April 9, 2010 Project No.: 073-81694

Mr. Frank Filas, Environmental Engineer
Energy Fuels Resources Corporation
44 Union Boulevard, Suite 600
Lakewood, Colorado 80228

RE: GROUNDWATER MONITORING ADDENDUM, PIÑON RIDGE PROJECT, MONTROSE COUNTY, COLORADO

Dear Frank:

This Groundwater Monitoring Addendum for the Piñon Ridge Project augments the Groundwater Monitoring Summary Report (Golder 2009a) that was included in Energy Fuels Resources Corporation's (EFRC's) Radioactive Material License Application (EFRC 2009) submitted to the Colorado Department of Public Health and Environment (CDPHE) on November 18, 2009. This report includes additional monitoring data collected since the submittal of the license application, as well as addressing the following hydrology items raised by CDPHE in their Request for Additional Information dated February 26, 2010.

- Please provide an estimate of vertical hydraulic conductivity of the alluvium, Chinle, Moenkopi, and Paradox Formations at the proposed site. These estimates should be based on reliable measurement.
- Elevated gross alpha measurements are noted in site groundwater. What constituents are causing these elevated measurements?

Additional water level and analytical data are presented in Sections 1 and 2, respectively, while vertical hydraulic conductivity and gross alpha contributors are discussed in Sections 3 and 4, respectively.

CDPHE also requested reliable ambient chemical and radiometric measurements of Dolores River water in the Paradox Valley and recommended that Dolores River samples be analyzed for the existing surface water analytical suite plus common anions and cations (CDPHE 2010). A response to this request is not provided in this report, but will be provided by EFRC in a separate report.

1.0 GROUNDWATER LEVEL MEASUREMENTS

Groundwater level measurements of the monitoring wells and production wells located on and near the proposed Piñon Ridge Mill site have been conducted on a quarterly basis since the fourth quarter of 2007. Refer to Table 1 and Figures 1 and 2 for groundwater level measurements collected in the fourth quarter of 2009 and first quarter of 2010, as well as historical levels previously included in the Groundwater Monitoring Summary Report (Golder 2009a).

Review of Figure 1 indicates that groundwater levels in the Chinle/Moenkopi monitoring wells have, with the exception of well MW-5, decreased by two to four feet over the last two quarters. The water level in well MW-5 decreased by approximately 1.4 feet during fourth quarter 2009, but increased by approximately 1.2 feet in first quarter 2010. Field personnel confirmed that the water levels in well MW-5 had been accurately measured.

Figure 2 shows that water levels in the two wells completed at the Moenkopi/Hermosa contact (wells MW-6 and MW-8B) have remained relatively stable over the last five quarters, including fourth quarter 2009 and first quarter 2010. Monitoring well MW-9 was excluded from the graphical analysis because it is

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completed in a zone of very low hydraulic conductivity, and the intercepted groundwater appears to be from interstitial moisture rather than from groundwater flow.

Although water levels have decreased in the Chinle/Moenkopi Aquifer, the potentiometric surface map shown on Figure 6 of the Hydrogeologic Report (Golder 2009b) still accurately reflects the northeast to northwest flow paths of the local groundwater system.

2.0 ADDITIONAL ANALYSES

Groundwater sampling was reduced to an annual schedule following the third quarter 2009 sampling event (EFRC 2010). However, at EFRC's request, additional analyses were run by the laboratory for dissolved thorium-230 (Th-230), lead-210 (Pb-210), and radium-228 (Ra-228) in the third quarter 2009 on-site and off-site groundwater samples and the fourth quarter 2009 water sample from off-site Stone Spring. The Groundwater Sampling Work Plan (Kleinfelder 2008), developed prior to the start of the groundwater sampling program, did not include analysis for these constituents as they were assumed to be present only at low activity levels. To check the validity of this assumption, EFRC elected to conduct the additional analyses.

Table 2 includes the groundwater sample data collected to-date including the additional analyses, which are highlighted for ease of reference. The Th-230 and Pb-210 activity levels were generally found to be less than or slightly greater than the lower limit of detection in the samples. Ra-228 was less than or slightly greater than the lower limit of detection in all samples except the sample from well MW-6, which had an activity level of 4.4 picoCuries per liter (pCi/L). Given that the drinking water standard for combined Ra-226 and Ra-228 is only 5 pCi/L, EFRC will add Ra-228 to the analyte list for future sampling events. No additional analyses for Th-230 or Pb-210 are planned at this time. The laboratory reports for the additional analyses are provided in Attachment A.

3.0 VERTICAL HYDRAULIC CONDUCTIVITIES

Vertical hydraulic conductivities were measured for the alluvium on site at three locations. For the Chinle formation, Moenkopi formation, and Paradox member of the Hermosa formation, vertical conductivities were not directly measured, but have been estimated from measured horizontal hydraulic conductivities. For horizontally bedded sedimentary deposits, the hydraulic conductivity in the horizontal direction is usually greater than the hydraulic conductivity in the vertical direction, and the formation is therefore considered anisotropic (Freeze and Cherry 1979; Kruseman and de Ridder 1994). Alluvium, the Chinle and Moenkopi formations, and the Paradox member of the Hermosa formation present at the Piñon Ridge Project are therefore likely anisotropic, with higher hydraulic conductivities in the horizontal direction than in the vertical direction. Estimations of vertical conductivity in the alluvium, Chinle and Moenkopi formations, and Paradox Member of the Hermosa formation are presented in the sections below.

3.1 Alluvium

Groundwater was not encountered in alluvium at borings drilled on-site (Golder 2009b); therefore, aquifer testing of the alluvium was not conducted. However, as part of the geotechnical testing program, vertical hydraulic conductivities were estimated using a Flexible Wall Permeameter (Golder 2008). Three undisturbed samples from boreholes GA-BH-08, GA-BH-42, and GA-BH-47 were tested, with soil types of silt, clayey sand, and silty sand. The locations of these boreholes are presented in Drawing 1 of the report *Phase 2 Geotechnical Field and Laboratory Test Program* (Golder 2008). Vertical hydraulic conductivities ranged from 3.4×10^{-5} to 5.9×10^{-4} centimeters per second (cm/s.) Table 3 presents the sample depth, soil type, and vertical hydraulic conductivity for each sample.

3.2 Chinle and Moenkopi Formations

Aquifer properties were estimated for the Chinle/Moenkopi aquifer using aquifer testing methods consisting of pumping tests and rising head/falling head tests. Because groundwater is generally present at the contact of these two formations, separate aquifer properties for each formation were not estimated. The hydraulic conductivities estimated from the results of the aquifer testing represent horizontal flow,

which is a reasonable assumption for a stratified aquifer such as the Chinle/Moenkopi aquifer. Based on aquifer testing results, the average horizontal hydraulic conductivity for the Chinle/Moenkopi aquifer is estimated to be 3 x 10^{-3} cm/s (Golder 2009b).

Vertical hydraulic conductivities for the Chinle and Moenkopi formations were estimated using a range of anisotropy ratios. Domenico and Schwartz (1998) present representative horizontal and vertical hydraulic conductivities for sandstone with an anisotropy ratio of 2. However, both the Chinle and Moenkopi formations are interbedded with shale (Cater 1954, 1955), which is likely to result in a much lower vertically hydraulic conductivity (i.e., a higher anisotropy ratio). For example, according to Kruseman and de Ridder (1994), anisotropy ratios can range from 2 to 10 in horizontally-stratified alluvial formations, but may be as high as 100, especially where clay layers are present. Assuming a range of anisotropy ratios from 10 to 100, estimated vertical hydraulic conductivities for the Chinle and Moenkopi formations range from 3 x 10^{-4} to 3 x 10^{-5} cm/s.

3.3 Paradox Member of the Hermosa Formation

Vertical hydraulic conductivities for the Paradox member of the Hermosa formation have not been measured; however salt deposits of the Paradox member are known to be a barrier to vertical flow of groundwater (Weir 1983; Topper et al. 2003). Horizontal hydraulic conductivities for the Paradox member were estimated from packer testing conducted as part of the Phase 2 geotechnical field program (Golder 2008). For the gypsum layers of the formation, the horizontal hydraulic conductivities from packer testing ranged from 2 x 10^{-7} to 1.9 x 10^{-5} cm/s. For the claystone layers of the formation, the horizontal hydraulic conductivity from packer testing was approximately 2.4 x 10^{-5} cm/s. However, the Rock Quality Designation for the test intervals was generally less than 40 percent, indicating that the conductivities obtained are largely a function of the rock structure (i.e., fractures and joints), and not representative of the intact rock (Golder 2008). Because the Paradox member is a known barrier to flow, fractures in the Paradox member are likely discontinuous, or non-existent at greater depths. Based on the packer test data and assuming an anisotropy ratio ranging from 2 to 100, vertical hydraulic conductivities for some areas of the Paradox member may range from 1.2 x 10^{-5} to 2.7 x 10^{-9} cm/s. However, due to the presence of impermeable salt deposits, the vertical conductivity for the entire thickness of the Paradox member is likely to be closer to the lower end of the above range.

4.0 GROSS-ALPHA IN GROUNDWATER SAMPLES

The gross-alpha activities in the groundwater samples collected from on-site and off-site wells between fourth quarter 2007 and fourth quarter 2009 ranged from 1.4 to 70 pCi/L. The CDPHE water supply standard and the U.S. Environmental Protection Agency (EPA) drinking water standard for gross alpha is 15 pCi/L; however, these standards specifically exclude alpha contributions from uranium and radon. Primary potential contributors to the gross-alpha levels in the groundwater are uranium, radium-226 (Ra-226), radon-222 (Rn-222) and thorium-230 (Th-230). These radionuclides emit alpha particles as they decay. Rn-222 was not included in the standard laboratory sample analyses, but data for the other three alpha emitters are available and can be used to estimate their approximate contributions to the total gross alpha activity level in the site's groundwater.

The alpha contributions from Ra-226, Th-230, and uranium are compared in Table 4 to the measured gross alpha levels. The activity levels for Ra-226 are available from each sampling event, while the Th-230 activity levels are available from the third quarter 2009 sampling event. Uranium concentrations are available for each sampling event also, but needed to be converted into activity levels. Uranium concentrations in milligrams per liter (mg/L) were converted to pCi/L using a specific activity of 677 pCi/mg for natural uranium (Energy Laboratories, Inc. 2007), and are presented in Table 4. Table 4 also shows what percent of the gross alpha activity can be attributed to uranium, Ra-226, and Th-230. In many instances, the percentage shown for uranium is greater than 100 percent. This may be attributed to the inherent lack of precision in analyzing for radionuclides at low activity levels and possibly disequilibrium between the various forms of uranium (i.e., U-238, U-235, and U-234).

As shown in Table 4, uranium accounted for an average of at least 100 percent of the total gross-alpha activity in 10 of the 11 wells, with well MW-6 being the exception. Ra-226 accounted for less than

5 percent of the total gross-alpha activity in 9 of the 11 wells, the exceptions being wells MW-6 and MW-8B, in which it accounted for 28 and 10 percent of the total gross-alpha activity, respectively. Th-230 was not detected above the lower limit of detection in any of samples for which it was analyzed.

Uranium is the only significant contributor to gross-alpha levels in the samples of Chinle/Moenkopi groundwater (MW-5 and MW-7; PW-1, PW-2 and PW-3; Davis Well, BLM Well, Boren Well, and Stone Spring) which have average total gross alpha activity levels ranging from 15 pCi/L at the Davis Well to 51 pCi/L at monitoring well MW-5.

Ra-226 is a significant contributor to gross-alpha activity in the Moenkopi/Hermosa groundwater (wells MW-6 and -8B). Gross alpha in water samples from well MW-6 averaged 10 pCi/L, while samples from well MW-8B averaged 20 pCi/L. The relatively low gross alpha levels observed at well MW-6 is due to the relatively low concentrations of uranium found at this well (less than 0.003 mg/L). The absence of uranium is attributed to the strong reducing conditions found at well MW-6 (Golder 2009a), which causes uranium to precipitate out of solution. On average, 28 percent of the gross alpha at well MW-6 is attributable to Ra-226, while uranium and Th-230 account for only 4 and 3 percent (assuming value for Th-230 is one half the lower detection limit), respectively. Rn-222 and the other alpha emitting decay products of Ra-226 typically increase gross alpha levels by 2 to 4 times above the Ra-226 level alone (Carlston 2010); accordingly, the gross alpha levels observed at well MW-6 are attributed primarily to Ra-226, Rn-222, and the other alpha emitters in the Ra-226 decay chain. Reducing conditions are not as pronounced at well MW-8B, which has substantially higher uranium concentrations (average of 0.04 mg/L) compared to well MW-6. The majority of the gross alpha observed at well MW-8B is attributable to uranium with the balance coming from Ra-226 and its decay chain.

In summary, the gross alpha levels observed in on-site and off-site wells are primarily attributable to the elevated uranium concentrations found in the groundwater. Well MW-6, which has the lowest gross alpha levels (average of 10 pCi/L) and low uranium concentrations, is the only exception as its gross alpha is primarily attributable to Ra-226 and its decay chain. ACZ Laboratories Inc., which analyzes the Piñon Ridge groundwater samples, does not have the capability to analyze for gross alpha minus uranium and radon (i.e., per the gross alpha regulatory standard). However, Energy Laboratories Inc. does provide this capability using EPA Method E900.1. To better characterize the gross alpha in the groundwater, EFRC will arrange for a split water sample to be taken from each on-site and off-site well during the next sampling event that will be shipped to Energy Laboratories for this analysis. These data will be provided in a future groundwater monitoring addendum.

5.0 CLOSING

Golder Associates appreciates the opportunity to provide continued technical support to Energy Fuels Resources Corporation for the Piñon Ridge Project. If you have any questions or comments about the contents of this letter, please contact the undersigned at 303-980-0540.

Respectfully submitted,

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Attachments:

- Table 1 – Water Level Measurements
- Table 2A – Groundwater Analytical Results – Well Samples
- Table 2B – Groundwater Analytical Results – QA/QC Samples
- Table 2C – Groundwater Analytical Results – Offsite Samples
- Notes for Tables 2A, 2B, and 2C
- Table 3 – Vertical Hydraulic Conductivity Test Results
- Table 4 – Gross Alpha Accounting
- Figure 1 – Water Level – Chinle/Moenkopi Aquifer
- Figure 2 – Water Levels – Moenkopi/Hermosa Contact
- Attachment A – Laboratory Reports

TABLES

TABLE 1
WATER LEVEL MEASUREMENTS

Well	Top of Casing Elevation (ft amsl[1])	Depth of Well[2] (ft btoc[3])	Date	Depth to Water (ft btoc[3])	Water Column Height (ft)	Groundwater Elevation (ft amsl[1])
MW-1	5423.76	32.49	10/16/07	dry	dry	dry
			1/29/08	dry	dry	dry
			4/29/08	dry	dry	dry
			8/3/08	dry	dry	dry
			11/12/08	dry	dry	dry
			2/16/09	dry	dry	dry
			4/28/09	dry	dry	dry
			7/27/09	dry	dry	dry
			11/25/09	dry	dry	dry
			2/8/10	dry	dry	dry
MW-2	5432.65	27.42	10/16/07	25.12	77.53	5407.53
			1/29/08	dry	dry	dry
			4/29/08	26.55	76.10	5406.10
			8/3/08	dry	dry	dry
			11/12/08	dry	dry	dry
			2/16/09	dry	dry	dry
			4/28/09	dry	dry	dry
			7/27/09	dry	dry	dry
			11/25/09	dry	dry	dry
			2/8/10	dry	dry	dry
MW-3	5452.29	102.65	10/16/07	99.25	3.40	5353.04
			1/29/08	dry	dry	dry
			4/29/08	dry	dry	dry
			8/3/08	100.21	2.44	5352.08
			11/12/08	100.65	2.00	5351.64
			2/16/09	dry	dry	dry
			4/28/09	dry	dry	dry
			7/27/09	dry	dry	dry
			11/27/09	dry	dry	dry
			2/8/10	dry	dry	dry
MW-4	5475.55	67.67	10/16/07	dry	dry	dry
			1/29/08	dry	dry	dry
			4/29/08	dry	dry	dry
			8/3/08	dry	dry	dry
			11/12/08	dry	dry	dry
			2/16/09	dry	dry	dry
			4/28/09	dry	dry	dry
			7/27/09	dry	dry	dry
			11/25/09	dry	dry	dry
			2/8/10	dry	dry	dry

TABLE 1
WATER LEVEL MEASUREMENTS

Well	Top of Casing Elevation (ft amsl[1])	Depth of Well[2] (ft btoc[3])	Date	Depth to Water (ft btoc[3])	Water Column Height (ft)	Groundwater Elevation (ft amsl[1])
MW-5	5572.89	302	10/16/07	292.72	9	5280.17
			1/31/08	282.50	20	5290.39
			4/29/08	281.94	20	5290.95
			8/3/08	281.94	20	5290.95
			11/12/08	281.66	20	5291.23
			2/19/09	281.02	21	5291.87
			4/30/09	280.73	21	5292.16
			7/31/09	280.97	21	5291.92
			11/25/09	282.32	20	5290.57
			2/8/10	281.16	21	5291.73
MW-6	5554.47	487	10/16/07	407.45	80	5147.02
			1/29/08	408.00	79	5146.47
			4/22/08	407.59	80	5146.88
			4/29/08	407.40	80	5147.07
			8/4/08	406.94	80	5147.53
			11/12/08	406.86	80	5147.61
			2/16/09	407.78	80	5146.69
			4/28/09	407.77	80	5146.70
			7/27/09	407.67	80	5146.80
			11/25/09	407.48	80	5146.99
			2/8/10	407.62	80	5146.85
MW-7	5624.93	428	8/2/08	337.68	90	5287.25
			11/12/08	335.71	92	5289.22
			2/16/09	335.38	92	5289.55
			4/28/09	335.87	92	5289.06
			7/27/09	335.82	92	5289.11
			11/25/09	338.64	89	5286.29
			2/8/10	338.82	89	5286.11
MW-8B	5530.19	425	8/2/08	381.43	43	5148.76
			11/12/08	381.52	43	5148.67
			2/16/09	381.61	43	5148.58
			4/28/09	381.46	43	5148.73
			7/27/09	381.51	43	5148.68
			11/25/09	381.42	43	5148.77
			2/8/10	381.39	43	5148.80
MW-9	5527.72	424	8/2/08	406.22	18	5121.50
			11/12/08	409.58	15	5118.14
			2/16/09	413.23	11	5114.49
			4/28/09	416.47	8	5111.25
			7/27/09	416.99	7	5110.73
			11/25/09	410.08	14	5117.64
			2/8/10	405.97	18	5121.75

TABLE 1
WATER LEVEL MEASUREMENTS

Well	Top of Casing Elevation (ft amsl[1])	Depth of Well[2] (ft btoc[3])	Date	Depth to Water (ft btoc[3])	Water Column Height (ft)	Groundwater Elevation (ft amsl[1])
PW-1	5570.66	382	8/2/08	280.70	101	5289.96
			11/12/08	280.07	102	5290.59
			2/16/09	280.13	102	5290.53
			4/28/09	280.69	101	5289.97
			7/27/09	280.21	102	5290.45
			11/27/09	283.54	98	5287.12
			2/8/10	284.04	98	5286.62
PW-2	5622.46	422	8/2/08	331.22	90	5291.24
			11/12/08	332.35	89	5290.11
			2/16/09	331.98	90	5290.48
			4/28/09	332.43	89	5290.03
			7/27/09	332.13	90	5290.33
			11/25/09	333.91	88	5288.55
			2/8/10	334.43	87	5288.03
PW-3	5557.88	382	8/2/08	256.65	125	5301.23
			11/12/08	261.76	120	5296.12
			2/16/09	263.13	119	5294.75
			4/28/09	264.08	118	5293.80
			7/27/09	263.93	118	5293.95
			11/27/09	266.52	115	5291.36
			2/8/10	266.94	115	5290.94

NOTES:

The depth-to-water reading for MW-5 in October 2007 is suspect.

1) ft amsl: feet above mean sea level

2) For MW-1 through MW-4, well depths were measured with a weighted tape. For remaining wells, well depths are approximate and were estimated from well completion information and the measured height of the PVC casing above ground surface.

3) ft btoc: feet below top of casing

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS - WELL SAMPLES

Parameter	Unit	MW-5							MW-6							
		1/31/2008	4/30/2008	8/7/2008	11/14/2008	2/19/2009	4/30/2009	7/31/2009	10/16/2007	1/29/2008	4/29/2008	8/7/2008	11/14/2008	2/18/2009	4/28/2009	7/28/2009
Field Parameters																
Temperature	°C	12.4	17.7	16.3	15.8	14.5	18.8	16.9	17.9	18.0	18.8	19.0	18.8	17.9	18.7	19.6
pH	s.u.	10.25	7.54	7.50	7.87	7.96	7.82	7.84	7.69	5.27	7.01	6.86	6.95	7.07	6.85	7.08
Conductivity	µS/cm	2,338	1,194	1,225	1,101	1,043	1,093	1,157	3,170	5,319	3,140	3,430	3,290	3,510	3,290	3,270
Dissolved Oxygen	mg/L	6.02	2.06	5.93	5.76	6.82	12.18	7.35	2.62	1.47	0.02	0.06	0.14	0.11	0.24	0.11
ORP	mV	NR	NR	203	150	86	72	106	NR	-310	-373	-361	-331	-330	-355	-354
General Chemistry																
Alkalinity as $CaCO_3$	mg/L	240	234	203	207	205	203	211	392	394	386	387	397	399	388	406
Carbonate as $CaCO_3$	mg/L	NA	<2	5	<2	13	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
$CaCO_3$	mg/L	240	234	203	207	192	203	211	478	394	386	387	397	399	388	406
Chloride	mg/L	21	22	33	24	24	21	21	142	170	160	170	160	170	160	170
Fluoride	mg/L	0.4	0.5	0.6	0.6	0.5	0.7	0.5	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.3
Ammonia as N	mg/L	0.08	0.23	0.06	0.10	<0.05	<0.05	<0.05	1.01	0.8	0.95	1.05	1.06	0.91	1.01	0.98
Nitrate/Nitrite as N	mg/L	1.09	1.20	2.51	2.17	1.96	2.26	2.31	<0.1	<0.02	<0.02	0.06	<0.02	0.03	0.02	0.05
Silica	mg/L	17.7	17.4	17.5	14.4	16.1	14.2	15.4	10.3	10.7	10.7	11.4	9.8	10.0	9.5	10.7
Sulfate	mg/L	390	370	390	370	370	360	360	1330	1400	1070	1490	1460	1490	1460	1560
Sulfide as S	mg/L	0.04	<0.02	<0.02	<0.02	<0.08	<3	<0.2	NA	13.4	10.3	11.9	11.5	12.4	13.2	11.6
TOC	mg/L	12	8	NA	NA	NA	NA	NA	<1	NA	12	NA	NA	NA	NA	NA
TDS	mg/L	840	820	820	770	790	770	770	2400	2740	1140	2670	2750	2760	2800	2770
TSS	mg/L	120	780	NA	78	350	337	237	13.3	<5	<5	NA	13	<5	<5	<5
Dissolved Metals																
Aluminum	mg/L	0.23	<0.03	0.04	0.04	0.32	0.05	0.05	<0.1	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Arsenic	mg/L	0.0015	0.0021	0.0025	0.0028	0.0027	0.0032	0.0017	<0.001	<0.001	0.0006	0.001	<0.01	0.002	<0.03	0.006
Barium	mg/L	0.034	0.021	NA	NA	NA	NA	NA	<0.1	NA	0.024	NA	NA	NA	NA	NA
Boron	mg/L	0.59	0.53	0.47	0.46	0.45	0.42	0.41	2.20	2.30	2.27	2.5	2.36	2.39	2.36	2.35
Cadmium	mg/L	0.0002	<0.0001	NA	NA	NA	NA	NA	<0.005	NA	0.0001	NA	NA	NA	NA	NA
Calcium	mg/L	69.8	76.6	69.1	69.5	70.2	72.0	69.5	109	123	121	133	132	137	131	131
Cesium	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	NA	<0.1	NA	<0.0002	NA	NA	NA	NA	NA
Chromium	mg/L	<0.01	<0.01	NA	NA	NA	NA	NA	<0.005	NA	<0.01	NA	NA	NA	NA	NA
Copper	mg/L	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Iron	mg/L	0.19	<0.02	<0.02	0.04	0.22	<0.02	0.06	1.46	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	<0.02
Lead	mg/L	0.0020	<0.0001	<0.0001	<0.0001	0.0006	<0.0001	0.0001	<0.001	<0.0004	<.0001	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
Magnesium	mg/L	54.5	61.2	60	57.4	58.7	59.3	58.4	261	284	288	309	295	304	299	312
Manganese	mg/L	0.042	0.012	0.028	0.025	0.053	0.015	0.021	0.060	0.010	0.01	<0.01	0.020	<0.01	<0.01	0.015
Mercury	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	NA	<0.001	NA	<0.0002	NA	NA	NA	NA	NA
Molybdenum	mg/L	0.03	0.03	0.02	0.01	<0.01	0.02	<0.01	<0.1	<0.02	0.030	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	mg/L	<0.01	<0.01	NA	NA	NA	NA	NA	0.05	NA	<0.01	NA	NA	NA	NA	NA
Potassium	mg/L	17.6	18.1	19.0	16.9	16.9	16.3	16.8	91.0	98.4	95.4	105	99.7	97.2	93.0	102
Selenium	mg/L	0.0170	0.0358	0.0200	0.0231	0.0206	0.0231	0.0207	0.003	0.027	0.1660	0.0321	0.236	0.0478	0.0413	0.217
Sodium	mg/L	136	127	109	95.0	89.9	88.2	88.8	172	205	190	219	208	206	190	200
Uranium	mg/L	0.0760	0.0896	0.106	0.1100	0.1030	0.1070	0.0911	<0.0003	<0.0002	<0.0001	<0.003	<0.002	0.0003	<0.0002	<0.0002
Vanadium	mg/L	0.007	0.006	0.012	0.009	0.013	0.008	0.007	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01
Dissolved Radionuclides																
Gross Alpha	pCi/L	50	65	49	49	41	44	56	11.1	17.0	12	9.7	<7.3	12	<6.8	11
Gross Beta	pCi/L	32	41	32	30	27	24	31	92.8	140.0	91	110	99	96	81	93
Radium 226	pCi/L	0.53	0.33	0.42	<0.35	0.3	0.37	0.34	1.6	2.2	1.9	3.3	1.9	2.1	2	1.6
Radium 228	pCi/L	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	4.4
Lead 210	pCi/L	NA	NA	NA	NA	NA	NA	<4.1	NA	NA	NA	NA	NA	NA	NA	13
Thorium 230	pCi/L	NA	NA	NA	NA	NA	NA	<0.61	NA	NA	NA	NA	NA	NA	NA	<0.59

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS

Parameter	Unit	MW-7						MW-8B					MW-9
		6/7/2008	9/9/2008	11/13/2008	2/18/2009	4/29/2009	7/31/2009	7/21/2008	11/13/2008	2/18/2009	4/29/2009	7/29/2009	9/10/2008
Field Parameters													
Temperature	°C	18.7	15.8	15.6	14.6	15.7	19.9	18.4	15.3	14.6	16.0	17.4	17.6
pH	s.u.	8.02	7.84	7.58	7.58	7.43	7.56	6.36	6.83	6.83	6.70	6.83	8.23
Conductivity	µS/cm	1,064	1,276	1,253	1,338	1,289	1,290	3,060	3,000	2,810	2,940	3,020	993
Dissolved Oxygen	mg/L	2.15	3.97	3.80	4.77	5.59	3.42	6.10	0.29	0.25	0.70	0.11	2.12
ORP	mV	28.8	161	138	88	62	169	-122.8	-154	-199	-203	-189	154
General Chemistry													
Alkalinity as $CaCO_3$	mg/L	154	198	218	223	222	228	426	436	389	449	474	243
Carbonate as $CaCO_3$	mg/L	<2	<2	<2	4	4	<2	<2	<2	<2	<2	<2	11
$CaCO_3$	mg/L	154	198	218	218	218	228	426	436	389	449	474	232
Chloride	mg/L	25	28	30	32	31	30	48	37	40	42	41	19
Fluoride	mg/L	0.7	0.6	0.6	0.5	0.5	0.5	0.7	0.6	0.5	0.6	0.5	1.0
Ammonia as N	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.12	<0.05	0.09	0.05	<0.5
Nitrate/Nitrite as N	mg/L	0.61	0.85	0.72	0.77	0.75	0.69	0.04	<0.02	0.03	0.04	<0.02	10.2
Silica	mg/L	15.8	19.7	17.5	19.3	17.4	18.3	11.7	17.3	18.5	20.2	16.9	11.8
Sulfate	mg/L	460	460	460	480	470	460	1810	1370	1450	1680	1540	190
Sulfide as S	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1.9	0.61	0.19	0.05	0.44	0.10
TOC	mg/L	9	NA	NA	NA	NA	NA	29	NA	NA	NA	NA	18
TDS	mg/L	850	930	970	940	930	970	3040	2520	2560	2980	2850	610
TSS	mg/L	<5	5	9	<5	<5	<5	833	18	<5	<5	<5	168
Dissolved Metals													
Aluminum	mg/L	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.06	<0.06	0.09	<0.03	<0.06	0.07
Arsenic	mg/L	0.0073	0.0046	0.0059	0.0062	<0.03	0.0054	0.002	<0.01	0.003	0.007	0.007	0.0111
Barium	mg/L	0.016	NA	NA	NA	NA	NA	0.038	NA	NA	NA	NA	0.044
Boron	mg/L	0.21	0.31	0.31	0.36	0.34	0.33	0.36	0.48	0.52	0.47	0.46	2.63
Cadmium	mg/L	<0.0001	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA	<0.0001
Calcium	mg/L	92.6	101.0	100	103	104	101	495	368	385	500	384	8.8
Cesium	mg/L	<0.0002	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	NA	<0.0002
Chromium	mg/L	0.03	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.01
Copper	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	0.02	<0.01
Iron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12	0.91	<0.04	1.48	1.43	0.03
Lead	mg/L	0.00010	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0001
Magnesium	mg/L	61.0	75.0	72.9	77.0	76.0	76.0	230	217	228	254	218	4.8
Manganese	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.33	1.43	0.81	0.937	1.15	0.019
Mercury	mg/L	<0.0002	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA	<0.0002
Molybdenum	mg/L	0.03	0.01	0.01	<0.01	0.02	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	0.06
Nickel	mg/L	<0.01	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	<0.01
Potassium	mg/L	18.1	16.8	16.9	16.4	15.5	16.2	16.7	20.8	19.7	20.3	18.2	12.0
Selenium	mg/L	0.0273	0.0279	0.0309	0.0280	0.0270	0.0236	0.079	0.010	0.0007	0.0002	0.0004	0.0017
Sodium	mg/L	79.2	82.7	82.2	83.1	80.2	81.3	34.1	29.7	29.4	32.8	29.8	202
Uranium	mg/L	0.0775	0.1030	0.1080	0.0986	0.0952	0.0970	0.0578	0.033	0.0861	0.0164	0.0143	0.0245
Vanadium	mg/L	0.018	0.014	0.016	0.010	0.015	0.014	<0.01	<0.01	<0.01	<0.005	<0.01	0.025
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	0.02	<0.01
Dissolved Radionuclides													
Gross Alpha	pCi/L	36	56	42	45	51	70	42	23	7	11	15	26
Gross Beta	pCi/L	34	33	40	29	33	36	23.0	24.0	23	20	22	20
Radium 226	pCi/L	<0.35	<0.25	<0.4	<0.28	<0.17	0.17	12.0	0.54	0.49	0.89	0.33	<0.45
Radium 228	pCi/L	NA	NA	NA	NA	NA	<1.5	NA	NA	NA	NA	1.5	NA
Lead 210	pCi/L	NA	NA	NA	NA	NA	<3	NA	NA	NA	NA	5.4	NA
Thorium 230	pCi/L	NA	NA	NA	NA	NA	<0.59	NA	NA	NA	NA	<0.59	NA

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS

Parameter	Unit	PW-1						PW-2					
		8/12/2008	8/13/2008	11/14/2008	2/24/2009	4/30/2009	7/30/2009	8/8/2008	8/11/2008	11/13/2008	2/24/2009	4/29/2009	7/31/2009
Field Parameters													
Temperature	°C	18.0	17.5	15.4	15.0	15.8	17.9	18.8	20.0	14.6	15.0	16.2	20.8
pH	s.u.	7.50	7.02	7.53	7.52	7.43	7.72	7.52	7.49	7.31	7.40	7.39	7.37
Conductivity	µS/cm	1,151	1,132	1,161	1,247	1,184	1,263	1,294	1,317	1,275	1,391	1,318	1,357
Dissolved Oxygen	mg/L	7.35	7.20	0.81	0.09	3.29	0.49	6.13	5.47	1.52	0.22	0.50	0.69
ORP	mV	31	142	-154	-144	-162	-151	100	90	-124	-210	-204	-183
General Chemistry													
Alkalinity as $CaCO_3$	mg/L	225	228	225	217	224	234	249	241	246	214	222	215
Carbonate as $CaCO_3$	mg/L	<2	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
$CaCO_3$	mg/L	225	223	225	217	224	234	249	241	246	214	222	215
Chloride	mg/L	36	36	36	38	36	36	38	36	34	38	39	42
Fluoride	mg/L	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.4
Ammonia as N	mg/L	<0.05	31.2	0.3	0.16	0.19	0.09	<0.05	<0.3	0.05	<0.5	<0.05	<0.05
Nitrate/Nitrite as N	mg/L	1.80	1.47	0.36	0.37	0.42	0.51	0.66	0.66	0.29	0.03	0.15	<0.02
Silica	mg/L	19.2	19.4	10.2	11.1	11.5	12.9	16.7	15.2	12.8	11.2	11.8	9.7
Sulfate	mg/L	380	360	380	380	410	380	430	430	440	430	450	440
Sulfide as S	mg/L	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.02	0.03	<0.02	0.11	<0.1	<0.2
TOC	mg/L	10	9	NA	NA	NA	NA	8	11	NA	NA	NA	NA
TDS	mg/L	810	810	820	810	820	830	940	930	920	910	940	940
TSS	mg/L	<5	<5	106	24	18	25	38	43	55	66	49	93
Dissolved Metals													
Aluminum	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Arsenic	mg/L	0.0169	0.0177	0.0009	0.0007	0.0009	0.0007	0.0034	0.0024	0.0007	<0.0005	0.0010	<0.0005
Barium	mg/L	0.013	0.027	NA	NA	NA	NA	0.013	0.009	NA	NA	NA	NA
Boron	mg/L	0.30	0.30	0.29	0.29	0.31	0.29	0.47	0.48	0.47	0.47	0.51	0.48
Cadmium	mg/L	<0.0001	<0.0001	NA	NA	NA	NA	<0.0001	<0.0001	NA	NA	NA	NA
Calcium	mg/L	69.1	66.7	68.9	68.4	71.4	66.6	91.4	90.3	88.4	82.5	91.6	83.5
Cesium	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	<0.0002	<0.0002	NA	NA	NA	NA
Chromium	mg/L	<0.01	<0.01	NA	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Copper	mg/L	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	mg/L	0.02	0.02	2.88	3.42	4.04	2.39	0.12	0.12	4.15	21.20	16.30	24.30
Lead	mg/L	0.0002	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Magnesium	mg/L	85.8	88.0	84.3	83.6	84.5	90.0	65.6	69.9	71.1	65.6	71.8	66.2
Manganese	mg/L	<0.005	<0.005	0.179	0.182	0.169	0.154	0.009	0.012	0.101	0.227	0.198	0.284
Mercury	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	<0.0002	<0.0002	NA	NA	NA	NA
Molybdenum	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01	0.02	<0.01
Nickel	mg/L	<0.01	0.01	NA	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Potassium	mg/L	9.80	10.0	10.7	10.7	10.1	10.0	17.4	18.3	18.1	17.1	18.0	17.0
Selenium	mg/L	0.0181	0.0168	0.0089	0.0078	0.0081	0.0079	0.0167	0.0171	0.0126	0.0024	0.0053	0.0008
Sodium	mg/L	72.3	72.4	73.9	74.7	73.4	69.9	102	102	102	102	102	102
Uranium	mg/L	0.1070	0.0963	0.0250	0.0198	0.0253	0.0295	0.0605	0.0638	0.0452	0.0078	0.0204	0.0033
Vanadium	mg/L	0.035	0.041	<0.005	<0.005	<0.005	<0.005	0.010	0.007	<0.005	<0.005	<0.005	<0.005
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.06	0.02	<0.01	<0.01	<0.1	<0.01
Dissolved Radionuclides													
Gross Alpha	pCi/L	46	40	7.8	11	11	16	31	27	18	<3	21	2.4
Gross Beta	pCi/L	26	23	15	11	13	16	29	25	21	18	21	8
Radium 226	pCi/L	<0.23	<0.25	<0.27	0.04	<0.25	0.11	<0.27	<0.16	<0.3	<0.19	<0.25	0.1
Radium 228	pCi/L	NA	NA	NA	NA	NA	<1.5	NA	NA	NA	NA	NA	<1.5
Lead 210	pCi/L	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	<4.2
Thorium 230	pCi/L	NA	NA	NA	NA	NA	<0.58	NA	NA	NA	NA	NA	<0.72

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS

Parameter	Unit	PW-3						CDPHE Domestic Water Supply Standards	CDPHE Agricultural Standards	EPA Drinking Water Standards
		8/6/2008	8/7/2008	11/13/2008	2/26/2009	4/30/2009	7/31/2009			
Field Parameters										
Temperature	°C	15.7	16.0	13.7	14.7	15.1	18.1	None	None	None
pH	s.u.	7.59	7.56	7.58	7.66	7.42	7.83	6.5-8.5	6.5-8.5	6.5-8.5
Conductivity	µS/cm	1,256	1,245	1,218	1,306	1,240	1,299	None	None	None
Dissolved Oxygen	mg/L	7.68	7.70	7.18	7.39	10.33	4.78	None	None	None
ORP	mV	61	105	95	34	-20	-55	None	None	None
General Chemistry										
Alkalinity as $CaCO_3$	mg/L	243	241	252	242	252	262	None	None	None
Carbonate as $CaCO_3$	mg/L	3	<2	<2	<2	<2	<2	None	None	None
$CaCO_3$	mg/L	240	241	252	242	252	262	None	None	None
Chloride	mg/L	35	35	35	37	36	35	250	None	250(1)
Fluoride	mg/L	0.5	0.4	0.5	0.5	0.5	0.4	4.0	2	4.0(2.0(1))
Ammonia as N	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	None	None	None
Nitrate/Nitrite as N	mg/L	0.98	1.04	1.14	0.77	0.68	0.67	10.0	100	10
Silica	mg/L	18.7	18.9	15.2	15.6	15.3	15.6	None	None	None
Sulfate	mg/L	380	380	380	390	390	380	250	None	250(1)(500(2))
Sulfide as S	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	None	None	None
TOC	mg/L	7	7	NA	NA	NA	NA	None	None	None
TDS	mg/L	830	840	860	850	860	870	None	None	500(1)
TSS	mg/L	<5	<5	10	<5	<5	14	None	None	None
Dissolved Metals										
Aluminum	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	None	5	0.05(1)
Arsenic	mg/L	0.0135	0.0138	0.0118	0.0120	0.0118	0.0078	0.01	0.1	0.01
Barium	mg/L	0.032	0.032	NA	NA	NA	NA	2.0	None	2
Boron	mg/L	0.39	0.37	0.42	0.43	0.43	0.41	None	0.75	None
Cadmium	mg/L	0.0001	<0.0001	NA	NA	NA	NA	0.005	0.01	0.005
Calcium	mg/L	67.0	66.9	72.7	73.7	76.3	74.0	None	None	None
Cesium	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	None	None	None
Chromium	mg/L	<0.01	<0.01	NA	NA	NA	NA	0.1	0.1	0.1 (total)
Copper	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	0.2	1.3 (1.0(1))
Iron	mg/L	0.02	0.02	0.06	<0.02	0.04	0.25	0.3	5	0.3(1)
Lead	mg/L	0.0002	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.05	0.1	0.015
Magnesium	mg/L	80.6	82.4	70.0	71.7	72.7	72.2	None	None	None
Manganese	mg/L	<0.005	<0.005	0.008	<0.005	<0.005	0.021	0.05	0.2	0.05(1)
Mercury	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	0.002	0.01	0.002
Molybdenum	mg/L	<0.01	<0.01	0.01	<0.01	0.02	<0.01	0.035	None	None
Nickel	mg/L	<0.01	<0.01	NA	NA	NA	NA	0.1	0.2	None
Potassium	mg/L	12.7	12.3	14.3	14.3	14.3	14.6	None	None	None
Selenium	mg/L	0.0208	0.0203	0.0215	0.0209	0.0196	0.0176	0.05	0.02	0.05
Sodium	mg/L	100	98.9	102	101	101	102	None	None	20(2)
Uranium	mg/L	0.0826	0.0837	0.0797	0.0731	0.0771	0.0665	0.03	None	0.030(1)
Vanadium	mg/L	0.014	0.021	0.020	0.024	0.019	0.014	None	0.1	None
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5	2	5(1)
Dissolved Radionuclides										
Gross Alpha	pCi/L	40	35	32	33	23	25	15-	None	15(3)
Gross Beta	pCi/L	27	26	29	19	20	27	4 mrem/yr	None	4 mrem/yr
Radium 226	pCi/L	0.26	<0.20	<0.35	0.23	0.48	0.25	5 (total)	5 (total)	5 (total)
Radium 228	pCi/L	NA	NA	NA	NA	NA	<1.5			
Lead 210	pCi/L	NA	NA	NA	NA	NA	<4.6	None	None	None
Thorium 230	pCi/L	NA	NA	NA	NA	NA	<0.54	60 (Total+Th-232)	None	None

TABLE 2B
GROUNDWATER ANALYTICAL RESULTS - QA/QC SAMPLES

Parameter	Unit	DUP-1 (MW-6)	DUP1-72108 (MW-8B)	DUP091008 (MW-9)	DUP-111408 (PW-1)	MW-7 DUP (MW-7)	MW-5 DUP (MW-5)	DUP022409 (PW-2)	DUP1-0409 (MW-6)	DUP2-0409 (PW-3)	DUPLICATE (MW-8B)	DUPLICATE (PW-1)	Equipment Rinsate - Sample Pump	Equipment Rinsate - Sample Pump
		4/29/2008	7/21/2008	9/10/2008	11/14/2008	2/18/2009	2/19/2009	2/24/2009	4/28/2009	4/30/2009	7/29/2009	7/30/2009	10/16/2007	7/22/2008
Field Parameters														
Temperature	°C	18.8	18.4	17.6	15.4	14.6	14.5	15.1	18.7	15.1	17.4	17.9	NA	NA
pH	s.u.	7.01	6.36	8.23	7.53	7.52	7.96	7.41	6.85	7.47	6.83	7.72	NA	NA
Conductivity	µS/cm	3,140	3,060	993	1,161	1,338	1,043	1,391	3,290	1,243	3,020	1,263	NA	NA
Dissolved Oxygen	mg/L	0.02	6.10	2.12	0.81	4.78	6.82	0.24	0.24	10.33	0.11	0.49	NA	NA
ORP	mV	-373	-122.8	154	-154	88	86	-209	-355	-20	-189	-151	NA	NA
General Chemistry														
Alkalinity as $CaCO_3$	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate as $CaCO_3$	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate as $CaCO_3$	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia as N	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate/Nitrite as N	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silica	mg/L	11.5	11.6	12.0	10.4	19.2	18.6	11.3	9.9	15.2	12.4	19.0	NA	0.5
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide as S	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals														
Aluminum	mg/L	<0.03	<0.03	0.08	<0.03	0.03	0.95	<0.03	<0.03	<0.03	<0.03	<0.03	NA	<0.03
Arsenic	mg/L	<0.0005	0.002	0.0110	0.0008	0.0062	0.0028	<0.0005	<0.03	0.0124	0.0005	0.0067	NA	<0.0005
Barium	mg/L	0.025	0.040	0.046	0.006	0.013	0.065	0.006	0.021	0.009	0.008	0.024	NA	<0.03
Boron	mg/L	2.39	0.37	2.65	0.30	0.36	0.44	0.47	2.48	0.43	0.32	0.50	NA	<0.01
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	NA	<0.0001
Calcium	mg/L	129	515	8.9	68.3	103.0	70.3	83.3	139	75.8	69.1	403	NA	0.7
Cesium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Copper	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Iron	mg/L	<0.02	0.13	0.03	2.09	<0.02	0.80	21.40	<0.02	0.03	2.80	1.49	NA	0.03
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	<0.0002	<0.0001	0.0014	<0.0001	<0.0001	NA	<0.0005
Magnesium	mg/L	314	237	4.8	83.5	76.7	58.4	65.9	327	72.6	81.2	227.0	NA	<0.2
Manganese	mg/L	0.012	0.34	0.042	0.160	<0.005	0.172	0.227	<0.005	<0.005	0.150	1.040	NA	<0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002
Molybdenum	mg/L	0.02	0.01	0.06	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	0.01	NA	<0.01
Nickel	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	NA	<0.01
Potassium	mg/L	107	17.0	12.2	10.4	16.5	16.8	17.1	98.9	15.3	10.7	19.2	NA	<0.03
Selenium	mg/L	0.1440	0.081	0.0018	0.0097	0.0256	0.0207	0.0025	0.0288	0.0195	0.0078	0.0006	NA	<0.001
Sodium	mg/L	209	34.7	202	73.2	83.5	89.5	103	196	100	73.7	28.8	NA	<0.3
Uranium	mg/L	<0.0001	0.0589	0.0249	0.0286	0.0987	0.1020	0.0078	<0.0001	0.0759	0.0305	0.0158	NA	<0.0001
Vanadium	mg/L	<0.005	<0.005	0.027	<0.005	<0.005	0.015	<0.005	<0.005	0.020	<.005	<0.005	NA	<0.005
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Dissolved Radionuclides														
Gross Alpha	pCi/L	NA	54	20	7.2	40	42	5.4	<8.6	30	12	16	1	NA
Gross Beta	pCi/L	NA	8.5	31	11	31	36	15	110	26	15	26	<2.0	NA
Radium 226	pCi/L	NA	7.8	0.18	-0.07	6.3	0.25	<0.22	1.7	0.35	0.09	0.55	<0.2	NA
Radium 228	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	<1.5	NA	NA
Lead 210	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<3.8	NA	NA
Thorium 230	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.53	<0.58	NA	NA

TABLE 2C
GROUNDWATER ANALYTICAL RESULTS - OFFSITE SAMPLES

Parameter	Unit	Davis Well	BLM Well	Boren Well	Stone Spring	
		7/29/2009	7/30/2009	7/31/2009	8/2/2009	10/21/2009
Field Parameters						
Temperature	°C	18.8	18.4	20.1	21.1	18.7
pH	s.u.	7.72	7.42	7.50	7.59	7.44
Conductivity	µS/cm	885	1444	1441	1093	1082
Dissolved Oxygen	mg/L	0.72	2.54	4.82	4.52	3.92
ORP	mV	76	-68	152	146	136
General Chemistry						
Alkalinity as $CaCO_3$	mg/L	264	235	422	271	274
Carbonate as $CaCO_3$	mg/L	5	<2	<2	<2	nd
Bicarbonate as $CaCO_3$	mg/L	258	235	422	271	274
Chloride	mg/L	16	21	87	59	62
Fluoride	mg/L	0.5	0.5	0.4	0.4	0.4
Ammonia as N	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate/Nitrite as N	mg/L	18.2	17.2	7.58	1.71	2.22
Silica	mg/L	12.0	15.4	16.1	14.3	15.2
Sulfate	mg/L	90	440	220	200	210
Sulfide as S	mg/L	<0.02	<0.02	<0.02	<0.02	0.05
TOC	mg/L	4	3	6	4	17
TDS	mg/L	530	1020	910	630	640
TSS	mg/L	<5	<5	<5	<5	<5
Dissolved Metals						
Aluminum	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Arsenic	mg/L	0.0056	0.0029	0.0112	0.0089	0.0083
Barium	mg/L	0.032	0.017	0.059	0.028	0.027
Boron	mg/L	0.83	0.22	0.39	0.37	0.33
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	40.0	112	64.1	52.8	51.4
Cesium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	mg/L	<0.02	<0.02	<0.02	<0.02	0.04
Lead	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001
Magnesium	mg/L	45.2	91.1	112	58.5	56.3
Manganese	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	mg/L	0.03	<0.01	<0.01	0.02	0.02
Nickel	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Potassium	mg/L	26.2	13.8	18.0	16.1	15.7
Selenium	mg/L	0.0474	0.0561	0.0181	0.0218	0.0223
Sodium	mg/L	58.4	66.9	72.4	79.7	15.2
Uranium	mg/L	0.0352	0.0389	0.0416	0.0510	0.0527
Vanadium	mg/L	0.007	0.010	0.020	0.018	<0.005
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Dissolved Radionuclides						
Gross Alpha	pCi/L	15	16	16	17	18
Gross Beta	pCi/L	30	21	25	25	26
Radium 226	pCi/L	0.33	0.47	0.13	0.07	0.2
Radium 228	pCi/L	1.6	<1.5	2	<1.4	1.6
Lead 210	pCi/L	<4.8	<4.3	<4.9	<3.5	<4
Thorium 230	pCi/L	<0.64	<0.64	<0.55	<0.59	<0.78

NOTES FOR TABLES 2A, 2B, AND 2C

Abbreviations:

^{o}C	degrees Celsius
s.u.	standard units
µS/cm	microsiemens per centimeter
mg/L	milligrams per liter
mV	millivolt
ρCi/L	picoCuries per liter
NA	Not Analyzed, see note below

Notes:

(1) Secondary Drinking Water standards

(2) US EPA Drinking Water Advisory Level

(3) Gross alpha standards exclude uranium and radon, the analytical results include uranium and radon

The initial sample from each well was analyzed for an extended list of parameters per the Groundwater Sampling Work Plan, rev 2, date May 21, 2008.

References:

CDPHE Domestic Water Supply and Agricultural Standards are published in CDPHE Water Quality Control Commission 5 CCR 1002-41, Regulation no. 41, The Basic Standards for Ground Water, as amended Janaury 14, 2008

U.S. EPA Standards are published in 2006 Edition of the Drinking Water Standards and Health Advisories, EPA 822-R-06-013, as updated August 2006

TABLE 3

VERTICAL HYDRAULIC CONDUCTIVITY TEST RESULTS

Sample	Depth (feet)	Soil Type (USCS*)	Vertical Hydraulic Conductivity (cm/s)
GA-BH-08	44.5-44.75	Silt (ML)	3.4×10^{-5}
GA-BH-42	10-11	Clayey sand (SC)	4.5×10^{-4}
GA-BH-47	2-3.5	Silty sand (SM)	5.9×10^{-4}

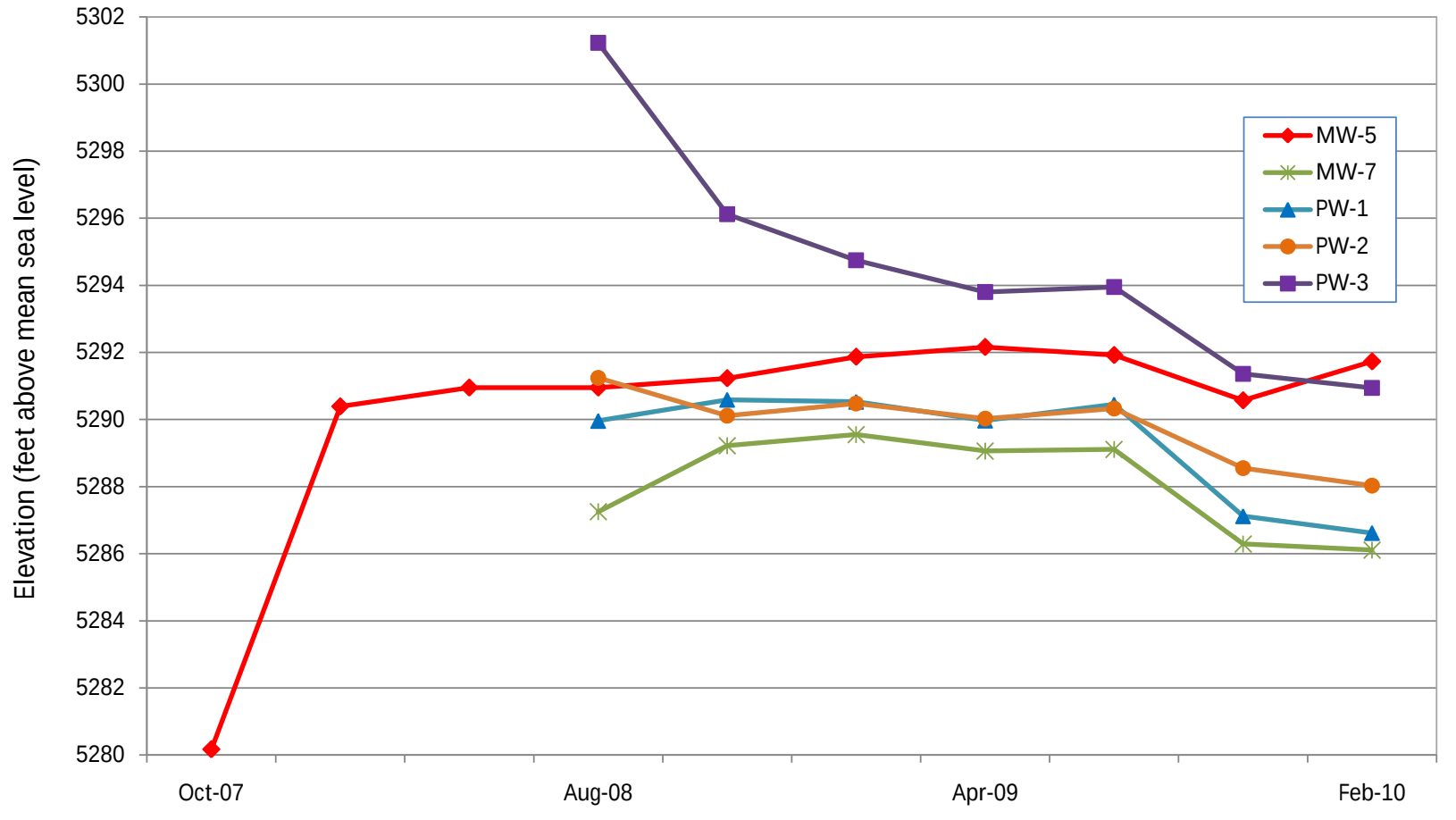
*USCS = Unified Soil Classification System

TABLE 4
GROSS ALPHA ACCOUNTING

Well ID	Total Gross Alpha (pCi/L)	Uranium (mg/L)	Gross Alpha from U (pCi/L)	Gross Alpha from Ra-226 (pCi/L)	Gross Alpha from Th-230 (pCi/L)	Gross Alpha Not Accounted For (pCi/L)	Gross Alpha Accounted for as U (percent)	Gross Alpha Accounted for as Ra-226 (percent)	Gross Alpha Accounted for as Th-230 (percent)
MW-5	50	0.0760	51	0.53	NA	-2	103%	1%	NA
	65	0.0896	61	0.33	NA	4	93%	1%	NA
	49	0.1060	72	0.42	NA	-23	146%	1%	NA
	49	0.1100	74	*0.175*	NA	-26	152%	*0%*	NA
	41	0.1030	70	0.30	NA	-29	170%	1%	NA
	44	0.1070	72	0.37	NA	-29	165%	1%	NA
	56	0.0911	62	0.34	*0.305*	-6	110%	1%	*1%*
MW-5 Average	**51**	**0.0975**	**66**	**0.35**	***0.305***	**-16**	**134%**	**1%**	***1%***
MW-6	11	*0.00015*	*0.1*	1.60	NA	9	*1%*	14%	NA
	17	*0.0001*	*0.1*	2.20	NA	15	*0%*	13%	NA
	12	*0.00005*	*0.03*	1.90	NA	10	*0%*	16%	NA
	9.7	*0.0015*	*1.0*	3.30	NA	5	*10%*	34%	NA
	3.7	*0.0010*	*0.7*	1.90	NA	1	*18%*	51%	NA
	12	0.0003	0.2	2.10	NA	10	1%	18%	NA
	3.3	*0.0001*	*0.1*	2.00	NA	1	*2%*	61%	NA
	11	*0.0001*	*0.1*	1.60	*0.295*	9	*1%*	15%	*3%*
MW-6 Average	**10**	**0.0004**	**0.3**	**2.08**	***0.295***	**8**	**4%**	**28%**	***3%***
MW-7	36	0.0775	52	*0.175*	NA	-17	146%	*0%*	NA
	56	0.1030	70	*0.125*	NA	-14	125%	*0%*	NA
	42	0.1080	73	*0.20*	NA	-31	174%	*0%*	NA
	45	0.0986	67	*0.14*	NA	-22	148%	*0%*	NA
	51	0.0952	64	*0.085*	NA	-14	126%	*0%*	NA
	70	0.0970	66	0.17	*0.295*	4	94%	0%	*0%*
MW-7 Average	**50**	**0.0966**	**65**	**0.15**	***0.295***	**-16**	**135%**	**0%**	***0%***
MW-8B	42	0.0578	39	12.00	NA	-9	93%	29%	NA
	23	0.0330	22	0.54	NA	0	97%	2%	NA
	7	0.0861	58	0.49	NA	-52	833%	7%	NA
	11	0.0164	11	0.89	NA	-1	101%	8%	NA
	15	0.0143	10	0.33	*0.295*	5	65%	2%	*2%*
MW-8B Average	**20**	**0.0415**	**28**	**2.85**	***0.295***	**-11**	**238%**	**10%**	***2%***
PW-1	46	0.1070	72	*0.115*	NA	-27	157%	*0%*	NA
	40	0.0963	65	*0.125*	NA	-25	163%	*0%*	NA
	7.8	0.0250	17	*0.135*	NA	-9	217%	*2%*	NA
	11	0.0198	13	0.04	NA	-2	122%	0%	NA
	11	0.0253	17	*0.125*	NA	-6	156%	*1%*	NA
	16	0.0295	20	0.11	*0.29*	-4	125%	1%	*2%*
PW-1 Average	**23**	**0.0468**	**32**	**0.13**	***0.29***	**-9**	**143%**	**1%**	***2%***
PW-2	31	0.0605	41	*0.135*	NA	-10	132%	*0%*	NA
	27	0.0638	43	*0.08*	NA	-16	160%	*0%*	NA
	18	0.0452	31	*0.15*	NA	-13	170%	*1%*	NA
	1.4	0.0078	5	*0.095*	NA	-4	377%	*7%*	NA
	21	0.0204	14	*0.125*	NA	7	66%	*1%*	NA
	2.4	0.0033	2	0.10	*0.36*	0	93%	4%	*15%*
PW-2 Average	**17**	**0.0335**	**23**	**0.11**	***0.36***	**-6**	**166%**	**2%**	***15%***
PW-3	40	0.0826	56	0.26	NA	-16	140%	1%	NA
	35	0.0837	57	*0.10*	NA	-22	162%	*0%*	NA
	32	0.0797	54	*0.175*	NA	-22	169%	*1%*	NA
	33	0.0731	49	0.23	NA	-17	150%	1%	NA
	23	0.0771	52	0.48	NA	-30	227%	2%	NA
	25	0.0665	45	0.25	*0.27*	-21	180%	1%	*1%*
PW-3 Average	**31**	**0.0771**	**52**	**0.25**	***0.27***	**-21**	**171%**	**1%**	***1%***
Davis Well	**15**	**0.0352**	**24**	**0.33**	***0.32***	**-9**	**159%**	**2%**	***2%***
BLM Well	**16**	**0.0389**	**26**	**0.47**	***0.32***	**-11**	**165%**	**3%**	***2%***
Boren Well	**16**	**0.0416**	**28**	**0.13**	***0.275***	**-13**	**176%**	**1%**	***2%***
Stone Spring	17	0.0510	35	0.07	*0.295*	-18	203%	0%	*2%*
	18	0.0527	36	0.20	*0.39*	-18	198%	1%	*2%*
Stone Spring Average	**18**	**0.0519**	**35**	**0.14**	***0.34***	**-18**	**201%**	**1%**	***2%***

Results less than the lower detection limit are expressed in *italics* as values of one half of the lower detection limit

FIGURES



Golder Associates

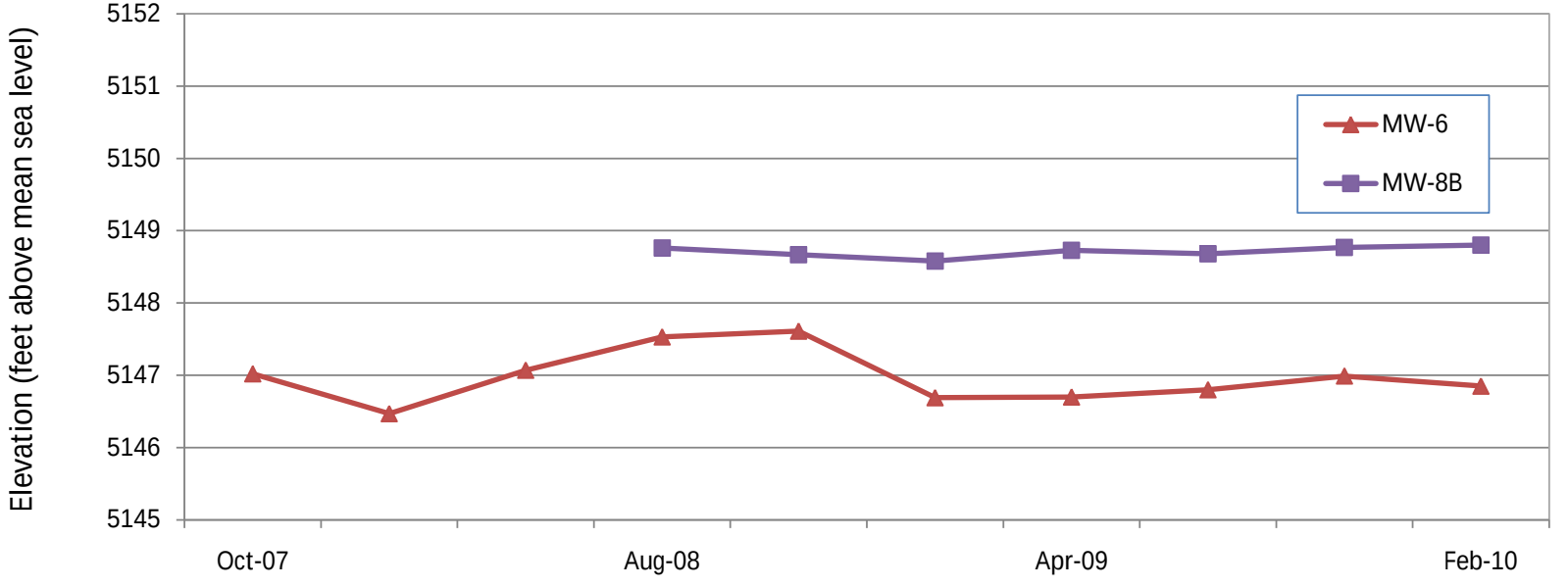
DENVER, COLORADO USA

Water Levels - Chinle/Moenkopi Aquifer

Energy Fuels Resources Corporation
Piñon Ridge Project

Date	Job No.
Apr-10	**073-81694**
File name: *GW Addendum Tables and Figure.xlsx*	**Figure 1**

I:\07\81694\0100\GW Addendum_Dft-07Apr10\GW Addendum Tables and Figures.xlsx



Golder Associates

DENVER, COLORADO USA

Water Levels - Moenkopi/Hermosa Contact

Energy Fuels Resources Corporation
Piñon Ridge Project

Date	Job No.
Apr-10	**073-81694**
File name: *GW Addendum Tables and Figure.xlsx*	**Figure 2**

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ATTACHMENT A
LABORATORY REPORTS

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

November 13, 2009

Report to:
Zach Rogers
Energy Fuels Resources Corporation
44 Union Blvd. Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources Corporation
44 Union Blvd. Suite 600
Lakewood, CO 80228

Project ID: PINON RIDGE
ACZ Project ID: L78897

Zach Rogers:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 19, 2009. This project has been assigned to ACZ's project number, L78897. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L78897. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 13, 2009. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antalek has reviewed and approved this report.

Energy Fuels Resources Corporation

November 13, 2009

Project ID: PINON RIDGE
ACZ Project ID: L78897

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 13 ground water samples from Energy Fuels Resources Corporation on October 19, 2009. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L78897. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. This report constitutes additional analyses for various previously reported ACZ ground water projects. See individual Radio Chemistry Analytical Results pages for specific report numbers.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: MW-6
Locator:

ACZ Sample ID: ***L78897-01***
Date Sampled: *07/28/09 8:22*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:27		13	3.8	10	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:31		0.04	0.35	0.59	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77238-01.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: MW-8
Locator:

ACZ Sample ID: ***L78897-02***
Date Sampled: *07/29/09 15:01*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:29		5.4	1.6	4.2	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:32		-0.18	0.35	0.59	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77258-01.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
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RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: DAVIS WELL
Locator:

ACZ Sample ID: ***L78897-03***
Date Sampled: *07/29/09 17:39*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:30		4.3	1.7	4.8	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:34		-0.3	0.35	0.64	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77259-01.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: DUPLICATE
Locator:

ACZ Sample ID: ***L78897-04***
Date Sampled: *07/29/09 0:00*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:32		3.8	1.7	4.7	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:35		0.03	0.31	0.53	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77259-02.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: PW-1
Locator:

ACZ Sample ID: ***L78897-05***
Date Sampled: *07/30/09 18:22*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:33		-0.06	1.7	5	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:37		-0.24	0.25	0.58	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-01.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: BLM WELL
Locator:

ACZ Sample ID: ***L78897-06***
Date Sampled: *07/30/09 16:39*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:35		-0.73	1.4	4.3	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:38		0.06	0.45	0.64	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-02.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: MW-5
Locator:

ACZ Sample ID: ***L78897-07***
Date Sampled: *07/31/09 7:55*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:36		1.1	1.4	4.1	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:39		0.05	0.26	0.61	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-03.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: MW-7
Locator:

ACZ Sample ID: ***L78897-08***
Date Sampled: *07/31/09 9:21*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:37		0.21	1	3	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:41		-0.01	0.29	0.59	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-04.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: PW-2
Locator:

ACZ Sample ID: ***L78897-09***
Date Sampled: *07/31/09 11:10*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:39		1.7	1.5	4.2	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	10/21/09 15:42		0.21	0.39	0.72	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-05.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: PW-3
Locator:

ACZ Sample ID: ***L78897-10***
Date Sampled: *07/31/09 13:18*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:40		0.49	1.6	4.6	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/09 7:34		-0.24	0.4	0.54	pCi/L	*	mtb

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-06.

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: BOREN WELL
Locator:

ACZ Sample ID: ***L78897-11***
Date Sampled: *08/02/09 9:48*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:42		2.5	1.7	4.9	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/09 7:36		-0.43	0.36	0.55	pCi/L	*	mtb

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-07.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: STONE SPRING
Locator:

ACZ Sample ID: ***L78897-12***
Date Sampled: *08/02/09 11:09*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:43		0.84	1.3	3.5	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/09 7:37		-0.2	0.37	0.59	pCi/L	*	mtb

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-08.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: DUPLICATE
Locator:

ACZ Sample ID: ***L78897-13***
Date Sampled: *08/02/09 0:00*
Date Received: *10/19/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/09 11:45		0.3	1.3	3.8	pCi/L	*	dhc

Thorium 230, dissolved
ESM 4506
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/09 7:39		-0.25	0.38	0.58	pCi/L	*	mtb

Note: This report is for additional analysis of the sample previously reported as ACZ project L77288-09.

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	MS/MSD	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	PBS	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	PBW	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Replicate Error Ratio (RER) accepted because sample concentrations are less than 10x the MDL.
U	No nuclides detected above the Lower Limit of Detection (LLD)
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
X	QC is out of control. See Case Narrative.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998).
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

Energy Fuels Resources Corporation ACZ Project ID: ***L78897***

Project ID: PINON RIDGE

Lead 210, dissolved EICHROM, OTW01 pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG274079																
WG273398PBW	PBW	11/10/09						4.8	1.4	3.8			7.6			
WG273398LCSW	LCSW	11/10/09	RC091112-1	78.93				66	2.9	4.3	83.6	58	111			
L78897-02DUP	DUP-RER	11/10/09			5.4	1.6	4.2	1.3	1.4	3.5				1.93	2	
L78898-02DUP	DUP-RER	11/10/09			0.93	2.4	6.5	5.7	2.2	5.5				1.47	2	
L78897-03MS	MS	11/10/09	RC091112-1	78.93	4.3	1.7	4.8	70	2.9	3.9	83.2	58	111			

Thorium 230, dissolved ESM 4506 pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG273033																
WG272492PBW	PBW	10/21/09						.33	0.4	0.58			1.16			
WG272492LCSW	LCSW	10/21/09	RC080917-3	162.12				170	4.2	0.53	104.9	92	119			
L78897-01DUP	DUP-RER	10/21/09			0.04	0.35	0.59	-.16	0.28	0.58				0.45	2	
L78897-06MS	MS	10/21/09	RC080917-3	162.12	0.06	0.45	0.64	170	4.3	0.57	104.8	92	119			
WG274059																
WG273752PBW	PBW	11/11/09						.09	0.38	0.56			1.12			
WG273752LCSW	LCSW	11/11/09	RC080917-3	162.12				180	4.3	0.52	111	92	119			
L78897-10DUP	DUP-RER	11/11/09			-0.24	0.4	0.54	.2	0.39	0.52				0.79	2	
L78897-12MS	MS	11/11/09	RC080917-3	162.12	-0.2	0.37	0.59	190	6.5	1.2	117.3	92	119			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadChem Extended Qualifier Report

Energy Fuels Resources Corporation ACZ Project ID: ***L78897***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Radiochemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Lead 210, dissolved	EICHROM, OTW01
Thorium 230, dissolved	ESM 4506

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Energy Fuels Resources Corporation
PINON RIDGE

ACZ Project ID: L77238
Date Received: 7/30/2009
Received By:
Date Printed: 7/30/2009

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Is the trip blank for Cyanide present?			X
12) Is the trip blank for VOA present?			X
13) Are samples requiring no headspace, headspace free?			X
14) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
1712	3.7	12

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Added 10 mls nitric acid to the green cubes and 2 mls to the green to adjust the pH to the appropriate range.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Energy Fuels Resources Corporation
PINON RIDGE

ACZ Project ID: L77238
Date Received: 7/30/2009
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L77238-01	MW-6		Y		Y				Y			

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L78897-
Relock
677238
10-19-09

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Zach Rogers
Company: Energy Fuels Resources
E-mail: z.rogers@energyfuels.com
Address: 44 Union Blvd. Suite 600
Lakewood, CO 80228
Telephone: 303-974-2151

Copy of Report to:

Name:
Company:
E-mail:
Telephone:

Invoice to:

Name: Zach Rogers
Company: Energy Fuels Resources
E-mail: z.rogers@energyfuels.com
Address: 44 Union Blvd, Suite 600
Lakewood, CO 80228
Telephone: 303-974-2151

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES: Yes
NO:

PROJECT INFORMATION

Quote #: Pinon-Ridge-QTRLY
Project/PO #: Piñon Ridge
Reporting state for compliance testing: NO
Sampler's Name: Jess W Fulbright
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Pinon-Ridge-Qtrly
MW-6	7-28-09:0822MST	GW	7	X

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other

REMARKS/ SAMPLE DISCLOSURES

Filtered in field. No preservative in cubes or Green PC. All times are Mountain Standard Time.

PAGE 1 of 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jess W Fulbright	7-28-09 1215MST	[illegible]	7-30-09 8:33

FRMAD050.03.05.02

L77258 L78897-Relog

ACZ Laboratories, Inc.

LOG 10-19-09

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name:	Zach Rogers	Address:	44 Union Blvd. Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
E-mail:	z.rogers@energyfuels.com	Telephone:	303-974-2151

Copy of Report to:

Name:		E-mail:	
Company:		Telephone:	

Invoice to:

Name:	Zach Rogers	Address:	44 Union Blvd, Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
E-mail:	z.rogers@energyfuels.com	Telephone:	303-974-2151

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [Yes] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: Pinon-Ridge-QTRLY
Project/PO #: Piñon Ridge
Reporting state for compliance testing: NO
Sampler's Name: Jess W Fulbright
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Pinon-Ridge-Qtrly
MW-8	7-29-09:1501MST	GW	7	X

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other

REMARKS/ SAMPLE DISCLOSURES

Filtered in field. No preservative in cubes or Green PC. All times are Mountain Standard Time.

PAGE 1 of 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY	DATE:TIME	RECEIVED BY:	DATE:TIME
Jess W Fulbright	7-30-09 1000MST	[illegible]	7-31-09 10:03

ERMAD050.03.05.02 White - Return with samples

~~L77259~~ L78897 - Relog

L88101909

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name:	Zach Rogers	Address:	44 Union Blvd. Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
E-mail:	z.rogers@energyfuels.com	Telephone:	303-974-2151

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Invoice to:

Name:	Zach Rogers	Address:	44 Union Blvd, Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
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PROJECT INFORMATION

Quote #: Pinon-Ridge-QTRLY
Project/PO #: Piñon Ridge
Reporting state for compliance testing: NO
Sampler's Name: Jess W Fulbright
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Pinon-Ridge	Pinon-Ridge Dup						
Davis Well	7-29-09:1739MST	GW	7	X							
Duplicate					X	LB6731-09					

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other

REMARKS/ SAMPLE DISCLOSURES

Filtered in field. No preservative in cubes or Green PC. All times are Mountain Standard Time.

PAGE 1 of 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jess W Fulbright	7-30-09 1000MST	LBS	7/31 0910-53

ERMAD050.03.05.02 White - Return with samples Yellow - Retain for your records

~~L77288~~ L78897-Relog

L0010199

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name:	Zach Rogers	Address:	44 Union Blvd. Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
E-mail:	z.rogers@energyfuels.com	Telephone:	303-974-2151

Copy of Report to:

Name:		E-mail:	
Company:		Telephone:	

Invoice to:

Name:	Zach Rogers	Address:	44 Union Blvd, Suite 600
Company:	Energy Fuels Resources		Lakewood, CO 80228
E-mail:	z.rogers@energyfuels.com	Telephone:	303-974-2151

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If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #: Piñon-Ridge
Project/PO #: Piñon Ridge
Reporting state for compliance testing: NO
Sampler's Name: Jess W Fulbright
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Piñon-Ridge	Piñon-Ridge-Quarterly	Duplicate					
PW-1	7-30-09:1822MST	GW	7		X						
BLM Well	7-30-09:1639MST	GW	7	X							
MW-5	7-31-09:0755MST	GW	7		X						
MW-7	7-31-09:0921MST	GW	7		X						
PW-2	7-31-09:1110MST	GW	7		X						
PW-3	7-31-09:1318MST	GW	7		X						
Boren Well	8-2-09:0948MST	GW	7	X							
Stone Spring	8-2-09:1109MST	GW	7	X							
Duplicate	XXXX:XXXX	GW	3			X					

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other

REMARKS/ SAMPLE DISCLOSURES

Filtered in field. Please read labels carefully, preservatives are coming hit and miss. Times on labels on BLM Well samples were wrong should all be 1 hour earlier. Corrected on this COC. All times are Mountain Standard Time.

PAGE 1 of 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jess W Fulbright	8-3-09 1040MST	[illegible]	8/4/09 10:16

ERMAD050.03.05.02 White - Return with samples Yellow - Retain for

Laura Z. Graham

From: Tony Antalek
Sent: Monday, October 19, 2009 2:26 PM
To: Sample Receiving
Cc: Billy Grimes; Michael Beaty; DocC
Subject: FW: Please check for available volume and pull the following EFRC samples.....

Y'all,

Please log-in the samples listed below for ADDITIONAL ANALYSIS for the parameters indicated:

GWs – Need additional analysis for Dissolved Th-230 (TH230-D-ESM) and Dissolved Pb-210 (PB210-D-EICHROM)
L77238-01, L77258-01, L77259-01 & -02, L77288-01 thru -09 (3rdQtr09)

SWs – Need additional analysis for Total & Dissolved Pb-210 (PB210-T-EICHROM & PB210-D-EICHROM)
L77237-01, -02 & -04 (7/28/09)
L76939-01 & -02 (7/12/09)
L76729-01 & -02 (6/30/09)
L76572-01 & -02 (6/22/09)
L76095-01 & -02 (5/27/09)

COC copies are on the bulletin board in Log-In – RadChem has pulled the samples.

Please call or e-mail with any questions or concerns.

Thanks for your help,

Tony

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

December 21, 2009

Report to:
Zach Rogers
Energy Fuels Resources Corporation
44 Union Blvd. Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources Corporation
44 Union Blvd. Suite 600
Lakewood, CO 80228

Project ID: PINON RIDGE
ACZ Project ID: L79654

Zach Rogers:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 30, 2009. This project has been assigned to ACZ's project number, L79654. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L79654. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 21, 2010. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antalek has reviewed and approved this report.

Energy Fuels Resources Corporation

December 21, 2009

Project ID: PINON RIDGE
ACZ Project ID: L79654

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from Energy Fuels Resources Corporation on November 30, 2009. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L79654. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports.The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. This report constitutes additional analysis of the project previously reported as L79046.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Energy Fuels Resources Corporation
Project ID: PINON RIDGE
Sample ID: STONE SPRING
Locator:

ACZ Sample ID: ***L79654-01***
Date Sampled: *10/21/09 17:08*
Date Received: *11/30/09*
Sample Matrix: *Ground Water*

Lead 210, dissolved
EICHROM, OTW01
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	12/17/09 9:00		3.5	1.6	4	pCi/L	*	mwm

Thorium 230, dissolved
ESM 4506
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	12/16/09 8:02		0.0	0.28	0.78	pCi/L	*	mwm

Note: This report is for additional analysis of the sample previously reported as ACZ project L79046-01.

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	MS/MSD	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	PBS	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	PBW	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Replicate Error Ratio (RER) accepted because sample concentrations are less than 10x the MDL.
U	No nuclides detected above the Lower Limit of Detection (LLD)
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
X	QC is out of control. See Case Narrative.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998).
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

Radiochemistry QC Summary

Energy Fuels Resources Corporation ACZ Project ID: ***L79654***

Project ID: PINON RIDGE

Lead 210, dissolved EICHROM, OTW01 pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG275856																
WG275407PBW	PBW	12/17/09						5	1.7	4.3			8.6			
WG275407LCSW	LCSW	12/17/09	RC090330-1	78.68				66	3.1	4.4	83.9	58	111			
L79653-02MS	MS	12/17/09	RC090330-1	78.68	0	1.6	4.5	69	3.1	4.3	87.7	58	111			
L79653-01DUP	DUP-RER	12/17/09			2.7	2	5.3	0	1.6	4.3				1.05	2	

Thorium 230, dissolved ESM 4506 pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG275832																
WG275688PBW	PBW	12/16/09						-.13	0.44	0.93			1.86			
WG275688LCSW	LCSW	12/16/09	RC091215-1	162.12				170	5.3	0.88	104.9	92	119			
L79826-01DUP	DUP-RER	12/16/09			-0.41	0.42	0.85	-.14	0.39	0.89				0.47	2	
L79826-02MS	MS	12/16/09	RC091215-1	162.12	-0.26	0.29	0.81	160	4.8	0.72	98.9	92	119			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadChem Extended Qualifier Report

Energy Fuels Resources Corporation ACZ Project ID: ***L79654***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Radiochemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Lead 210, dissolved	EICHROM, OTW01
Thorium 230, dissolved	ESM 4506

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Energy Fuels Resources Corporation
PINON RIDGE

ACZ Project ID:	L79046
Date Received:	10/23/09 0:00
Received By:	gac
Date Printed:	10/23/2009

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1537		3.2	14

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Energy Fuels Resources Corporation
PINON RIDGE

ACZ Project ID: L79046
Date Received: 10/23/09 0:00
Received By: gac

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L79046-01	STONE SPRING		Y		Y				Y			

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac

L79654-Reloq

ACZ Laboratories, Inc. — CHAIN of CUSTODY

L79046 10.30.09

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Zach Rogers
Company: Energy Fuels Resources
E-mail: z.rogers@energyfuels.com
Address: 44 Union Blvd. Suite 600
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YES: Yes
NO:

PROJECT INFORMATION

Quote #: Piñon-Ridge
Project/PO #: Piñon Ridge
Reporting state for compliance testing: NO
Sampler's Name: Jess W Fulbright
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Piñon-Ridge	Piñon-Ridge-Quarterly	Duplicate					
Stone Spring	10/21/09:1708	GW	7	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other

REMARKS/ SAMPLE DISCLOSURES

Filtered in field. All times are Mountain Standard Time.

PAGE 1 of 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jess W Fulbright	10-21-09 1045MST	[illegible]	10.21.09 [illegible]

ERMAD050.03.05.02 White - Return with sample