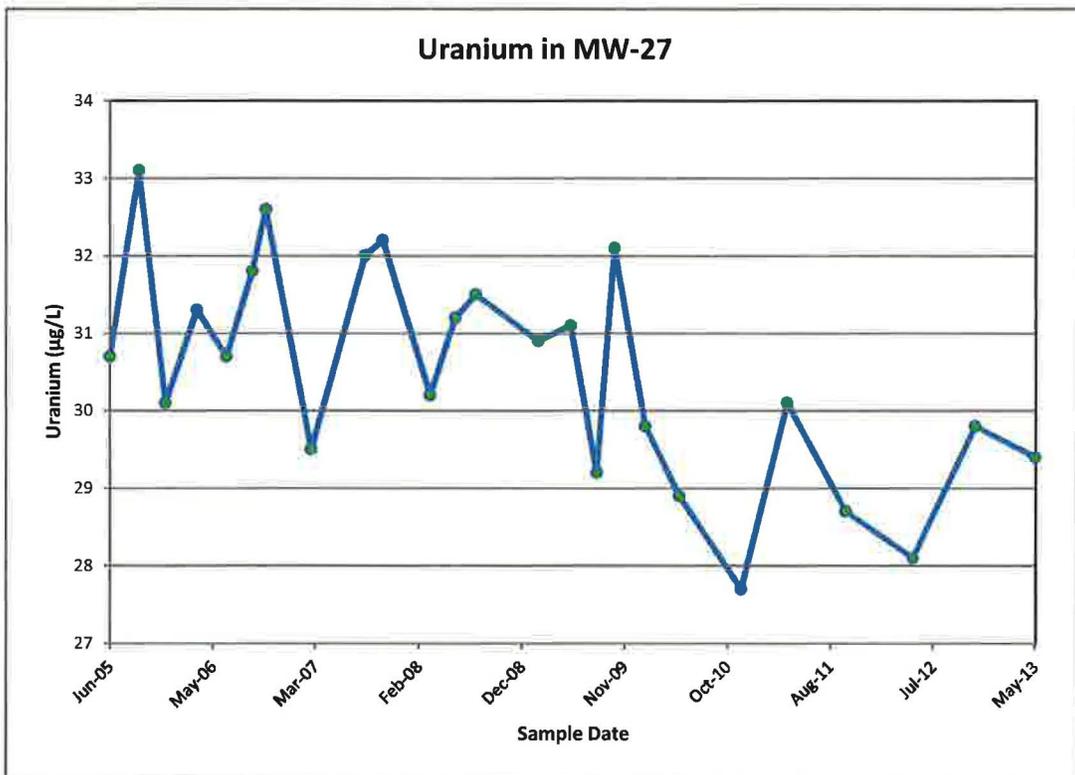
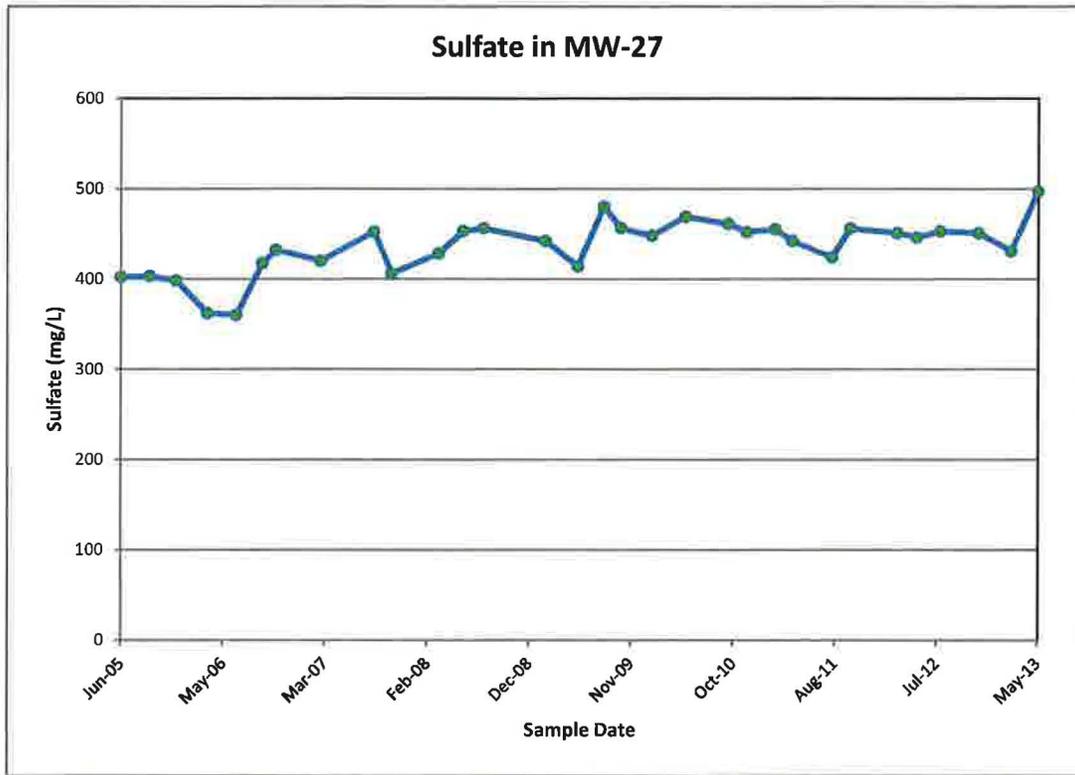
## Time concentration plots for MW-26



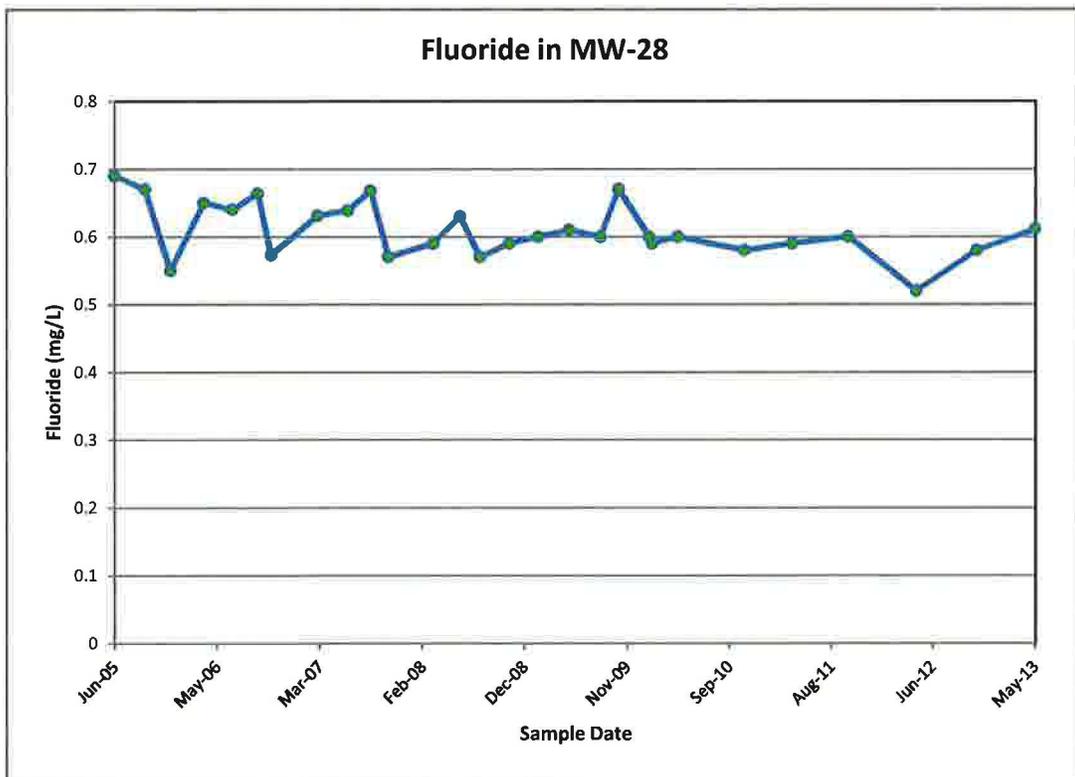
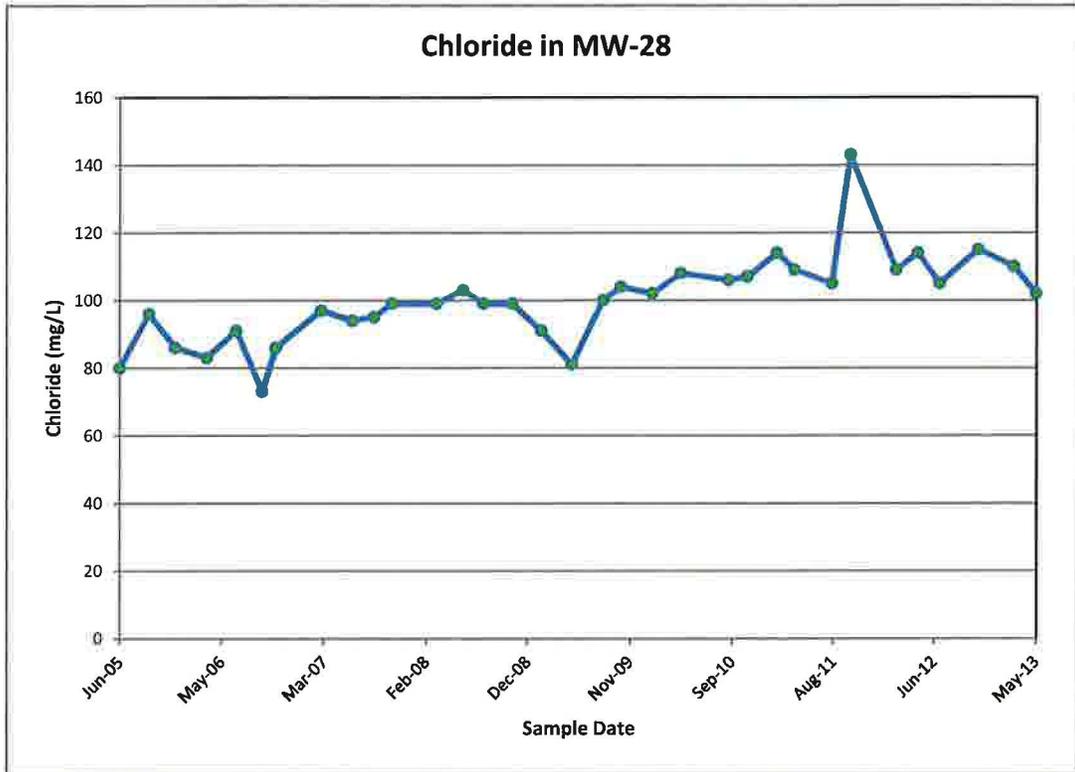
## Time concentration plots for MW-27



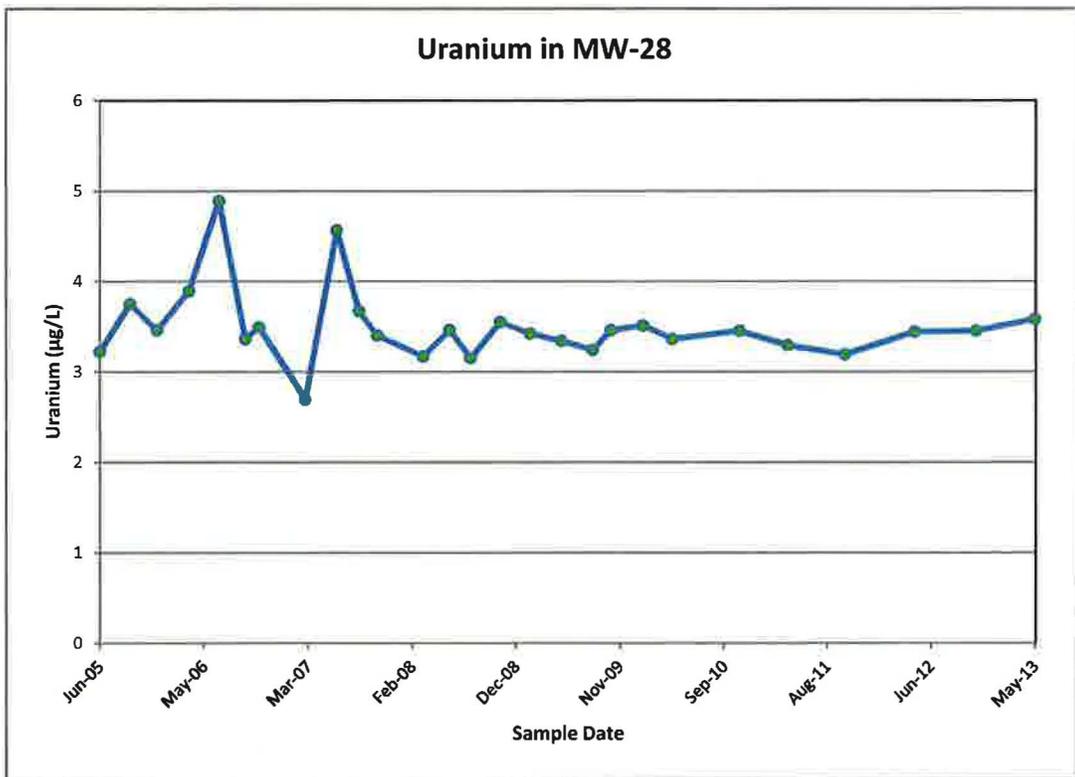
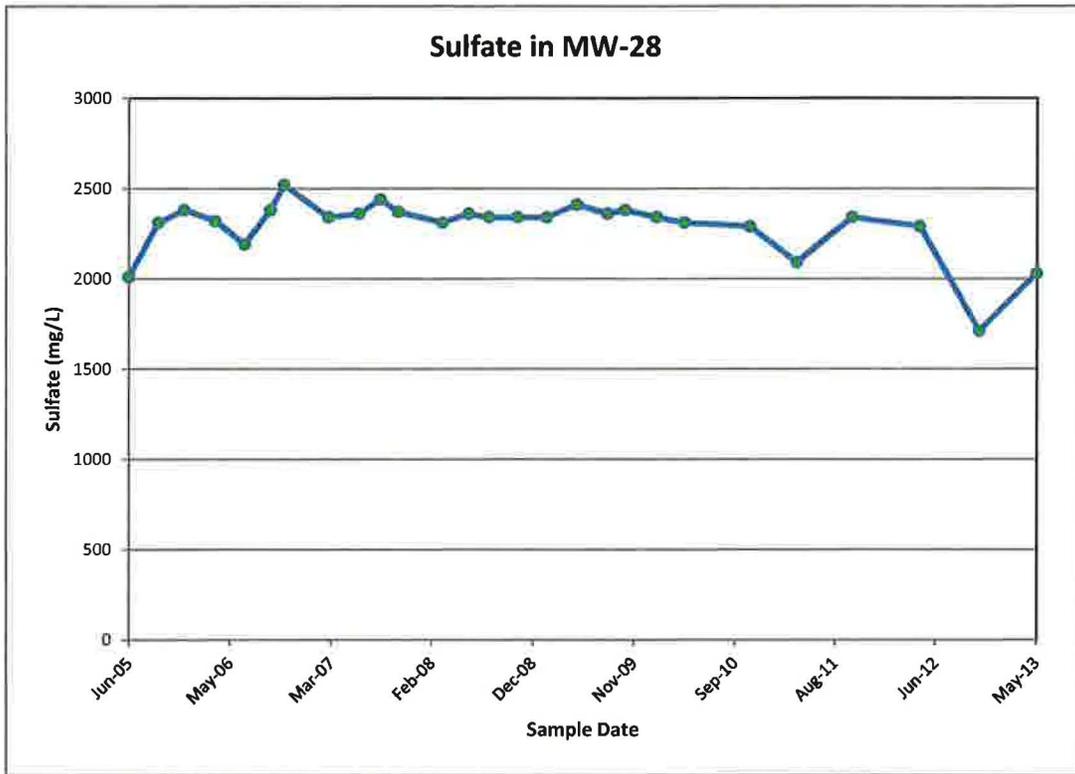
## Time concentration plots for MW-27



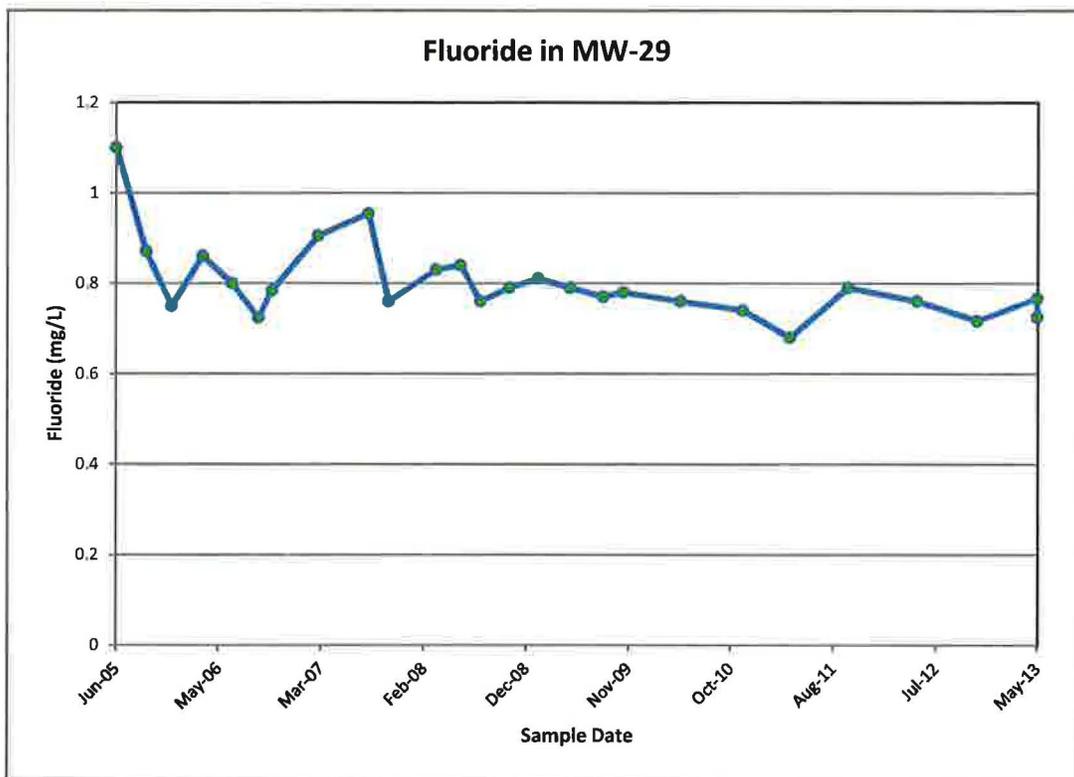
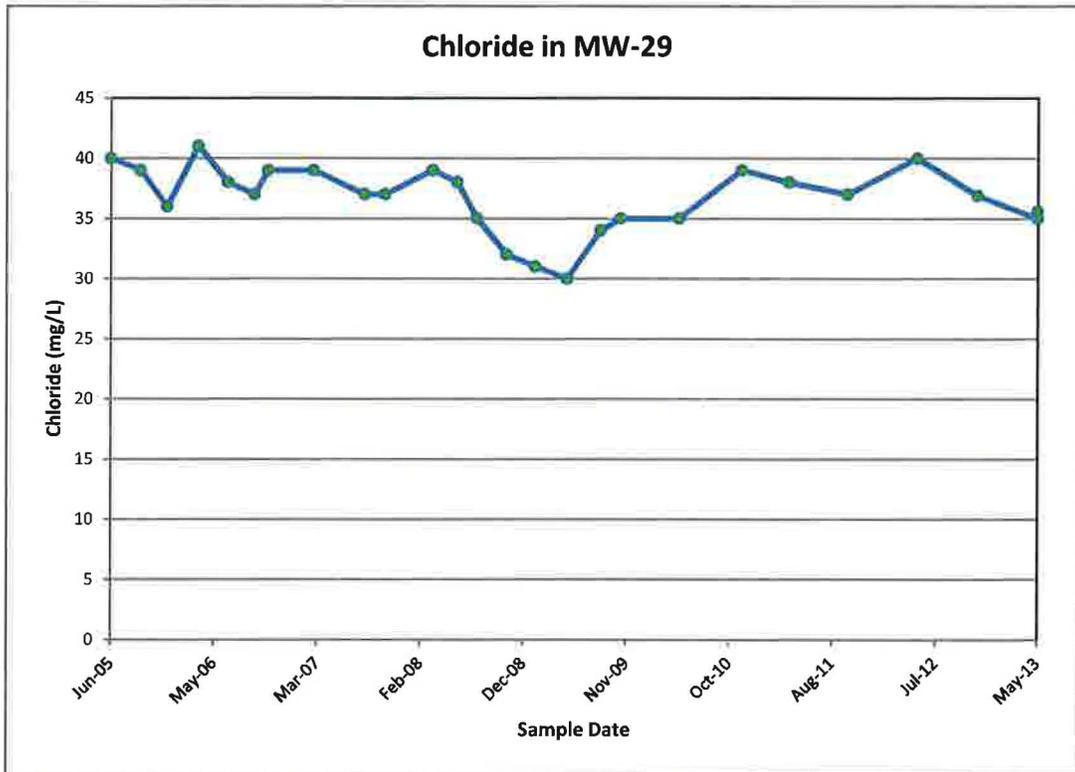
## Time concentration plots for MW-28



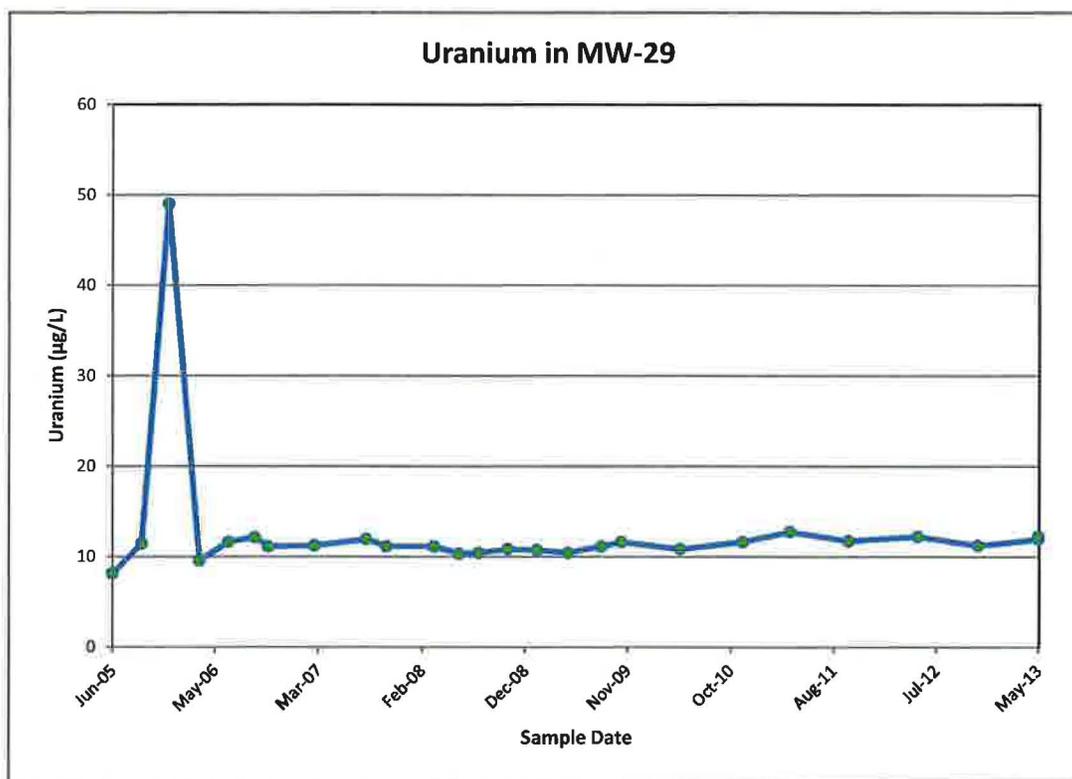
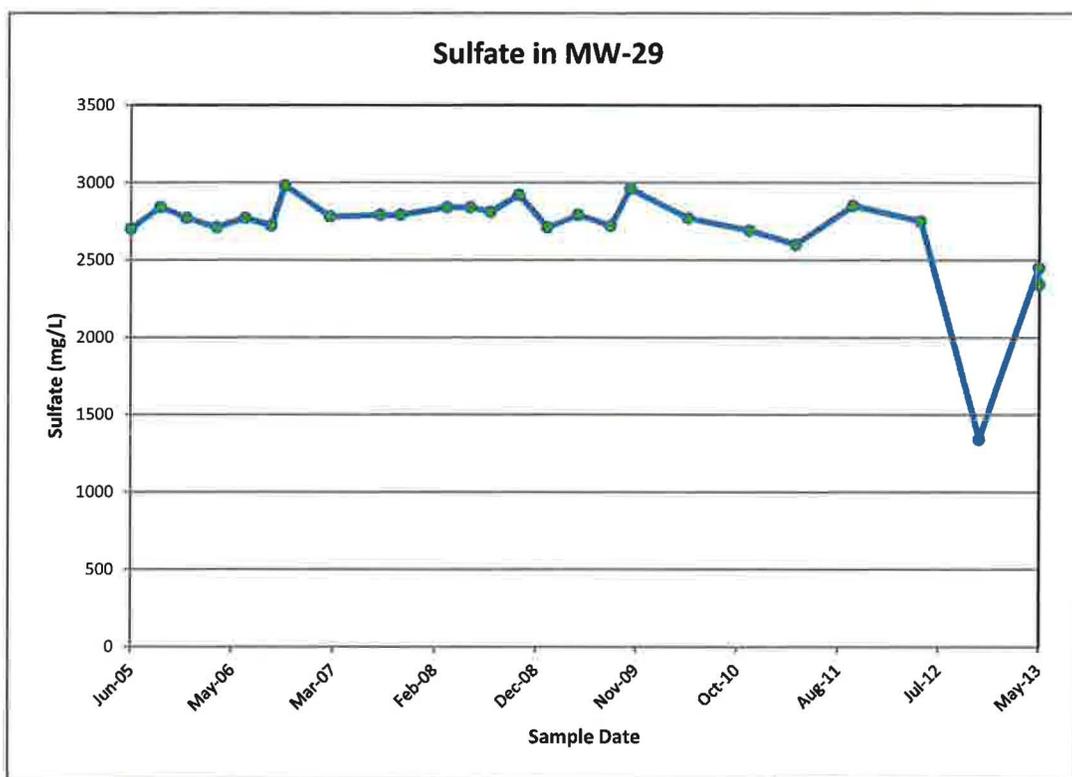
### Time concentration plots for MW-28



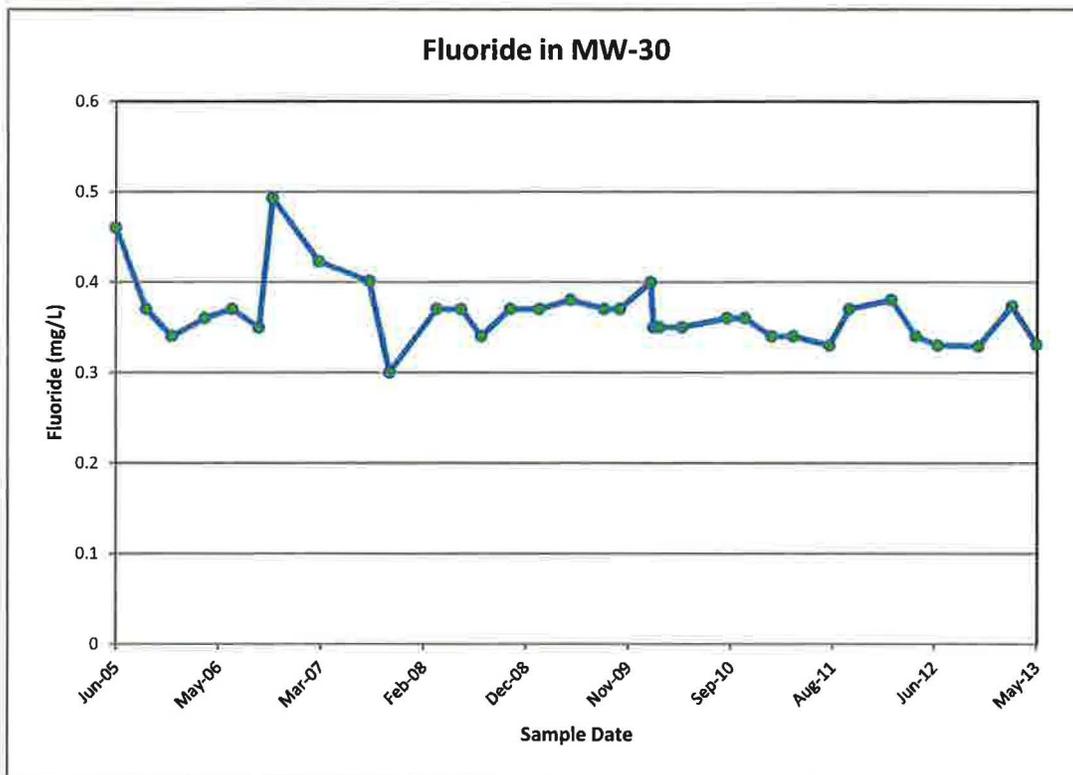
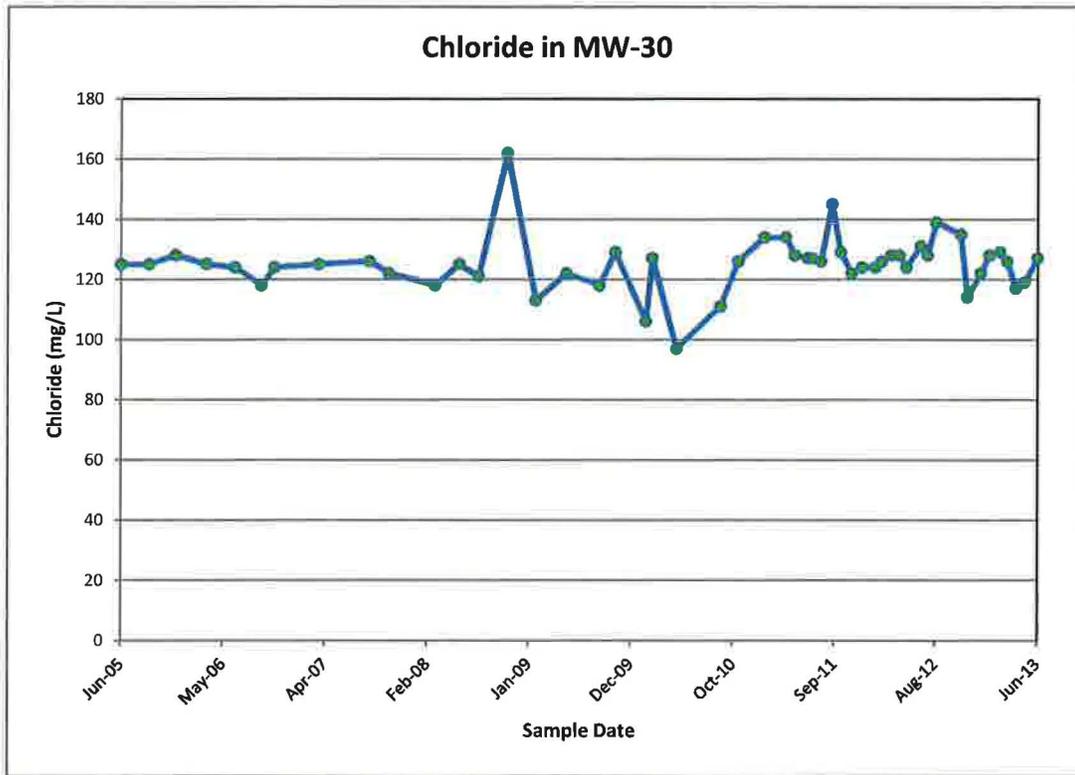
## Time concentration plots for MW-29



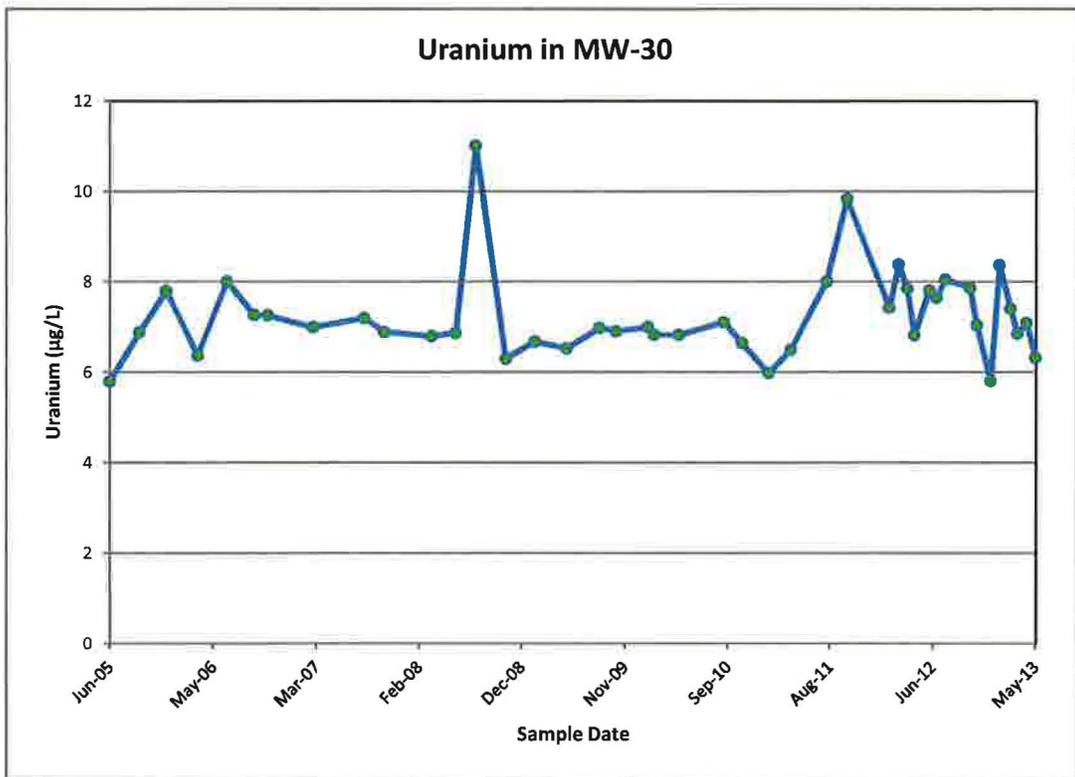
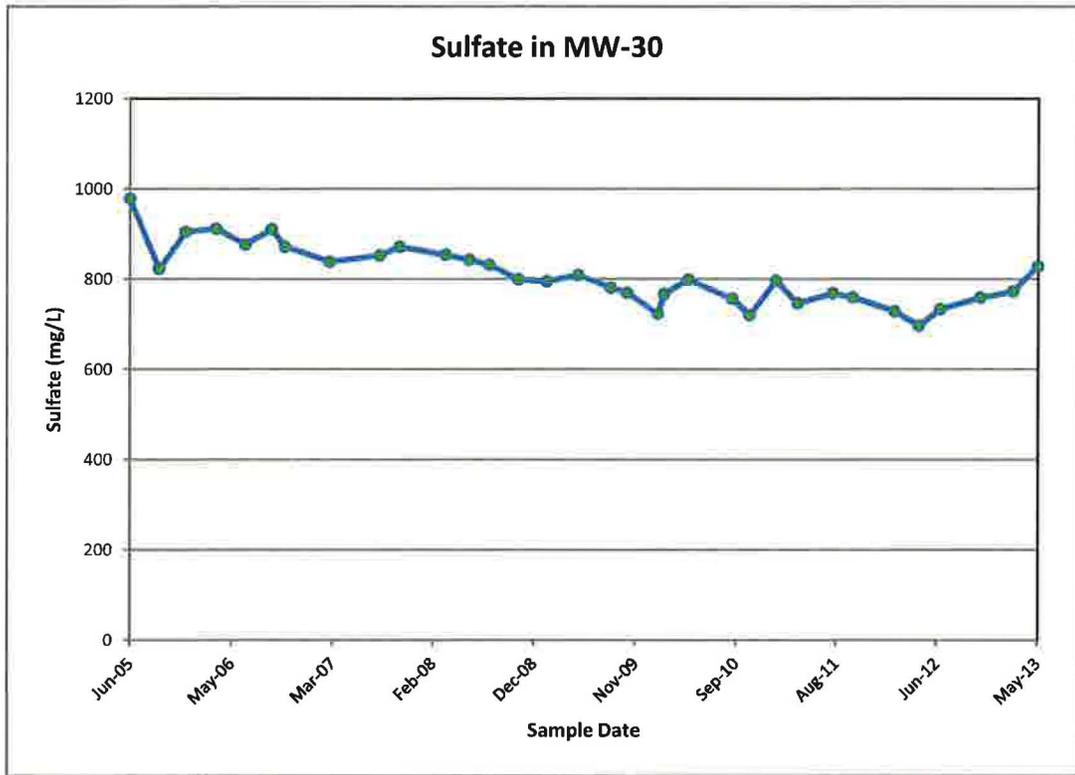
## Time concentration plots for MW-29



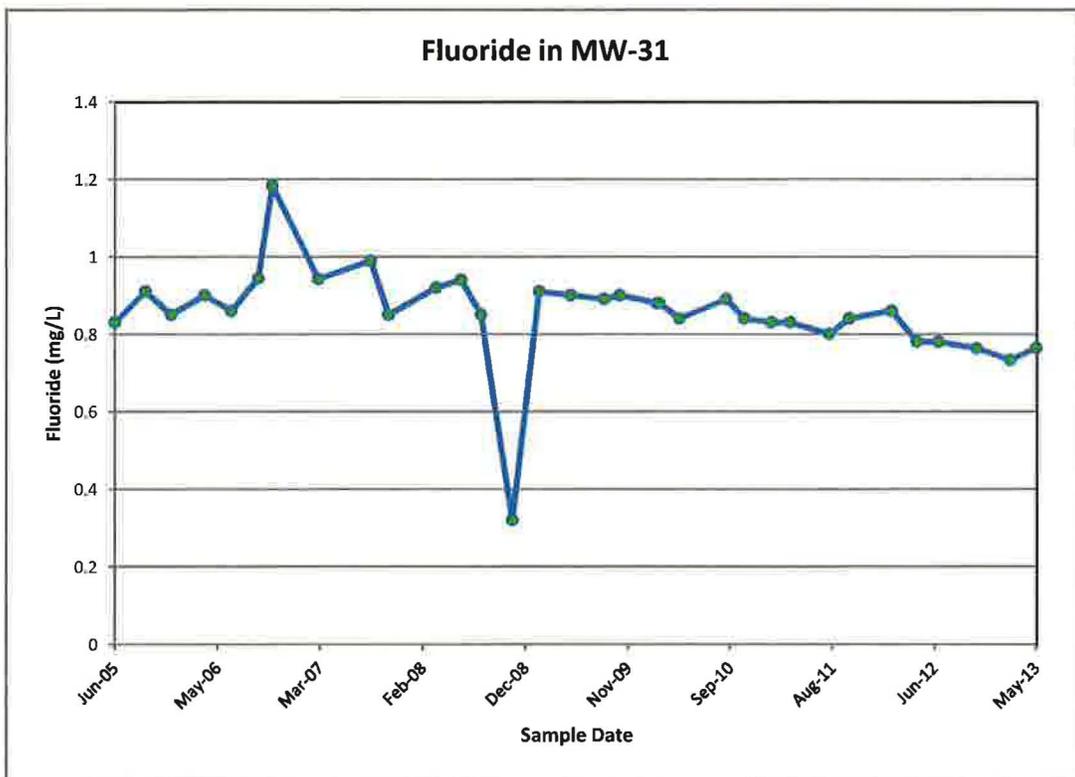
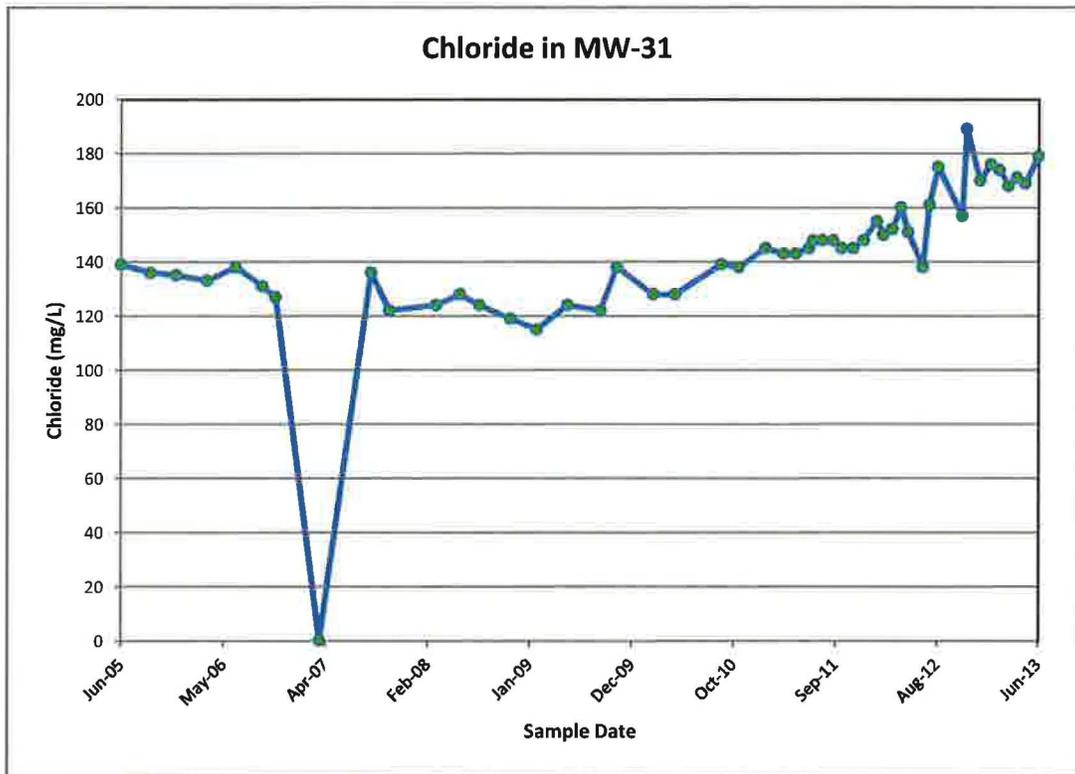
## Time concentration plots for MW-30



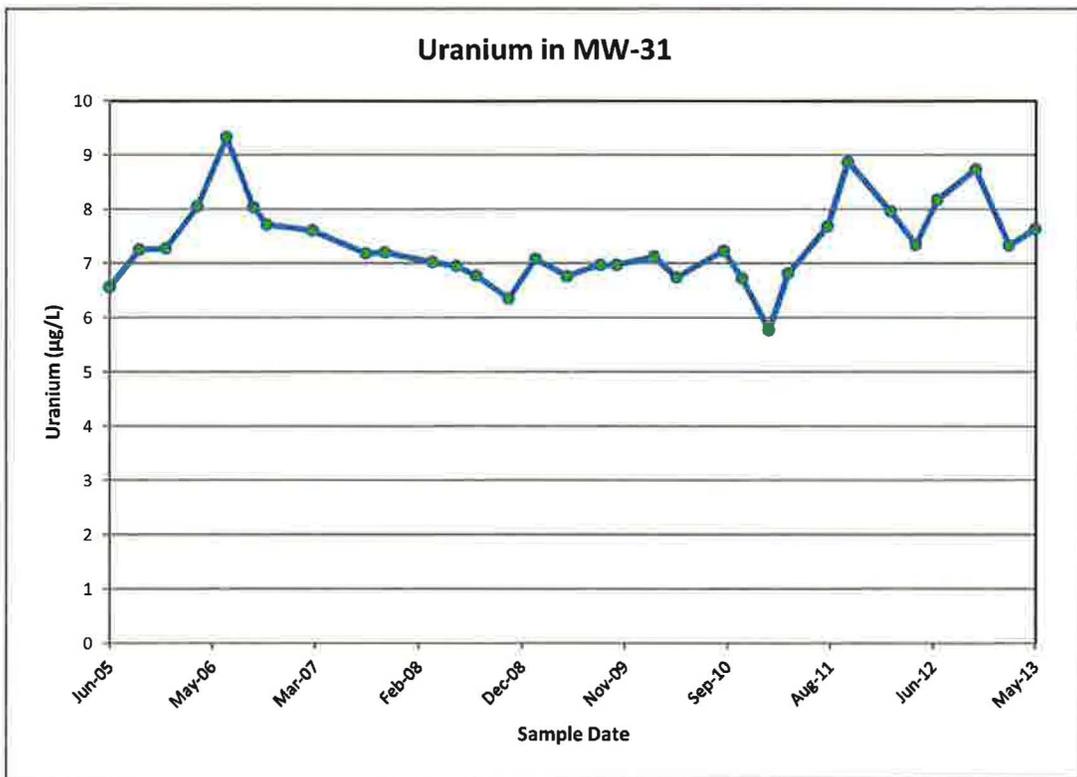
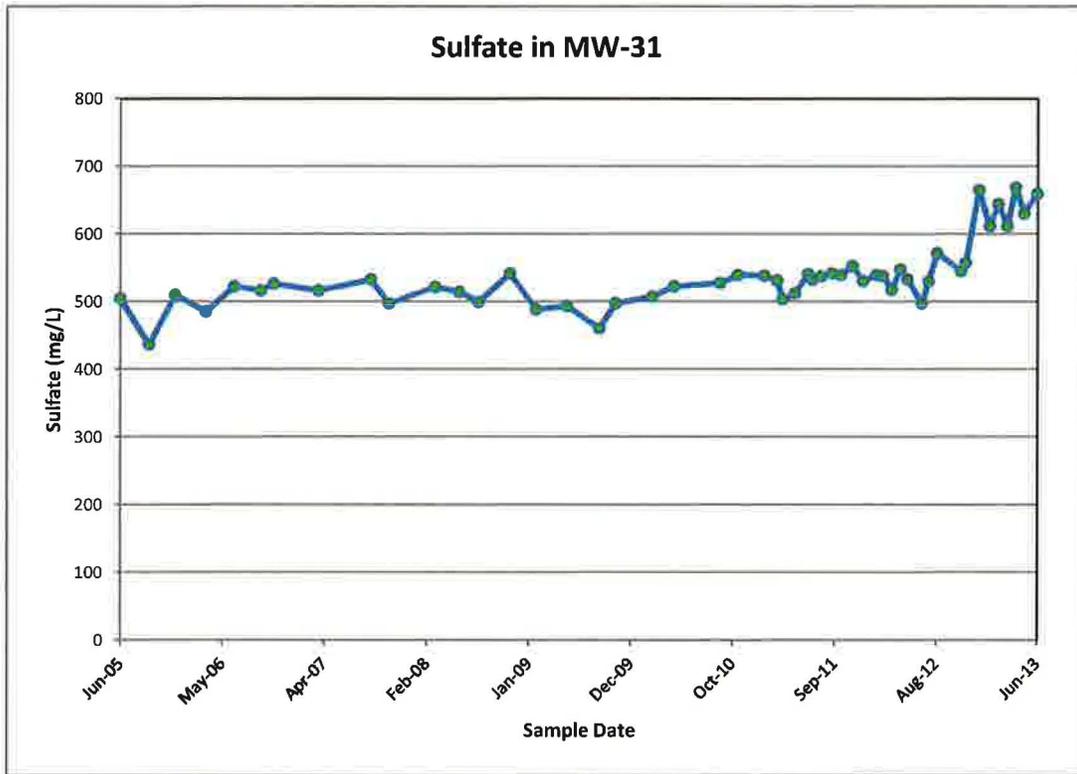
### Time concentration plots for MW-30



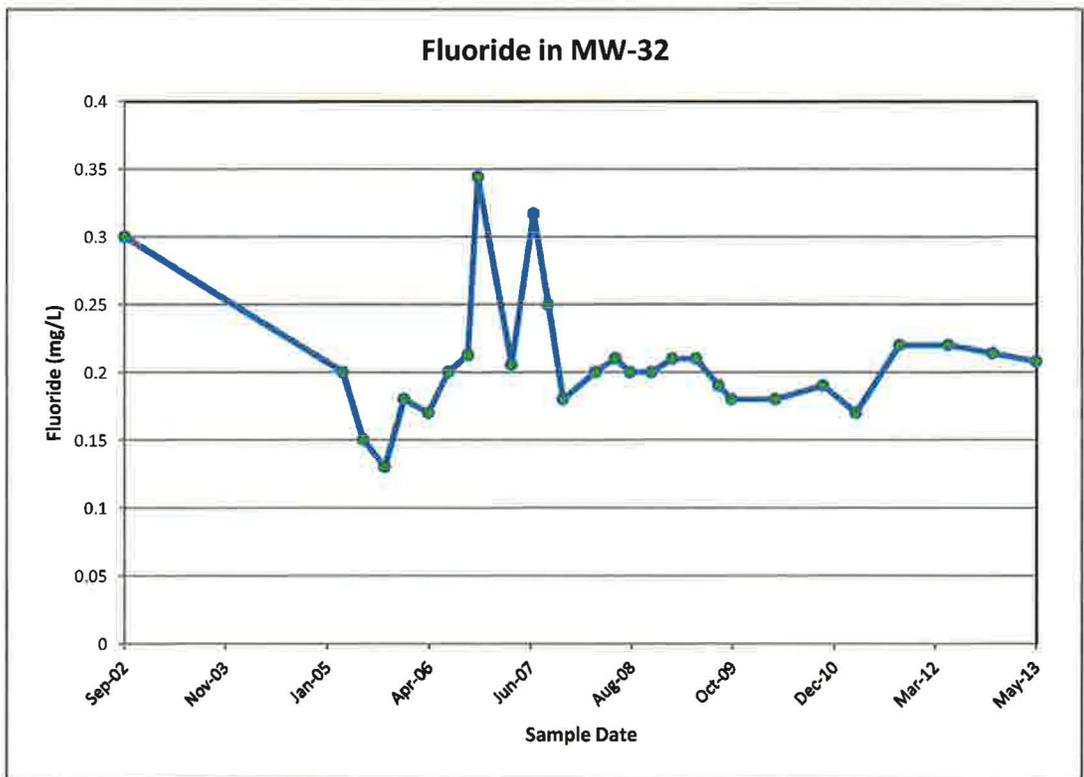
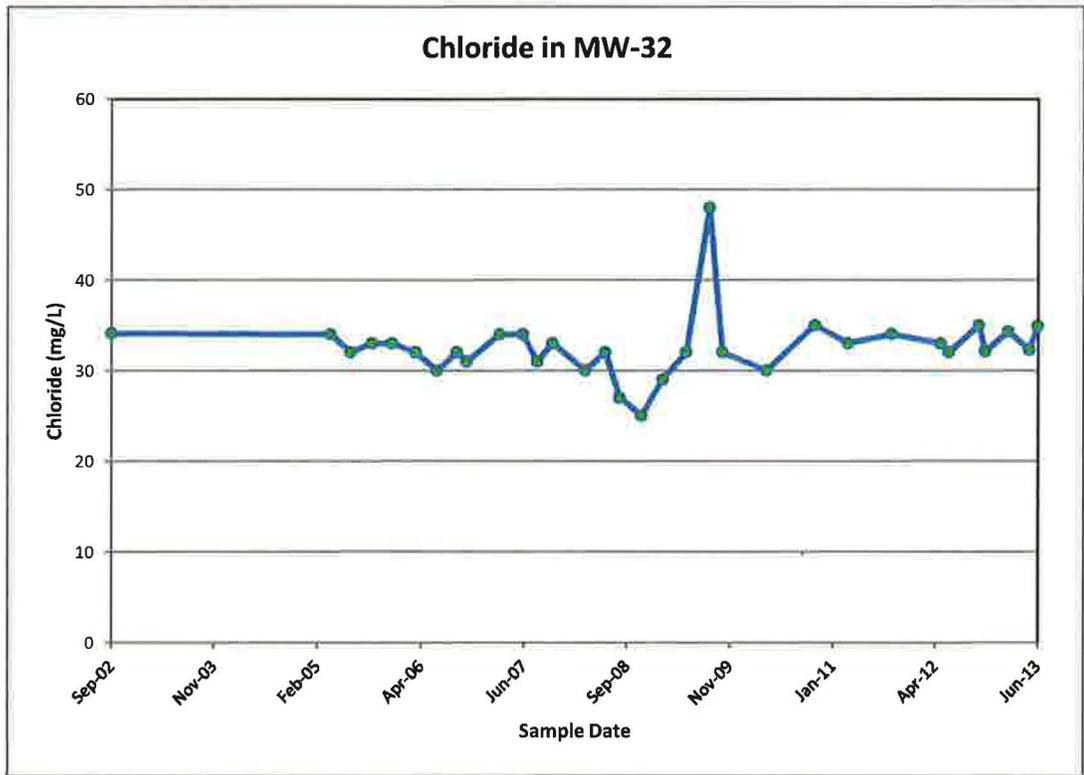
## Time concentration plots for MW-31



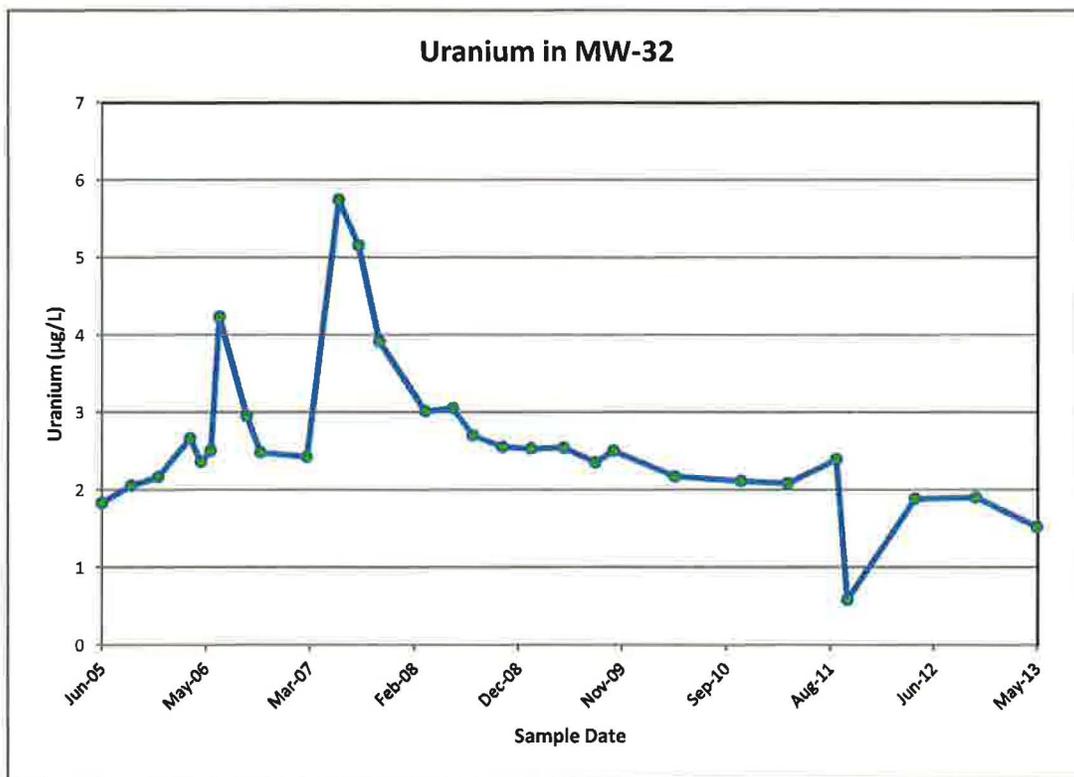
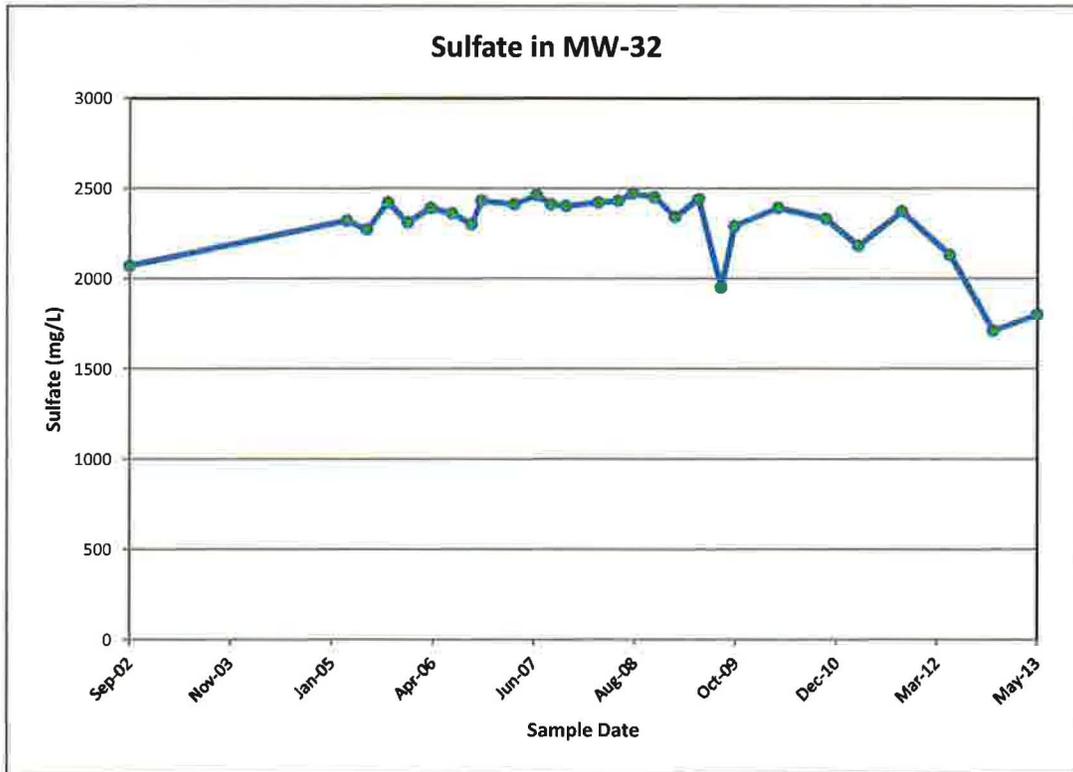
## Time concentration plots for MW-31



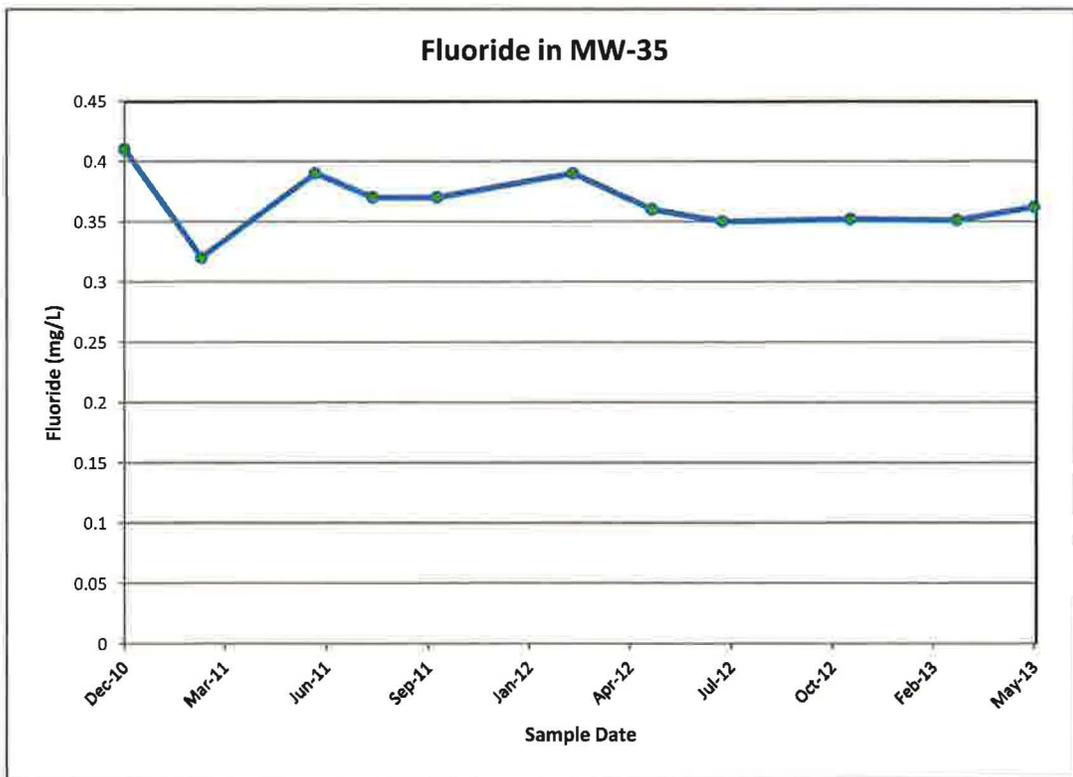
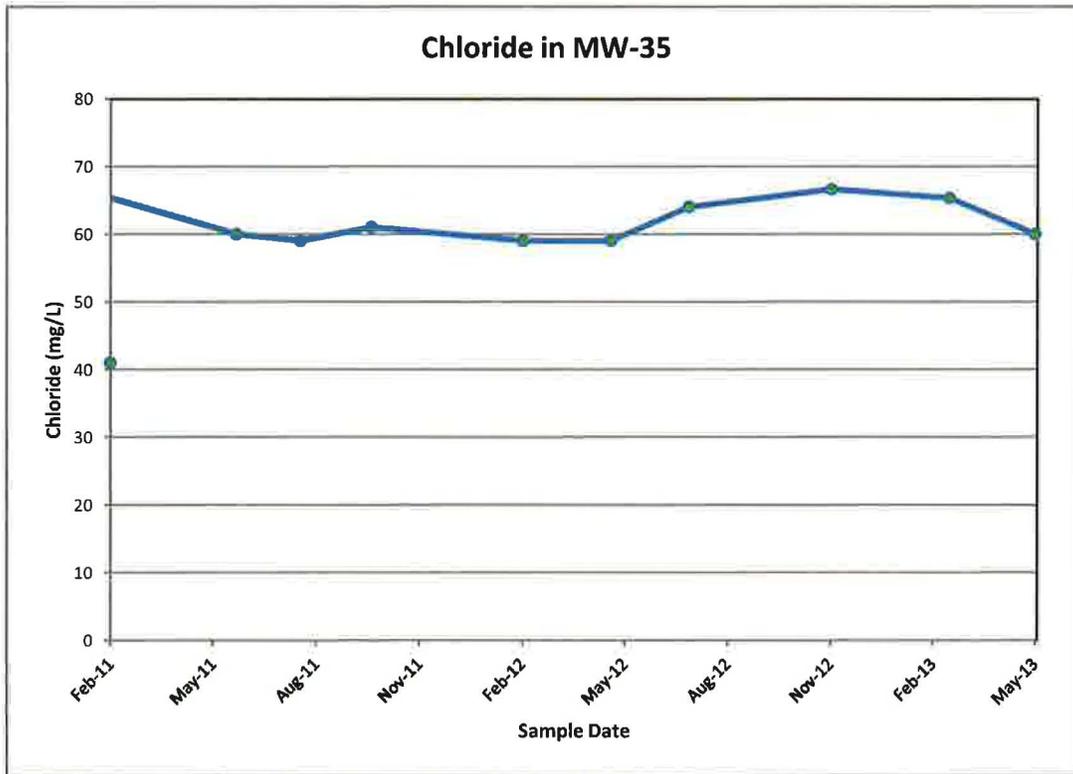
### Time concentration plots for MW-32



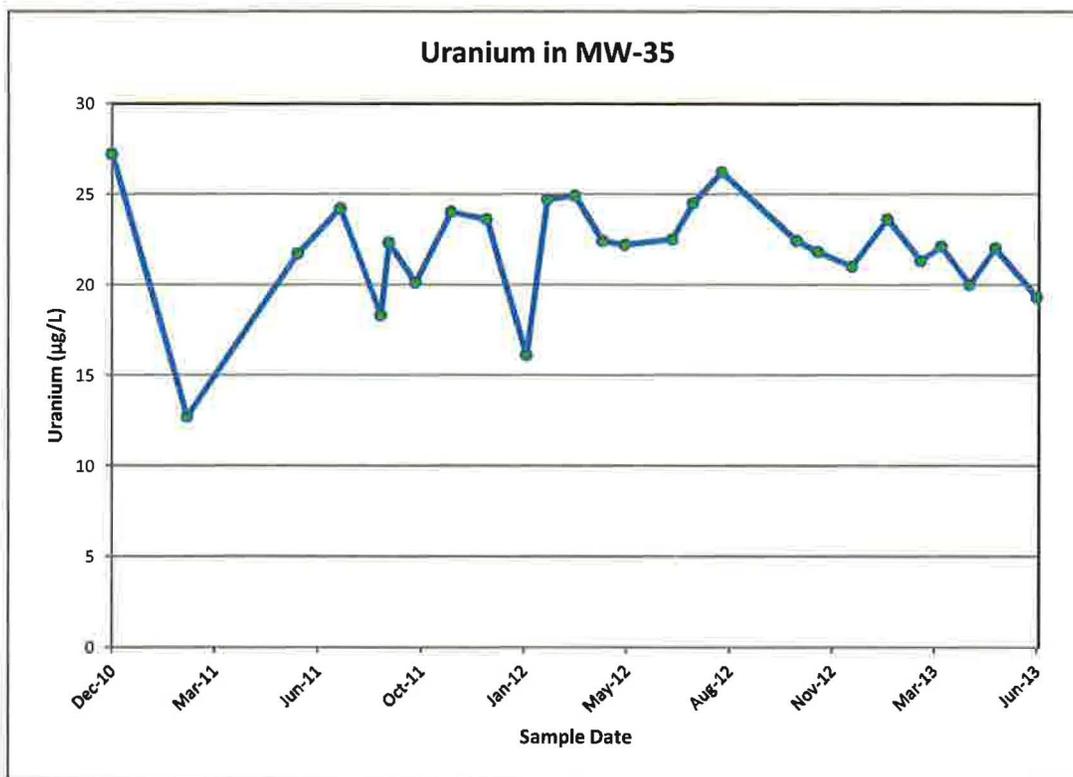
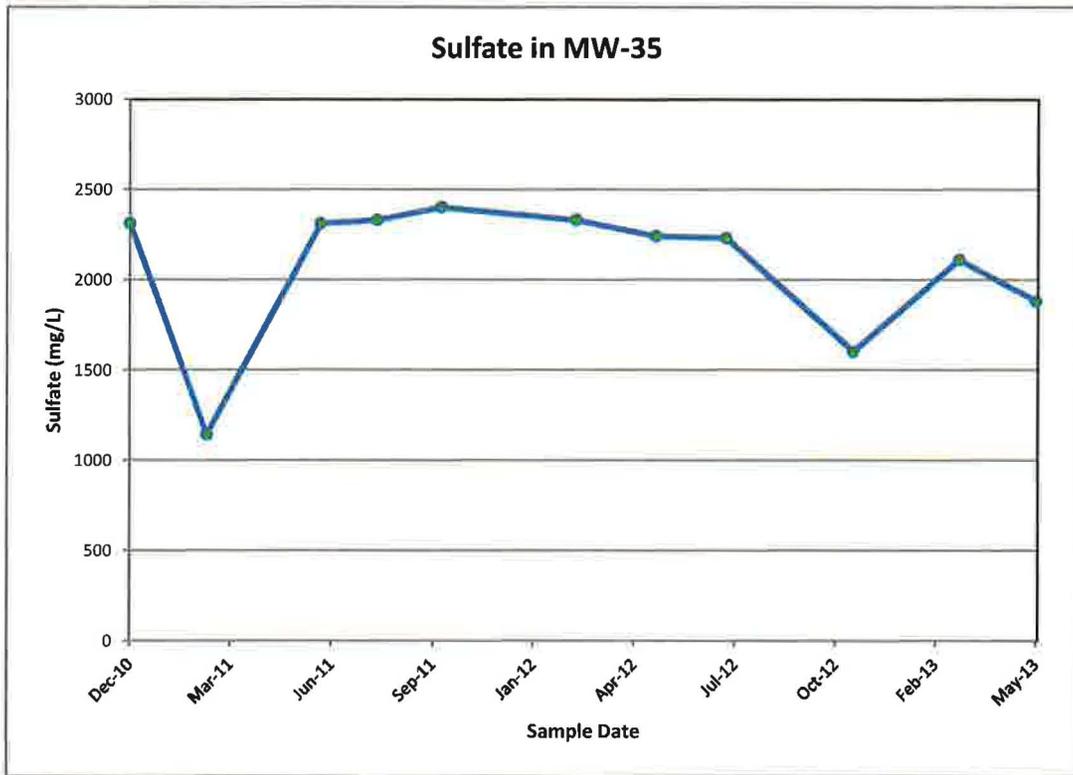
## Time concentration plots for MW-32



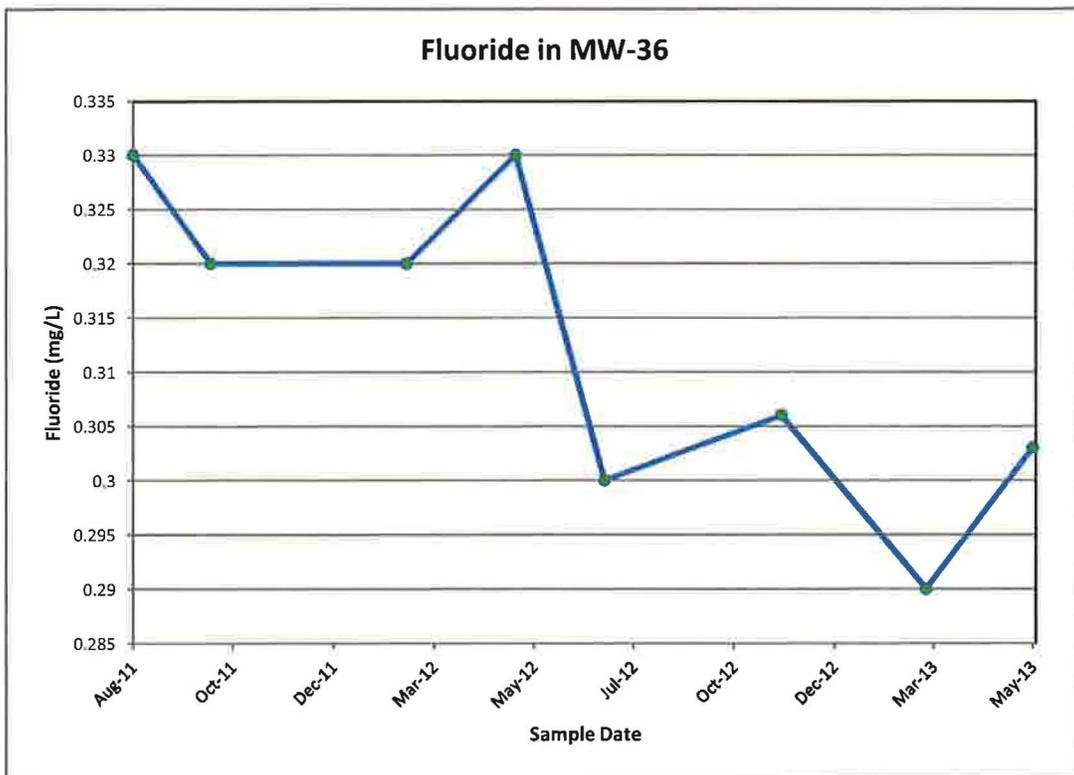
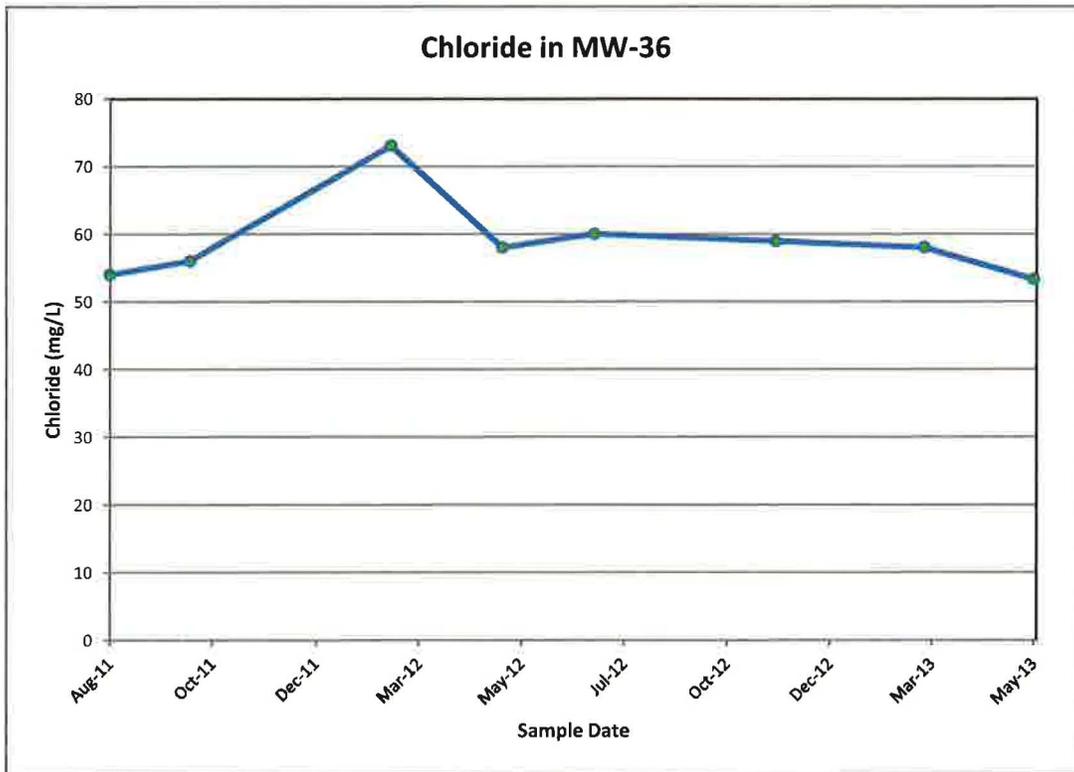
## Time concentration plots for MW-35



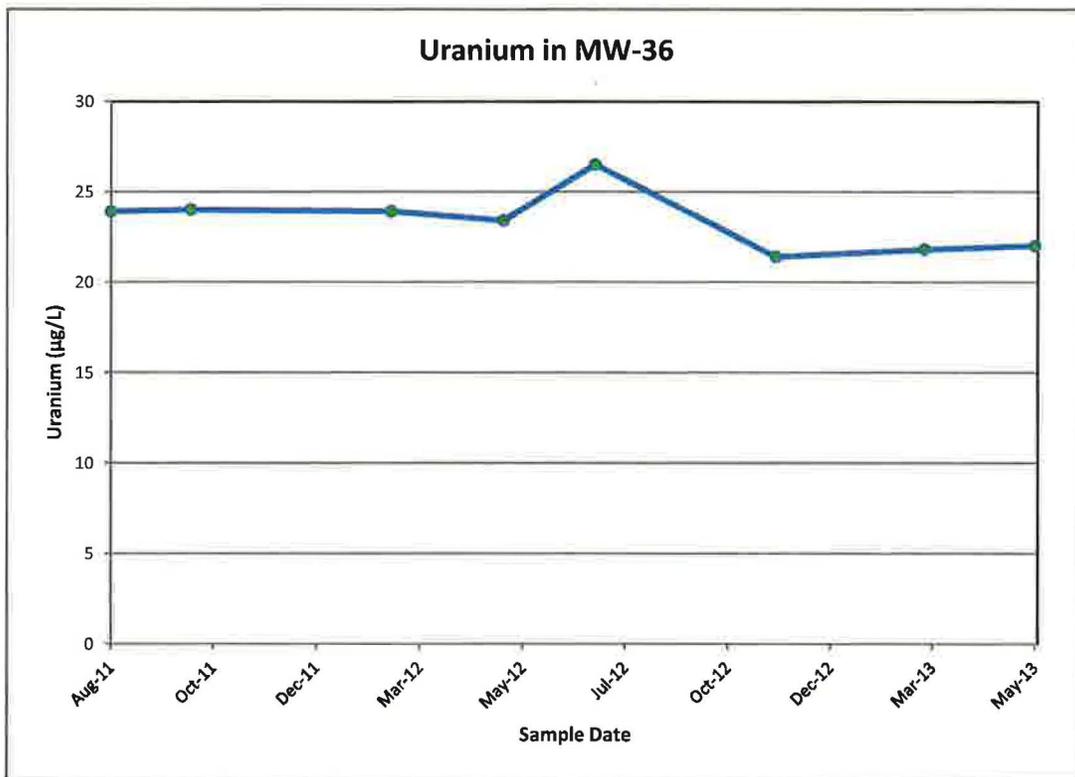
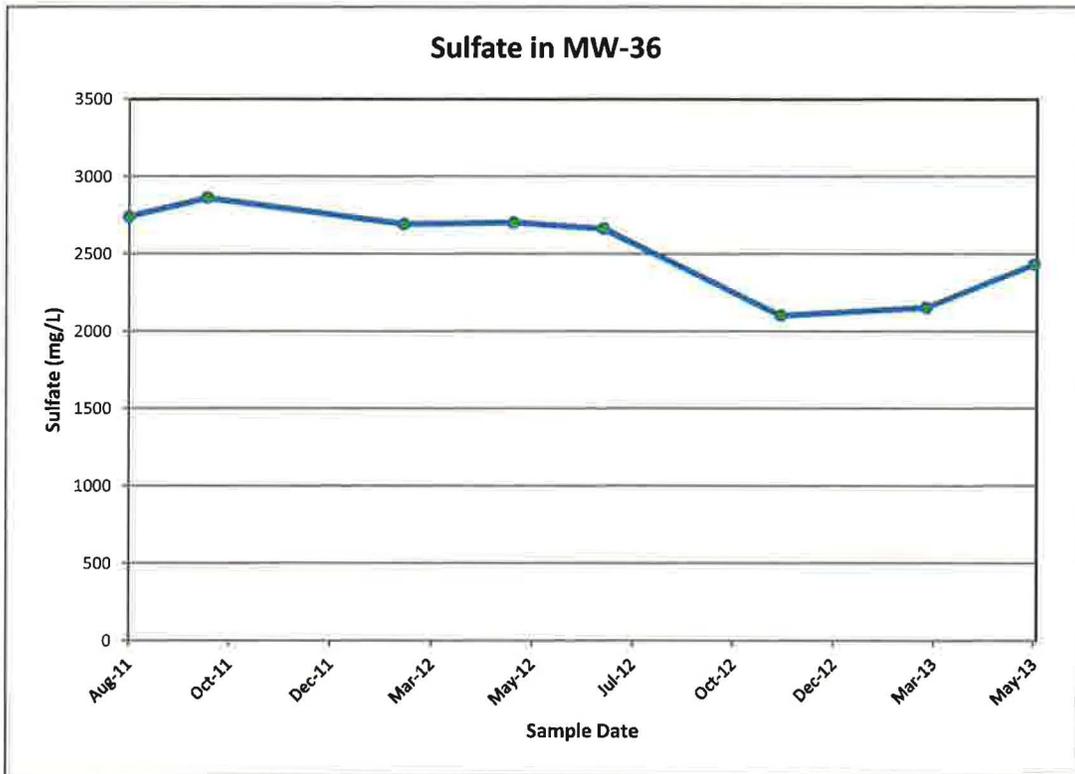
## Time concentration plots for MW-35



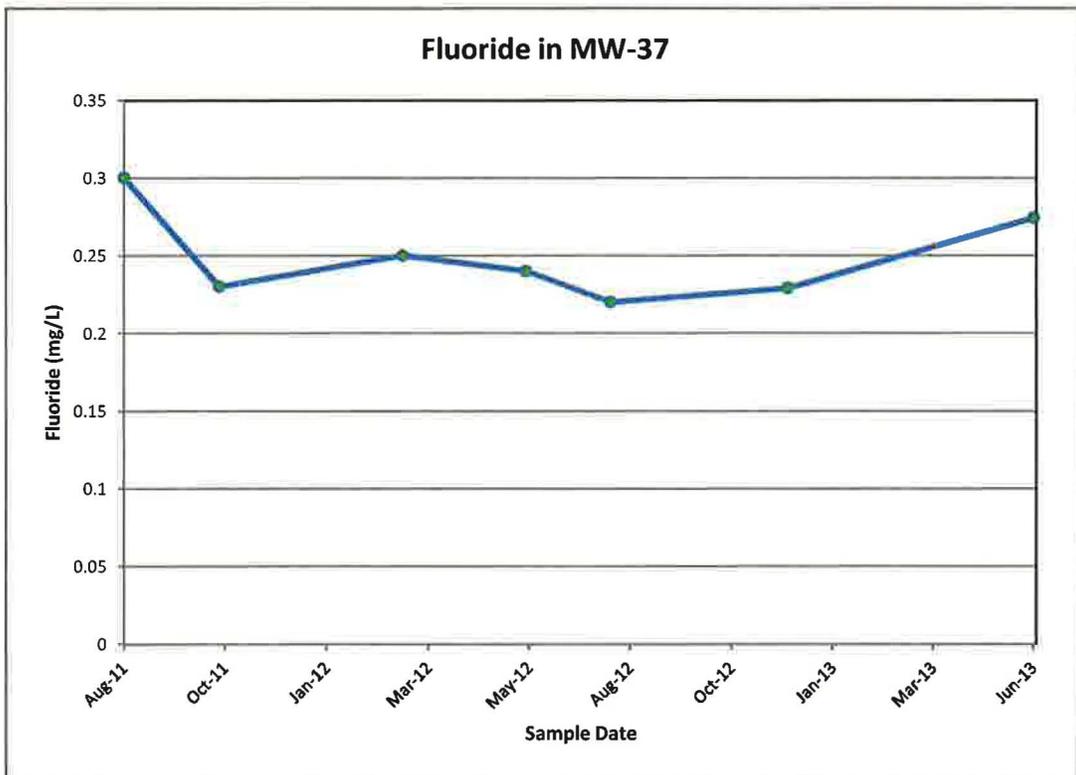
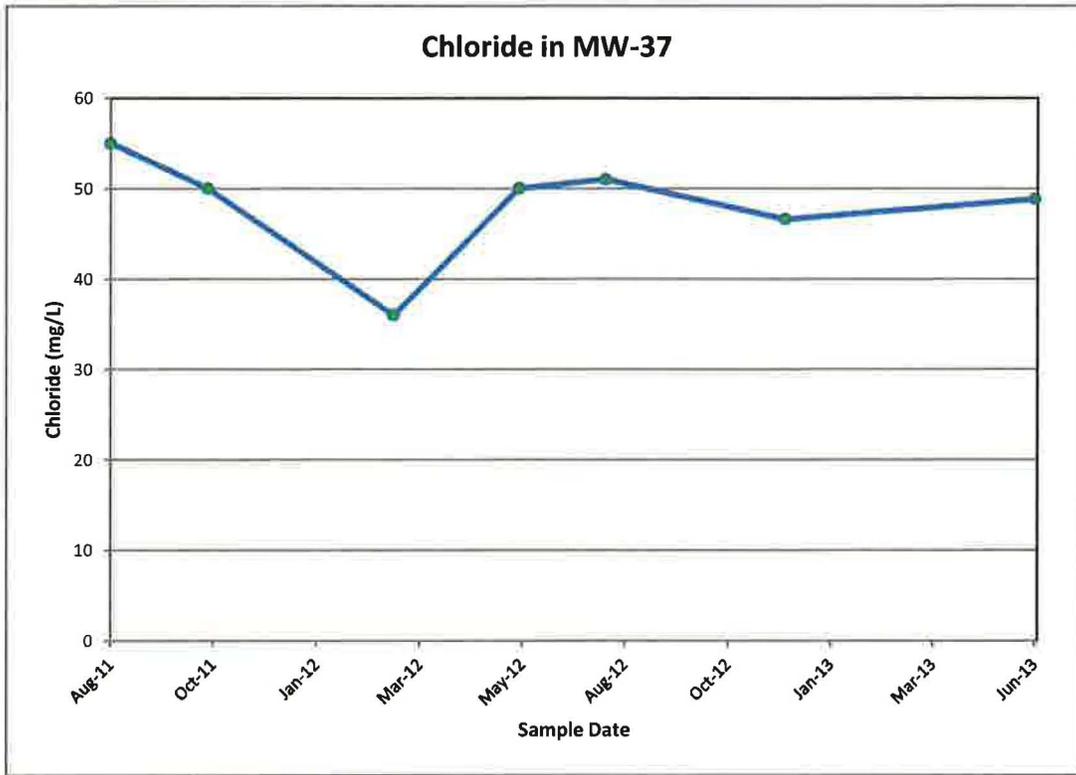
## Time concentration plots for MW-36



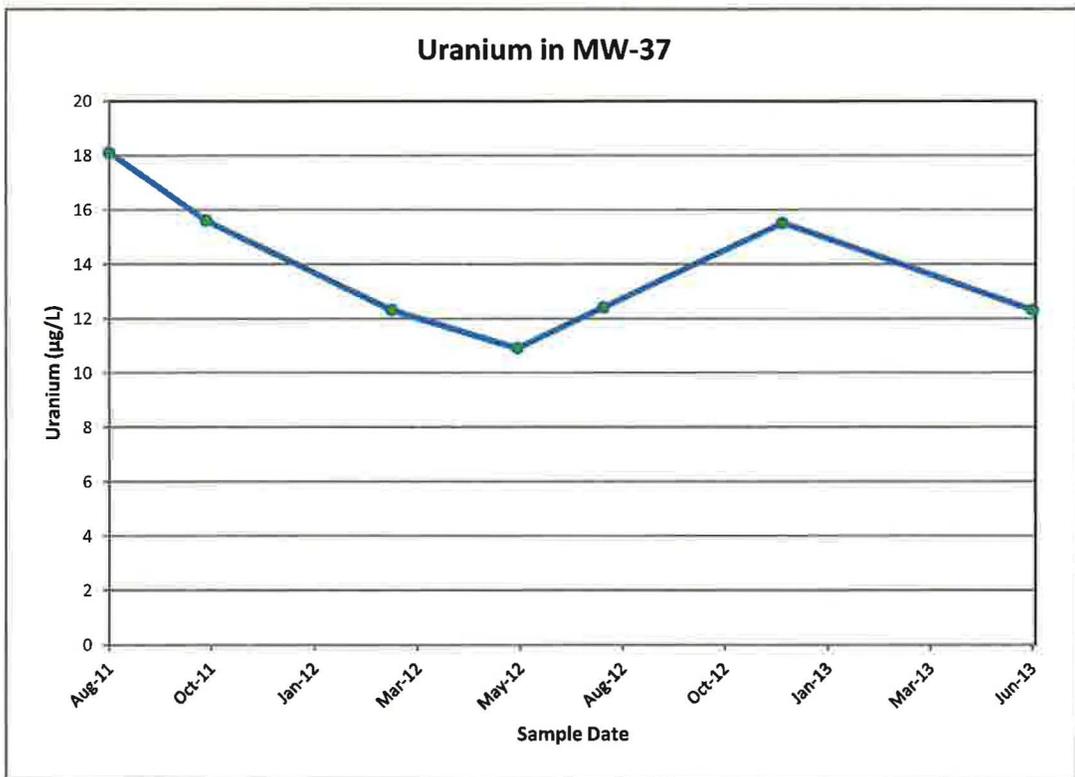
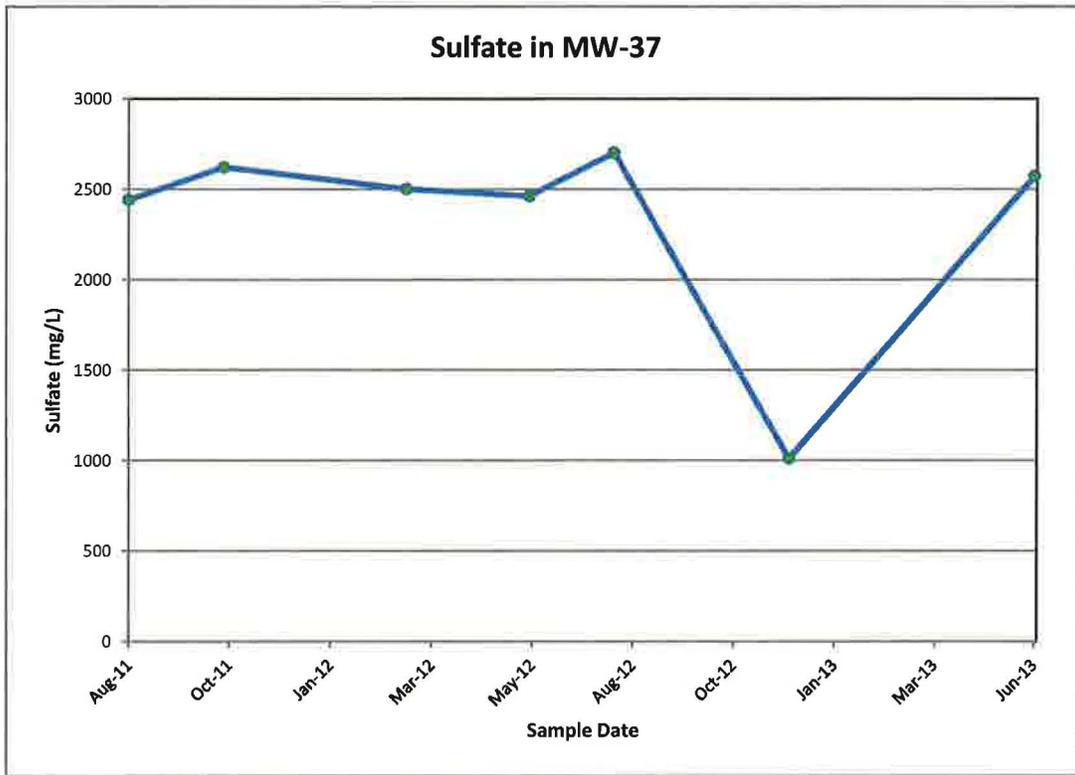
### Time concentration plots for MW-36



## Time concentration plots for MW-37



### Time concentration plots for MW-37



Tab J

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Monday, August 26, 2013 10:02 AM  
**To:** Rusty Lundberg  
**Cc:** 'Phillip Goble'; 'Thomas Rushing'; Harold Roberts; David Frydenlund; Jo Ann Tischler; Dan Hillsten; Jaime Massey; David Turk  
**Subject:** Transmittal of CSV Files White Mesa Mill 2013 Q2 Groundwater Monitoring  
**Attachments:** GW\_Q2\_2013\_EDD.csv

Dear Mr. Lundberg,

Attached to this e-mail is an electronic copy of laboratory results for groundwater monitoring conducted at the White Mesa Mill during the second quarter of 2013, 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