Energy Fuels Resources (USA) Inc.
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VIA Express Delivery

November 17, 2016

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

Re: Transmittal of Annual Seeps and Springs Monitoring Report
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill

Dear Mr. Anderson:

Enclosed are two copies of the White Mesa Uranium Mill Annual Seeps and Springs Monitoring Report for 2016 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 at 303-389-4134.

Yours very truly,

Kathy Weinel

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

CC: David C. Frydenlund
Scott A. Bakken
Logan Shumway
Harold R. Roberts
David E. Turk

White Mesa Uranium Mill

2016 Annual Seeps and Springs Sampling Report

State of Utah

Groundwater Discharge Permit No. UGW370004

Prepared by:

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

November 17, 2016

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ACRONYM LIST

AWAL	American West Analytical Laboratory
DR	Dry Ridge Piezometers
DWMRC	Utah Division of Waste Management and Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
GEL	GEL Laboratories, Inc.
GWQS	Groundwater Quality Standard
LCS	Laboratory Control Spike
Mill	White Mesa Mill
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Permit	State of Utah Groundwater Discharge Permit No. UGW370004
QA	Quality Assurance
QAP	Groundwater Monitoring Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
TDS	Total Dissolved Solids
VOCs	Volatile Organic Compounds

2016 ANNUAL SEEPS AND SPRINGS SAMPLING REPORT

1.0 INTRODUCTION

This is the 2016 Annual Seeps and Springs Sampling Report for the Energy Fuels Resources (USA) Inc. ("EFRI") White Mesa Mill (the "Mill"), as required under Part I.F.7 of the Mill's State of Utah Groundwater Discharge Permit No. UGW370004 (the "Permit") and the Mill's *Sampling and Analysis Plan for Seeps and Springs*, Revision: 2, July 8, 2016 (the "Sampling Plan").

The *Sampling Plan for Seeps and Springs* was revised in July 2016 to incorporate changes requested by the Division of Waste Management and Radiation Control ("DWMRC"). The *Sampling Plan for Seeps and Springs*, Revision: 2, July 8, 2016 was approved by DWMRC by letter dated August 8, 2016.

2.0 SAMPLING EVENTS

Seeps and springs which were identified near the Mill in the 1978 Environmental Report (Plate 2.6-10, Dames and Moore, January 30, 1978) are to be sampled annually in accordance with the Sampling Plan and Part I.E.6 of the Permit. The Sampling Plan specifies the following sample locations: Corral Canyon Seep, Corral Springs, Ruin Spring, Cottonwood Seep, Westwater Seep and Entrance Spring (also referred to as Entrance Seep).

2.1 June 2016 Sampling

In accordance with the Permit and the Sampling Plan, DWMRC was notified of the sampling. The DWMRC representative was present for this sampling event. On June 16, 2016, EFRI collected seeps and springs samples from Cottonwood Seep, Ruin Spring, Entrance Seep, and Back Spring. At the time of the June 2016 sampling, Westwater Seep was dry and a sample was not collected. The DWMRC representative collected a "split" sample on June 16, 2016 from the EFRI sampling equipment, using sample containers he provided. Corral Canyon Seep and Corral Springs were dry in 2016.

2.2 Repeat Visits to Dry Seeps and Springs.

During the June 16, 2016 sampling event, Corral Canyon Seep, Westwater Seep, and Corral Springs were dry, could not be sampled, and did not warrant development attempts with limited hand tool excavation at that time. Additional visits were made to Corral Canyon Seep and Corral Springs on September 20, 2016 and October 21, 2016 to determine if development attempts with hand tool excavation would yield enough water for sampling. The additional two visits to Corral Canyon Seep and Corral Springs did not indicate any changes; i.e., there was no indication that development attempts would be successful. A sample was collected from Westwater Seep on October 24, 2016 during a follow up visit at which time water was present. The data from the June and October sampling events are included as Attachment D in this report.

2.3 Sampling Procedures

Samples were collected and analyzed for the parameters listed in Table 2 of the Permit.

Samples were collected from the locations indicated in Table 1. Sampling procedures for each seep or spring are determined by the site location and access.

The DRC-approved sampling procedures for seeps and springs at the Mill are contained in *Sampling and Analysis Plan for Seeps and Springs*, Revision: 2, July 8, 2016. Samples collected under this plan were collected either by direct collection which involves collecting the sample directly into the sample container from the surface water feature or from spring out-flow, or by using a stainless steel ladle to collect water until a sufficient volume is contained in the ladle for transfer to the sample bottle. Filtered parameters are pumped through a 0.45 micron filter prior to delivery to the sample bottle.

Ruin Spring

In the case of Ruin Spring, sample bottles for the analytes collected during the June sampling event (except gross alpha and heavy metals) were filled directly from the spring out-flow which is a pipe. Samples for heavy metals and gross alpha were collected by means of a peristaltic pump and delivered directly to the sample containers through a 0.45 micron filter. The appropriate preservatives for the analytical technique were added to the samples.

Westwater Seep

For Westwater Seep, all of the sample containers were filled by means of a peristaltic pump and delivered directly to the sample containers. Samples for heavy metals and gross alpha were collected by means of a peristaltic pump and delivered directly to the sample containers through a 0.45 micron filter. The appropriate preservatives for the analytical technique were added to the samples.

Cottonwood Seep and Entrance Spring

Cottonwood Seep and Entrance Spring were "developed" prior to the sampling event by Field Personnel. Development was completed by removing surrounding vegetation and clearing the sampling location in the spring or seep area. For Westwater Seep, all of the sample containers were filled by means of a peristaltic pump and delivered directly to the sample containers. In the case of the samples for heavy metals and gross alpha, the samples were delivered by a peristaltic pump directly to the sample containers through a 0.45 micron filter. The samples were preserved by the addition of the appropriate preservative for the analytical technique.

The tubing on the peristaltic pump that comes into contact with the sample water was disposed of between each sampling. As a result, no equipment required decontamination, and no rinsate samples were collected.

2.4 Field Data

Attached under Tab A are copies of the field data sheets recorded in association with the June and October seeps and springs monitoring events. Photographic documentation of the sampling sites is also included in Tab A. Sampling dates are listed in Table 1 and field parameters collected during the sampling program are included in Tab B.

2.5 Field QC Samples

The field Quality Control ("QC") samples generated during this sampling event included one duplicate per sampling event and one trip blank per shipment to each laboratory which received samples for VOCs. The duplicate samples (Back Spring) were submitted blind to the analytical laboratory. As previously stated, no rinsate blanks were collected during this sampling event as only disposable equipment was used for sample collection.

3.0 SEEPS AND SPRINGS SURVEY AND CONTOUR MAP

Part I.F.7(c) of the Permit requires that a water table contour map that includes the elevations for each well at the facility and the elevations of the phreatic surfaces observed for each of the seeps and springs sampled be submitted with this annual report. Tab C includes two contour maps. The contour map labeled C-1 shows the water table without the water level data associated with the dry ridge ("DR") investigation piezometers. The contour map labeled C-2 shows the water table with the water level data associated with the DR investigation piezometers. It is important to note that Cottonwood Seep is not included in any of the perched water level contouring, because there is no evidence to establish a hydraulic connection between Cottonwood Seep and the perched water system. Cottonwood Seep is located near the Brushy Basin Member/Westwater Canyon Member contact, approximately 230 feet below the base of the perched water system defined by the Burro Canyon Formation/Brushy Basin Member contact. The stratigraphic position of Cottonwood Seep indicates that its elevation is not representative of the perched potentiometric surface. Exclusion of the Cottonwood Seep from water level contouring is consistent with previous submissions. The contour map includes the corrected survey data from December 2009 as discussed below.

Part I.F.7 (g) of the Permit requires that survey data for the seeps and springs be collected prior to the collection of samples. DRC previously clarified that the requirement to submit survey data applies only to the first sampling event and not on an annual basis. The December 2009 and July 2010 seeps and springs survey data shown in Tab C will be used for reporting where seeps and springs locations and elevations are relevant.

A full discussion of the survey data and the hydrogeology of seeps and springs at the margins of White Mesa in the vicinity of the Mill and the relationship of these seeps and springs to the hydrogeology of the site, in particular to the occurrence of a relatively shallow perched groundwater zone beneath the site, is contained in *Hydrogeology of the Perched Groundwater Zone and Associated Seeps and Springs Near the White Mesa Uranium Mill Site,* dated November 12, 2010, prepared by Hydro Geo Chem, Inc. and submitted to the Director on November 15, 2010. Additional information is also contained in the *Second Revision*

Hydrogeology of the Perched Groundwater Zone in the Area Southwest of the Tailings Cells White Mesa Mill Site, dated November 7, 2012, prepared by Hydro Geo Chem, Inc. and submitted to the Director on November 7, 2012.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL

4.1 Laboratory Results

Analytical results are provided by the Mill's two contract analytical laboratories GEL Laboratories, Inc., ("GEL") and American West Analytical Laboratory ("AWAL").

The laboratories utilized during this investigation were certified under the Environmental Lab Certification Program administered by UDEQ Bureau of Lab Improvement for the analyses they completed.

The analytical data as well as the laboratory Quality Assurance ("QA")/QC summaries are included under Tab D.

4.2 DATA EVALUATION

The Permit requires that the annual seeps and springs sampling program be conducted in compliance with the requirements specified in the Mill's approved White Mesa Uranium Mill Groundwater Monitoring Quality Assurance Plan ("QAP"), Revision 7.2, dated June 7, 2012, the approved Sampling Plan and the Permit. To meet this requirement, the data validation completed for the seeps and springs sampling program verified that the program met the requirements outlined in the QAP, the Permit and the approved Sampling Plan. The Mill QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Permit and 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 4.5.1. Discussion of adherence to the Sampling Plan is provided in Section 4.3. Analytical completeness review results are provided in Section 4.4. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 4.5.1 through 4.5.9 below.

The analytical laboratories have provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference certification and reporting protocol. The analytical laboratory QA/QC Summary Reports, including copies of the Mill's Chain of Custody and Analytical Request Record forms for each set of analytical results, follow the analytical results under Tab D. Results of the review of the laboratory QA/QC information are provided under Tab E and discussed in Section 4.5 below.

4.3 Adherence to Sampling Plan and Permit Requirements

On a review of adherence by Mill personnel to the Permit, the QA Manager observed that QA/QC requirements established in the Permit and the QAP were met and that the requirements were implemented as required except, as noted below.

The Permit only requires the measurement of the field parameters pH, conductivity and temperature. Field parameter measurements collected during this sampling event included pH, conductivity, temperature, redox potential, and turbidity.

4.4 Analyte Completeness Review

The analyses required by the Permit Table 2 were completed.

4.5 Data Validation

The QAP and the Permit identify the data validation steps and data quality control checks required for the seeps and springs 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 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 E.

4.5.1 Field Data QA/QC Evaluation

The QA Manager performs a review of field recorded parameters to assess their adherence with QAP and Permit requirements. The assessment involved review of the Field Data sheets. Review of the Field Data Sheets noted that the requirements for field data collection were met.

4.5.2 Holding Time Evaluation

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

4.5.3 Laboratory Receipt Temperature Check

Chain of Custody sheets were reviewed to confirm compliance with the sample receipt requirements specified in the QAP. Sample receipt temperature checks are provided under Tab E. The samples were received within the QAP required temperature limit.

4.5.4 Analytical Method Check

The analytical methods reported by both laboratories were checked against the required methods specified in Table 1 of the QAP. Analytical method check results are provided in Tab E.

4.5.5 Reporting Limit Evaluation

Reporting limits utilized by the laboratory were required to be equal to or lower than the GWQSs set out in Table 2 of the Permit. For Total Dissolved Solids ("TDS"), sulfate and chloride, for which Ground Water Quality Standards are not set out in Table 2 of the Permit, reporting limits specified in Part 1.E.6.e).(1) were used. Those reporting limits are 10 mg/L for TDS, and 1 mg/L for Sulfate and Chloride. The analytical method reporting limits reported by both laboratories were checked against the reporting limits specified in the Permit. Reporting limit evaluations are provided in Tab E. All analytes were measured and reported to the required reporting limits except the sample results that had the reporting limit raised due to sample dilution necessary to accommodate the analyte concentrations in the samples. In all cases the reported value for the analyte was higher than the increased detection limit.

4.5.6 Trip Blank Evaluation

The trip blank results were reviewed to identify any blank contamination. Trip blank evaluation is provided in Tab E. The trip blank results associated with the samples were less than reporting limit for the VOCs.

4.5.7 QA/QC Evaluation for Sample Duplicates

Section 9.1.4 a) of the QAP states that the Relative Percent Difference ("RPD") 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 (described as activities in the QAP) are less than 5 times the required detection limit. This standard is based on the United Stated Environmental Protection Agency 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 duplicate pairs for the 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%. RPDs are also only calculated when both the sample and the duplicate report a detection for any given analyte. If only one of the pair reports a detection, the RPD cannot be calculated. The additional duplicate information is provided for information purposes.

The duplicate results were within a 20% RPD in the seeps and springs samples.

4.5.8 Radiologics Counting Error

Section 9.14 of the QAP requires that all gross alpha analysis reported with an activity equal to or greater than the Groundwater Compliance Limits set out in the Permit (for the seeps and

springs samples the Groundwater Quality Standards ["GWQS"] will be used), 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 GWQS.

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.

All radiological results were reported were within acceptance limits in 2016. Results of routine radiologic sample QC are provided under Tab E.

4.5.9 Laboratory Matrix QC Evaluation

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

A number of the seeps and springs samples had the reporting limit raised due to matrix interference and/or sample dilution. In all cases where the detection limit was increased, the concentration 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.
- For method E900.1, used to determine gross alpha, a sample duplicate was used instead of a MSD.

The 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 QAP requirement 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 each laboratory's 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/MSD recoveries and the associated RPDs for the seeps and springs samples were within acceptable laboratory limits except as noted in Tab E. The MS/MSD recoveries that were outside the laboratory established acceptance limits do not affect the quality or usability of the data, because the recoveries and RPDs above or below the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. Matrix interferences are applicable to the individual sample results only. The requirement in the QAPs 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 analytical data associated with the routine quarterly sampling met the requirement specified in the QAP. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for the seeps and springs samples were within acceptable laboratory limits for all surrogate compounds.

The QAP Section 8.1.2 requires that each analytical batch shall be accompanied by a reagent blank. Contamination detected in analysis of reagent blanks/method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP specified process for evaluation of reagent/method blanks states that nonconformance will exist when blanks are within an order of magnitude of the sample results. No analytes were reported above the reporting limit in the reagent/method blanks from either laboratory.

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

5.0 EVALUATION OF ANALYTICAL DATA

As previously stated, the samples were analyzed for the groundwater compliance parameters found on Table 2 of the Permit. In addition to these laboratory parameters, the pH, temperature, conductivity, (and although not required, redox and turbidity) were measured and recorded in the field.

5.1 Evaluation of Analytical Results

The results of the June and October sampling event show no evidence of Mill influence in the water produced by the seeps and springs sampled. The lack of Mill influence on seeps and springs is indicated by the fact that the parameters detected are within the ranges of concentrations for the on-site monitoring wells and for available historic data for the seeps and springs themselves. For those detected analytes, concentrations are shown in Tables 2A, 2B, 2C, and 2D. The data are compared to available historic data for each seep and spring as well as to on-site monitoring well data. Specific discussions about each seep or spring are included below.

5.1.1 Ruin Spring

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with only molybdenum, selenium and uranium having positive detections. A comparison of the 2009 through 2015 data to the 2016 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The reported values for fluoride, nitrate and potassium, increased from the 2015 sample results, but they are below the upper range of historic background values for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Ruin Spring are typical for a surface water sample with no indication of Mill influence.

5.1.2 Cottonwood Spring

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with only uranium having a positive detection. A comparison of the 2009 through 2015 data to the 2016 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The reported values for chloride, fluoride, magnesium, potassium, sulfate, and TDS increased from the 2015 sample results, but they are below the upper range of historic background values for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Cottonwood Spring are typical for a surface water sample with no indication of Mill influence.

5.1.3 Westwater Seep

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with only iron, manganese, and uranium having positive detections. A comparison of the previous data to the 2016 data shows that the concentrations of detected analytes remained approximately the same except for bicarbonate, calcium, chloride, fluoride, magnesium, potassium, sodium, sulfate and increased from the 2015 samples results, but they are below the upper range of historic background values for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Westwater Seep are typical for a surface water sample with no indication of Mill influence.

5.1.4 Entrance Spring

No VOCs were detected. Gross Alpha, metals and major ions were the only analytes detected. The metals detections were minimal with only iron, manganese, and uranium having positive detections. A comparison of the 2009 through 2015 data to the 2016 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The reported values for bicarbonate, fluoride, magnesium, ammonia, nitrate, sulfate and TDS increased from the 2015 sample results. The detected concentrations are below the upper range of historic background values for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Entrance Spring are typical for a surface water sample with no indication of Mill influence.

6.0 CORRECTIVE ACTION REPORT

No corrective action reports are required for the 2016 annual sampling event.

6.1 Assessment of Corrective Actions from Previous Period

No corrective action reports were required for the 2015 annual sampling event.

7.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Director electronic copies of the laboratory results as part of the annual seeps and springs monitoring in Comma Separated Values, from the laboratory. A copy of the transmittal e-mail is included under Tab F.

8.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on November 17, 2016.

Energy Fuels Resources (USA) Inc.

By:

Scott A. Bakken
Senior Director, Regulatory Affairs

Certification

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

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

Tables

Table 1: Summary of Seeps and Springs Sampling

Location	Sample Date	Work Order No./Lab Set ID	Date of Lab Report
Cottonwood Spring	6/16/2016	AWAL = 1606395 GEL = 399853	AWAL = 7/8/2016 GEL = 7/20/2016
Entrance Seep	6/16/2016	AWAL = 1606395 GEL = 399853	AWAL = 7/8/2016 GEL = 7/20/2016
Back Spring (Duplicate of Cottonwood Spring)	6/16/2016	AWAL = 1606395 GEL = 399853	AWAL = 7/8/2016 GEL = 7/20/2016
Ruin Spring	6/16/2016	AWAL = 1606395 GEL = 399853	AWAL = 7/8/2016 GEL = 7/20/2016
Corral Spring	Not Sampled - Dry	Not Sampled - Dry	Not Sampled - Dry
Corral Canyon Seep	Not Sampled - Dry	Not Sampled - Dry	Not Sampled - Dry
Westwater Seep	10/24/2016	AWAL = 1610506 GEL = 409071	AWAL = 11/9/16 GEL = 11/15/16

Table 2A Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Ruin Spring											
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells [1] ***	**Avg 2003-2004[2]**
Major Ions (mg/l)											
Carbonate	<1	<1	<1	1	<1	<1	<1	<1	<1	--	--
Bicarbonate	233	254	241	239	237	208	204	200	193	--	--
Calcium	151	136	145	148	147	149	150	162	138	--	--
Chloride	28	23	25	44	28	26.3	27.1	27.4	24.4	ND - 213	27
Fluoride	0.5	0.53	0.45	0.5	0.52	0.538	<1	0.445	0.541	ND - 1.3	0.6
Magnesium	32.3	29.7	30.6	31.1	31.9	32.1	35.4	31.8	31.1	--	--
Nitrogen-Ammonia	0.09	<0.05	ND	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	--
Nitrogen-Nitrate	1.4	1.7	1.7	1.6	1.6	1.56	1.54	1.31	1.64	--	--
Potassium	3.3	3.07	3.2	3.3	3.5	3.46	3.24	3.14	3.18	--	--
Sodium	104	93.4	110	111	115	118	119	126	105	--	--
Sulfate	528	447	486	484	464	553	553	528	490	ND - 3455	521
TDS	1010	903	942	905	1000	952	984	1000	916	1019 - 5548	1053
Metals (ug/l)											
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	--
Beryllium	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78	0.01
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Iron	<30	<30	<30	<30	<30	<30	<30	<30	<30	ND - 7942	25
Lead	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Manganese	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND - 34,550	5
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Molybdenum	17	17	16	17	16	16.1	16.0	18.3	17.8	--	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61	0.05
Selenium	12.2	10	11.8	10.2	10.8	10.2	12.0	10	10	ND - 106.5	12.1
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	--	--
Uranium	9.11	8.47	9.35	8.63	8.68	9.12	9.61	9.03	8.38	ND - 59.8	10
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	--	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Radiologics (pCi/l)											
Gross Alpha	<0.2	<0.2	<-0.3	<-0.05	<-0.09	<1.0	<1	<1.0	<1.0	ND - 36	0.28

Ruin Spring											
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells [1] ***	**Avg 2003-2004[2]**
VOCS (ug/L)											
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--

[1] From Figure 3, Table 10 and Appendix B of the *Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah*, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

[2] From Figure 9 of the *Revised Addendum, Evaluation of Available Pre-Operational and Regional Background Data, Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan Couinty, Utah*, November 16, 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)[2]

Table2B Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Cottonwood Spring											
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1]***	**Avg 1977 1982 [1]**
Major Ions (mg/l)											
Carbonate	<1	<1	<1	6	<1	<1	<1	<1	<1	--	--
Bicarbonate	316	340	330	316	326	280	251	271	256	--	--
Calcium	90.3	92.2	95.4	94.2	101	87.9	99.7	111	102	--	--
Chloride	124	112	113	134	149	118	128	133	138	ND - 213	31
Fluoride	0.4	0.38	0.34	0.38	0.38	0.417	<1	0.318	0.466	ND - 1.3	0.8
Magnesium	25	24.8	25.2	25.2	27.7	23.6	29.0	27.5	29.5	--	--
Nitrogen-Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0512	<0.05	--	--
Nitrogen-Nitrate	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--
Potassium	5.7	5.77	6	5.9	6.2	5.53	6.18	5.91	6.11	--	--
Sodium	205	214	229	227	247	217	227	251	221	--	--
Sulfate	383	389	394	389	256	403	417	442	443	ND - 3455	230
TDS	1010	900	1030	978	1040	996	968	1020	1070	1019 - 5548	811
Metals (ug/l)											
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	--
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78	--
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Iron	<30	<30	53	<30	<30	<30	<30	<30	<30	ND - 7942	150
Lead	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Manganese	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND - 34,550	580
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Molybdenum	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61	--
Selenium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	ND - 106.5	--
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	--	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	--	--
Uranium	8.42	8.24	7.87	8.68	8.17	8.95	9.62	9.12	8.84	ND - 59.8	--
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	--	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Radiologics (pCi/l)											
Gross Alpha	<0.2	<0.2	<0.1	<-0.1	<-0.2	<1.0	<1.0	<1.0	<1.0	ND - 36	7.2

Table2B Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Cottonwood Spring											
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1]***	**Avg 1977 1982 [1]**
VOCS (ug/L)											
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--

Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

Table 2C Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Westwater Seep										
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1] ***
Major Ions (mg/l)										
Carbonate	<1	<1	<1	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<1	<1	--
Bicarbonate	465	450	371					359	399	--
Calcium	191	179	247					150	176	--
Chloride	41	40	21					32.6	38.0	ND - 213
Fluoride	0.7	0.6	0.54					0.424	0.618	ND - 1.3
Magnesium	45.9	44.7	34.7					34	47.3	--
Nitrogen-Ammonia	<0.05	0.5	0.06					0.123	<0.05	--
Nitrogen-Nitrate	0.8	<0.1	<0.1					<0.1	<0.1	--
Potassium	1.19	6.57	3.9					1.98	2.32	--
Sodium	196	160	112					139	185	--
Sulfate	646	607	354					392	573	ND - 3455
TDS	1370	1270	853					896	1060	1019 - 5548
Metals (ug/l)										
Arsenic	<5	<5	12.3	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<5.0	<5.0	--
Beryllium	<0.5	<0.5	0.91					<0.5	<0.5	--
Cadmium	<0.5	<0.5	0.9					<0.5	<0.5	ND - 4.78
Chromium	<25	<25	<25					<25	<25	--
Cobalt	<10	<10	<10					<10	<10	--
Copper	<10	<10	16					<10	<10	--
Iron	89	56	4540					<30	40.1	ND - 7942
Lead	<1.0	<1.0	41.4					<1.0	<1.0	--
Manganese	37	87	268					171	55.5	ND - 34,550
Mercury	<0.5	<0.5	<0.5					<0.5	<0.5	--
Molybdenum	29	29	<10					<10	<10	--
Nickel	<20	<20	29					<20	<20	ND - 61
Selenium	<5.0	<5.0	<5.0					<5.0	<5.0	ND - 106.5
Silver	<10	<10	<10					<10	<10	--
Thallium	<0.5	<0.5	<0.5					<0.5	<0.5	--
Tin	<100	<100	<100					<100	<100	--
Uranium	15.1	46.6	6.64					2.1	19.0	ND - 59.8
Vanadium	<15	<15	34					<15	<15	--
Zinc	<10	<10	28					<10	<10	--
Radiologics (pCi/l)										
Gross Alpha	< -0.1	<0.3	0.5	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<1.0	<1.0	ND - 36

Table 2C Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Westwater Seep										
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1] ***
VOCS (ug/L)										
Acetone	<20	<20	<20	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<20	<20	--
Benzene	<1.0	<1.0	<1.0					<1.0	<1.0	--
Carbon tetrachloride	<1.0	<1.0	<1.0					<1.0	<1.0	--
Chloroform	<1.0	<1.0	<1.0					<1.0	<1.0	--
Chloromethane	<1.0	<1.0	<1.0					<1.0	<1.0	--
MEK	<20	<20	<20					<20	<20	--
Methylene Chloride	<1.0	<1.0	<1.0					<1.0	<1.0	--
Naphthalene	<1.0	<1.0	<1.0					<1.0	<1.0	--
Tetrahydrofuran	<1.0	<1.0	<1.0					<1.0	<1.0	--
Toluene	<1.0	<1.0	<1.0					<1.0	<1.0	--
Xylenes	<1.0	<1.0	<1.0					<1.0	<1.0	--

[1] From Figure 3, Table 10 and Appendix B of the *Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah*, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

Table 2D Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Entrance Spring										
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1] ***
Major Ions (mg/l)										
Carbonate	<1	<1	<1	7	<1	<1	<1	<1	<1	--
Bicarbonate	292	332	270	299	298	292	247	324	340	--
Calcium	90.8	96.5	88.8	96.6	105	121	103	131	131	--
Chloride	60	63	49	64	78	139	76.8	75.6	75	ND - 213
Fluoride	0.7	0.73	0.58	0.58	0.64	0.71	<1	0.606	0.668	ND - 1.3
Magnesium	26.6	28.9	26.4	28.4	32.7	43	34.9	33.3	38.6	--
Nitrogen-Ammonia	0.28	<0.05	<0.05	0.32	<0.05	<0.05	<0.05	0.202	0.0962	--
Nitrogen-Nitrate	1.4	1	1.4	0.5	2.8	2.06	3.65	<0.1	0.403	--
Potassium	2.4	2.74	2.6	2.9	2	3.83	1.56	1.62	<1.0	--
Sodium	61.4	62.7	62.5	68.6	77.4	127	78.9	93.1	90.8	--
Sulfate	178	179	166	171	171	394	219	210	245	ND - 3455
TDS	605	661	571	582	660	828	688	680	828	1019 - 5548
Metals (ug/l)										
Arsenic	<5	<5	<5	<5	<5	<5	<5	5.02	<5	--
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Iron	<30	<30	37	55	34	162	37.2	295	94.4	ND - 7942
Lead	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Manganese	54	11	47	84	<10	259	16.1	367	210	ND - 34,550
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Molybdenum	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61
Selenium	12.1	9.2	13.1	5.5	13.2	11.2	15.9	<0.5	<0.5	ND - 106.5
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	--
Uranium	15.2	17.8	18.8	15.3	21.1	38.8	23.2	36	22.0	ND - 59.8
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Radiologics (pCi/l)										
Gross Alpha	0.9	<0.5	1.5	1.6	0.5	2.3	<1	3.05	<1	ND - 36

Table 2D Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Entrance Spring										
Constituent	**2009**	**2010**	**2011 May**	**2011 July**	**2012**	**2013**	**2014**	**2015**	**2016**	**Range of Average Historic Values for Monitoring Wells[1] ***
VOCS (ug/L)										
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.32	<1.0	<1.0	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--

Groundwater Quality Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

INDEX OF TABS

Tab A

Seeps and Springs Field Data Sheets and Photographic Documentation

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Entrance Seep

Date For Initial Sampling Visit: 6/16/16 **Time:** 0820

Sample Collected: ☒ Yes ☐ No

Date For Second Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Date For Third Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Sampling Personnel: Garrin Palmer, Tanner Holliday, Dean Henderson, Phil Goble

Weather Conditions at Time of Sampling: Sunny

Estimated Seep or Spring Flow Rate: 0.1 GPM

Field Parameter Measurements:

-pH 7.05
-Temperature (°C) 14.25
-Conductivity µMHOC/cm 1261
-Turbidity (NTU) (if measured) 4.7
-Redox Potential Eh (mV) (if measured) 393

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
THF	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Metals	☒ Yes		☒ Yes			☒		

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name: _____

Notes: Arrived on site at 0815. Samples collected at 0820
Left site at 0845.

Entrance Seep
6/16/2016

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Cottonwood Spring

Date For Initial Sampling Visit: 6/16/16 **Time:** 0925

Sample Collected: ☒ Yes ☐ No

Date For Second Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Date For Third Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Sampling Personnel: Garrin Palmer, Tanner Holliday, Dean Henderson, Phil Goble

Weather Conditions at Time of Sampling: Sunny

Estimated Seep or Spring Flow Rate: 0.5 GPM

Field Parameter Measurements:

-pH 7.05
-Temperature (°C) 15.29
-Conductivity µMHOC/cm 1698
-Turbidity (NTU) (if measured) 0
-Redox Potential Eh (mV) (if measured) 313

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
THF	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Metals	☒ Yes		☒ Yes			☒		

QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0916 Samples collected at 0925
Left site at 0940


Cottonwood Spring
6/16/2016

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Ruin Spring

Date For Initial Sampling Visit: 6/16/16 **Time:** 1040

Sample Collected: ☒ Yes ☐ No

Date For Second Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Date For Third Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Sampling Personnel: Garrin Palmer, Tanner Holliday, Dean Henderson, Phil Goble

Weather Conditions at Time of Sampling: Sunny

Estimated Seep or Spring Flow Rate: 1.5 GPM

Field Parameter Measurements:

-pH 7.21
-Temperature (°C) 14.07
-Conductivity µMHOC/cm 1281
-Turbidity (NTU) (if measured) 1.4
-Redox Potential Eh (mV) (if measured) 205

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☒
THF	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☒
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☒
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☒
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Metals	☒ Yes		☒ Yes			☒		

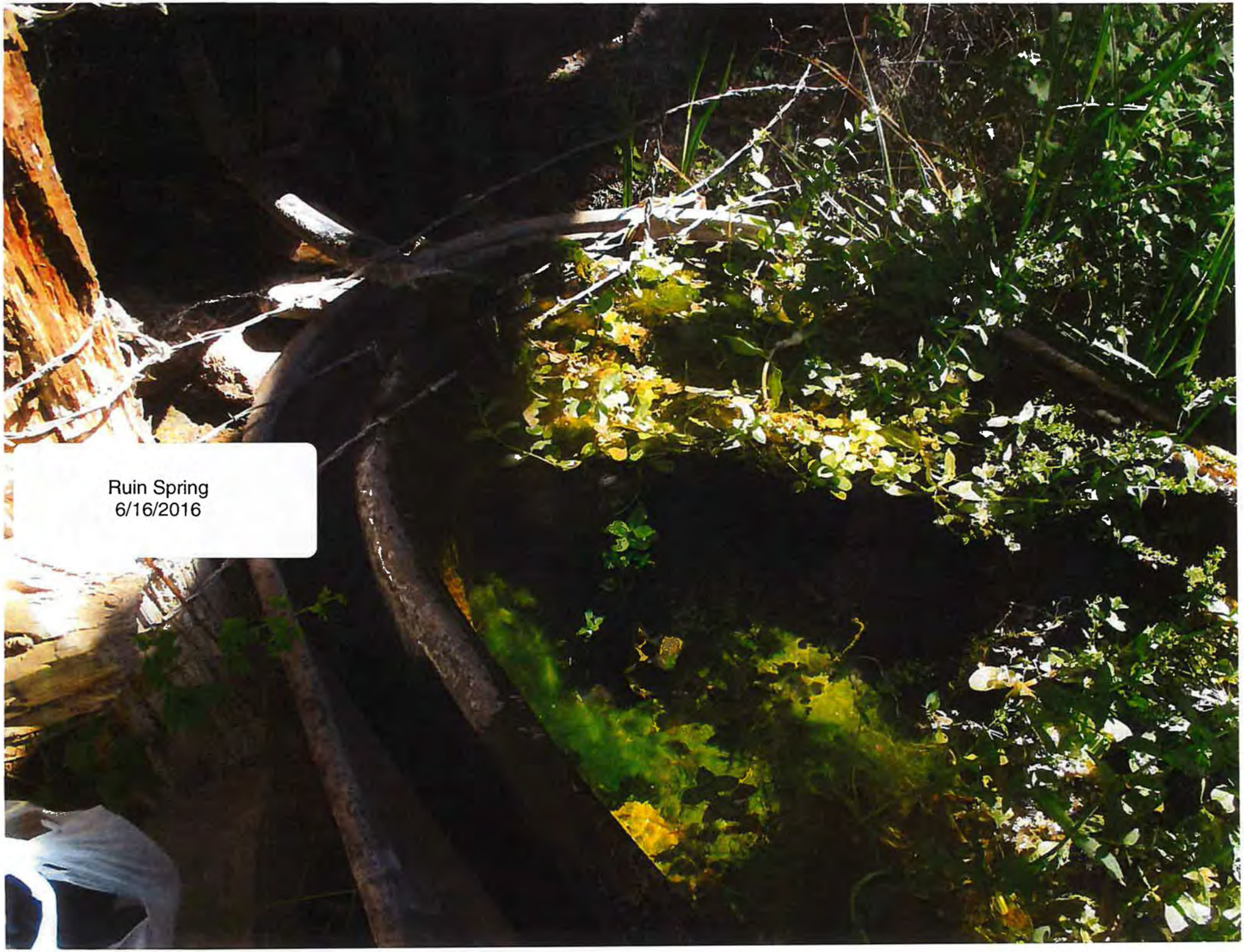
QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 1033 Samples collected at 1040 Left site at 1050. All samples were collected at discharge point except for samples that needed filtered (Metals, Gross Alpha).


Ruin Spring
6/16/2016

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Back Spring

Date For Initial Sampling Visit: 6/16/16 **Time:** 0925

Sample Collected: ☒ Yes ☐ No

Date For Second Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Date For Third Sampling Visit: _____ **Time:** _____

Sample Collected: ☐ Yes ☐ No

Sampling Personnel: Garrin Palmer, Tanner Holliday, Dean Henderson, Phil Goble

Weather Conditions at Time of Sampling: Sunny

Estimated Seep or Spring Flow Rate: _____

Field Parameter Measurements:

-pH _____
-Temperature (°C) _____
-Conductivity µMHOC/cm _____
-Turbidity (NTU) (if measured) _____
-Redox Potential Eh (mV) (if measured) _____

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
THF	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Metals	☒ Yes		☒ Yes			☒		

QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: Back Spring Duplicate of cottonwood spring

Notes: ~~Arrived on site at~~

Duplicate of Cottonwood Spring

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Westwater Seep

Date For Initial Sampling Visit: 6/16/16 **Time:** 1000

Sample Collected: ☐ Yes ☒ No

Date For Second Sampling Visit: 9/20/16 **Time:** 0840

Sample Collected: ☐ Yes ☒ No

Date For Third Sampling Visit: 10/24/2016 **Time:** 1010

Sample Collected: ☒ Yes ☐ No

Sampling Personnel: Garrin Palmer, Tanner Holliday, Phil Goble, Dean Henderson

Weather Conditions at Time of Sampling: Sunny

Estimated Seep or Spring Flow Rate: N/A

Field Parameter Measurements:

-pH 6.90
-Temperature (°C) 12.68
-Conductivity µMHOC/cm 1780
-Turbidity (NTU) (if measured) 19
-Redox Potential Eh (mV) (if measured) 499

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
THF	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Metals	x Yes		x Yes			x		

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name:

Notes: Arrived on site at 0954. Seep was dry, unable to sample. Left site at 1010

9/20/16 - Arrived on site at 0840. Spring was dry. See photo

10/24/16 - Arrived on site at 0958. Sampled seep and took parameters. Left site at 1024. Water at seep was stagnant with no


Westwater Seep
6/16/2016


Westwater Seep
9/20/2016


Westwater Seep
10/24/16

Westwater Seep
10/24/16

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Coral Canyon Seep

Date For Initial Sampling Visit: 6/20/2016 **Time:** 1300

Sample Collected: ☐ Yes ☒ No

Date For Second Sampling Visit: 9/20/16 **Time:** 0730

Sample Collected: ☐ Yes ☒ No

Date For Third Sampling Visit: 10/21/16 **Time:** 1315

Sample Collected: ☐ Yes ☒ No

Sampling Personnel: Garvin, Tanner

Weather Conditions at Time of Sampling: NA

Estimated Seep or Spring Flow Rate: NA

Field Parameter Measurements:

-pH —

-Temperature (°C) —

-Conductivity µMHOC/cm —

-Turbidity (NTU) (if measured) —

-Redox Potential Eh (mV) (if measured) —

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
THF	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Nutrients	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Other Non Radiologics	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Gross Alpha	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐

QC Samples Associated with this Location:

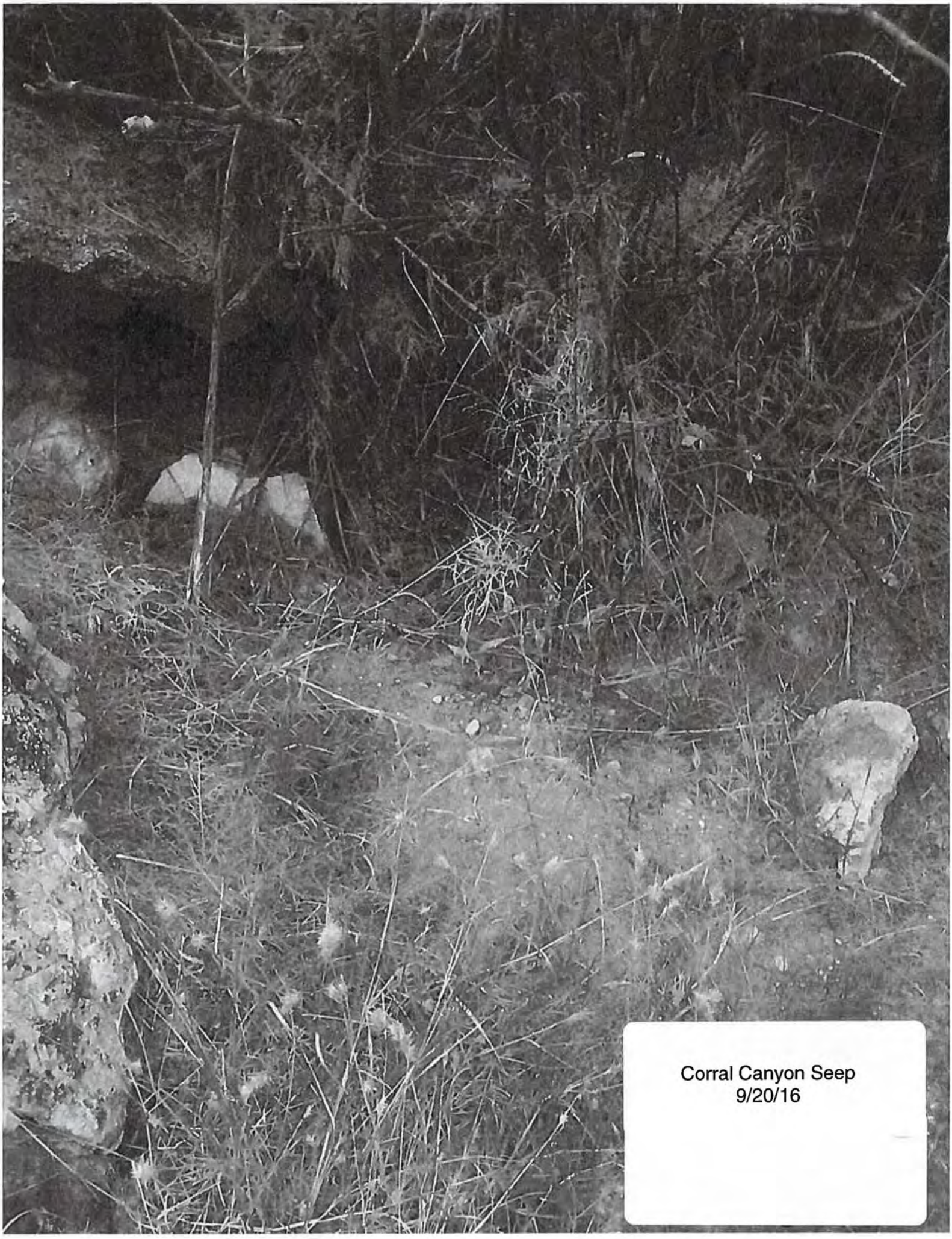
☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: NA

Notes: Arrived on site at 1300. Spring was dry. See photo
9/20/16 - Arrived on site at 0730. Spring was dry. See photo.
10/21/16 - Arrived on site at 1315. Spring was dry. See photo.


Corral Canyon Seep
6/16/16



Corral Canyon Seep
9/20/16


Corral Canyon Seep
10/21/16

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Corral Spring

Date For Initial Sampling Visit: 6/20/2016 **Time:** 1400

Sample Collected: ☐ Yes ☑ No

Date For Second Sampling Visit: 9/20/16 **Time:** 0930

Sample Collected: ☐ Yes ☒ No

Date For Third Sampling Visit: 10/21/16 **Time:** 1200

Sample Collected: ☐ Yes ☒ No

Sampling Personnel: Garvin, Tanner

Weather Conditions at Time of Sampling: NA

Estimated Seep or Spring Flow Rate: NA

Field Parameter Measurements:

-pH —

-Temperature (°C) —

-Conductivity µMHOC/cm —

-Turbidity (NTU) (if measured) —

-Redox Potential Eh (mV) (if measured) —

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
THF	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Nutrients	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Other Non Radiologics	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Gross Alpha	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank

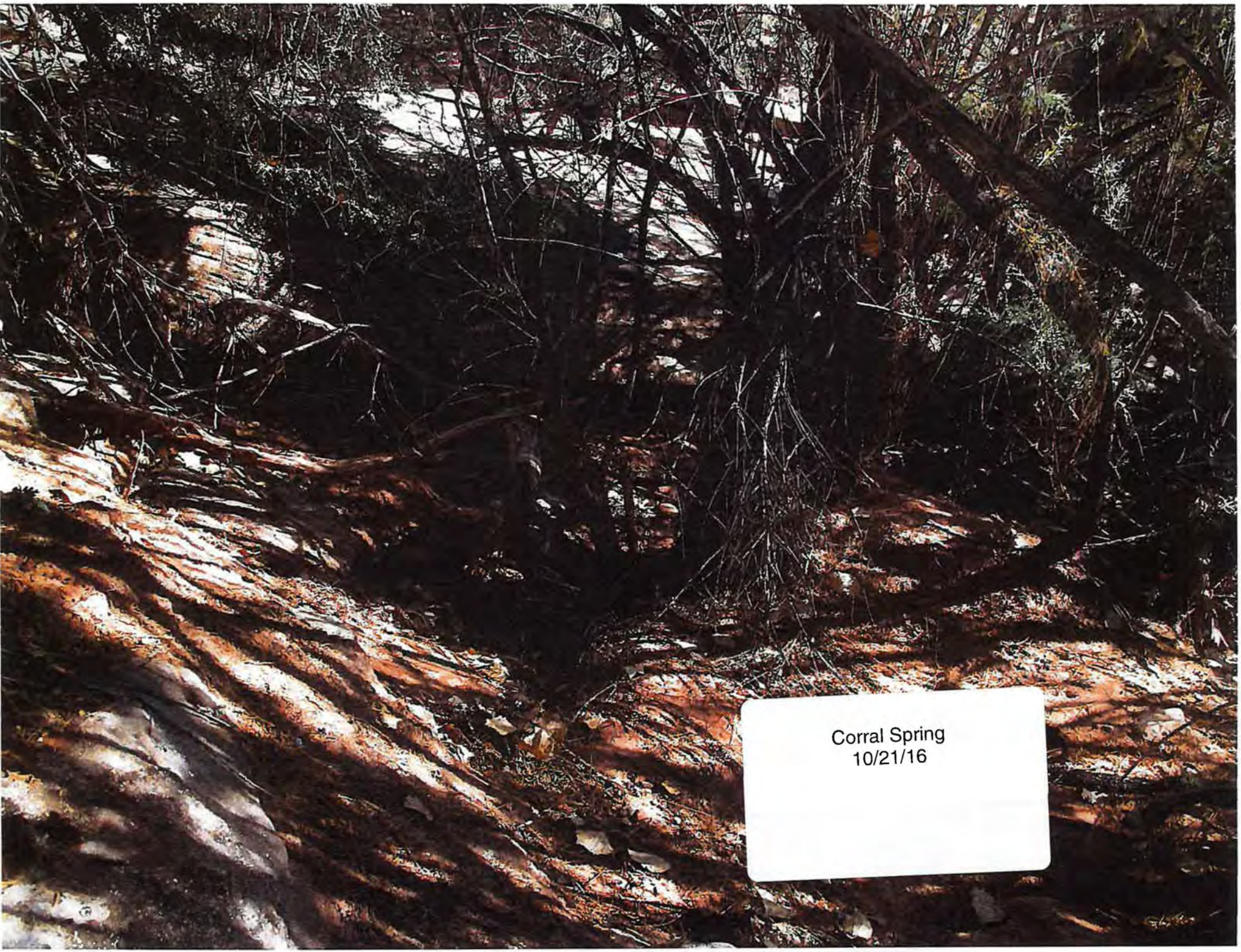
☐ Duplicate

Duplicate Sample Name: NA

Notes: Arrived on site at ~~1500~~ 1400. Spring was dry see photo


Corral Spring
6/20/16

Corral Spring
9/20/2016


Corral Spring
10/21/16

Tab B

Field Parameter Measurement Data

Field parameters

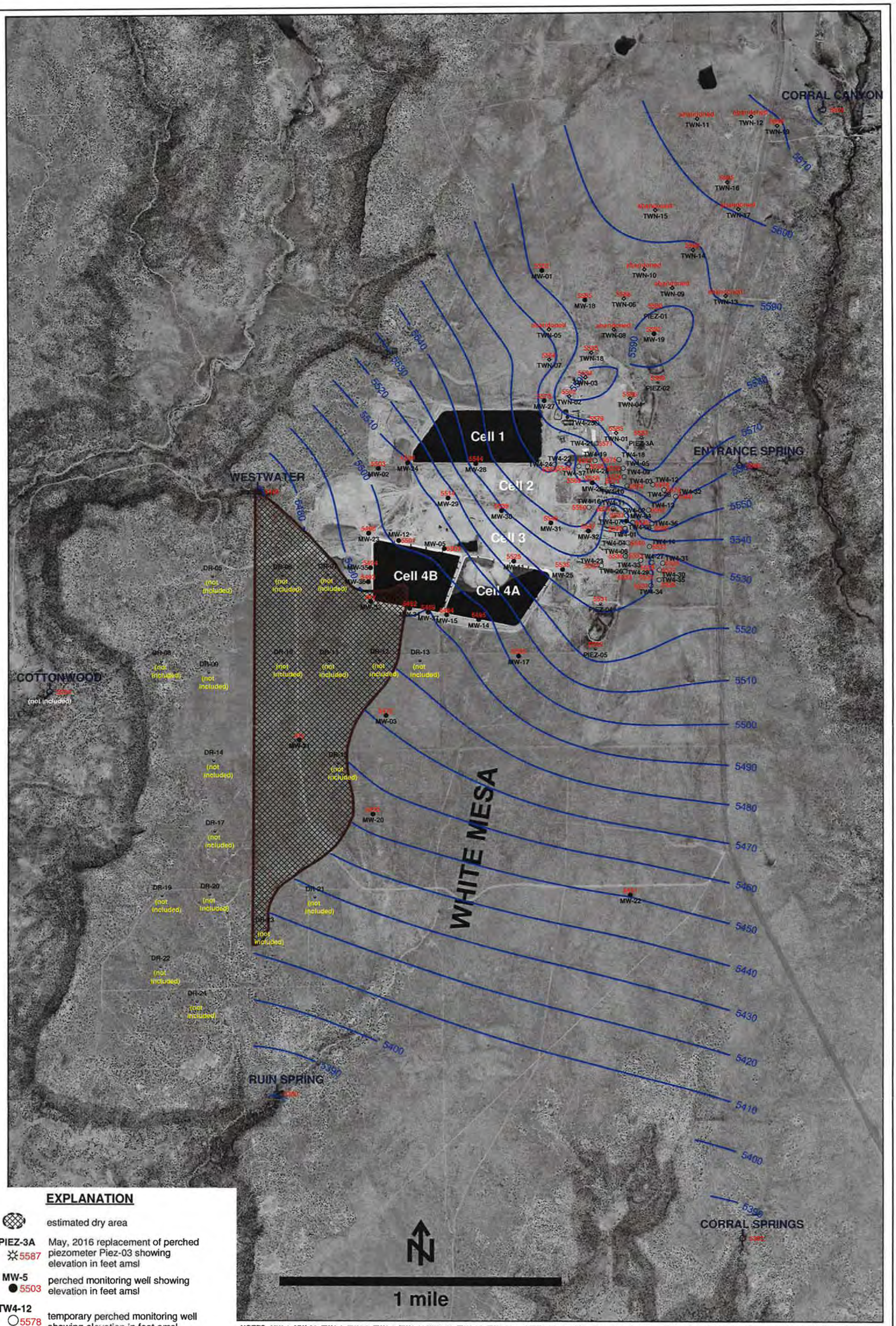
Location	pH	Conductivity	Turbidity	Redox	Temperature
Date	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016
Cottonwood Spring	7.05	1698	0.0	313	15.29
Entrance Seep	7.05	1261	4.7	393	14.25
Back Spring (Duplicate of Cottonwood Spring)	6.57	1141	5.1	328	17.63
Ruin Spring	7.21	1281	1.4	205	14.07
Westwater Seep	6.90	1780	19	499	12.68

Tab C

Survey Data and Contour Map

Seeps and Springs Survey Locations

Mid-December 2009 Survey			
Location	**Latitude (N)**	**Longitude (W)**	**Elevation**
FROG POND	37°33'03.5358"	109°29'04.9552"	5589.56
CORRAL CANYON	37°33'07.1392"	109°29'12.3907"	5623.97
ENTRANCE SPRING	37°32'01.6487"	109°29'33.7005"	5559.71
CORRAL SPRINGS	37°29'37.9192"	109°29'35.8201"	5383.35
RUIN SPRING	37°30'06.0448"	109°31'23.4300"	5380.03
COTTONWOOD	37°31'21.7002"	109°32'14.7923"	5234.33
WESTWATER	37°31'58.5020"	109°31'25.7345"	5468.23
Verification Survey July 2010			
RUIN SPRING	37°30'06.0456"	109°31'23.4181"	5380.01
COTTONWOOD	37°31'21.6987"	109°32'14.7927"	5234.27
WESTWATER	37°31'58.5013"	109°31'25.7357"	5468.32



EXPLANATION

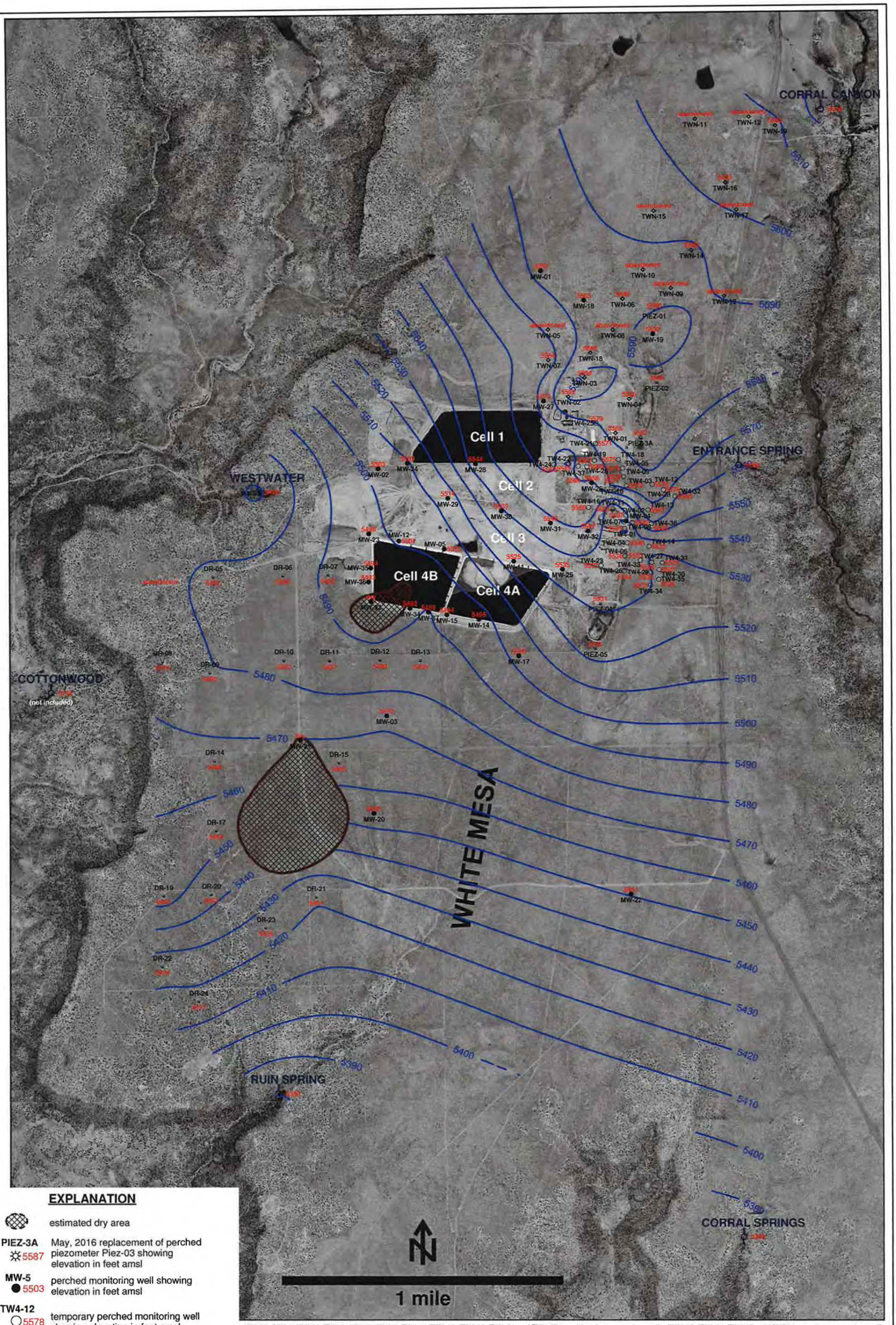
- estimated dry area
- **PIEZ-3A** ☼5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ●5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○5578 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◆5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⌾5590 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2016 WATER LEVELS (DR-SERIES PIEZOMETERS NOT INCLUDED) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov16/seep_springs/Uwl0916_nodr.srf	C-1



EXPLANATION

- estimated dry area
- **PIEZ-3A** ☼5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ●5503 — perched monitoring well showing elevation in feet amsl
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- **TWN-7** ◆5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ◒5590 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2016 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov16/ seeps_springs/Uwl0916_dr.srf	C-2

Tab D

Analytical Laboratory Data

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-002
Client Sample ID: Cottonwood Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/21/2016 1534h	6/22/2016 955h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/21/2016 1534h	6/30/2016 1624h	E200.7	10.0	**102**	
Chromium	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/21/2016 1534h	6/22/2016 955h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/21/2016 1534h	6/22/2016 955h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/21/2016 1534h	6/30/2016 1624h	E200.7	10.0	**29.5**	
Manganese	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/22/2016 1403h	6/23/2016 907h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/21/2016 1534h	6/30/2016 1647h	E200.7	1.00	**6.11**	
Selenium	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/21/2016 1534h	6/30/2016 1624h	E200.7	10.0	**221**	
Thallium	mg/L	6/21/2016 1534h	6/22/2016 955h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/21/2016 1534h	6/22/2016 1141h	E200.8	0.000300	**0.00884**	
Vanadium	mg/L	6/21/2016 1534h	6/30/2016 1647h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/21/2016 1534h	6/22/2016 920h	E200.8	0.0100	< 0.0100	

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e-mail: awal@awal-labs.com
web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-002
Client Sample ID: Cottonwood Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2016 940h	6/29/2016 1327h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	**256**	
Carbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/29/2016 2249h	E300.0	100	**138**	
Fluoride	mg/L		6/30/2016 751h	E300.0	0.100	**0.466**	
Ion Balance	%		6/30/2016 1651h	Calc.	-100	**-2.59**	
Nitrate/Nitrite (as N)	mg/L		6/28/2016 1840h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/29/2016 2249h	E300.0	100	**443**	
Total Anions, Measured	meq/L		6/30/2016 1651h	Calc.		**18.2**	
Total Cations, Measured	meq/L		6/30/2016 1651h	Calc.		**17.3**	
Total Dissolved Solids	mg/L		6/20/2016 1617h	SM2540C	20.0	**1,070**	
Total Dissolved Solids Ratio, Measured/Calculated			6/30/2016 1651h	Calc.		**0.980**	
Total Dissolved Solids, Calculated	mg/L		6/30/2016 1651h	Calc.		**1,090**	

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-002A
Client Sample ID: Cottonwood Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2016 1904h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	52.0	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	48.2	50.00	96.4	77-129	

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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: July 18, 2016

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	GW Monitoring Project

Client Sample ID:	Cottonwood Spring	Project:	DNMI00106
Sample ID:	399853002	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	16-JUN-16 09:25		
Receive Date:	22-JUN-16		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	0.149	+/-0.167	0.638	1.00	pCi/L			AXM6	07/07/16	0734	1581965	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"			95.8	(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. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-001
Client Sample ID: Entrance Seep
Collection Date: 6/16/2016 820h
Received Date: 6/20/2016 850h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/21/2016 1534h	6/22/2016 952h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/21/2016 1534h	6/30/2016 1618h	E200.7	10.0	**131**	2
Chromium	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/21/2016 1534h	6/22/2016 952h	E200.8	0.0300	**0.0944**	
Lead	mg/L	6/21/2016 1534h	6/22/2016 952h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/21/2016 1534h	6/30/2016 1618h	E200.7	10.0	**38.6**	
Manganese	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	**0.210**	
Mercury	mg/L	6/22/2016 1403h	6/23/2016 902h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/21/2016 1534h	6/30/2016 1637h	E200.7	1.00	< 1.00	
Selenium	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/21/2016 1534h	6/30/2016 1618h	E200.7	10.0	**90.8**	
Thallium	mg/L	6/21/2016 1534h	6/22/2016 952h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/21/2016 1534h	6/22/2016 1138h	E200.8	0.000300	**0.0220**	
Vanadium	mg/L	6/21/2016 1534h	6/30/2016 1637h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/21/2016 1534h	6/22/2016 911h	E200.8	0.0100	< 0.0100	

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-001
Client Sample ID: Entrance Seep
Collection Date: 6/16/2016 820h
Received Date: 6/20/2016 850h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2016 940h	6/29/2016 1326h	E350.1	0.0500	**0.0962**	
Bicarbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	**340**	
Carbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/30/2016 858h	E300.0	10.0	**75.0**	
Fluoride	mg/L		6/30/2016 808h	E300.0	0.100	**0.668**	
Ion Balance	%		6/30/2016 1651h	Calc.	-100	**-1.28**	
Nitrate/Nitrite (as N)	mg/L		6/28/2016 1837h	E353.2	0.100	**0.403**	'
Sulfate	mg/L		6/29/2016 2340h	E300.0	100	**245**	
Total Anions, Measured	meq/L		6/30/2016 1651h	Calc.		**14.0**	
Total Cations, Measured	meq/L		6/30/2016 1651h	Calc.		**13.7**	
Total Dissolved Solids	mg/L		6/20/2016 1617h	SM2540C	20.0	**828**	@
Total Dissolved Solids Ratio, Measured/Calculated			6/30/2016 1651h	Calc.		**1.05**	
Total Dissolved Solids, Calculated	mg/L		6/30/2016 1651h	Calc.		**786**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-001A
Client Sample ID: Entrance Seep
Collection Date: 6/16/2016 820h
Received Date: 6/20/2016 850h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2016 1625h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.3	50.00	98.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	47.0	50.00	94.0	77-129	

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Certificate of Analysis

Report Date: July 18, 2016

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	GW Monitoring Project

Client Sample ID:	Entrance Seep	Project:	DNMI00106
Sample ID:	399853001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	16-JUN-16 08:20		
Receive Date:	22-JUN-16		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha		1.46	+/-0.294	0.662	1.00	pCi/L			AXM6	07/07/16	0734	1581965	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"			96.9	(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. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-003
Client Sample ID: Ruin Spring
Collection Date: 6/16/2016 1040h
Received Date: 6/20/2016 850h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/21/2016 1534h	6/22/2016 958h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/21/2016 1534h	6/30/2016 1626h	E200.7	10.0	**138**	
Chromium	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/21/2016 1534h	6/22/2016 958h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/21/2016 1534h	6/22/2016 958h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/21/2016 1534h	6/30/2016 1626h	E200.7	10.0	**31.1**	
Manganese	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/22/2016 1403h	6/23/2016 913h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	**0.0178**	
Nickel	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/21/2016 1534h	6/30/2016 1649h	E200.7	1.00	**3.18**	
Selenium	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.00500	**0.0100**	
Silver	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/21/2016 1534h	6/30/2016 1626h	E200.7	10.0	**105**	
Thallium	mg/L	6/21/2016 1534h	6/22/2016 958h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/21/2016 1534h	6/22/2016 1145h	E200.8	0.000300	**0.00838**	
Vanadium	mg/L	6/21/2016 1534h	6/30/2016 1649h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/21/2016 1534h	6/22/2016 924h	E200.8	0.0100	< 0.0100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-003
Client Sample ID: Ruin Spring
Collection Date: 6/16/2016 1040h
Received Date: 6/20/2016 850h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2016 940h	6/29/2016 1328h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	**193**	
Carbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/30/2016 915h	E300.0	10.0	**24.4**	
Fluoride	mg/L		6/30/2016 825h	E300.0	0.100	**0.541**	
Ion Balance	%		6/30/2016 1651h	Calc.	-100	**-2.40**	
Nitrate/Nitrite (as N)	mg/L		6/28/2016 1846h	E353.2	0.100	**1.64**	
Sulfate	mg/L		6/29/2016 2357h	E300.0	100	**490**	
Total Anions, Measured	meq/L		6/30/2016 1651h	Calc.		**14.8**	
Total Cations, Measured	meq/L		6/30/2016 1651h	Calc.		**14.1**	
Total Dissolved Solids	mg/L		6/20/2016 1617h	SM2540C	20.0	**916**	
Total Dissolved Solids Ratio, Measured/Calculated			6/30/2016 1651h	Calc.		**1.01**	
Total Dissolved Solids, Calculated	mg/L		6/30/2016 1651h	Calc.		**908**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-003A
Client Sample ID: Ruin Spring
Collection Date: 6/16/2016 1040h
Received Date: 6/20/2016 850h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2016 1923h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.4	77-129	

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Certificate of Analysis

Report Date: July 18, 2016

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	GW Monitoring Project

Client Sample ID:	Ruin Spring	Project:	DNMI00106
Sample ID:	399853003	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	16-JUN-16 10:40		
Receive Date:	22-JUN-16		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	-0.408	+/-0.154	0.932	1.00	pCi/L			AXM6	07/07/16	0734	1581965	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"			95.4	(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. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1610506-001
Client Sample ID: Westwater Seep
Collection Date: 10/24/2016 1010h
Received Date: 10/26/2016 1030h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	10/27/2016 1309h	10/28/2016 1526h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	10/27/2016 1309h	11/7/2016 1407h	E200.7	10.0	**176**	2
Chromium	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	< 0.0100	
Copper	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	< 0.0100	
Iron	mg/L	10/27/2016 1309h	10/28/2016 1526h	E200.8	0.0300	**0.0401**	
Lead	mg/L	10/27/2016 1309h	10/28/2016 1526h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	10/27/2016 1309h	11/7/2016 1407h	E200.7	10.0	**47.3**	
Manganese	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	**0.0555**	
Mercury	mg/L	10/27/2016 1530h	10/28/2016 726h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	10/27/2016 1309h	11/7/2016 1547h	E200.7	1.00	**2.32**	
Selenium	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.00500	< 0.00500	
Silver	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	10/27/2016 1309h	11/7/2016 1407h	E200.7	10.0	**185**	2
Thallium	mg/L	10/27/2016 1309h	10/28/2016 1526h	E200.8	0.000500	< 0.000500	
Tin	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.100	< 0.100	
Uranium	mg/L	10/27/2016 1309h	10/28/2016 1556h	E200.8	0.000300	**0.0190**	
Vanadium	mg/L	10/27/2016 1309h	11/7/2016 1547h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	10/27/2016 1309h	10/28/2016 1458h	E200.8	0.0100	< 0.0100	

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

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Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1610506-001
Client Sample ID: Westwater Seep
Collection Date: 10/24/2016 1010h
Received Date: 10/26/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	10/27/2016 900h	10/27/2016 1141h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		10/27/2016 905h	SM2320B	1.00	**399**	
Carbonate (as CaCO3)	mg/L		10/27/2016 905h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/7/2016 1557h	E300.0	5.00	**38.0**	
Fluoride	mg/L		11/7/2016 1540h	E300.0	0.100	**0.618**	
Ion Balance	%		11/7/2016 1657h	Calc.	-100	**-0.469**	
Nitrate/Nitrite (as N)	mg/L		10/26/2016 1748h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/7/2016 1614h	E300.0	100	**573**	
Total Anions, Measured	meq/L		11/7/2016 1657h	Calc.		**21.0**	
Total Cations, Measured	meq/L		11/7/2016 1657h	Calc.		**20.8**	
Total Dissolved Solids	mg/L		10/27/2016 1320h	SM2540C	50.0	**1,060**	@
Total Dissolved Solids Ratio, Measured/Calculated			11/7/2016 1657h	Calc.		**0.841**	
Total Dissolved Solids, Calculated	mg/L		11/7/2016 1657h	Calc.		**1,260**	

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

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QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1610506-001A
Client Sample ID: Westwater Seep
Collection Date: 10/24/2016 1010h
Received Date: 10/26/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/26/2016 1418h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	56.9	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.0	50.00	110	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	

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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: November 14, 2016

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	Analytical forSeeps and Springs 2016

Client Sample ID:	WestWater Seep	Project:	DNMI00106
Sample ID:	409071001	Client ID:	DNMI001
Matrix:	Surface Water		
Collect Date:	24-OCT-16 10:10		
Receive Date:	26-OCT-16		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	0.00612	+/-0.193	0.801	1.00	pCi/L			AXM6 11/11/16	1050	1612325	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"			99.6	(25%-125%)

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

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

Column headers are defined as follows:

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

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Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-004
Client Sample ID: Back Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/21/2016 1534h	6/22/2016 1001h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/21/2016 1534h	6/30/2016 1628h	E200.7	10.0	**106**	
Chromium	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/21/2016 1534h	6/22/2016 1001h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/21/2016 1534h	6/22/2016 1001h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/21/2016 1534h	6/30/2016 1628h	E200.7	10.0	**29.8**	
Manganese	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/22/2016 1403h	6/23/2016 914h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/21/2016 1534h	6/30/2016 1651h	E200.7	1.00	**6.15**	
Selenium	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/21/2016 1534h	6/30/2016 1628h	E200.7	10.0	**222**	
Thallium	mg/L	6/21/2016 1534h	6/22/2016 1001h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/21/2016 1534h	6/22/2016 1148h	E200.8	0.000300	**0.00888**	
Vanadium	mg/L	6/21/2016 1534h	6/30/2016 1651h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/21/2016 1534h	6/22/2016 927h	E200.8	0.0100	< 0.0100	

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-004
Client Sample ID: Back Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2016 940h	6/29/2016 1328h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	**261**	
Carbonate (as CaCO3)	mg/L		6/21/2016 900h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/30/2016 014h	E300.0	100	**133**	
Fluoride	mg/L		6/30/2016 841h	E300.0	0.100	**0.446**	
Ion Balance	%		6/30/2016 1651h	Calc.	-100	**-0.963**	
Nitrate/Nitrite (as N)	mg/L		6/28/2016 1847h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/30/2016 014h	E300.0	100	**428**	
Total Anions, Measured	meq/L		6/30/2016 1651h	Calc.		**17.9**	
Total Cations, Measured	meq/L		6/30/2016 1651h	Calc.		**17.5**	
Total Dissolved Solids	mg/L		6/20/2016 1617h	SM2540C	20.0	**1,070**	
Total Dissolved Solids Ratio, Measured/Calculated			6/30/2016 1651h	Calc.		**0.991**	
Total Dissolved Solids, Calculated	mg/L		6/30/2016 1651h	Calc.		**1,080**	

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Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-004A
Client Sample ID: Back Spring
Collection Date: 6/16/2016 925h
Received Date: 6/20/2016 850h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2016 1943h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.2	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

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Certificate of Analysis

Report Date: July 18, 2016

Company :	Energy Fuels Resources (USA), Inc.
Address :	225 Union Boulevard Suite 600 Lakewood, Colorado 80228
Contact:	Ms. Kathy Weinel
Project:	GW Monitoring Project

Client Sample ID:	Back Spring	Project:	DNMI00106
Sample ID:	399853004	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	16-JUN-16 09:25		
Receive Date:	22-JUN-16		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	0.126	+/-0.193	0.746	1.00	pCi/L			AXM6	07/07/16	0734	1581965	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.

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1606395-005A
Client Sample ID: Trip Blank
Collection Date: 6/16/2016
Received Date: 6/20/2016 850h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2016 2003h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	98.9	77-129	

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Jose Rocha
QA Officer

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: Seeps and Springs 2016

Dear Garrin Palmer: Lab Set ID: 1606395

American West Analytical Laboratories received sample(s) on 6/20/2016 for the analyses presented in the following report.

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

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

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

Thank You,

Approved by: Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2016.07.08 10:15:43 -06'00'

Laboratory Director or designee

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Set ID: 1606395
Date Received: 6/20/2016 850h

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Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1606395-001A	Entrance Seep	6/16/2016 820h	Aqueous	VOA by GC/MS Method 8260C/5030C
1606395-001B	Entrance Seep	6/16/2016 820h	Aqueous	Anions, E300.0
1606395-001B	Entrance Seep	6/16/2016 820h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1606395-001C	Entrance Seep	6/16/2016 820h	Aqueous	Total Dissolved Solids, A2540C
1606395-001D	Entrance Seep	6/16/2016 820h	Aqueous	Nitrite/Nitrate (as N), E353.2
1606395-001D	Entrance Seep	6/16/2016 820h	Aqueous	Ammonia, Aqueous
1606395-001E	Entrance Seep	6/16/2016 820h	Aqueous	Mercury, Drinking Water Dissolved
1606395-001E	Entrance Seep	6/16/2016 820h	Aqueous	Ion Balance
1606395-001E	Entrance Seep	6/16/2016 820h	Aqueous	ICP Metals, Dissolved
1606395-001E	Entrance Seep	6/16/2016 820h	Aqueous	ICPMS Metals, Dissolved
1606395-002A	Cottonwood Spring	6/16/2016 925h	Aqueous	VOA by GC/MS Method 8260C/5030C
1606395-002B	Cottonwood Spring	6/16/2016 925h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1606395-002B	Cottonwood Spring	6/16/2016 925h	Aqueous	Anions, E300.0
1606395-002C	Cottonwood Spring	6/16/2016 925h	Aqueous	Total Dissolved Solids, A2540C
1606395-002D	Cottonwood Spring	6/16/2016 925h	Aqueous	Nitrite/Nitrate (as N), E353.2
1606395-002D	Cottonwood Spring	6/16/2016 925h	Aqueous	Ammonia, Aqueous
1606395-002E	Cottonwood Spring	6/16/2016 925h	Aqueous	Mercury, Drinking Water Dissolved
1606395-002E	Cottonwood Spring	6/16/2016 925h	Aqueous	Ion Balance
1606395-002E	Cottonwood Spring	6/16/2016 925h	Aqueous	ICP Metals, Dissolved
1606395-002E	Cottonwood Spring	6/16/2016 925h	Aqueous	ICPMS Metals, Dissolved
1606395-003A	Ruin Spring	6/16/2016 1040h	Aqueous	VOA by GC/MS Method 8260C/5030C
1606395-003B	Ruin Spring	6/16/2016 1040h	Aqueous	Anions, E300.0
1606395-003B	Ruin Spring	6/16/2016 1040h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1606395-003C	Ruin Spring	6/16/2016 1040h	Aqueous	Total Dissolved Solids, A2540C
1606395-003D	Ruin Spring	6/16/2016 1040h	Aqueous	Nitrite/Nitrate (as N), E353.2
1606395-003D	Ruin Spring	6/16/2016 1040h	Aqueous	Ammonia, Aqueous
1606395-003E	Ruin Spring	6/16/2016 1040h	Aqueous	Mercury, Drinking Water Dissolved
1606395-003E	Ruin Spring	6/16/2016 1040h	Aqueous	Ion Balance
1606395-003E	Ruin Spring	6/16/2016 1040h	Aqueous	ICP Metals, Dissolved

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Set ID: 1606395
Date Received: 6/20/2016 850h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1606395-003E	Ruin Spring	6/16/2016 1040h	Aqueous	ICPMS Metals, Dissolved
1606395-004A	Back Spring	6/16/2016 925h	Aqueous	VOA by GC/MS Method 8260C/5030C
1606395-004B	Back Spring	6/16/2016 925h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1606395-004B	Back Spring	6/16/2016 925h	Aqueous	Anions, E300.0
1606395-004C	Back Spring	6/16/2016 925h	Aqueous	Total Dissolved Solids, A2540C
1606395-004D	Back Spring	6/16/2016 925h	Aqueous	Nitrite/Nitrate (as N), E353.2
1606395-004D	Back Spring	6/16/2016 925h	Aqueous	Ammonia, Aqueous
1606395-004E	Back Spring	6/16/2016 925h	Aqueous	Ion Balance
1606395-004E	Back Spring	6/16/2016 925h	Aqueous	ICP Metals, Dissolved
1606395-004E	Back Spring	6/16/2016 925h	Aqueous	ICPMS Metals, Dissolved
1606395-004E	Back Spring	6/16/2016 925h	Aqueous	Mercury, Drinking Water Dissolved
1606395-005A	Trip Blank	6/16/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: Seeps and Springs 2016
Lab Set ID: 1606395

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Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 6/20/2016
Date of Collection: 6/16/2016
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
1606395-001E	Calcium	MS	High analyte concentration
1606395-001D	Nitrate/Nitrite	MS	Sample matrix interference

Duplicate (DUP): The duplicate analysis for TDS was outside of the RPD limit due to suspected sample non-homogeneity or matrix interference.

Corrective Action: None required.

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Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	Seeps and Springs 2016
Lab Set ID:	1606395

Sample Receipt Information:

Date of Receipt:	6/20/2016
Date of Collection:	6/16/2016
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.

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: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS-43633	Date Analyzed:	06/30/2016 1557h											
Test Code: 200.7-DIS	Date Prepared:	06/21/2016 1534h											
Calcium	9.83	mg/L	E200.7	0.0579	1.00	10.00	0	98.3	85 - 115				
Magnesium	10.4	mg/L	E200.7	0.0495	1.00	10.00	0	104	85 - 115				
Potassium	9.93	mg/L	E200.7	0.121	1.00	10.00	0	99.3	85 - 115				
Sodium	9.96	mg/L	E200.7	0.0125	1.00	10.00	0	99.6	85 - 115				
Vanadium	0.190	mg/L	E200.7	0.000750	0.00500	0.2000	0	95.1	85 - 115				
Lab Sample ID: LCS-43634	Date Analyzed:	06/22/2016 824h											
Test Code: 200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic	0.197	mg/L	E200.8	0.000540	0.00200	0.2000	0	98.6	85 - 115				
Beryllium	0.208	mg/L	E200.8	0.000177	0.00200	0.2000	0	104	85 - 115				
Cadmium	0.197	mg/L	E200.8	0.0000666	0.000500	0.2000	0	98.3	85 - 115				
Chromium	0.199	mg/L	E200.8	0.000998	0.00200	0.2000	0	99.3	85 - 115				
Cobalt	0.196	mg/L	E200.8	0.0000990	0.00400	0.2000	0	98.0	85 - 115				
Copper	0.198	mg/L	E200.8	0.000862	0.00200	0.2000	0	98.9	85 - 115				
Iron	1.00	mg/L	E200.8	0.0274	0.100	1.000	0	100	85 - 115				
Lead	0.198	mg/L	E200.8	0.000125	0.00200	0.2000	0	99.0	85 - 115				
Manganese	0.200	mg/L	E200.8	0.000560	0.00200	0.2000	0	100	85 - 115				
Molybdenum	0.200	mg/L	E200.8	0.000202	0.00200	0.2000	0	100	85 - 115				
Nickel	0.199	mg/L	E200.8	0.000522	0.00200	0.2000	0	99.6	85 - 115				
Selenium	0.202	mg/L	E200.8	0.000310	0.00200	0.2000	0	101	85 - 115				
Silver	0.192	mg/L	E200.8	0.000132	0.00200	0.2000	0	95.9	85 - 115				
Thallium	0.195	mg/L	E200.8	0.0000500	0.00200	0.2000	0	97.6	85 - 115				
Tin	1.02	mg/L	E200.8	0.000372	0.00200	1.000	0	102	85 - 115				
Uranium	0.205	mg/L	E200.8	0.0000710	0.00200	0.2000	0	103	85 - 115				
Zinc	0.994	mg/L	E200.8	0.00452	0.00500	1.000	0	99.4	85 - 115				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS-43659	Date Analyzed:	06/23/2016 856h											
Test Code: HG-DW-DIS-245.1	Date Prepared:	06/22/2016 1403h											
Mercury	0.00342	mg/L	E245.1	0.00000559	0.000150	0.003330	0	103	85 - 115				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID:	**MB-43633**	Date Analyzed:	06/30/2016 1555h											
Test Code:	200.7-DIS	Date Prepared:	06/21/2016 1534h											
Calcium		< 1.00	mg/L	E200.7	0.0579	1.00								
Magnesium		< 1.00	mg/L	E200.7	0.0495	1.00								
Potassium		< 1.00	mg/L	E200.7	0.121	1.00								
Sodium		< 1.00	mg/L	E200.7	0.0125	1.00								
Vanadium		< 0.00500	mg/L	E200.7	0.000750	0.00500								
Lab Sample ID:	**MB-43634**	Date Analyzed:	06/22/2016 1119h											
Test Code:	200.8-DIS	Date Prepared:	06/21/2016 1534h											
Uranium		< 0.000200	mg/L	E200.8	0.00000710	0.000200								
Lab Sample ID:	**MB-43634**	Date Analyzed:	06/22/2016 821h											
Test Code:	200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic		< 0.00200	mg/L	E200.8	0.000540	0.00200								
Beryllium		< 0.00200	mg/L	E200.8	0.000177	0.00200								
Chromium		< 0.00200	mg/L	E200.8	0.000998	0.00200								
Cobalt		< 0.00400	mg/L	E200.8	0.0000990	0.00400								
Copper		< 0.00200	mg/L	E200.8	0.000862	0.00200								
Manganese		< 0.00200	mg/L	E200.8	0.000560	0.00200								
Molybdenum		< 0.00200	mg/L	E200.8	0.000202	0.00200								
Nickel		< 0.00200	mg/L	E200.8	0.000522	0.00200								
Selenium		< 0.00200	mg/L	E200.8	0.000310	0.00200								
Silver		< 0.00200	mg/L	E200.8	0.000132	0.00200								
Tin		< 0.00200	mg/L	E200.8	0.000372	0.00200								
Zinc		< 0.00500	mg/L	E200.8	0.00452	0.00500								
Lab Sample ID:	**MB-43634**	Date Analyzed:	06/22/2016 945h											
Test Code:	200.8-DIS	Date Prepared:	06/21/2016 1534h											
Cadmium		< 0.000125	mg/L	E200.8	0.0000167	0.000125								
Iron		< 0.0250	mg/L	E200.8	0.00685	0.0250								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID:	**MB-43634**	Date Analyzed:	06/22/2016 945h											
Test Code:	200.8-DIS	Date Prepared:	06/21/2016 1534h											
Lead		< 0.000500	mg/L	E200.8	0.0000312	0.000500								
Thallium		< 0.000500	mg/L	E200.8	0.0000125	0.000500								
Lab Sample ID:	**MB-43659**	Date Analyzed:	06/23/2016 855h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	06/22/2016 1403h											
Mercury		< 0.000150	mg/L	E245.1	0.00000559	0.000150								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID:	**1606395-001EMS**	Date Analyzed:	06/30/2016 1620h											
Test Code:	200.7-DIS	Date Prepared:	06/21/2016 1534h											
Calcium		138	mg/L	E200.7	0.579	10.0	10.00	131	68.2	70 - 130				2
Magnesium		47.2	mg/L	E200.7	0.495	10.0	10.00	38.6	86.8	70 - 130				
Sodium		98.5	mg/L	E200.7	0.125	10.0	10.00	90.8	76.8	70 - 130				
Lab Sample ID:	**1606395-001EMS**	Date Analyzed:	06/30/2016 1643h											
Test Code:	200.7-DIS	Date Prepared:	06/21/2016 1534h											
Potassium		10.7	mg/L	E200.7	0.121	1.00	10.00	0.796	99.5	70 - 130				
Vanadium		0.196	mg/L	E200.7	0.000750	0.00500	0.2000	0.00331	96.2	70 - 130				
Lab Sample ID:	**1606373-001EMS**	Date Analyzed:	06/22/2016 840h											
Test Code:	200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic		0.198	mg/L	E200.8	0.000540	0.00200	0.2000	0	98.9	75 - 125				
Beryllium		0.202	mg/L	E200.8	0.000177	0.00200	0.2000	0	101	75 - 125				
Cadmium		0.196	mg/L	E200.8	0.0000666	0.000500	0.2000	0.00016	97.7	75 - 125				
Chromium		0.201	mg/L	E200.8	0.000998	0.00200	0.2000	0	100	75 - 125				
Cobalt		0.192	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000685	95.8	75 - 125				
Copper		0.192	mg/L	E200.8	0.000862	0.00200	0.2000	0	95.8	75 - 125				
Iron		1.03	mg/L	E200.8	0.0274	0.100	1.000	0.0397	99.3	75 - 125				
Lead		0.192	mg/L	E200.8	0.000125	0.00200	0.2000	0	95.8	75 - 125				
Manganese		0.356	mg/L	E200.8	0.000560	0.00200	0.2000	0.158	99.1	75 - 125				
Molybdenum		0.208	mg/L	E200.8	0.000202	0.00200	0.2000	0.00249	103	75 - 125				
Nickel		0.196	mg/L	E200.8	0.000522	0.00200	0.2000	0.000977	97.5	75 - 125				
Selenium		0.194	mg/L	E200.8	0.000310	0.00200	0.2000	0	96.8	75 - 125				
Silver		0.185	mg/L	E200.8	0.000132	0.00200	0.2000	0.000101	92.4	75 - 125				
Thallium		0.190	mg/L	E200.8	0.0000500	0.00200	0.2000	0	95.1	75 - 125				
Tin		1.05	mg/L	E200.8	0.000372	0.00200	1.000	0	105	75 - 125				
Uranium		0.200	mg/L	E200.8	0.0000710	0.00200	0.2000	0.000869	99.6	75 - 125				
Zinc		1.01	mg/L	E200.8	0.00452	0.00500	1.000	0	101	75 - 125				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001EMS	Date Analyzed:	06/22/2016 914h											
Test Code: 200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic	0.197	mg/L	E200.8	0.000540	0.00200	0.2000	0.00178	97.6	75 - 125				
Beryllium	0.204	mg/L	E200.8	0.000177	0.00200	0.2000	0	102	75 - 125				
Cadmium	0.195	mg/L	E200.8	0.0000666	0.000500	0.2000	0	97.3	75 - 125				
Chromium	0.196	mg/L	E200.8	0.000998	0.00200	0.2000	0	97.8	75 - 125				
Cobalt	0.191	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000829	95.3	75 - 125				
Copper	0.189	mg/L	E200.8	0.000862	0.00200	0.2000	0	94.6	75 - 125				
Iron	1.07	mg/L	E200.8	0.0274	0.100	1.000	0.0945	97.6	75 - 125				
Lead	0.192	mg/L	E200.8	0.000125	0.00200	0.2000	0	95.8	75 - 125				
Manganese	0.402	mg/L	E200.8	0.000560	0.00200	0.2000	0.21	95.9	75 - 125				
Molybdenum	0.204	mg/L	E200.8	0.000202	0.00200	0.2000	0.0024	101	75 - 125				
Nickel	0.193	mg/L	E200.8	0.000522	0.00200	0.2000	0.000995	95.8	75 - 125				
Selenium	0.197	mg/L	E200.8	0.000310	0.00200	0.2000	0.00369	96.7	75 - 125				
Silver	0.187	mg/L	E200.8	0.000132	0.00200	0.2000	0	93.7	75 - 125				
Thallium	0.192	mg/L	E200.8	0.0000500	0.00200	0.2000	0	96.0	75 - 125				
Tin	1.03	mg/L	E200.8	0.000372	0.00200	1.000	0	103	75 - 125				
Uranium	0.220	mg/L	E200.8	0.0000710	0.00200	0.2000	0.0223	98.8	75 - 125				
Zinc	0.982	mg/L	E200.8	0.00452	0.00500	1.000	0	98.2	75 - 125				
Lab Sample ID: 1606395-001EMS	Date Analyzed:	06/23/2016 904h											
Test Code: HG-DW-DIS-245.1	Date Prepared:	06/22/2016 1403h											
Mercury	0.00324	mg/L	E245.1	0.00000559	0.000150	0.003330	0	97.4	85 - 115				

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

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001EMSD	Date Analyzed:	06/30/2016 1622h											
Test Code: 200.7-DIS	Date Prepared:	06/21/2016 1534h											
Calcium	139	mg/L	E200.7	0.579	10.0	10.00	131	81.1	70 - 130	138	0.939	20	
Magnesium	47.7	mg/L	E200.7	0.495	10.0	10.00	38.6	91.6	70 - 130	47.2	1.02	20	
Sodium	99.5	mg/L	E200.7	0.125	10.0	10.00	90.8	86.5	70 - 130	98.5	0.984	20	
Lab Sample ID: 1606395-001EMSD	Date Analyzed:	06/30/2016 1645h											
Test Code: 200.7-DIS	Date Prepared:	06/21/2016 1534h											
Potassium	10.9	mg/L	E200.7	0.121	1.00	10.00	0.796	101	70 - 130	10.7	1.34	20	
Vanadium	0.199	mg/L	E200.7	0.000750	0.00500	0.2000	0.00331	97.6	70 - 130	0.196	1.42	20	
Lab Sample ID: 1606373-001EMSD	Date Analyzed:	06/22/2016 843h											
Test Code: 200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic	0.200	mg/L	E200.8	0.000540	0.00200	0.2000	0	100	75 - 125	0.198	1.31	20	
Beryllium	0.205	mg/L	E200.8	0.000177	0.00200	0.2000	0	102	75 - 125	0.202	1.01	20	
Cadmium	0.198	mg/L	E200.8	0.0000666	0.000500	0.2000	0.00016	99.0	75 - 125	0.196	1.23	20	
Chromium	0.198	mg/L	E200.8	0.000998	0.00200	0.2000	0	98.8	75 - 125	0.201	1.48	20	
Cobalt	0.194	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000685	96.7	75 - 125	0.192	1.01	20	
Copper	0.193	mg/L	E200.8	0.000862	0.00200	0.2000	0	96.3	75 - 125	0.192	0.513	20	
Iron	1.03	mg/L	E200.8	0.0274	0.100	1.000	0.0397	99.2	75 - 125	1.03	0.0716	20	
Lead	0.194	mg/L	E200.8	0.000125	0.00200	0.2000	0	96.8	75 - 125	0.192	1.04	20	
Manganese	0.358	mg/L	E200.8	0.000560	0.00200	0.2000	0.158	100	75 - 125	0.356	0.483	20	
Molybdenum	0.210	mg/L	E200.8	0.000202	0.00200	0.2000	0.00249	104	75 - 125	0.208	0.800	20	
Nickel	0.197	mg/L	E200.8	0.000522	0.00200	0.2000	0.000977	98.0	75 - 125	0.196	0.474	20	
Selenium	0.195	mg/L	E200.8	0.000310	0.00200	0.2000	0	97.5	75 - 125	0.194	0.712	20	
Silver	0.188	mg/L	E200.8	0.000132	0.00200	0.2000	0.000101	93.8	75 - 125	0.185	1.47	20	
Thallium	0.192	mg/L	E200.8	0.0000500	0.00200	0.2000	0	95.9	75 - 125	0.19	0.876	20	
Tin	1.05	mg/L	E200.8	0.000372	0.00200	1.000	0	105	75 - 125	1.05	0.681	20	
Uranium	0.203	mg/L	E200.8	0.0000710	0.00200	0.2000	0.000869	101	75 - 125	0.2	1.24	20	
Zinc	1.01	mg/L	E200.8	0.00452	0.00500	1.000	0	101	75 - 125	1.01	0.535	20	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001EMSD	Date Analyzed:	06/22/2016 917h											
Test Code: 200.8-DIS	Date Prepared:	06/21/2016 1534h											
Arsenic	0.204	mg/L	E200.8	0.000540	0.00200	0.2000	0.00178	101	75 - 125	0.197	3.56	20	
Beryllium	0.209	mg/L	E200.8	0.000177	0.00200	0.2000	0	105	75 - 125	0.204	2.38	20	
Cadmium	0.200	mg/L	E200.8	0.0000666	0.000500	0.2000	0	100	75 - 125	0.195	2.82	20	
Chromium	0.199	mg/L	E200.8	0.000998	0.00200	0.2000	0	99.3	75 - 125	0.196	1.51	20	
Cobalt	0.196	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000829	97.3	75 - 125	0.191	2.11	20	
Copper	0.194	mg/L	E200.8	0.000862	0.00200	0.2000	0	97.2	75 - 125	0.189	2.70	20	
Iron	1.10	mg/L	E200.8	0.0274	0.100	1.000	0.0945	100	75 - 125	1.07	2.52	20	
Lead	0.197	mg/L	E200.8	0.000125	0.00200	0.2000	0	98.6	75 - 125	0.192	2.90	20	
Manganese	0.408	mg/L	E200.8	0.000560	0.00200	0.2000	0.21	99.1	75 - 125	0.402	1.57	20	
Molybdenum	0.210	mg/L	E200.8	0.000202	0.00200	0.2000	0.0024	104	75 - 125	0.204	2.98	20	
Nickel	0.198	mg/L	E200.8	0.000522	0.00200	0.2000	0.000995	98.6	75 - 125	0.193	2.89	20	
Selenium	0.201	mg/L	E200.8	0.000310	0.00200	0.2000	0.00369	98.5	75 - 125	0.197	1.84	20	
Silver	0.193	mg/L	E200.8	0.000132	0.00200	0.2000	0	96.5	75 - 125	0.187	2.95	20	
Thallium	0.196	mg/L	E200.8	0.0000500	0.00200	0.2000	0	98.2	75 - 125	0.192	2.28	20	
Tin	1.06	mg/L	E200.8	0.000372	0.00200	1.000	0	106	75 - 125	1.03	3.27	20	
Uranium	0.225	mg/L	E200.8	0.0000710	0.00200	0.2000	0.0223	101	75 - 125	0.22	2.31	20	
Zinc	1.01	mg/L	E200.8	0.00452	0.00500	1.000	0	101	75 - 125	0.982	2.45	20	
Lab Sample ID: 1606395-001EMSD	Date Analyzed:	06/23/2016 905h											
Test Code: HG-DW-DIS-245.1	Date Prepared:	06/22/2016 1403h											
Mercury	0.00339	mg/L	E245.1	0.00000559	0.000150	0.003330	0	102	85 - 115	0.00324	4.52	20	

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001CDUP Date Analyzed: 06/20/2016 1617h Test Code: TDS-W-2540C													
Total Dissolved Solids	872	mg/L	SM2540C	17.5	20.0					828	5.18	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: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS-R91572 Date Analyzed: 06/29/2016 2233h Test Code: 300.0-W													
Chloride	5.06	mg/L	E300.0	0.00516	0.100	5.000	0	101	90 - 110				
Fluoride	5.26	mg/L	E300.0	0.0139	0.100	5.000	0	105	90 - 110				
Sulfate	5.20	mg/L	E300.0	0.0201	0.750	5.000	0	104	90 - 110				
Lab Sample ID: LCS-R91248 Date Analyzed: 06/21/2016 900h Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-43763 Date Analyzed: 06/29/2016 1325h Test Code: NH3-W-350.1 Date Prepared: 06/29/2016 940h													
Ammonia (as N)	9.58	mg/L	E350.1	0.0185	0.0500	10.00	0	95.8	90 - 110				
Lab Sample ID: LCS-R91497 Date Analyzed: 06/28/2016 1849h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00833	0.0100	1.000	0	104	90 - 110				
Lab Sample ID: LCS-R91253 Date Analyzed: 06/20/2016 1617h Test Code: TDS-W-2540C													
Total Dissolved Solids	200	mg/L	SM2540C	8.77	10.0	205.0	0	97.6	80 - 120				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: MB-R91572	Date Analyzed:	06/29/2016 2216h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0139	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0201	0.750								
Lab Sample ID: MB-R91248	Date Analyzed:	06/21/2016 900h											
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-43763	Date Analyzed:	06/29/2016 1324h											
Test Code: NH3-W-350.1	Date Prepared:	06/29/2016 940h											
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0185	0.0500								
Lab Sample ID: MB-R91497	Date Analyzed:	06/28/2016 1848h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R91253	Date Analyzed:	06/20/2016 1617h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.77	10.0								

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-002BMS Date Analyzed: 06/29/2016 2306h													
Test Code: 300.0-W													
Chloride	1,170	mg/L	E300.0	1.03	20.0	1,000	138	103	90 - 110				
Fluoride	1,060	mg/L	E300.0	2.78	20.0	1,000	0	106	90 - 110				
Sulfate	1,450	mg/L	E300.0	4.02	150	1,000	443	101	90 - 110				
Lab Sample ID: 1606395-004BMS Date Analyzed: 06/21/2016 900h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	311	mg/L	SM2320B	0.504	1.00	50.00	261	98.6	80 - 120				
Lab Sample ID: 1606395-004DMS Date Analyzed: 06/29/2016 1329h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2016 940h													
Ammonia (as N)	10.8	mg/L	E350.1	0.0206	0.0556	11.11	0	96.8	90 - 110				
Lab Sample ID: 1606395-001DMS Date Analyzed: 06/28/2016 1838h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0.403	111	90 - 110				1

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

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-002BMSD Date Analyzed: 06/29/2016 2323h													
Test Code: 300.0-W													
Chloride	1,160	mg/L	E300.0	1.03	20.0	1,000	138	102	90 - 110	1170	0.820	20	
Fluoride	1,050	mg/L	E300.0	2.78	20.0	1,000	0	105	90 - 110	1060	0.934	20	
Sulfate	1,420	mg/L	E300.0	4.02	150	1,000	443	97.5	90 - 110	1450	2.47	20	
Lab Sample ID: 1606395-004BMSD Date Analyzed: 06/21/2016 900h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	311	mg/L	SM2320B	0.504	1.00	50.00	261	98.6	80 - 120	311	0	10	
Lab Sample ID: 1606395-004DMSD Date Analyzed: 06/29/2016 1330h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2016 940h													
Ammonia (as N)	10.9	mg/L	E350.1	0.0206	0.0556	11.11	0	97.9	90 - 110	10.8	1.11	10	
Lab Sample ID: 1606395-001DMSD Date Analyzed: 06/28/2016 1839h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.3	mg/L	E353.2	0.0833	0.100	10.00	0.403	109	90 - 110	11.5	1.93	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS VOC-1 062116A Date Analyzed: 06/21/2016 1227h													
Test Code: 8260-W-DEN100													
Benzene	18.2	µg/L	SW8260C	0.270	1.00	20.00	0	91.0	82 - 132				
Chloroform	19.1	µg/L	SW8260C	0.153	1.00	20.00	0	95.3	85 - 124				
Methylene chloride	18.8	µg/L	SW8260C	0.172	1.00	20.00	0	93.8	81 - 135				
Naphthalene	15.1	µg/L	SW8260C	0.587	1.00	20.00	0	75.6	63 - 129				
Tetrahydrofuran	18.6	µg/L	SW8260C	0.516	1.00	20.00	0	92.8	59 - 120				
Toluene	17.6	µg/L	SW8260C	0.183	1.00	20.00	0	87.9	78 - 130				
Xylenes, Total	52.8	µg/L	SW8260C	0.857	1.00	60.00	0	87.9	70 - 138				
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	80 - 122				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.2	85 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260C			50.00		104	80 - 116				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.5	81 - 123				

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: MB VOC-1 062116A Date Analyzed: 06/21/2016 1306h													
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	54.8	µg/L	SW8260C			50.00		110	80 - 122				
Surr: 4-Bromofluorobenzene	51.4	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	53.3	µg/L	SW8260C			50.00		107	80 - 116				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001AMS Date Analyzed: 06/21/2016 1824h													
Test Code: 8260-W-DEN100													
Benzene	20.6	µg/L	SW8260C	0.270	1.00	20.00	0	103	66 - 145				
Chloroform	19.9	µg/L	SW8260C	0.153	1.00	20.00	0	99.4	50 - 146				
Methylene chloride	22.3	µg/L	SW8260C	0.172	1.00	20.00	0	112	30 - 192				
Naphthalene	15.7	µg/L	SW8260C	0.587	1.00	20.00	0	78.4	41 - 131				
Tetrahydrofuran	21.1	µg/L	SW8260C	0.516	1.00	20.00	0	106	43 - 146				
Toluene	19.6	µg/L	SW8260C	0.183	1.00	20.00	0	98.0	18 - 192				
Xylenes, Total	57.6	µg/L	SW8260C	0.857	1.00	60.00	0	95.9	42 - 167				
Surr: 1,2-Dichloroethane-d4	50.4	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	46.9	µg/L	SW8260C			50.00		93.9	80 - 152				
Surr: Dibromofluoromethane	48.8	µg/L	SW8260C			50.00		97.6	80 - 124				
Surr: Toluene-d8	46.1	µg/L	SW8260C			50.00		92.1	77 - 129				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1606395
Project: Seeps and Springs 2016

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
Lab Sample ID: 1606395-001AMSD Date Analyzed: 06/21/2016 1844h													
Test Code: 8260-W-DEN100													
Benzene	21.1	µg/L	SW8260C	0.270	1.00	20.00	0	105	66 - 145	20.7	1.97	25	
Chloroform	20.0	µg/L	SW8260C	0.153	1.00	20.00	0	100	50 - 146	19.9	0.752	25	
Methylene chloride	22.2	µg/L	SW8260C	0.172	1.00	20.00	0	111	30 - 192	22.3	0.224	25	
Naphthalene	16.1	µg/L	SW8260C	0.587	1.00	20.00	0	80.7	41 - 131	15.7	2.83	25	
Tetrahydrofuran	20.7	µg/L	SW8260C	0.516	1.00	20.00	0	104	43 - 146	21.1	1.72	25	
Toluene	19.6	µg/L	SW8260C	0.183	1.00	20.00	0	98.0	18 - 192	19.6	0.0510	25	
Xylenes, Total	57.6	µg/L	SW8260C	0.857	1.00	60.00	0	96.1	42 - 167	57.6	0.139	25	
Surr: 1,2-Dichloroethane-d4	50.1	µg/L	SW8260C			50.00		100	72 - 151				
Surr: 4-Bromofluorobenzene	47.6	µg/L	SW8260C			50.00		95.3	80 - 152				
Surr: Dibromofluoromethane	48.7	µg/L	SW8260C			50.00		97.5	80 - 124				
Surr: Toluene-d8	45.7	µg/L	SW8260C			50.00		91.4	77 - 129				

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UL
Denison

WORK ORDER Summary

Work Order: **1606395**

Client: Energy Fuels Resources, Inc. Due Date: 7/5/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **Seeps and Springs 2016** **QC Level:** III WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Run NO2/NO3 as a 10X. Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1606395-001A	**Entrance Seep**	6/16/2016 0820h	6/20/2016 0850h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1606395-001B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
1606395-001C				**TDS-W-2540C**			ww - tds	
				1 SEL Analytes: TDS				
1606395-001D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1606395-001E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1606395-002A	**Cottonwood Spring**	6/16/2016 0925h	6/20/2016 0850h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1606395-002B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				

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WORK ORDER Summary

Work Order: **1606395**

Client: Energy Fuels Resources, Inc. Due Date: 7/5/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1606395-002C	**Cottonwood Spring**	6/16/2016 0925h	6/20/2016 0850h	**TDS-W-2540C**	Aqueous		ww - tds	1
				1 SEL Analytes: TDS				
1606395-002D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1606395-002E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1606395-003A	**Ruin Spring**	6/16/2016 1040h	6/20/2016 0850h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1606395-003B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
1606395-003C				**TDS-W-2540C**			ww - tds	
				1 SEL Analytes: TDS				
1606395-003D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1606395-003E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	

WORK ORDER Summary

Work Order: **1606395**

Client: Energy Fuels Resources, Inc.

Due Date: 7/5/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1606395-003E	**Ruin Spring**	6/16/2016 1040h	6/20/2016 0850h	**HG-DW-DIS-245.1**	Aqueous		df-met	1
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1606395-004A	**Back Spring**	6/16/2016 0925h	6/20/2016 0850h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1606395-004B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
1606395-004C				**TDS-W-2540C**			ww - tds	
				1 SEL Analytes: TDS				
1606395-004D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1606395-004E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1606395-005A	**Trip Blank**	6/16/2016	6/20/2016 0850h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				

Printed: 6/20/2016 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

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

CHAIN OF CUSTODY

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

1606395
AWAL Lab Sample Set #
Page 1 of 1

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: 435 459 9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **Seeps and Springs 2016**
Project #:
PO #:
Sampler Name: **Garrin Palmer**

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

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

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo,	Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1	**Entrance Seep**	**6/16/2016**	**820**	7	W	x	x	x	x	x	x	x	x	x	x	
2	**Cottonwood Spring**	**6/16/2016**	**925**	7	W	x	x	x	x	x	x	x	x	x	x	
3	**Ruin Spring**	**6/16/2016**	**1040**	7	W	x	x	x	x	x	x	x	x	x	x	
4	**Back Spring**	**6/16/2016**	**925**	7	W	x	x	x	x	x	x	x	x	x	x	
5	**Trip Blank**	**6/16/2016**		3	W										x	
6	**Temp Blank**															
7																
8																
9																
10																
11																
12																

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.4 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Garrin Palmer	6/20/16	0850	Elma Hg	6/20/16	8:50
Print Name: Garrin Palmer			Print Name: Elma + Kyle		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		

Special Instructions:

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

Lab Set ID: 1606395

pH Lot 5004

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4														
Ammonia	pH <2 H_2SO_4	Yes	Yes	Yes	Yes														
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	Yes	Yes	Yes	Yes														
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes														
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

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

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

July 20, 2016

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

Re: GW Monitoring Project
Work Order: 399853

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 22, 2016. 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. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
GW Monitoring Project
SDG: 399853

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 399853

July 20, 2016

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 22, 2016 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
399853001	Entrance Seep
399853002	Cottonwood Spring
399853003	Ruin Spring
399853004	Back Spring

Case Narrative:

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

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

Julie Robinson

Julie Robinson
Project Manager

399853

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 4115
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Annual Seeps and Springs 2016	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
Entrance Seep	6/16/2016	820	Gross Alpha
Cottonwood Spring	6/16/2016	925	Gross Alpha
Ruin Spring	6/16/2016	1040	Gross Alpha
Back Spring	6/16/2016	925	Gross Alpha

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer Garrin Palmer	6/21/16 1230	Dan Hillard	6-22-16 0930
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	SDG/AR/COC/Work Order: 399853
Received By: Sara Gronbeck	Date Received: 6/22/16

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?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice (None) Other (describe) *all temperatures are recorded in Celsius 23°C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): ES102009184
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials contain acid preservation?		✓		(If unknown, select No)
8	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
9	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
10	Samples received within holding time?	✓			ID's and tests affected:
11	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
12	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
13	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
14	Are sample containers identifiable as GEL provided?	✓			
15	COC form is properly signed in relinquished/received sections?	✓			
16	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground (UPS) Field Services Courier Other 1Z 187 444 01 9888 6976

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JR Date 6/22/16 Page 1 of 1

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG: 399853 **Annual Seeps and Springs 2016**
Client SDG: 399853
Project Manager: Julie Robinson
Project Name: DNMI00106 GW Monitoring Project
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 21-JUL-16
Package Due Date: 19-JUL-16
EDD Due Date: 21-JUL-16
Due Date: 21-JUL-16
JAR1

Collector: C
Prelogin #: 20150631907
Project Workdef ID: 1329132
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
399853001	Entrance Seep		16-JUN-16 08:20	22-JUN-16 09:30	-2	1	GROUND WATER		20		1		
399853002	Cottonwood Spring		16-JUN-16 09:25	22-JUN-16 09:30	-2	1	GROUND WATER		20		1		
399853003	Ruin Spring		16-JUN-16 10:40	22-JUN-16 09:30	-2	1	GROUND WATER		20		1		
399853004	Back Spring		16-JUN-16 09:25	22-JUN-16 09:30	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 Entrance Seep	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y	
						Temperature (C)	23	
-002 Cottonwood Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y	
						Temperature (C)	23	
-003 Ruin Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y	
						Temperature (C)	23	
-004 Back Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y	
						Temperature (C)	23	

Product: GFCTORAL **Workdef ID:** 1329138 **In Product Group?** No **Group Name:** **Group Reference:**
Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001, 002, 003, 004
Parmname Check: All parmnames scheduled properly
Path: Standard
Product Reference: Gross Alpha
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	No

GEL Laboratories LLC – Login Review Report

	Action	Product Name	Description	Samples
Contingent Tests				

Login Requirements:

Requirement	Include?	Comments

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

List of current GEL Certifications as of 20 July 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 399853

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1581965

Sample ID	Client ID
399853001	Entrance Seep
399853002	Cottonwood Spring
399853003	Ruin Spring
399853004	Back Spring
1203585406	Method Blank (MB)
1203585410	Laboratory Control Sample (LCS)
1203585407	399853004(Back Spring) Sample Duplicate (DUP)
1203585408	399853004(Back Spring) Matrix Spike (MS)
1203585409	399853004(Back Spring) Matrix Spike Duplicate (MSD)

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.

QC Information

All of the QC samples met the required acceptance limits.

Designated QC
The following sample was used for QC: 399853004 (Back Spring).

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.

Recounts
Sample 1203585410 (LCS) was recounted due to low recovery. The recount is reported.

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.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
The matrix spike and matrix spike duplicate, 1203585408 (Back SpringMS) and 1203585409 (Back SpringMSD), 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: 399853 GEL Work Order: 399853

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: 18 JUL 2016 **Title: Analyst I**

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

QC Summary

Report Date: July 18, 2016

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

Workorder: **399853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1581965										
QC1203585407 399853004 DUP										
Gross Radium Alpha	U	0.126	U	-0.123	pCi/L	N/A			N/AAXM6	07/07/16 07:3
	Uncertainty	+/-0.193		+/-0.210						
QC1203585410 LCS										
Gross Radium Alpha	413			378	pCi/L		91.6	(75%-125%)		07/07/16 11:2
	Uncertainty			+/-6.11						
QC1203585406 MB										
Gross Radium Alpha			U	-1.11	pCi/L					07/07/16 07:3
	Uncertainty			+/-0.214						
QC1203585408 399853004 MS										
Gross Radium Alpha	1670 U	0.126		1620	pCi/L		97.5	(75%-125%)		07/07/16 07:3
	Uncertainty	+/-0.193		+/-23.7						
QC1203585409 399853004 MSD										
Gross Radium Alpha	1670 U	0.126		1710	pCi/L	4.88	102	(0%-20%)		07/07/16 07:3
	Uncertainty	+/-0.193		+/-23.7						

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

QC Summary

Workorder: 399853

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 or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: Seeps and Springs 2016

Dear Garrin Palmer: Lab Set ID: 1610506

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received sample(s) on 10/26/2016 for the analyses presented in the following report.

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

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

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

Thank You,

Approved by: Jose G. Rocha
Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2016.11.09 14:07:19 -07'00'

Laboratory Director or designee

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Set ID: 1610506
Date Received: 10/26/2016 1030h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1610506-001A	Westwater Seep	10/24/2016 1010h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610506-001B	Westwater Seep	10/24/2016 1010h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1610506-001B	Westwater Seep	10/24/2016 1010h	Aqueous	Anions, E300.0
1610506-001C	Westwater Seep	10/24/2016 1010h	Aqueous	Total Dissolved Solids, A2540C
1610506-001D	Westwater Seep	10/24/2016 1010h	Aqueous	Ammonia, Aqueous
1610506-001D	Westwater Seep	10/24/2016 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610506-001E	Westwater Seep	10/24/2016 1010h	Aqueous	Mercury, Drinking Water Dissolved
1610506-001E	Westwater Seep	10/24/2016 1010h	Aqueous	ICPMS Metals, Dissolved
1610506-001E	Westwater Seep	10/24/2016 1010h	Aqueous	ICP Metals, Dissolved
1610506-001E	Westwater Seep	10/24/2016 1010h	Aqueous	Ion Balance
1610506-002A	Trip Blank	10/24/2016	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:	Seeps and Springs 2016
Lab Set ID:	1610506

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Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	10/24/2016
Date of Collection:	10/24/2016
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: the MS and/or MSD percent recoveries for Calcium and Sodium on sample 1610506-001E were outside of the control limits due to high analyte concentration.

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: the RPD for Total Dissolved Solids on sample 1610506-001C was outside of the 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:	Seeps and Springs 2016
Lab Set ID:	1610506

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	10/24/2016
Date of Collection:	10/24/2016
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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Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: Seeps and Springs 2016
Lab Sample ID: 1610506-002A
Client Sample ID: Trip Blank
Collection Date: 10/24/2016
Received Date: 10/26/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/26/2016 1359h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	56.0	50.00	112	80-124	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	77-129	

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS-45704	Date Analyzed:	11/07/2016 1401h											
Test Code: 200.7-DIS	Date Prepared:	10/27/2016 1309h											
Calcium	9.99	mg/L	E200.7	0.0579	1.00	10.00	0	99.9	85 - 115				
Magnesium	10.4	mg/L	E200.7	0.0495	1.00	10.00	0	104	85 - 115				
Potassium	10.2	mg/L	E200.7	0.121	1.00	10.00	0	102	85 - 115				
Sodium	10.4	mg/L	E200.7	0.0125	1.00	10.00	0	104	85 - 115				
Vanadium	0.192	mg/L	E200.7	0.000750	0.00500	0.2000	0	95.8	85 - 115				
Lab Sample ID: LCS-45706	Date Analyzed:	10/28/2016 1455h											
Test Code: 200.8-DIS	Date Prepared:	10/27/2016 1309h											
Arsenic	0.188	mg/L	E200.8	0.000540	0.00200	0.2000	0	94.1	85 - 115				
Beryllium	0.205	mg/L	E200.8	0.000177	0.00200	0.2000	0	103	85 - 115				
Cadmium	0.197	mg/L	E200.8	0.0000666	0.000500	0.2000	0	98.7	85 - 115				
Chromium	0.200	mg/L	E200.8	0.000998	0.00200	0.2000	0	100	85 - 115				
Cobalt	0.194	mg/L	E200.8	0.0000990	0.00400	0.2000	0	96.8	85 - 115				
Copper	0.197	mg/L	E200.8	0.000862	0.00200	0.2000	0	98.6	85 - 115				
Iron	1.01	mg/L	E200.8	0.0274	0.100	1.000	0	101	85 - 115				
Lead	0.200	mg/L	E200.8	0.000125	0.00200	0.2000	0	100	85 - 115				
Manganese	0.204	mg/L	E200.8	0.000560	0.00200	0.2000	0	102	85 - 115				
Molybdenum	0.201	mg/L	E200.8	0.000202	0.00200	0.2000	0	101	85 - 115				
Nickel	0.197	mg/L	E200.8	0.000522	0.00200	0.2000	0	98.7	85 - 115				
Selenium	0.195	mg/L	E200.8	0.000310	0.00200	0.2000	0	97.6	85 - 115				
Silver	0.198	mg/L	E200.8	0.000132	0.00200	0.2000	0	98.8	85 - 115				
Thallium	0.196	mg/L	E200.8	0.0000500	0.00200	0.2000	0	98.1	85 - 115				
Tin	1.04	mg/L	E200.8	0.000372	0.00200	1.000	0	104	85 - 115				
Uranium	0.211	mg/L	E200.8	0.0000710	0.00200	0.2000	0	105	85 - 115				
Zinc	0.992	mg/L	E200.8	0.00452	0.00500	1.000	0	99.2	85 - 115				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID:	**LCS-45702**	Date Analyzed:	10/28/2016 721h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	10/27/2016 1530h											
Mercury		0.00328	mg/L	E245.1	0.00000559	0.000150	0.003330	0	98.6	85 - 115				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: MB-45704	Date Analyzed:	11/07/2016 1359h											
Test Code: 200.7-DIS	Date Prepared:	10/27/2016 1309h											
Calcium	< 1.00	mg/L	E200.7	0.0579	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0495	1.00								
Potassium	< 1.00	mg/L	E200.7	0.121	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0125	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000750	0.00500								
Lab Sample ID: MB-45706	Date Analyzed:	10/28/2016 1451h											
Test Code: 200.8-DIS	Date Prepared:	10/27/2016 1309h											
Arsenic	< 0.00200	mg/L	E200.8	0.000540	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000666	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000998	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000990	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000862	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.000560	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000202	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000522	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000310	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000132	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000372	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00452	0.00500								
Lab Sample ID: MB-45706	Date Analyzed:	10/28/2016 1523h											
Test Code: 200.8-DIS	Date Prepared:	10/27/2016 1309h											
Beryllium	< 0.000500	mg/L	E200.8	0.0000443	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00685	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000312	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000125	0.000500								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID:	**MB-45706**	Date Analyzed:	10/28/2016 1553h											
Test Code:	200.8-DIS	Date Prepared:	10/27/2016 1309h											
Uranium		< 0.000200	mg/L	E200.8	0.00000710	0.000200								
Lab Sample ID:	**MB-45702**	Date Analyzed:	10/28/2016 719h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	10/27/2016 1530h											
Mercury		< 0.000150	mg/L	E245.1	0.00000559	0.000150								

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610506-001EMS	Date Analyzed:	11/07/2016 1409h											
Test Code: 200.7-DIS	Date Prepared:	10/27/2016 1309h											
Calcium	177	mg/L	E200.7	0.579	10.0	10.00	176	10.4	70 - 130				#
Magnesium	54.5	mg/L	E200.7	0.495	10.0	10.00	47.3	72.1	70 - 130				
Sodium	186	mg/L	E200.7	0.125	10.0	10.00	185	8.45	70 - 130				#
Lab Sample ID: 1610506-001EMS	Date Analyzed:	11/07/2016 1549h											
Test Code: 200.7-DIS	Date Prepared:	10/27/2016 1309h											
Potassium	12.5	mg/L	E200.7	0.121	1.00	10.00	2.32	102	70 - 130				
Vanadium	0.187	mg/L	E200.7	0.000750	0.00500	0.2000	0	93.5	70 - 130				
Lab Sample ID: 1610506-001EMS	Date Analyzed:	10/28/2016 1507h											
Test Code: 200.8-DIS	Date Prepared:	10/27/2016 1309h											
Arsenic	0.193	mg/L	E200.8	0.000540	0.00200	0.2000	0.00116	95.7	75 - 125				
Beryllium	0.194	mg/L	E200.8	0.000177	0.00200	0.2000	0	96.8	75 - 125				
Cadmium	0.190	mg/L	E200.8	0.0000666	0.000500	0.2000	0	94.9	75 - 125				
Chromium	0.192	mg/L	E200.8	0.000998	0.00200	0.2000	0	96.1	75 - 125				
Cobalt	0.185	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000321	92.5	75 - 125				
Copper	0.187	mg/L	E200.8	0.000862	0.00200	0.2000	0	93.7	75 - 125				
Iron	1.01	mg/L	E200.8	0.0274	0.100	1.000	0.0401	97.2	75 - 125				
Lead	0.189	mg/L	E200.8	0.000125	0.00200	0.2000	0	94.5	75 - 125				
Manganese	0.248	mg/L	E200.8	0.000560	0.00200	0.2000	0.0555	96.5	75 - 125				
Molybdenum	0.209	mg/L	E200.8	0.000202	0.00200	0.2000	0.0078	101	75 - 125				
Nickel	0.190	mg/L	E200.8	0.000522	0.00200	0.2000	0.000555	94.7	75 - 125				
Selenium	0.190	mg/L	E200.8	0.000310	0.00200	0.2000	0.00223	93.8	75 - 125				
Silver	0.187	mg/L	E200.8	0.000132	0.00200	0.2000	0	93.3	75 - 125				
Thallium	0.186	mg/L	E200.8	0.0000500	0.00200	0.2000	0	93.1	75 - 125				
Tin	1.04	mg/L	E200.8	0.000372	0.00200	1.000	0.00102	104	75 - 125				
Uranium	0.223	mg/L	E200.8	0.0000710	0.00200	0.2000	0.019	102	75 - 125				
Zinc	0.958	mg/L	E200.8	0.00452	0.00500	1.000	0	95.8	75 - 125				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID:	**1610506-001EMS**	Date Analyzed:	10/28/2016 728h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	10/27/2016 1530h											
Mercury		0.00334	mg/L	E245.1	0.00000559	0.000150	0.003330	0	100	85 - 115				

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

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID:	**1610506-001EMSD**	Date Analyzed:	11/07/2016 1411h											
Test Code:	200.7-DIS	Date Prepared:	10/27/2016 1309h											
Calcium		183	mg/L	E200.7	0.579	10.0	10.00	176	68.0	70 - 130	177	3.20	20	J
Magnesium		55.9	mg/L	E200.7	0.495	10.0	10.00	47.3	86.2	70 - 130	54.5	2.57	20	
Sodium		192	mg/L	E200.7	0.125	10.0	10.00	185	72.5	70 - 130	186	3.38	20	
Lab Sample ID:	**1610506-001EMSD**	Date Analyzed:	11/07/2016 1551h											
Test Code:	200.7-DIS	Date Prepared:	10/27/2016 1309h											
Potassium		13.1	mg/L	E200.7	0.121	1.00	10.00	2.32	108	70 - 130	12.5	4.37	20	
Vanadium		0.195	mg/L	E200.7	0.000750	0.00500	0.2000	0	97.4	70 - 130	0.187	4.04	20	
Lab Sample ID:	**1610506-001EMSD**	Date Analyzed:	10/28/2016 1510h											
Test Code:	200.8-DIS	Date Prepared:	10/27/2016 1309h											
Arsenic		0.200	mg/L	E200.8	0.000540	0.00200	0.2000	0.00116	99.4	75 - 125	0.193	3.70	20	
Beryllium		0.202	mg/L	E200.8	0.000177	0.00200	0.2000	0	101	75 - 125	0.194	4.25	20	
Cadmium		0.197	mg/L	E200.8	0.0000666	0.000500	0.2000	0	98.7	75 - 125	0.19	3.88	20	
Chromium		0.201	mg/L	E200.8	0.000998	0.00200	0.2000	0	100	75 - 125	0.192	4.30	20	
Cobalt		0.196	mg/L	E200.8	0.0000990	0.00400	0.2000	0.000321	97.9	75 - 125	0.185	5.72	20	
Copper		0.197	mg/L	E200.8	0.000862	0.00200	0.2000	0	98.3	75 - 125	0.187	4.88	20	
Iron		1.06	mg/L	E200.8	0.0274	0.100	1.000	0.0401	102	75 - 125	1.01	4.54	20	
Lead		0.196	mg/L	E200.8	0.000125	0.00200	0.2000	0	98.2	75 - 125	0.189	3.82	20	
Manganese		0.261	mg/L	E200.8	0.000560	0.00200	0.2000	0.0555	103	75 - 125	0.248	4.80	20	
Molybdenum		0.215	mg/L	E200.8	0.000202	0.00200	0.2000	0.0078	104	75 - 125	0.209	2.80	20	
Nickel		0.199	mg/L	E200.8	0.000522	0.00200	0.2000	0.000555	99.2	75 - 125	0.19	4.69	20	
Selenium		0.198	mg/L	E200.8	0.000310	0.00200	0.2000	0.00223	97.9	75 - 125	0.19	4.25	20	
Silver		0.192	mg/L	E200.8	0.000132	0.00200	0.2000	0	96.2	75 - 125	0.187	3.11	20	
Thallium		0.193	mg/L	E200.8	0.0000500	0.00200	0.2000	0	96.7	75 - 125	0.186	3.82	20	
Tin		1.08	mg/L	E200.8	0.000372	0.00200	1.000	0.00102	107	75 - 125	1.04	3.44	20	
Uranium		0.231	mg/L	E200.8	0.0000710	0.00200	0.2000	0.019	106	75 - 125	0.223	3.85	20	
Zinc		0.982	mg/L	E200.8	0.00452	0.00500	1.000	0	98.2	75 - 125	0.958	2.54	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID:	**1610506-001EMSD**	Date Analyzed:	10/28/2016 730h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	10/27/2016 1530h											
Mercury		0.00334	mg/L	E245.1	0.00000559	0.000150	0.003330	0	100	85 - 115	0.00334	0.150	20	

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

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610506-001CDUP Date Analyzed: 10/27/2016 1320h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,150	mg/L	SM2540C	43.9	50.0					1060	8.14	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: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS-R95632 Date Analyzed: 11/07/2016 958h													
Test Code: 300.0-W													
Chloride	5.39	mg/L	E300.0	0.00516	0.100	5.000	0	108	90 - 110				
Fluoride	5.25	mg/L	E300.0	0.0139	0.100	5.000	0	105	90 - 110				
Sulfate	5.34	mg/L	E300.0	0.0201	0.750	5.000	0	107	90 - 110				
Lab Sample ID: LCS-R95257 Date Analyzed: 10/27/2016 905h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-45694 Date Analyzed: 10/27/2016 1129h													
Test Code: NH3-W-350.1 Date Prepared: 10/27/2016 900h													
Ammonia (as N)	9.34	mg/L	E350.1	0.0185	0.0500	10.00	0	93.4	90 - 110				
Lab Sample ID: LCS-R95240 Date Analyzed: 10/26/2016 1651h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00833	0.0100	1.000	0	101	90 - 110				
Lab Sample ID: LCS-R95314 Date Analyzed: 10/27/2016 1320h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	192	mg/L	SM2540C	8.77	10.0	205.0	0	93.7	80 - 120				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: MB-R95632	Date Analyzed:	11/07/2016 1015h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0139	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0201	0.750								
Lab Sample ID: MB-R95257	Date Analyzed:	10/27/2016 905h											
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-45694	Date Analyzed:	10/27/2016 1128h											
Test Code: NH3-W-350.1	Date Prepared:	10/27/2016 900h											
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0185	0.0500								
Lab Sample ID: MB-R95240	Date Analyzed:	10/26/2016 1648h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R95314	Date Analyzed:	10/27/2016 1320h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.77	10.0								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610561-008AMS Date Analyzed: 11/07/2016 1106h Test Code: 300.0-W													
Chloride	170	mg/L	E300.0	0.103	2.00	100.0	60.1	110	90 - 110				
Lab Sample ID: 1610506-001BMS Date Analyzed: 11/07/2016 1631h Test Code: 300.0-W													
Chloride	1,100	mg/L	E300.0	1.03	20.0	1,000	38	107	90 - 110				
Fluoride	1,040	mg/L	E300.0	2.78	20.0	1,000	0	104	90 - 110				
Sulfate	1,620	mg/L	E300.0	4.02	150	1,000	573	105	90 - 110				
Lab Sample ID: 1610506-001BMS Date Analyzed: 10/27/2016 905h Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	448	mg/L	SM2320B	0.504	1.00	50.00	399	98.4	80 - 120				
Lab Sample ID: 1610506-001DMS Date Analyzed: 10/27/2016 1142h Test Code: NH3-W-350.1 Date Prepared: 10/27/2016 900h													
Ammonia (as N)	11.0	mg/L	E350.1	0.0206	0.0556	11.11	0.0214	98.8	90 - 110				
Lab Sample ID: 1610506-001DMS Date Analyzed: 10/26/2016 1749h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0833	0.100	10.00	0	105	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610561-008AMSD Date Analyzed: 11/07/2016 1123h													
Test Code: 300.0-W													
Chloride	170	mg/L	E300.0	0.103	2.00	100.0	60.1	109	90 - 110	170	0.485	20	
Lab Sample ID: 1610506-001BMSD Date Analyzed: 11/07/2016 1648h													
Test Code: 300.0-W													
Chloride	1,100	mg/L	E300.0	1.03	20.0	1,000	38	106	90 - 110	1100	0.280	20	
Fluoride	1,040	mg/L	E300.0	2.78	20.0	1,000	0	104	90 - 110	1040	0.242	20	
Sulfate	1,600	mg/L	E300.0	4.02	150	1,000	573	103	90 - 110	1620	1.37	20	
Lab Sample ID: 1610506-001BMSD Date Analyzed: 10/27/2016 905h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	448	mg/L	SM2320B	0.504	1.00	50.00	399	96.6	80 - 120	448	0.201	10	
Lab Sample ID: 1610506-001DMSD Date Analyzed: 10/27/2016 1143h													
Test Code: NH3-W-350.1 Date Prepared: 10/27/2016 900h													
Ammonia (as N)	11.2	mg/L	E350.1	0.0206	0.0556	11.11	0.0214	101	90 - 110	11	1.92	10	
Lab Sample ID: 1610506-001DMSD Date Analyzed: 10/26/2016 1751h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0833	0.100	10.00	0	105	90 - 110	10.5	0.0952	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: LCS VOC-1 102616A Date Analyzed: 10/26/2016 1122h													
Test Code: 8260-W-DEN100													
Benzene	19.6	µg/L	SW8260C	0.270	1.00	20.00	0	97.8	82 - 132				
Chloroform	19.7	µg/L	SW8260C	0.153	1.00	20.00	0	98.6	85 - 124				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	71 - 135				
Naphthalene	13.9	µg/L	SW8260C	0.587	1.00	20.00	0	69.7	63 - 129				
Tetrahydrofuran	17.7	µg/L	SW8260C	0.516	1.00	20.00	0	88.5	59 - 120				
Toluene	18.7	µg/L	SW8260C	0.183	1.00	20.00	0	93.6	78 - 130				
Xylenes, Total	51.4	µg/L	SW8260C	0.857	1.00	60.00	0	85.6	70 - 138				
Surr: 1,2-Dichloroethane-d4	54.6	µg/L	SW8260C			50.00		109	80 - 122				
Surr: 4-Bromofluorobenzene	48.5	µg/L	SW8260C			50.00		97.0	85 - 121				
Surr: Dibromofluoromethane	53.5	µg/L	SW8260C			50.00		107	80 - 116				
Surr: Toluene-d8	50.0	µg/L	SW8260C			50.00		100	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: MB VOC-1 102616A Date Analyzed: 10/26/2016 1201h													
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	57.6	µg/L	SW8260C			50.00		115	80 - 122				
Surr: 4-Bromofluorobenzene	52.1	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	55.7	µg/L	SW8260C			50.00		111	80 - 116				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610506-001AMS Date Analyzed: 10/26/2016 1600h													
Test Code: 8260-W-DEN100													
Benzene	23.2	µg/L	SW8260C	0.270	1.00	20.00	0	116	66 - 145				
Chloroform	21.5	µg/L	SW8260C	0.153	1.00	20.00	0	107	50 - 146				
Methylene chloride	22.8	µg/L	SW8260C	0.172	1.00	20.00	0	114	30 - 192				
Naphthalene	17.0	µg/L	SW8260C	0.587	1.00	20.00	0	84.8	41 - 131				
Tetrahydrofuran	21.5	µg/L	SW8260C	0.516	1.00	20.00	0	107	43 - 146				
Toluene	23.2	µg/L	SW8260C	0.183	1.00	20.00	0	116	18 - 192				
Xylenes, Total	61.2	µg/L	SW8260C	0.857	1.00	60.00	0	102	42 - 167				
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	50.3	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	51.6	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.8	77 - 129				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610506
Project: Seeps and Springs 2016

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
Lab Sample ID: 1610506-001AMSD	Date Analyzed:	10/26/2016 1619h											
Test Code: 8260-W-DEN100													
Benzene	22.0	µg/L	SW8260C	0.270	1.00	20.00	0	110	66 - 145	23.2	5.09	25	
Chloroform	21.0	µg/L	SW8260C	0.153	1.00	20.00	0	105	50 - 146	21.5	2.02	25	
Methylene chloride	22.3	µg/L	SW8260C	0.172	1.00	20.00	0	111	30 - 192	22.9	2.57	25	
Naphthalene	16.0	µg/L	SW8260C	0.587	1.00	20.00	0	79.8	41 - 131	17	6.13	25	
Tetrahydrofuran	21.4	µg/L	SW8260C	0.516	1.00	20.00	0	107	43 - 146	21.5	0.560	25	
Toluene	21.6	µg/L	SW8260C	0.183	1.00	20.00	0	108	18 - 192	23.2	7.19	25	
Xylenes, Total	58.5	µg/L	SW8260C	0.857	1.00	60.00	0	97.6	42 - 167	61.2	4.38	25	
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260C			50.00		107	72 - 151				
Surr: 4-Bromofluorobenzene	50.1	µg/L	SW8260C			50.00		100	80 - 152				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	49.7	µg/L	SW8260C			50.00		99.5	77 - 129				

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UL
Denison

WORK ORDER Summary

Work Order: **1610506**

Client: Energy Fuels Resources, Inc. Due Date: 11/9/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **Seeps and Springs 2016** **QC Level:** III WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Run NO2/NO3 as a 10X. Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610506-001A	**Westwater Seep**	10/24/2016 1010h	10/26/2016 1030h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1610506-001B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
1610506-001C				**TDS-W-2540C**			ww - tds	
				1 SEL Analytes: TDS				
1610506-001D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1610506-001E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1610506-002A	**Trip Blank**	10/24/2016	10/26/2016 1030h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				

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CHAIN OF CUSTODY

1610506
AWAL Lab Sample Set #

Page 1 of 1

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

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	14 DAY RUSH		

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **Seeps and Springs 2016**
Project #:
PO #:
Sampler Name: **Garrin Palmer**

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

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

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo,	Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1	**Westwater Seep**	**10/24/2016**	**1010**	7	W	x	x	x	x	x	x	x	x	x	x	
2	**Trip Blank**	**10/24/2016**		3	W										x	
3	**Temp Blank**			1	W											
4																
5																
6																
7																
8																
9																
10																
11																
12																

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.6 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature: Garrin Palmer	Date: 10/24/16	Received by: Signature	Date:
Print Name: Garrin Palmer	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature: Elena Hay	Date: 10/26/16
Print Name:	Time:	Print Name: Elena Hay	Time: 1030
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

Lab Set ID: 1616506

pH Lot 5003

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1																	
Ammonia	pH <2 H_2SO_4	Yes																	
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	Yes																	
NO_2 & NO_3	pH <2 H_2SO_4	Yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

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

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

November 14, 2016

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

Re: Analytical for Seeps and Springs 2016
Work Order: 409071

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 26, 2016. 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. 4289.

Sincerely,

Linda Pullano for
Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Analytical for
SDG: 409071

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 409071

November 14, 2016

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 October 26, 2016 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:

Laboratory ID	Client ID
409071001	WestWater Seep

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.

Linda Pullano for
Julie Robinson
Project Manager

409071

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 4115
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Seeps and Springs 2016	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
WestWater Seep	10/24/2016	1010	Gross Alpha

Comments: Please Rush Sample analysis. Thanks

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer Garrin Palmer	10/24/16 1230		10/26/16 0930
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	**SDG/AR/COC/Work Order:** 409071
Received By: MB	**Date Received:** 10/26/2016

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?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts):
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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 17.7°C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): ES102009185
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials contain acid preservation?		✓		(If unknown, select No)
8	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
9	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
10	Samples received within holding time?	✓			ID's and tests affected:
11	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
12	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
13	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
14	Are sample containers identifiable as GEL provided?	✓			
15	COC form is properly signed in relinquished/received sections?	✓			
16	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground (UPS) Field Services Courier Other 1Z 187 44401 9677 3574

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials DR Date 10-26-16 Page 1 of 1

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG: 409071 Seeps and Springs 2016
Client SDG: 409071
Project Manager: Julie Robinson
Project Name: DNMI00106 Analytical for
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 15-NOV-16
Package Due Date: 13-NOV-16
EDD Due Date: 15-NOV-16
Due Date: 15-NOV-16
JAR1

Collector: C
Prelogin #: 20150631907
Project Workdef ID: 1329132
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
409071001	WestWater Seep		24-OCT-16 10:10	26-OCT-16 09:30	-2	1	SURFACE WATER		14		1		

	Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001	WestWater Seep	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y	
							Temperature (C)	18	

Product: GFCTORAL **Workdef ID:** 1329138 **In Product Group?** No **Group Name:** **Group Reference:**
Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001
Parmname Check: All parmnames scheduled properly
Path: Standard
Product Reference: Gross Alpha
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	No

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

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

List of current GEL Certifications as of 14 November 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-21
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 409071

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1612325

Sample ID	Client ID
409071001	WestWater Seep
1203660591	Method Blank (MB)
1203660595	Laboratory Control Sample (LCS)
1203660592	408397002(NonSDG) Sample Duplicate (DUP)
1203660593	408397002(NonSDG) Matrix Spike (MS)
1203660594	408397002(NonSDG) Matrix Spike Duplicate (MSD)

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.

QC Information
All of the QC samples met the required acceptance limits.

Designated QC

The following sample was used for QC: 408397002 (NonSDG).

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.

Recounts
None of the samples in this sample set were recounted.

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.

Manual Integration
No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC
The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments
The matrix spike and matrix spike duplicate, 1203660593 (Non SDG 408397002MS) and 1203660594 (Non SDG 408397002MSD), aliquots were reduced to conserve sample volume. The blank, 1203660591 (MB), did not meet the detection limit due to keeping the blank volume consistent with the other sample aliquots. All other samples met the detection limits.

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: 409071 GEL Work Order: 409071

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: Theresa L Austin **Name: Theresa Austin**

Date: 14 NOV 2016 **Title: Group Leader**

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

QC Summary

Report Date: November 14, 2016

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

Workorder: **409071**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1612325										
QC1203660592 408397002 DUP										
Gross Radium Alpha		4.08		3.68	pCi/L	10.4		(0%-20%)	AXM6	11/11/16 10:5
	Uncertainty	+/-0.593		+/-0.483						
QC1203660595 LCS										
Gross Radium Alpha	412			377	pCi/L		91.4	(75%-125%)		11/11/16 10:4
	Uncertainty			+/-4.81						
QC1203660591 MB										
Gross Radium Alpha			U	-0.70	pCi/L					11/11/16 10:5
	Uncertainty			+/-0.179						
QC1203660593 408397002 MS										
Gross Radium Alpha	1680	4.08		1800	pCi/L		107	(75%-125%)		11/11/16 10:5
	Uncertainty	+/-0.593		+/-22.2						
QC1203660594 408397002 MSD										
Gross Radium Alpha	1680	4.08		1830	pCi/L	1.2	109	(0%-20%)		11/11/16 10:4
	Uncertainty	+/-0.593		+/-20.7						

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

QC Summary

Workorder: 409071

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 or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Tab E

Quality Assurance and Data Validation Tables

Table E-1 Holding Time Evaluation

	Required Holding Time	Cottonwood Spring	Entrance Seep	Back Spring (duplicate of Cottonwood Spring)	Ruin Spring	Westwater Seep
Major Ions						
Carbonate	14 days	OK	OK	OK	OK	OK
Bicarbonate	14 days	OK	OK	OK	OK	OK
Calcium	6 months	OK	OK	OK	OK	OK
Chloride	28 days	OK	OK	OK	OK	OK
Fluoride	28 days	OK	OK	OK	OK	OK
Magnesium	6 months	OK	OK	OK	OK	OK
Nitrogen-Ammonia	28 days	OK	OK	OK	OK	OK
Nitrogen-Nitrate	28 days	OK	OK	OK	OK	OK
Potassium	6 months	OK	OK	OK	OK	OK
Sodium	6 months	OK	OK	OK	OK	OK
Sulfate	28 days	OK	OK	OK	OK	OK
pH (s.u.)	N/A	OK	OK	OK	OK	OK
TDS	7 days	OK	OK	OK	OK	OK
Metals	6 months (except mercury which is 28 days)	OK	OK	OK	OK	OK
Radiologics	6 months	OK	OK	OK	OK	OK
VOCS (including THF)	14 days	OK	OK	OK	OK	OK

* - Corral Spring, Westwater Seep, and Corral Canyon were all dry and no samples were collected.

E-2 Laboratory Receipt Temperature Check

Work Order Number/Lab Set ID	Receipt Temp
AWAL - 1606395	2.4°C
GEL - 399853	N/A
AWAL - 1610506	2.6°C
GEL - 409071	N/A

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.

E-3: Analytical Method Check - Routine Samples

Parameter	QAP/Permit Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E 353.1 or E353.2	E353.2
Metals	E 200.7 or E200.8	E200.7, E200.8
Mercury	E200.7 or E200.8 or E245.1	E245.1
Gross Alpha	E900.0 or E900.1	E900.1
VOCs	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B, 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	A2540C	A2540C
Carbonate as CO3, Bicarbonate as HCO3	A2320B	A2320B
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

E-4 Reporting Limit Evaluation

Parameter	Permit-Specified RL
Ammonia (as N)	25 mg/L
Nitrate + Nitrite (as N)	10 mg/L
Metals ug/L	
Arsenic	50
Beryllium	4
Cadmium	5
Chromium	100
Cobalt	730
Copper	1300
Iron	11000
Lead	15
Manganese	800
Mercury	2
Molybdenum	40
Nickel	100
Selenium	50
Silver	100
Thallium	2
Tin	17000
Uranium	30
Vanadium	60
Zinc	5000
Gross Alpha	15
VOCs ug/L	
Acetone	700
Benzene	5
Carbon tetrachloride	5
Chloroform	70
Chloromethane	30
MEK	4000
Methylene Chloride	5
Naphthalene	100
Tetrahydrofuran	46
Toluene	1000
Xylenes	10000
Major Ions mg/L	
Chloride	1
Fluoride	4
Sulfate	1
TDS	10
Carbonate as CO3, Bicarbonate as HCO3	Not Specified
Calcium, Magnesium, Potassium, Sodium	Not Specified

All analyses were reported to the required RLs unless noted in the text.

E-5: Trip Blank Evaluation

The trip blanks for the 2016 sampling program were nondetect.

Blank	Sample Date	Laboratory
1	6/16/2016	AWAL
2	10/24/2016	AWAL

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Cottonwood Spring	Back Spring (Duplicate of Cottonwood Spring)	RPD %
Carbonate	<1.0	<1.0	N/C
Bicarbonate	256	261	1.9
Calcium	102	106	3.8
Chloride	138	133	3.7
Fluoride	0.466	0.446	4.4
Magnesium	29.5	29.8	1.0
Nitrogen-Ammonia	<0.05	<0.05	N/C
Nitrogen-Nitrate	<0.1	<0.1	N/C
Potassium	6.11	6.15	0.7
Sodium	221	222	0.5
Sulfate	443	428	3.4
TDS	1070	1070	0.0
Metals (ug/l)			
Arsenic	<5.0	<5.0	N/C
Beryllium	<0.5	<0.5	N/C
Cadmium	<0.5	<0.5	N/C
Chromium	<25	<25	N/C
Cobalt	<10	<10	N/C
Copper	<10	<10	N/C
Iron	<30	<30	N/C
Lead	<1.0	<1.0	N/C
Manganese	<10	<10	N/C
Mercury	<0.5	<0.5	N/C
Molybdenum	<10	<10	N/C
Nickel	<20	<20	N/C
Selenium	<5	<5	N/C
Silver	<10	<10	N/C
Thallium	<0.5	<0.5	N/C
Tin	<100	<100	N/C
Uranium	8.84	8.88	0.5
Vanadium	<15	<15	N/C
Zinc	<10	<10	N/C
Radiologics (pCi/l)			
Gross Alpha	<1.0	<1.0	N/C
VOCS (ug/L)			
Acetone	<20.0	<20.0	N/C
Benzene	<1.00	<1.00	N/C
Carbon tetrachloride	<1.00	<1.00	N/C
Chloroform	<1.00	<1.00	N/C
Chloromethane	<1.00	<1.00	N/C

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Cottonwood Spring	Back Spring (Duplicate of Cottonwood Spring)	RPD %
MEK	<1.00	<1.00	N/C
Methylene Chloride	<1.00	<1.00	N/C
Naphthalene	<1.00	<1.00	N/C
Tetrahydrofuran	<1.00	<1.00	N/C
Toluene	<1.00	<1.00	N/C
Xylenes	<1.00	<1.00	N/C

N/C = Not Calculated

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.

E-7 Radiologics Counting Error

Sample ID	Gross Alpha minus Rn & U	Gross Alpha minus Rn & U Precision (±)	Counting Error ≤ 20%	GWQS	Within GWQS
Cottonwood Spring	<1.0	0.167	N/A	15	N/A
Entrance Seep	1.46	0.294	N	15	Y
Back Spring (duplicate of Cottonwood Spring)	<1.0	0.193	N/A	15	N/A
Ruin Spring	<1.0	0.154	N/A	15	N/A
Westwater Seep	<1.0	0.193	N/A	15	N/A

N/A - The sample results are non-detect and the QAP required checks are not applicable.

E-8: Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
1606395	Entrance Seep	Nitrate/Nitrite (as N)	111	109	90-110	11.5
1610506	Westwater Seep	Calcium*	NC	NC	70 - 130	NC
1610506	Westwater Seep	Sodium*	NC	NC	70 - 130	NC

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

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Duplicate Result	RPD %	RPD Range %
1606395	Entrance Seep	Total Dissolved Solids	828	872	5.18	5
1610506	Westwater Seep	Total Dissolved Solids	1060	1150	8.14	5

Surrogate % Recovery

All surrogate recoveries were within the laboratory established acceptance limits.

Method/Laboratory Reagent Blank detections

No analytes were detected in the laboratory blanks.

Tab F

CSV Transmittal

Kathy Weinel

From: Kathy Weinel
Sent: Thursday, November 17, 2016 7:31 AM
To: 'Phillip Goble'
Cc: 'Dean Henderson'; Harold Roberts; David Frydenlund; David Turk; Logan Shumway; Scott Bakken
Subject: Transmittal of CSV Files White Mesa Mill 2016 Annual Seeps and Springs Monitoring
Attachments: 399853.csv; 409071.csv; 1606395-EDD.csv; 1610506-report-EDD.csv

Dear Mr. Goble,

Attached to this e-mail are the electronic copies of laboratory results for the annual seeps and springs monitoring conducted at the White Mesa Mill during 2016, 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