

NESHAPS RADON FLUX MEASUREMENT PROGRAM

White Mesa Mill, 1996

Prepared for:

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1.0 INTRODUCTION

During September 1996, Tellco Environmental L.L.C. (Tellco) provided support to Energy Fuels Nuclear, Inc. (Energy Fuels) regarding their required National Emission Standards for Hazardous Air Pollutants (NESHAPs) Radon Flux Measurement effort on Tailings Cells 2 and 3 at the White Mesa Mill uranium processing facility in Blanding, Utah. These measurements are required of Energy Fuels to show compliance with 40 Code of Federal Regulations, Part 61, Subpart W, National Emission Standards for Radon Emissions from Operating Mill Tailings. At present, there are no Subpart T uranium mill tailings at this site. As required by the regulations, the NESHAPs monitoring for existing mill tailings piles is a flux standard that limits the emission of radon from piles. The standard limits the amount of radon that can be emitted per unit area (m^2) per unit of time (s). This standard is not an average per facility, but is an average per radon source. According to subsection 61.252 Standard, (a) radon-222 emissions to ambient air from an existing uranium mill tailings pile shall not exceed 20 pCi/ m^2 -s of radon-222. Subsection 61.253 Determining Compliance, states that: "Compliance with the emission standard in this subpart shall be determined annually through the use of Method 115 of Appendix B."

Tellco was contracted to provide radon collectors, field placement/retrieval of said collectors, and analysis for calendar year 1996. This report addresses the procedures employed by Tellco to obtain the results presented in Section 6.0 of this report.

2.0 SITE DESCRIPTION

The White Mesa Mill is located south of Blanding, Utah on Highway 191. The mill began operations in 1980 for the purpose of extracting uranium and vanadium from feed stocks. Processing effluents from the operation are deposited in four "lined" cells which vary in depth. Cells 1-I and 4A are used solely for "liquor" storage, and Cells 2 and 3 are used for sand tailings/liquor deposition.

Cell 2 has a total area of approximately 270,624 square meters (m^2). This cell was comprised of two source regions that required NESHAPs radon monitoring: approximately 233,095 m^2 of the cell had a soil cover of varying thickness, with approximately 37,529 m^2 of exposed tailings "beaches". There was no standing liquid in "low" elevation areas within Cell 2.

Cell 3 has a total area of 288,858 m^2 . This cell was comprised of two source regions that required NESHAPs radon monitoring: approximately 84,051 m^2 of the cell had a soil cover of varying thickness, with approximately 41,702 m^2 of exposed tailings "beaches". The remaining approximately 163,105 m^2 was covered by standing liquid in "low" elevation areas.

Due to worker health and safety concerns expressed by both Energy Fuels site personnel and Tellco monitoring staff, some of the areas of the wet beaches of Cell 2 and Cell 3 were not sampled due to the extreme instability of wet tailings beaches.

3.0 SAMPLER DESCRIPTION

The Large Area Activated Charcoal Canisters (LAACC) used by Tellco personnel to perform the required radon measurements were fabricated in conformance with "Radon Flux Measurements on Gardinier and Royster Phosphogypsum Piles near Tampa and Mulberry, Florida" (NTIS Document #PB86-161874) as referenced in 40 CFR, Part 61, Method 115, Appendix B. This method of performing radon flux measurements involves the adsorption of radon on activated charcoal in a large-area collector.

The charged collector is placed directly on the material surface to be measured and is allowed to collect radon for a given time period (24 hours). The radon collected on the activated charcoal is then measured by means of gamma spectroscopy.

Each LAACC was constructed using a 10-inch diameter PVC end cap, spacer pads, charcoal distribution grid, retainer screens, pads, and a steel retainer ring (see Figure 3-1).

Prior to deployment, each collector was charged with 180 grams of baked charcoal from sealed individual sample containers (reference Section 5.0 below for laboratory procedures). After the 24 hour measurement period, the exposed charcoal was transferred to the plastic sample containers, sealed air-tight (with tape), labeled as to sample identification along with exposure times/dates, and transferred to the Tellco laboratory (Grand Junction, Colorado) facility for analysis.

4.0 FIELD OPERATIONS

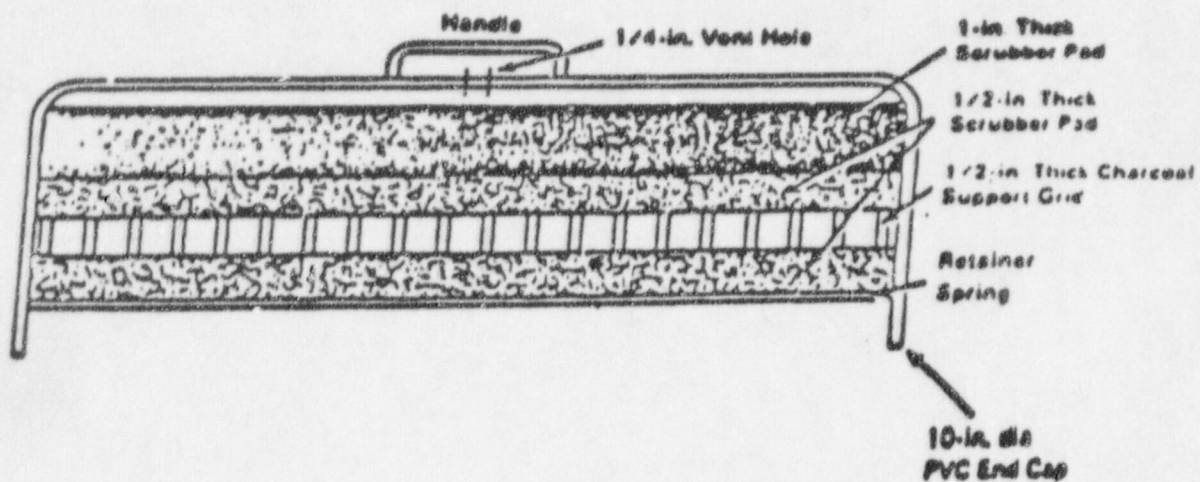
4.1 General Site Specific Information

Tellco personnel laid out baselines along the sides of Cells 2 and 3, and a grid coordinate location system was developed to accommodate locating the samplers in the field.

The sampling effort commenced on the morning of September 23, 1996, after site specific health and safety training provided by Energy Fuels Health and Safety personnel. Tellco field technicians laid out the grid system on Cell 2 and Cell 3 using a measuring tape, pacing, and line-of-sight markings. Boundary distinctions between the three source regions were established by visual inspection and so noted on the field maps. Tellco personnel placed a minimum/maximum thermometer within each of the two cells, respectively, during sampling, measuring ambient air temperatures at the site, to monitor compliance with the 35°F measurement criterion.

FIGURE 3-1

Large Area Radon Collector (LAACC)



From Appendix A, page A.1, "Radon Flux Measurements on Gardiner and Royster Phosphogypsum Piles near Tampa and Mulberry, Florida" (NTIS Document #PB86-161874).

4.2 Sampler Placement

Radon measurements were made in conformance with methods described in NTIS Document #PB86-161874 for each 100 sample measurement set for each source region.

In addition to the 100 samples, each sample set consisted of 5% field blanks. The spacing distribution for each set of 100 measurements was determined by visual means and a "best fit" distribution pattern for each source region. Field personnel safety was paramount in the distribution of samplers over "wet beach" regions due to the loose, unconsolidated condition of the saturated tailings, which are similar in consistency to "quicksand."

Placement of collectors was accomplished using vehicles where possible on cover regions, and by foot travel during placement on tailings "beaches".

A collector was chosen and the retaining ring, screen and foam pad removed to expose the charcoal support grid. A pre-measured charcoal charge was selected from a batch, opened and distributed evenly across the area of the support grid. The collector was then re-assembled and gently placed face down on the surface to be measured. Care was exercised not to "push" the device into the soil surface. The collector rim was "sealed" to the surface using a berm of local borrow material (either tailings or soil) to reduce dilution due to air or wind currents within the collector.

A sample identification number was then assigned to the collector. Sample numbers utilized an alpha-numeric system composed of the charcoal batch letter (i.e., A, B, C . . .) followed by a sequential number indicating the placement (i.e., 01, 02, . . .). This sample identification number was recorded on an adhesive label and placed on the top of the collector. The sample ID, date, and time of placement were recorded on a master data sheet for each set of measurements.

During placement of charcoal flux collectors, five field blanks were collected. The procedure for field blanks was to charge a collector with charcoal, and place it inside an air-tight container. The blank remained in the sealed collector for the 24-hour sample time period.

4.3 Sampler Retrieval

Retrieval of the collectors followed the same pattern as placement. The collectors were disassembled and the charged charcoal removed by pouring from the collector into a large funnel suspended above a sample charge container. The sample ID number was transferred to the charge container which was sealed and placed in a box for transport. The date and time of retrieval were recorded on the same data sheet as the sample placement information.

Each charged collector was retrieved upon completion of the measurement time period (approximately 24 hours). Upon retrieval of the collectors, the field blanks were retrieved and the charged charcoal returned to a container, sealed, and labeled as such, and returned for analysis along with the measurement set. Sample data sheets accompanied the shipment to the laboratory. Telco personnel maintained custody and assured timely delivery of the samples to the Telco Grand Junction laboratory for prompt analysis of the charcoal samples.

4.4 Site Exit

Telco field personnel and equipment were alpha scanned for possible contamination resulting from field work activities. All equipment and field personnel were surveyed and released for unrestricted use by Energy Fuels Health and Safety personnel.

4.5 Environmental Conditions during Measurement Periods

Referencing 40 CFR, Part 61, Subpart W, Appendix B, Method 115 - Monitoring for Radon-222 Emissions, Subsection 2.1.4 - Restrictions to Radon Flux Measurements, "the following restrictions are placed on making radon flux measurements:

- (a) Measurements shall not be initiated within 24 hours of a rainfall.
- (b) If a rainfall occurs during the 24 hours measurement period, the measurement is invalid if the seal around the lip of the collector has washed away or if the collector is surrounded by water.

- (c) Measurements shall not be performed if the ambient temperature is below 35°F or if the ground is frozen."

Site Specific Discussion

- (a) Prior to commencement of any sampler placement, rainfall amounts (if any) were ascertained at the Energy Fuels weather station rain gauge. No measurable rainfall occurred during the 24 hour period preceding placement of the LAACC samplers at the site, although 0.03" of rainfall which was measured overnight September 25-26, 1996 delayed the placement of collectors until the morning of September 27, 1996 on Cell 2 cover region.
- (b) During all 24-hour sample set placements, the minimum ambient air temperature recorded by Telco at the site was 36°F, recorded overnight September 27-28, 1996.

5.0 LABORATORY OPERATIONS

5.1 Introduction

Activated charcoal gas adsorption collectors are passive sampling devices used to determine the flux rate of radon-222 gas from a surface area. The charcoal canister used consists of a 10-inch PVC cap containing a bed of 180 grams of activated, granular charcoal placed in a distribution grid on top of a 1½ inch thick layer of foam and secured under a ¼ inch foam layer and a galvanized steel screen by a retaining ring.

Sample collection is initiated by placing 180 grams of unexposed charcoal from a sealed container into the above described canister and, after securing the retaining ring, placing the canister (open face down) onto the surface to be tested. Radon gas is adsorbed on the contained charcoal and subsequent radioactive decay of the entrained radon results in the occurrence of radioactive lead-214 and bismuth-214 in the canister.

These radon progeny isotopes emit characteristic gamma photons which can be detected. The original total activity of the adsorbed radon can be calculated from these gamma ray measurements using empirical calibration factors derived from cross-calibration of source standards containing a known total activity of radium-226 in a geometry identical to the samples to be counted.

5.2 Apparatus

- Single- or multi-channel pulse height analysis system, Ludlum Model 2200 with a Teledyne 3" x 3" NaI(Tl) detector.
- Lead shielded counting well approximately 40 cm deep with 5 cm thick lead walls and a 7 cm thick base and 5 cm thick top.
- NIST traceable aqueous solution radium-226 absorbed onto 180 grams of activated charcoal calibration source.
- Ohaus Model C501 balance with 0.1 gram sensitivity

5.3 Analysis Procedure

Inspection of the Charcoal Container

Charcoal was received at the analytical laboratory in the sealed sample containers. Upon receipt, the integrity of the container was verified by visual inspection of the plastic container.

Sample Identification Numbers

Each sample container had a unique sample identification number which was determined in the field, and written onto a label attached to the sample container.

Drying and Recycling

All charcoal was dried before use in the field for radon flux measurements. Procedures were the same for newly prepared charcoal and for charcoal recycled after field use. Charcoal was dried at approximately 110°C. Drying procedures were as follows:

- Oven temperature set to 110°C.
- Charcoal placed in the oven in a metal baking tray.
- Baked for 24 hours.
- Immediately after the tray was removed, approximately 180 grams of charcoal were transferred into clean sample containers and sealed with plastic tape.

5.4 Weighing and Background Counting

Proper balance operation was verified daily by checking with a standard weight. The balance readout should agree with the known standard weight to within $\pm 0.1\%$.

If a discrepant readout was obtained, the balance was re-zeroed, the check weight wiped with a soft, lint-free cloth, and re-weighed. If the discrepancy persisted, the balance would have been removed from service and tagged "Out of Service." For this project, the scale conformed for each day of use (See Appendix A, Balance Operation Daily Check form).

After acceptable balance checkout, each empty container was individually placed on the balance and the tare weight of the container was documented to the nearest 0.1 grams on the label. The scale was re-zeroed with the container on the balance. Charcoal was carefully added to the container until the readout registered approximately 180 grams. The lid was immediately placed on the container and sealed with plastic tape. The tape was stretched slightly while wrapping around the container. The end of the tape was folded to form a tab for easy tape removal. The balance was checked for readout drift between each container weighing step.

Gamma ray counting system checkout was performed as described in Section 5.6. A five-minute background count was acquired for five containers selected at random to represent the "batch." Each sealed container was placed individually in the shielded counting well, with the bottom of the container centered on the detector.

Observed empty counting well background counts must fall within the average range of approximately 133 to 163 cpm using the aforementioned Ludlum/Teledyne counting system with shielded well. The background count rate was then documented for the five containers, and subsequently documented on the respective "Radon Flux Field Data Sheet" for that batch. If the background counts were too high to achieve a sufficiently low sensitivity level (Lower Level of Detection, LLD), the entire batch was labeled non-conforming and recycled through the drying process.

5.5 Receipt and Weighing of Exposed Charcoal

Containers of exposed charcoal were transported from the site and delivered to the laboratory for analysis by Tellico personnel. The Tellico laboratory staff was responsible for weighing and inspecting the exposed canisters; inspecting the documentation forms; and entering the required data documentation to data base spreadsheets.

When the containers were received, the following items were inspected:

- Container was closed and sealed with tape.
- Container was not damaged.
- Data sheet was complete.
- Discrepancies found during the receipt inspection were documented on the data sheet.

Containers received open or damaged resulting in seal failure were considered void and were not analyzed. All samples were received sealed and in good physical condition at the Tellico laboratory.

After receipt inspections, conforming containers were weighed on a balance to the nearest 0.1 gram and the gross weight was logged on the "Radon Flux Field Data Sheet" under the appropriate column. During the transfer and recontainerization of charcoal from the LACCs sampling Cell 2 beaches region, "clean" charcoal was accidentally poured over the top of exposed charcoal (Sample F63) which had just been transferred into a container for subsequent analysis. Prior to analysis the container was opened at the Tellico laboratory and the top layer of charcoal was removed from within the container until a weight comparable to a typical container of charcoal was observed; approximately 28 grams of charcoal was removed. It is possible that a small amount of the exposed charcoal might have been removed as well, and the reported sample results for Sample F63 could be biased slightly low.

5.6 Gamma Ray Counting

Source/Background Checks

The charcoal gamma ray counting system was subjected to performance checks daily when used. These checks included background and radium-226 check source measurements. (Appendix A of this report contains daily counting system performance check records.)

Sample Analysis

- The length of count time was determined by the activity of the sample being analyzed. A data quality objective establishing a minimum accrual of 1000 counts for any given sample was followed during sample analyses.
- The sample container was placed in the counting well with the lid side up and the center on the NaI detector and the shielded well door was set into place.
- One sample count was accrued and the mid-sample count time and date was documented on the field data sheet.
- The sample counts were documented on the field data sheet for data reduction.
- The above steps were repeated for each exposed sample collector.
- Approximately 10% of the containers counted on a given date were selected for recounting. These containers were recounted no sooner than 1 day and no longer than 10 days following the original count.

5.7 Quality Control Samples

Charcoal flux measurement QC samples included the following intra-laboratory analytical objectives as required in 40 CFR, Part 61, Subpart W, Appendix B, Method 115, 4.0 - Quality Assurance Procedures for Measuring Ra-222 Flux, D.:

- recounts, 10%, and
- field blanks, 5%.

5.8 Data Validation - Recounts/Blanks

All sample canister data were subjected to validation protocols. The following presents data validation results:

Forty recount measurements were performed by conducting replicate analyses of individual field samples. These recount measurements comprised approximately 10% of the total number of samples analyzed. The precision of all recount measurements ranged from less than 1% to 6.5% with an overall average precision of approximately 2.6%. This recount precision is well within the expected variability of the analytical method.

Twenty field blanks were analyzed by measuring the radon progeny activity in samples subjected to all aspects of the measurement process, excepting exposure to the source region. These blank sample measurements comprised approximately 5% of the field measurements. The results of the blank sample analyses measured radon flux rates which were less than or equal to 0.3 pCi/m²-s, which corresponds to approximately 1.5% of the regulatory limit of 20 pCi/m²-s.

The objective is 100 samples to be collected from each region, as specified by the regulations. The following is the actual completeness attained during Tellico's sampling program (EPA rules and regulations specify an 85% completeness objective):

- Cell 2, Cover - 100 samples = 100% completeness
- Cell 2, Beach - 100 samples = 100% completeness
- Cell 3, Cover - 100 samples = 100% completeness
- Cell 3, Beach - 100 samples = 100% completeness

As presented above, actual QC validation met the objective parameter requirements.

5.9 Calculations

Radon flux rates were calculated for charcoal collection samples using empirical calibration factors derived from cross-calibration of sources with known total activity with identical geometry as the charcoal containers. A yield efficiency factor was used to calculate the total activity of the sample charcoal containers.

In practice, radon flux rates were calculated by a data base computer program. The algorithms utilized by the data base program were as follows:

Equation 5.1:

$$\text{pCi Rn-222/m}^2\text{sec} = \frac{N}{[Ts \cdot A \cdot b \cdot 0.5^{(d/91.75)}]}$$

where: N = net sample count rate, cpm under 220-662 keV peak

Ts = sample duration, seconds

b = instrument calibration factor, cpm per pCi; current value:
0.17035

d = decay time, elapsed hours between sample mid-time and count mid-time

A = area of the collector, m²

Equation 5.2:

2σ error = 2 x

$$\frac{\sqrt{\frac{\text{Gross sample, cpm}}{\text{Sample count, t, min}} + \frac{\text{Bkgd, cpm}}{\text{Bkgd count t, min}}}}{\text{Net cpm}} \quad (\text{sample concentration})$$

Equation 5.3:

$$\text{LLD} = \frac{(CF)(S_b)}{[Ts \cdot A \cdot b \cdot 0.5^{(d/91.75)}]}$$

where: CF = confidence factor of the background standard deviation

S_b = standard deviation of the background count rate

Ts = sample duration, seconds

b = instrument calibration factor, cpm per pCi; current value:
0.1827

d = decay time, elapsed hours between sample mid-time and count mid-time

A = area of the collector, m²

6.0 SAMPLE RESULTS/CALCULATIONS

Referencing 40 CFR, Part 61, Subpart W, Appendix B, Method 115 - Monitoring for Radon-222 Emissions, Subsection 2.1.7 - Calculations, "the mean radon flux for each region of the pile and for the total pile shall be calculated and reported as follows:

- (a) The individual radon flux calculations shall be made as provided in Appendix A EPA 86(1). The mean radon flux for each region of the pile shall be calculated by summing all individual flux measurements for the region and dividing by the total number of flux measurements for the region.
- (b) The mean radon flux for the total uranium mill tailings pile shall be calculated as follows:

$$J_s = \frac{J_1 A_1 + \dots + J_2 A_2 [+ \dots + J_i A_i]}{A_t}$$

Where: J_s = Mean flux for the total pile ($\text{pCi/m}^2\text{-s}$)
 J_i = Mean flux measured in region i ($\text{pCi/m}^2\text{-s}$)
 A_i = Area of region i (m^2)
 A_t = Total area of the pile (m^2)

2.1.8 Reporting. The results of individual flux measurements, the approximate locations on the pile, and the mean radon flux for each region and the mean radon flux for the total stack [pile] shall be included in the emission test report. Any condition or unusual event that occurred during the measurements that could significantly affect the results should be reported."

Site Specific Sample Results (reference Figure 6-1 and 6-2)

- (a) The mean radon flux for each region within each cell is as follows:

Cell 2 - Cover Area	=	14.2 $\text{pCi/m}^2\text{-s}$ (based on 233,095 m^2 area)
- Beach Areas	=	36.2 $\text{pCi/m}^2\text{-s}$ (based on 37,529 m^2 area)
Cell 3 - Cover Area	=	22.4 $\text{pCi/m}^2\text{-s}$ (based on 84,051 m^2 area)
- Beach Areas	=	93.4 $\text{pCi/m}^2\text{-s}$ (based on 41,702 m^2 area)
- Standing Liquid Areas	=	0 $\text{pCi/m}^2\text{-s}$ (based on 163,105 m^2 area)

Note: Reference Appendix B of this report for entire summary for individual measurement results and specific sample region maps.

(b) Using the data presented above, we have calculated the total mean radon flux for each pile (cell) as follows:

Cell 2 = 17.3 pCi/m²-s

$$\frac{(14.2)(233.095) + (36.2)(37.529)}{270,624}$$

Cell 3 = 20.0 pCi/m²-s

$$\frac{(22.4)(84.051) + (93.4)(41.702) + (0)(163.105)}{288,858}$$

A P P E N D I X A

Support Documents

A P P E N D I X B

Recount Data

A P P E N D I X C

Radon Flux Laboratory Data
and Field Blank Data

A P P E N D I X A

Support Documents

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Standard Weight (g): 200

[illegible]

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Calibration Check Log

System ID: M 01 / D 21 Calibration Date: 8/3/96 Due Date: 8/3/97

Scaler S/N: 701 High Voltage: 1000 Window: 4.42 Threshold: 2.20

Detector S/N: D21 Source ID & S/N: Ra-226
05 04/65 05 Source Activity: 59.3K pCi

Blank Canister Bkgd. Range, cpm: $2\sigma =$ 136 to 158 $3\sigma =$ 130 to 164

Gross Source Range, cpm: $2\sigma = 9979$ to 10385 $3\sigma = 9878$ to 10486

Technician: D.L. Coe

The acceptable ranges were determined from previous background and source check data

[illegible]

Y/N: Y = Daily average background and source cpm falls within the control limits.

N = Daily average background or source cpm does not fall within the control limits.

上

Calibration Check Log

System ID: M02/D20 Calibration Date: 8/3/96 Due Date: 8/3/97

Scaler S/N: M02 High Voltage: 650 Window: 4.42 Threshold: 2.20

Detector S/N: D20 Source ID: RA 220
GS 04/GS 05 Source Activity: 59.3 K pCi

Blank Canister Bkgd. Range, cpm: $2\sigma =$ 133 to 163 $3\sigma =$ 125 to 170

Gross Source Range, cpm: $2\sigma = 10471$ to 10807 $3\sigma = 10387$ to 10891

Technician: D. L. Goss

The acceptable ranges were determined from previous background and source check data.

[illegible]

Y/N: Y = Daily average background and source cpm falls within the control limits.

N = Daily average background or source cpm does not fall within the control limits.

A P P E N D I X B

Recount Data

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: A SURFACE: TAILINGS AIR TEMP MIN: 42 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 24 96 RETRIEVAL: 9 25 96 CHARCOAL BKG CPM: 154 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D CAL. DUE: 8/3/97

RECOUNT ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	PRECISION (RPD) [DIFF]/MEAN
	A02	9 16	9 25	9 26 96	15 15	1	115404	229.2	199.9	20.0	0.03	
RECOUNT	A02	9 16	9 25	9 28 96	19 56	1	76007	229.2	195.9	19.8	0.04	2.0%
	A32	9 48	9 53	9 26 96	15 41	1	7218	229.2	12.3	1.2	0.03	
RECOUNT	A32	9 48	9 53	9 28 96	19 56	1	4541	229.2	12.1	1.2	0.04	1.5%
	A44	10 11	10 20	9 26 96	15 53	1	322119	226.8	557.2	55.7	0.03	
RECOUNT	A44	10 11	10 20	9 28 96	19 57	1	215624	226.8	552.6	55.3	0.04	0.8%
	A51	10 15	10 18	9 26 96	15 58	1	24231	227.2	41.9	4.2	0.03	
RECOUNT	A51	10 15	10 18	9 28 96	19 57	1	17263	227.2	44.1	4.4	0.04	5.1%
	A64	10 28	10 34	9 26 96	16 6	1	27808	226.9	47.9	4.8	0.03	
RECOUNT	A64	10 28	10 34	9 28 96	19 58	1	18159	226.9	46.2	4.6	0.04	3.7%
	A76	10 40	10 55	9 26 96	16 16	1	13861	221.5	23.6	2.4	0.03	
RECOUNT	A76	10 40	10 55	9 28 96	19 58	1	9804	221.5	23.8	2.4	0.04	0.8%
	A80	10 44	10 57	9 26 96	16 19	1	12675	231.8	21.6	2.2	0.03	
RECOUNT	A80	10 44	10 57	9 28 96	19 59	1	8644	231.8	22.1	2.2	0.04	2.5%
	A88	10 52	11 7	9 26 96	16 23	1	23727	222.8	40.6	4.1	0.03	
RECOUNT	A88	10 52	11 7	9 28 96	19 59	1	15859	222.8	39.9	4.0	0.04	1.6%
	A96	10 57	11 15	9 26 96	16 30	1	124008	219.2	212.7	21.3	0.03	
RECOUNT	A96	10 57	11 15	9 28 96	20 0	1	84195	219.2	212.9	21.3	0.04	0.1%
	A100	11 0	11 20	9 26 96	16 33	1	24523	223.4	41.8	4.2	0.03	
RECOUNT	A100	11 0	11 20	9 28 96	20 0	1	17340	223.4	43.5	4.3	0.04	3.9%

AVERAGE PERCENT PRECISION FOR CELL 3 BEACHES REGION: 2.2%

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #2 BATCH: B SURFACE: DIRT AIR TEMP MIN: 36 DEG. F WEATHER: CLEAR, WINDY
 AREA: COVER DEPLOYMENT: 9 27 96 RETRIEVAL: 9 28 96 CHARCOAL BKG CPM: 173 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: WM & AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

RECOUNT ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	PRECISION [DIFF]/MEAN
	B05	8 24	8 38	9 28 96	18 20	1	35565	219.4	52.6	5.3	0.03	
RECOUNT	B05	8 24	8 38	9 29 96	19 46	1	30050	219.4	53.8	5.4	0.03	2.3%
	B13	8 35	8 48	9 28 96	18 28	1	23815	220.4	35.1	3.5	0.03	
RECOUNT	B13	8 35	8 48	9 29 96	19 46	1	20305	220.4	36.2	3.6	0.03	3.0%
	B22	8 19	8 41	9 28 96	18 37	1	22783	221.6	33.8	3.3	0.03	
RECOUNT	B22	8 19	8 41	9 29 96	19 47	1	17990	221.6	31.9	3.2	0.03	4.8%
	B34	8 35	8 49	9 28 96	18 43	1	11053	223.6	16.2	1.6	0.03	
RECOUNT	B34	8 35	8 49	9 29 96	19 47	1	8869	223.6	15.6	1.6	0.03	3.5%
	B39	8 41	8 53	9 28 96	18 46	1	27846	219.9	41.2	4.1	0.03	
RECOUNT	B39	8 41	8 53	9 29 96	19 49	1	23576	219.9	42.1	4.2	0.03	2.2%
	B52	9 4	9 10	9 28 96	19 1	1	42768	219.6	63.6	6.4	0.03	
RECOUNT	B52	9 4	9 10	9 29 96	19 49	1	35781	219.6	64.2	6.4	0.03	0.8%
	B64	9 26	9 22	9 28 96	19 7	1	33016	219.6	49.3	4.9	0.03	
RECOUNT	B64	9 26	9 22	9 29 96	19 51	1	25712	219.6	46.3	4.6	0.03	6.5%
	B84	9 45	9 42	9 28 96	19 24	1	3175	219.6	4.5	0.5	0.03	
RECOUNT	B84	9 45	9 42	9 29 96	19 51	1	2766	219.6	4.7	0.5	0.03	3.8%
	B93	9 55	9 53	9 28 96	19 31	1	2952	219.7	4.2	0.4	0.03	
RECOUNT	B93	9 55	9 53	9 29 96	19 52	1	2354	219.7	3.9	0.4	0.03	5.8%
	B94	9 49	9 54	9 28 96	19 31	1	32799	223.9	48.7	4.9	0.03	
RECOUNT	B94	9 49	9 54	9 29 96	19 52	1	27183	223.9	48.5	4.8	0.03	0.5%

AVERAGE PERCENT PRECISION FOR CELL 2 COVER REGION: 3.3%

CLIENT: ENERGY FUELS PROJECT: RADON FLUX ME/SUREMENTS

PROJECT NO.: 96004.00

PILE: #2 BATCH: F SURFACE: TAILINGS AIR TEMP MIN: 46 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 23 96 RETRIEVAL: 9 24 96 CHARCOAL BKG CPM: 156 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D-20 CAL. DUE: 8/3/97

RECOUNT ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	PRECISION (RPD) [DIFF]/MEAN
	F16	8 14	8 15	9 26 96	13 54	1	22386	227.2	46.4	4.6	0.04	
RECOUNT	F16	8 14	8 15	9 28 96	20 2	1	14655	227.2	45.5	4.6	0.05	1.8%
	F20	8 18	8 17	9 26 96	13 56	1	47961	244.0	99.9	10.0	0.04	
RECOUNT	F20	8 18	8 17	9 28 96	20 2	1	32503	244.0	101.7	10.2	0.05	1.8%
	F28	8 26	8 21	9 26 96	14 2	1	7527	245.4	15.4	1.5	0.04	
RECOUNT	F28	8 26	8 21	9 28 96	20 3	1	5121	245.4	15.6	1.6	0.05	1.3%
	F36	8 36	8 36	9 26 96	14 7	1	9482	235.8	19.5	1.9	0.04	
RECOUNT	F36	8 36	8 36	9 28 96	20 3	1	6379	235.8	19.5	2.0	0.05	0.3%
	F40	8 44	8 45	9 26 96	14 10	1	12706	236.6	26.1	2.6	0.04	
RECOUNT	F40	8 44	8 45	9 28 96	20 4	1	8369	236.6	25.7	2.6	0.05	1.7%
	F48	8 55	8 58	9 26 96	14 17	1	1334	236.1	2.4	0.2	0.04	
RECOUNT	F48	8 55	8 58	9 28 96	20 4	2	1823	236.1	2.4	0.2	0.05	3.8%
	F56	9 5	9 23	9 26 96	14 12	1	17685	243.4	36.0	3.6	0.04	
RECOUNT	F56	9 5	9 23	9 28 96	20 6	1	11309	243.4	34.4	3.4	0.05	4.6%
	F64	9 13	9 20	9 26 96	14 28	1	36117	239.9	74.5	7.4	0.04	
RECOUNT	F64	9 13	9 20	9 28 96	20 6	1	23571	239.9	72.7	7.3	0.05	2.4%
	F88	9 38	9 43	9 26 96	14 45	1	26351	234.9	54.3	5.4	0.04	
RECOUNT	F88	9 38	9 43	9 28 96	20 7	1	17764	234.9	54.6	5.5	0.05	0.6%
	F92	9 42	9 47	9 26 96	14 48	1	31005	225.4	63.9	6.4	0.04	
RECOUNT	F92	9 42	9 47	9 28 96	20 7	1	20766	225.4	63.9	6.4	0.05	0.1%

AVERAGE PERCENT PRECISION FOR CELL 2 BEACHES REGION: 1.8%

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: R SURFACE: DIRT AIR TEMP MIN: 46 DEG. F WEATHER: RAINED 0.03" OVERNIGHT
 AREA: COVER DEPLOYMENT: 9 25 96 RETRIEVAL: 9 26 96 CHARCOAL BKG CPM: 160 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D CAL. DUE: 8/3/97

RECOUNT ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	PRECISION (RPD) [DIFF]/MEAN
	R14	10 50 11	8 9 28 96	21 15	1	3875	226.3	7.9	0.8	0.04		
RECOUNT	R14	10 50 11	8 9 29 96	19 55	1	3197	226.3	7.7	0.8	0.04	3.0%	
	R19	11 7 11	13 9 28 96	21 23	1	13799	226.2	29.4	2.9	0.04		
RECOUNT	R19	11 7 11	13 9 29 96	19 55	1	12254	226.2	30.9	3.1	0.05	5.0%	
	R38	11 21 11	30 9 28 96	21 34	1	10669	227.4	22.6	2.3	0.04		
RECOUNT	R38	11 21 11	30 9 29 96	19 56	1	8762	227.4	21.9	2.2	0.04	3.1%	
	R44	11 26 11	38 9 28 96	21 40	1	9829	225.7	20.7	2.1	0.04		
RECOUNT	R44	11 26 11	38 9 29 96	19 56	1	8173	225.7	20.3	2.0	0.04	2.0%	
	R65	11 52 12	2 9 28 96	21 58	1	20121	225.4	42.8	4.3	0.04		
RECOUNT	R65	11 52 12	2 9 29 96	19 58	1	16838	225.4	42.2	4.2	0.04	1.3%	
	R70	12 6 12	9 9 28 96	22 0	1	14556	222.1	31.0	3.1	0.04		
RECOUNT	R70	12 6 12	9 9 29 96	19 58	1	12465	222.1	31.2	3.1	0.04	0.9%	
	R73	12 9 12	13 9 28 96	22 3	1	7793	225.6	16.4	1.6	0.04		
RECOUNT	R73	12 9 12	13 9 29 96	19 59	1	6371	225.6	15.8	1.6	0.04	4.0%	
	R80	12 20 12	21 9 28 96	22 7	1	8826	224.6	18.7	1.9	0.04		
RECOUNT	R80	12 20 12	21 9 29 96	19 59	1	7235	224.6	18.0	1.8	0.04	3.8%	
	R88	12 11 12	15 9 28 96	22 13	1	73584	223.0	158.0	15.8	0.04		
RECOUNT	R88	12 11 12	15 9 29 96	20 0	1	60484	223.0	153.0	15.3	0.04	3.2%	
	R93	12 8 12	11 9 28 96	22 16	1	32626	224.4	70.0	7.0	0.04		
RECOUNT	R93	12 8 12	11 9 29 96	20 0	1	29045	224.4	73.4	7.3	0.04	4.7%	

AVERAGE PERCENT PRECISION FOR CELL 3 COVER REGION:

3.1%

A P P E N D I X C

Radon Flux Laboratory Data
and Field Blank Data

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

PILE: #2 BATCH: F SURFACE: TAILINGS AIR TEMP MIN: 46 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 23 96 RETRIEVAL: 9 24 96 CHARCOAL BKG CPM: 156 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	F01	7 55	8 0	9 26 96	13 40	1	3758	238.0	7.5	0.7	0.04	
	F02	7 57	8 0	9 26 96	13 41	1	1722	238.4	3.3	0.3	0.04	
	F03	7 58	8 1	9 26 96	13 42	1	1115	239.9	2.0	0.2	0.04	
	F04	8 0	8 1	9 26 96	13 43	3	1248	239.4	0.5	0.1	0.04	
	F05	8 1	8 2	9 26 96	13 44	1	1002	239.5	1.8	0.2	0.04	
	F06	7 57	8 2	9 26 96	13 46	1	3921	232.2	7.8	0.8	0.04	
	F07	8 5	8 3	9 26 96	13 48	3	1275	237.6	0.6	0.1	0.04	
	F08	8 1	8 3	9 26 96	13 49	2	1256	229.1	1.0	0.1	0.04	
	F09	8 3	8 4	9 26 96	13 50	2	1082	237.5	0.8	0.1	0.04	
	F10	8 0	8 4	9 26 96	13 51	1	12309	241.6	25.3	2.5	0.04	
	F11	8 3	8 5	9 26 96	13 51	1	3647	236.2	7.3	0.7	0.04	
	F12	8 5	8 5	9 26 96	13 52	1	4668	239.5	9.4	0.9	0.04	
	F13	8 5	8 6	9 26 96	13 52	1	1178	243.3	2.1	0.2	0.04	
	F14	8 10	8 6	9 26 96	13 53	1	1602	239.3	3.0	0.3	0.04	
	F15	8 12	8 11	9 26 96	13 53	1	7926	240.5	16.2	1.6	0.04	
	F16	8 14	8 15	9 26 96	13 54	1	22386	227.2	46.4	4.6	0.04	
	F17	8 16	8 16	9 26 96	13 55	1	40979	239.6	85.2	8.5	0.04	
	F18	8 18	8 16	9 26 96	13 55	1	6024	239.1	12.3	1.2	0.04	
	F19	8 16	8 17	9 26 96	13 57	3	1494	247.6	0.7	0.1	0.04	
	F20	8 18	8 17	9 26 96	13 56	1	47961	244.0	99.9	10.0	0.04	
	F21	8 20	8 18	9 26 96	13 58	1	70105	233.0	146.3	14.6	0.04	
	F22	8 19	8 18	9 26 96	13 58	1	1208	237.3	2.2	0.2	0.04	
	F23	8 19	8 19	9 26 96	13 59	1	71168	232.0	146.3	14.8	0.04	
	F24	8 21	8 19	9 26 96	14 0	1	1162	237.5	2.1	0.2	0.04	
	F25	8 22	8 20	9 26 96	14 1	1	67453	236.8	140.7	14.1	0.04	
	F26	8 23	8 20	9 26 96	14 1	1	7294	240.1	14.9	1.5	0.04	
	F27	8 25	8 21	9 26 96	14 2	1	41056	231.5	85.6	8.6	0.04	
	F28	8 26	8 21	9 26 96	14 2	1	7527	245.4	15.4	1.5	0.04	
	F29	8 28	8 29	9 26 96	14 3	1	9420	233.3	19.3	1.9	0.04	
	F30	8 30	8 29	9 26 96	14 3	1	1461	239.8	2.7	0.3	0.04	
	F31	8 31	8 30	9 26 96	14 4	1	18233	238.7	37.7	3.8	0.04	
	F32	8 32	8 30	9 26 96	14 4	1	2290	242.0	4.5	0.4	0.04	
	F33	8 33	8 35	9 26 96	14 6	1	30185	233.2	62.6	6.3	0.04	
	F34	8 334	8 35	9 26 96	14 6	1	35485	241.3	91.3	9.1	0.05	
	F35	8 35	8 36	9 26 96	14 7	1	5867	240.4	11.9	1.2	0.04	
	F36	8 36	8 36	9 26 96	14 7	1	9482	235.8	19.5	1.9	0.04	
	F37	8 36	8 37	9 26 96	14 9	1	8516	239.9	17.4	1.7	0.04	
	F38	8 39	8 37	9 26 96	14 9	1	6347	230.6	12.9	1.3	0.04	
	F39	8 40	8 45	9 26 96	14 10	1	30914	243.6	63.9	6.4	0.04	
	F40	8 44	8 45	9 26 96	14 10	1	12706	238.6	26.1	2.6	0.04	

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #2 BATCH: F SURFACE: TAILINGS AIR TEMP MIN: 46 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 23 96 RETRIEVAL: 9 24 96 CHARCOAL BKG CPM: 156 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	F41	8 45	8 46	9 26 96	14 12	1	13896	242.6	28.6	2.9	0.04	
	F42	8 46	8 46	9 26 96	14 12	1	6471	234.6	13.2	1.3	0.04	
	F43	8 47	8 47	9 26 96	14 14	1	10509	235.7	21.6	2.2	0.04	
	F44	8 50	8 47	9 26 96	14 14	1	11846	233.2	24.4	2.4	0.04	
	F45	8 52	8 57	9 26 96	14 15	1	30050	239.6	62.1	6.2	0.04	
	F46	8 53	8 57	9 26 96	14 15	1	2835	235.8	5.6	0.6	0.04	
	F47	8 54	8 58	9 26 96	14 17	1	1612	235.6	3.0	0.3	0.04	
	F48	8 55	8 58	9 26 96	14 17	1	1334	236.1	2.4	0.2	0.04	
	F49	8 57	8 59	9 26 96	14 19	2	1210	231.5	0.9	0.1	0.04	
	F50	8 58	8 59	9 26 96	14 19	1	2118	239.5	4.1	0.4	0.04	
	F51	8 59	9 0	9 26 96	14 20	1	6859	241.2	14.0	1.4	0.04	
	F52	8 59	9 0	9 26 96	14 20	1	6004	243.4	12.2	1.2	0.04	
	F53	9 0	9 13	9 26 96	14 21	1	11561	237.7	23.5	2.4	0.04	
	F54	9 1	9 19	9 26 96	14 21	1	11891	233.5	24.1	2.4	0.04	
	F55	9 3	9 21	9 26 96	14 22	1	15114	238.2	30.7	3.1	0.04	
	F56	9 5	9 23	9 26 96	14 22	1	17685	243.4	36.0	3.6	0.04	
	F57	9 7	9 20	9 26 96	14 23	1	12964	233.6	26.4	2.6	0.04	
	F58	9 9	9 19	9 26 96	14 23	1	16159	236.6	33.1	3.3	0.04	
	F59	9 10	9 13	9 26 96	14 25	1	3610	240.2	7.2	0.7	0.04	
	F60	9 11	9 12	9 26 96	14 25	1	6009	240.7	12.2	1.2	0.04	
	F61	9 11	9 12	9 26 96	14 26	1	4130	244.0	8.3	0.8	0.04	
	F62	9 12	9 17	9 26 96	14 26	1	15070	226.8	30.9	3.1	0.04	
	F63	9 13	9 17	9 26 96	14 28	1	16658	238.0	34.2	3.4	0.04	
	F64	9 13	9 20	9 26 96	14 28	1	36117	239.9	74.5	7.4	0.04	
	F65	9 14	9 24	9 26 96	14 29	1	11825	234.2	24.1	2.4	0.04	
	F66	9 15	9 24	9 26 96	14 29	1	3371	236.7	6.6	0.7	0.04	
	F67	9 16	9 25	9 26 96	14 30	1	28264	236.9	58.1	5.8	0.04	
	F68	9 18	9 26	9 26 96	14 30	1	70476	233.8	145.4	14.5	0.04	
	F69	9 20	9 33	9 26 96	14 31	1	25282	227.3	51.8	5.2	0.04	
	F70	9 21	9 23	9 26 96	14 31	1	8814	237.0	18.0	1.8	0.04	
	F71	9 21	9 38	9 26 96	14 32	1	8736	241.9	17.6	1.8	0.04	
	F72	9 22	9 37	9 26 96	14 34	4	1104	210.2	0.2	0.0	0.04	
	F73	9 23	9 34	9 26 96	14 35	1	19818	234.3	40.6	4.1	0.04	
	F74	9 24	9 27	9 26 96	14 35	1	9134	240.1	18.6	1.9	0.04	
	F75	9 25	9 29	9 26 96	14 36	1	4409	239.3	8.8	0.9	0.04	
	F76	9 26	9 34	9 26 96	14 36	1	8301	240.1	16.8	1.7	0.04	
	F77	9 27	9 31	9 26 96	14 37	1	14286	237.4	29.3	2.9	0.04	
	F78	9 28	9 32	9 26 96	14 37	1	2633	236.2	5.1	0.5	0.04	
	F79	9 29	9 37	9 26 96	14 39	2	1928	236.5	.7	0.2	0.04	
	F80	9 30	9 38	9 26 96	14 39	1	2669	229.0	5.2	0.5	0.04	

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #2 BATCH: F SURFACE: TAILINGS AIR TEMP MIN: 46 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 23 96 RETRIEVAL: 9 24 96 CHARCOAL BKG CPM: 156 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	F81	9 31	9 32	9 26 96	14 40	1	43915	241.7	91.0	9.1	0.04	
	F82	9 32	9 35	9 26 96	14 40	1	21366	235.7	44.0	4.4	0.04	
	F83	9 33	9 36	9 26 96	14 41	1	50580	236.4	104.6	10.5	0.04	
	F84	9 34	9 37	9 26 96	14 41	1	42674	234.6	88.2	8.8	0.04	
	F85	9 35	9 40	9 26 96	14 43	1	10719	239.7	21.9	2.2	0.04	
	F86	9 36	9 41	9 26 96	14 43	1	22871	238.9	47.1	4.7	0.04	
	F87	9 37	9 43	9 26 96	14 45	1	34321	233.6	70.7	7.1	0.04	
	F88	9 38	9 43	9 26 96	14 45	1	26351	234.9	54.3	5.4	0.04	
	F89	9 39	9 41	9 26 96	14 46	1	18773	241.5	38.7	3.9	0.04	
	F90	9 40	9 45	9 26 96	14 46	1	25270	236.1	52.0	5.2	0.04	
	F91	9 41	9 46	9 26 96	14 48	1	89425	230.0	184.9	18.5	0.04	
	F92	9 42	9 47	9 26 96	14 48	1	31005	225.4	63.9	6.4	0.04	
	F93	9 43	9 47	9 26 96	14 49	1	73481	236.5	152.0	15.2	0.04	
	F94	9 44	9 49	9 26 96	14 49	1	25993	235.1	53.5	5.4	0.04	
	F95	9 11	9 15	9 26 96	14 51	2	1310	236.0	1.0	0.1	0.04	
	F96	9 6	9 15	9 26 96	14 51	1	11224	239.2	23.0	2.3	0.04	
	F97	9 4	9 16	9 26 96	14 52	1	70023	232.4	144.7	14.5	0.04	
	F98	9 1	9 17	9 26 96	14 52	1	11001	240.0	22.4	2.2	0.04	
	F99	8 59	9 18	9 26 96	14 53	1	24199	232.0	49.6	5.0	0.04	
	F100	8 55	9 18	9 26 96	14 53	1	37058	229.6	75.9	7.6	0.04	

AVERAGE RADON FLUX FOR THE CELL 2 BEACHES REGION: 36.2 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #2 BATCH: B SURFACE: DIRT AIR TEMP MIN: 36 DEG. F WEATHER: CLEAR, WINDY
 AREA: COVER DEPLOYMENT: 9 27 96 RETRIEVAL: 9 28 96 CHARCOAL BKG CPM: 173 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: WM & AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	B01	6 19	8 36	9 28 96	18 15	1	6802	222.4	9.8	1.0	0.03	
	B02	8 20	8 36	9 28 96	18 16	1	10098	223.1	14.7	1.5	0.03	
	B03	8 22	8 37	9 28 96	18 17	1	11394	220.9	16.6	1.7	0.03	
	B04	8 23	8 37	9 28 96	18 19	1	6168	216.9	8.9	0.9	0.03	
	B05	8 24	8 38	9 28 96	18 20	1	35665	219.4	52.5	5.3	0.03	
	B06	8 25	8 39	9 28 96	18 21	1	2859	216.3	4.0	0.4	0.03	
	B07	8 27	8 45	9 28 96	18 22	1	10429	222.2	15.2	1.5	0.03	
	B08	8 29	8 46	9 28 96	18 23	1	5187	220.0	7.4	0.7	0.03	
	B09	8 30	8 46	9 28 96	18 24	1	18536	223.3	27.2	2.7	0.03	
	B10	8 31	8 47	9 28 96	18 25	1	15429	222.0	22.6	2.3	0.03	
	B11	8 32	8 47	9 28 96	18 26	1	10159	221.9	14.8	1.5	0.03	
	B12	8 34	8 48	9 28 96	18 27	1	12686	221.7	18.6	1.9	0.03	
	B13	8 35	8 48	9 28 96	18 28	1	23815	220.4	35.1	3.5	0.03	
	B14	8 36	8 49	9 28 96	18 29	1	2370	224.9	3.3	0.3	0.03	
	B15	8 37	8 50	9 28 96	18 30	1	1682	223.6	2.2	0.2	0.03	
	B16	8 38	8 51	9 28 96	18 31	2	1470	225.6	0.8	0.1	0.03	
	B17	8 40	8 52	9 28 96	18 32	1	3957	222.2	5.6	0.6	0.03	
	B18	8 41	8 53	9 28 96	18 34	1	4460	226.2	6.4	0.6	0.03	
	B19	8 42	8 54	9 28 96	18 35	1	1594	221.8	2.1	0.2	0.03	
	B20	8 43	8 55	9 28 96	18 36	1	3382	222.3	4.8	0.5	0.03	
	B21	8 45	9 0	9 28 96	18 37	1	3274	226.7	4.6	0.5	0.03	
	B22	8 19	8 41	9 28 96	18 37	1	22783	221.6	33.5	3.3	0.03	
	B23	8 20	8 40	9 28 96	18 38	1	25149	220.8	37.0	3.7	0.03	
	B24	8 32	8 40	9 28 96	18 38	1	10952	221.4	16.0	1.6	0.03	
	B25	8 25	8 41	9 28 96	18 39	1	45387	221.7	67.1	6.7	0.03	
	B26	8 24	8 42	9 28 96	18 39	1	3504	224.1	4.9	0.5	0.03	
	B27	8 25	8 43	9 28 96	18 40	1	12176	216.4	17.8	1.8	0.03	
	B28	8 27	8 44	9 28 96	18 40	1	1027	221.2	1.3	0.1	0.03	
	B29	8 29	8 45	9 28 96	18 41	1	10574	222.9	15.5	1.5	0.03	
	B30	8 30	8 46	9 28 96	18 41	1	2067	221.9	2.8	0.7	0.03	
	B31	8 31	8 47	9 28 96	18 42	1	7696	223.4	11.2	1.1	0.03	
	B32	8 32	8 48	9 28 96	18 42	1	3921	220.4	5.6	0.6	0.03	
	B33	8 34	8 49	9 28 96	18 43	1	4977	229.3	7.1	0.7	0.03	
	B34	8 35	8 49	9 28 96	18 43	1	11053	223.6	16.2	1.6	0.03	
	B35	8 36	8 50	9 28 96	18 44	1	4375	220.7	6.2	0.6	0.03	
	B36	8 37	8 50	9 28 96	18 44	1	2461	223.3	3.4	0.3	0.03	
	B37	8 38	8 51	9 28 96	18 45	1	15866	220.2	23.4	2.3	0.03	
	B38	8 40	8 52	9 28 96	18 45	1	52325	220.8	77.6	7.8	0.03	
	B39	8 41	8 53	9 28 96	18 46	1	27846	219.9	41.2	4.1	0.03	
	B40	8 42	8 54	9 28 96	18 46	2	1344	217.8	0.7	0.1	0.03	

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

PILE: #2 BATCH: B SURFACE: DIRT AIR TEMP MIN: 36 DEG. F WEATHER: CLEAR, WINDY
 AREA: COVER DEPLOYMENT: 9 27 96 RETRIEVAL: 9 28 96 CHARCOAL BKG CPM: 173 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: WM & AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	B41	8 43	8 55	9 28 96	18 48	1	23631	219.9	34.9	3.5	0.03	
	B42	8 45	8 56	9 28 96	18 48	1	1766	222.7	2.4	0.2	0.03	
	B43	8 50	9 1	9 28 96	18 51	1	5085	219.6	7.3	0.7	0.03	
	B44	8 51	9 2	9 28 96	18 51	3	1131	219.6	0.3	0.0	0.03	
	B45	8 52	9 3	9 28 96	18 54	2	1136	219.6	0.6	0.1	0.03	
	B46	8 53	9 4	9 28 96	18 53	2	1474	219.6	0.8	0.1	0.03	
	B47	8 50	9 5	9 28 96	18 58	3	1116	219.6	0.3	0.0	0.03	
	B48	9 3	9 6	9 28 96	18 59	1	1149	219.6	1.5	0.1	0.03	
	B49	9 4	9 7	9 28 96	19 0	1	1060	219.6	1.3	0.1	0.03	
	B50	9 5	9 8	9 28 96	19 0	1	1666	219.6	2.2	0.2	0.03	
	B51	9 3	9 9	9 28 96	19 1	1	1207	219.6	1.5	0.2	0.03	
	B52	9 4	9 10	9 28 96	19 1	1	42768	219.6	63.6	6.4	0.03	
	B53	9 5	9 11	9 28 96	19 2	1	1405	219.6	1.8	0.2	0.03	
	B54	9 10	9 12	9 28 96	19 2	1	3101	219.6	4.4	0.4	0.03	
	B55	9 13	9 13	9 28 96	19 3	1	83820	219.6	125.4	12.5	0.03	
	B56	9 14	9 14	9 28 96	19 3	1	3481	219.6	5.0	0.5	0.03	
	B57	9 15	9 15	9 28 96	19 4	1	1252	219.6	1.6	0.2	0.03	
	B58	9 16	9 16	9 28 96	19 4	1	1375	219.6	1.8	0.2	0.03	
	B59	9 17	9 17	9 28 96	19 5	1	11235	219.6	16.6	1.7	0.03	
	B60	9 19	9 18	9 28 96	19 5	1	10227	219.6	15.1	1.5	0.03	
	B61	9 21	9 19	9 28 96	19 6	1	15886	219.6	23.6	2.4	0.03	
	B62	9 23	9 20	9 28 96	19 6	1	9491	219.6	14.0	1.4	0.03	
	B63	9 25	9 21	9 28 96	19 7	1	36969	219.6	55.3	5.5	0.03	
	B64	9 26	9 22	9 28 96	19 7	1	33016	219.6	49.3	4.9	0.03	
	B65	9 28	9 23	9 28 96	19 8	1	3032	219.6	4.3	0.4	0.03	
	B66	9 19	9 25	9 28 96	19 8	1	2322	219.6	3.2	0.3	0.03	
	B67	9 21	9 26	9 28 96	19 10	1	2853	219.6	4.0	0.4	0.03	
	B68	9 23	9 27	9 28 96	19 10	1	1306	219.6	1.7	0.2	0.03	
	B69	9 25	9 28	9 28 96	19 11	1	61817	219.6	92.2	9.2	0.03	
	B70	9 26	9 29	9 28 96	19 11	1	6497	219.6	9.5	0.9	0.03	
	B71	9 28	9 30	9 28 96	19 13	1	4791	219.6	6.9	0.7	0.03	
	B72	9 30	9 31	9 28 96	19 13	1	1235	219.6	1.6	0.2	0.03	
	B73	9 33	9 32	9 28 96	19 14	1	21092	219.6	31.4	3.1	0.03	
	B74	9 34	9 33	9 28 96	19 15	2	1516	219.6	0.9	0.1	0.03	
	B75	9 36	9 34	9 28 96	19 16	1	3488	219.6	5.0	0.5	0.03	
	B76	9 30	9 34	9 28 96	19 16	2	1700	219.6	1.0	0.1	0.03	
	B77	9 33	9 35	9 28 96	19 19	1	27659	219.6	41.1	4.1	0.03	
	B78	9 34	9 36	9 28 96	19 19	3	1377	219.6	0.4	0.0	0.03	
	B79	9 36	9 37	9 28 96	19 21	2	1620	219.6	1.0	0.1	0.03	
	B80	9 38	9 38	9 28 96	19 22	1	1241	219.6	1.7	0.2	0.03	

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

PILE: #2 BATCH: B SURFACE: DIRT AIR TEMP MIN: 36 DEG. F WEATHER: CLEAR, WINDY
 AREA: COVER DEPLOYMENT: 9 27 96 RETRIEVAL: 9 28 96 CHARCOAL BUG CPM: 173 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: WM & AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	B81	9 40	9 39	9 28 96	19 22	1	2014	219.6	2.8	0.3	0.03	
	B82	9 41	9 40	9 28 96	19 23	1	10947	219.6	16.2	1.6	0.03	
	B83	9 43	9 41	9 28 96	19 24	1	1694	219.6	2.3	0.2	0.03	
	B84	9 45	9 42	9 28 96	19 24	1	3175	219.6	4.5	0.5	0.03	
	B85	9 47	9 43	9 28 96	19 25	1	3765	217.4	5.4	0.5	0.03	
	B86	9 45	9 44	9 28 96	19 25	1	5625	223.1	8.2	0.8	0.03	
	B87	9 47	9 47	9 28 96	19 27	2	1092	221.6	0.6	0.1	0.03	
	B88	9 48	9 48	9 28 96	19 27	3	1149	222.7	0.3	0.0	0.03	
	B89	9 49	9 49	9 28 96	19 29	2	1242	219.4	0.7	0.1	0.03	
	B90	9 50	9 50	9 28 96	19 29	1	1190	219.5	1.5	0.2	0.03	
	B91	9 52	9 51	9 28 96	19 30	1	1482	224.7	2.0	0.2	0.03	
	B92	9 54	9 52	9 28 96	19 30	1	1231	222.4	1.6	0.2	0.03	
	B93	9 55	9 53	9 28 96	19 31	1	2952	219.7	4.2	0.4	0.03	
	B94	9 49	9 54	9 28 96	19 31	1	32799	223.9	48.7	4.9	0.03	
	B95	9 50	9 55	9 28 96	19 32	1	3289	218.6	4.7	0.5	0.03	
	B96	9 52	9 56	9 28 96	19 34	1	1360	218.4	1.8	0.2	0.03	
	B97	9 54	9 57	9 28 96	19 35	1	1427	225.2	1.9	0.2	0.03	
	B98	9 55	0 58	5 28 96	19 36	2	1026	221.4	0.5	0.1	0.03	
	B99	9 57	9 59	9 28 96	19 37	1	2535	225.7	3.5	0.4	0.03	
	B100	9 59 10	0	9 28 96	19 37	1	2523	220.5	3.5	0.4	0.03	

AVERAGE RADON FLUX FOR THE CELL 2 COVER REGION: 14.2 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: A SURFACE: TAILINGS AIR TEMP MIN: 42 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 24 96 RETRIEVAL: 9 25 96 CHARCOAL BKG CPM: 154 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D CAL. DUE: 8/3/97

GRID	SAMPLE	DEPLOY	RETRIV	ANALYSIS	MID-TIME	CHT	GROSS	GROSS	RADON	+/-	LLD	COMMENTS:
LOCATION	I. D.	HR MIN	HR MIN	MO DA YR	HR MIN	(MIN)	COUNTS	WT IN	pCi/m2s	pCi/m2s	pCi/m2s	
	A01	9 15	9 24	9 26 96	15 15	1	33783	224.2	58.3	5.8	0.03	
	A02	9 16	9 25	9 26 96	15 15	1	115404	229.2	199.9	20.0	0.03	
	A03	9 17	9 26	9 26 96	15 16	1	19058	224.1	32.8	3.3	0.03	
	A04	9 18	9 27	9 26 96	15 16	1	81126	220.9	140.4	14.0	0.03	
	A05	9 20	9 28	9 26 96	15 17	1	26713	224.4	46.1	4.6	0.03	
	A06	9 22	9 29	9 26 96	15 17	1	57040	226.0	98.8	9.9	0.03	
	A07	9 25	9 30	9 26 96	15 18	1	40531	229.4	70.2	7.0	0.03	
	A08	9 17	9 31	9 26 96	15 18	1	505731	226.5	873.8	87.4	0.03	
	A09	9 19	9 32	9 26 96	15 19	1	75073	231.9	129.6	13.0	0.03	
	A10	9 21	9 33	9 26 96	15 19	1	228258	221.2	394.7	39.5	0.03	
	A11	9 22	9 34	9 26 96	15 20	1	5007	222.9	8.4	0.6	0.03	
	A12	9 25	9 35	9 26 96	15 20	1	2801	224.5	4.6	0.5	0.03	
	A13	9 28	9 36	9 26 96	15 22	1	3882	227.6	6.5	0.6	0.03	
	A14	9 29	9 36	9 26 96	15 22	1	50369	228.0	94.1	9.4	0.03	
	A15	9 30	9 37	9 26 96	15 23	1	2134	229.3	4.1	0.4	0.03	
	A16	9 31	9 37	9 26 96	15 23	1	56244	227.2	97.4	9.7	0.03	
	A17	9 32	9 38	9 26 96	15 25	1	23177	229.1	40.0	4.0	0.03	
	A18	9 33	9 39	9 26 96	15 25	1	10868	230.7	18.6	1.9	0.03	
	A19	9 34	9 40	9 26 96	15 27	1	27717	224.2	47.9	4.8	0.03	
	A20	9 35	9 41	9 26 96	15 27	1	7417	224.7	12.6	1.3	0.03	
	A21	9 36	9 42	9 26 96	15 28	1	4338	230.2	7.3	0.7	0.03	
	A22	9 37	9 43	9 26 96	15 28	1	3757	232.3	6.3	0.6	0.03	
	A23	9 40	9 44	9 26 96	15 29	1	19762	222.9	34.1	3.4	0.03	
	A24	9 42	9 45	9 26 96	15 29	1	3726	233.1	6.2	0.6	0.03	
	A25	9 54	9 46	9 26 96	15 36	1	28952	222.6	50.5	5.0	0.03	
	A26	9 55	9 47	9 26 96	15 36	1	25222	225.0	43.9	4.4	0.03	
	A27	9 56	9 48	9 26 96	15 37	1	110651	231.2	193.7	19.4	0.03	
	A28	9 58	9 49	9 26 96	15 37	1	47964	223.9	83.8	8.4	0.03	
	A29	10 0	9 50	9 26 96	15 40	1	9092	230.9	15.7	1.6	0.03	
	A30	9 52	9 51	9 26 96	15 41	1	41160	231.3	71.6	7.2	0.03	
	A31	9 50	9 52	9 26 96	15 41	1	5471	229.3	9.3	0.9	0.03	
	A32	9 48	9 53	9 26 96	15 41	1	7218	229.2	12.3	1.2	0.03	
	A33	9 46	9 54	9 26 96	15 43	1	2595	230.2	4.2	0.4	0.03	
	A34	10 4	10 6	9 26 96	15 43	1	14077	225.5	24.2	2.4	0.03	
	A35	10 5	10 7	9 26 96	15 44	1	1123	232.2	1.7	0.2	0.03	
	A36	10 6	10 8	9 26 96	15 44	1	4137	227.3	6.9	0.7	0.03	
	A37	10 7	10 9	9 26 96	15 46	1	27855	224.1	48.2	4.8	0.03	
	A38	10 8	10 10	9 26 96	15 46	1	32269	222.3	55.8	5.6	0.03	
	A39	10 9	10 11	9 26 96	15 47	1	30191	222.8	52.2	5.2	0.03	
	A40	10 10	10 12	9 26 96	15 47	1	33197	230.6	57.5	5.7	0.03	

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: A SURFACE: TAILINGS AIR TEMP MIN: 42 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 24 96 RETRIEVAL: 9 25 96 CHARCOAL BKG CPM: 154 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD, KM, AH, DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALY MO DA YR	IS MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
A41	10	11	10	13	9 26 96	15 49	1	10670	228.1	18.3	1.8	0.03
A42	10	12	10	14	9 26 96	15 49	1	96482	225.2	167.5	16.7	0.03
A43	10	11	10	15	9 26 96	15 53	1	227624	223.8	395.1	39.5	0.03
A44	10	11	10	20	9 26 96	15 53	1	322110	226.8	557.2	55.7	0.03
A45	10	12	10	19	9 26 96	15 55	1	96523	223.2	167.0	16.7	0.03
A46	10	12	10	18	9 26 96	15 55	1	55993	230.5	96.9	9.7	0.03
A47	10	13	10	17	9 26 96	15 56	1	67142	228.9	116.4	11.6	0.03
A48	10	13	10	16	9 26 96	15 56	1	61298	229.4	104.6	10.5	0.03
A49	10	14	10	16	9 26 96	15 57	1	74393	229.8	129.2	12.9	0.03
A50	10	14	10	17	9 26 96	15 57	1	63591	231.0	110.3	11.0	0.03
A51	10	15	10	10	9 26 96	15 58	1	24231	227.2	41.9	4.2	0.03
A52	11	6	11	21	9 26 96	15 58	1	42930	217.6	73.2	7.3	0.03
A53	10	17	10	20	9 26 96	15 59	1	5513	228.5	9.3	0.9	0.03
A54	10	18	10	21	9 26 96	15 59	1	32575	223.7	56.4	5.6	0.03
A55	10	19	10	22	9 26 96	16 0	1	30604	220.1	52.9	5.3	0.03
A56	10	20	10	23	9 26 96	16 0	1	34870	226.0	60.3	6.0	0.03
A57	10	21	10	24	9 26 96	16 1	1	29113	223.7	50.3	5.0	0.03
A58	10	22	10	32	9 26 96	16 1	1	37146	228.9	63.9	6.4	0.03
A59	10	23	10	32	9 26 96	16 2	1	46601	227.1	80.4	8.0	0.03
A60	10	24	10	31	9 26 96	16 2	1	47754	220.6	82.5	8.2	0.03
A61	10	25	10	31	9 26 96	16 4	1	36319	223.5	62.7	6.3	0.03
A62	10	26	10	30	9 26 96	16 4	1	27384	228.7	47.3	4.7	0.03
A63	10	27	10	33	9 26 96	16 6	1	24850	223.7	42.8	4.3	0.03
A64	10	28	10	34	9 26 96	16 6	1	27808	226.9	47.9	4.8	0.03
A65	10	29	10	40	9 26 96	16 8	1	67335	225.3	116.0	11.6	0.03
A66	10	30	10	39	9 26 96	16 8	1	91981	226.3	158.8	15.9	0.03
A67	10	31	10	38	9 26 96	16 9	1	45234	232.2	78.1	7.8	0.03
A68	10	32	10	38	9 26 96	16 9	1	35183	229.5	60.7	6.1	0.03
A69	10	33	10	49	9 26 96	16 10	1	59306	223.0	101.8	10.2	0.03
A70	10	34	10	49	9 26 96	16 10	1	63735	222.6	109.5	10.9	0.03
A71	10	35	10	43	9 26 96	16 123	1	22231	219.1	38.7	3.9	0.03
A72	10	36	10	42	9 26 96	16 12	1	9872	227.3	16.8	1.7	0.03
A73	10	37	10	43	9 26 96	16 14	1	31112	221.2	53.7	5.4	0.03
A74	10	38	10	47	9 26 96	16 14	1	32653	227.8	56.2	5.6	0.03
A75	10	39	11	34	9 26 96	16 16	1	35884	226.7	59.7	6.0	0.03
A76	10	40	10	55	9 26 96	16 16	1	13861	221.5	23.6	2.4	0.03
A77	10	41	10	55	9 26 96	16 17	1	1984	223.1	33.9	3.4	0.03
A78	10	42	10	56	9 26 96	16 17	1	40736	226.4	69.9	7.0	0.03
A79	10	43	10	56	9 26 96	16 19	1	12027	232.5	20.5	2.0	0.03
A80	10	44	10	57	9 26 96	16 19	1	12675	231.8	21.6	2.2	0.03

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: A SURFACE: TAILINGS AIR TEMP MIN: 42 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 24 96 RETRIEVAL: 9 25 96 CHARCOAL BKG CPM: 154 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM: I.D.:M-01/D-21,M-02/D CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
A81	10 45 10	56	9 26 96	16 20	1	14812	222.4	25.3	2.5	0.03		
A82	10 46 11	2	9 26 96	16 20	1	9423	230.3	15.9	1.6	0.03		
A83	10 47 11	25	9 26 96	16 21	1	29768	230.2	50.1	5.0	0.03		
A84	10 48 11	4	9 26 96	16 21	1	35271	228.1	60.4	6.0	0.03		
A85	10 50 11	3	9 26 96	16 22	1	34117	231.8	56.5	5.9	0.03		
A86	10 51 11	5	9 26 96	16 22	1	27679	226.9	47.4	4.7	0.03		
A87	10 52 11	6	9 26 96	16 23	1	19383	225.6	32.1	3.3	0.03		
A88	10 52 11	7	9 26 96	16 23	1	23727	222.8	40.6	4.1	0.03		
A89	10 53 11	8	9 26 96	16 24	1	84015	223.1	144.3	14.4	0.03		
A90	10 53 11	9	9 26 96	16 24	1	21848	227.9	37.3	3.7	0.03		
A91	10 54 11	14	9 26 96	16 26	1	74144	227.2	126.8	12.7	0.03		
A92	10 54 11	14	9 26 96	16 26	1	74171	224.9	126.9	12.7	0.03		
A93	10 55 11	15	9 26 96	16 28	1	193410	224.6	331.3	33.1	0.03		
A94	10 56 11	12	9 26 96	16 28	1	36267	230.1	62.1	6.2	0.03		
A95	10 56 11	30	9 26 96	16 30	1	176557	226.2	299.3	29.9	0.03		
A96	10 57 11	15	9 26 96	16 30	1	124008	219.2	212.7	21.3	0.03		
A97	10 58 11	10	9 26 96	16 31	1	27559	218.6	47.3	4.7	0.03		
A98	10 58 11	17	9 26 96	16 31	1	392447	223.6	678.1	67.3	0.03		
A99	10 59 11	18	9 26 96	16 33	1	51401	230.4	87.9	8.8	0.03		
A100	11 0 11	20	9 26 96	16 33	1	24523	223.4	41.8	4.2	0.03		

AVERAGE RADON FLUX FOR THE CELL 3 BEACHES REGION: 93.4 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

PILE: #3 BATCH: R SURFACE: DIRT AIR TEMP MIN: 46 DEG. F WEATHER: RAINED 0.03" OVERNIGHT
 AREA: COVER DEPLOYMENT: 9 25 96 RETRIEVAL: 9 26 96 CHARCOAL BKG CPM: 160 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D CAL. DUE: 6/3/07

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	R01	10 36 11	0 9 28 96	15 13	1	3312	224.0	6.4	0.6	0.04		
	R02	10 38 11	3 9 28 96	15 13	1	1802	228.6	7.3	0.3	0.04		
	R03	10 44 11	3 9 28 96	15 15	2	1498	226.0	1.2	0.1	0.04		
	R04	10 45 11	4 9 28 96	15 15	1	1038	228.7	1.8	0.2	0.04		
	R05	10 46 11	4 9 28 96	15 18	3	1314	223.3	0.6	0.1	0.04		
	R06	10 47 11	4 9 28 96	15 17	3	1470	229.6	0.7	0.1	0.04		
	R07	10 48 11	5 9 28 96	15 21	3	1395	231.3	0.6	0.1	0.04		
	R08	10 48 11	5 9 28 96	15 19	2	1072	227.8	0.8	0.1	0.04		
	R09	10 45 11	5 9 28 96	15 23	2	1420	231.0	1.1	0.1	0.04		
	R10	10 46 11	6 9 28 96	15 21	2	1272	227.7	1.0	0.1	0.04		
	R11	10 47 11	6 9 28 96	15 27	4	1546	227.1	0.5	0.0	0.04		
	R12	10 48 11	7 9 28 96	15 23	2	1784	223.8	1.5	0.1	0.04		
	R13	10 49 11	7 9 28 96	21 15	2	1344	224.1	1.1	0.1	0.04		
	R14	10 50 11	8 9 28 96	21 15	1	3875	226.3	7.9	0.8	0.04		
	R15	10 49 11	8 9 28 96	21 17	4	1152	220.1	0.3	0.0	0.04		
	R16	10 50 11	9 9 28 96	21 16	1	2303	225.2	4.6	0.5	0.04		
	R17	10 50 11	9 9 28 96	21 21	2	1594	228.0	1.4	0.1	0.04		
	R18	10 54 11	12 9 28 96	21 18	3	1113	225.1	0.5	0.0	0.04		
	R19	11 7 11	13 9 28 96	21 23	1	13799	226.2	29.4	2.9	0.04		
	R20	11 8 11	13 9 28 96	21 22	1	6625	226.3	13.9	1.4	0.04		
	R21	11 9 11	14 9 28 96	21 24	1	13015	226.5	27.7	2.8	0.04		
	R22	11 10 11	14 9 28 96	21 24	1	3042	222.5	6.2	0.6	0.04		
	R23	11 11 11	14 9 28 96	21 25	1	17958	225.5	38.4	3.8	0.04		
	R24	11 12 11	13 9 28 96	21 25	1	1385	229.4	2.6	0.3	0.04		
	R25	11 13 11	15 9 28 96	21 27	2	1308	220.1	1.1	0.1	0.04		
	R26	11 14 11	15 9 28 96	21 26	1	1020	225.8	1.9	0.2	0.04		
	R27	11 15 11	15 9 28 96	21 28	1	2857	231.8	5.8	0.6	0.04		
	R28	11 16 11	21 9 28 96	21 28	3	1001	220.0	0.4	0.0	0.04		
	R29	11 17 11	20 9 28 96	21 30	2	1574	223.4	1.4	0.1	0.04		
	R30	11 18 11	19 9 28 96	21 29	1	1025	221.1	1.9	0.2	0.04		
	R31	11 19 11	19 9 28 96	21 31	1	1386	216.7	2.6	0.3	0.04		
	R32	11 20 11	18 9 28 96	21 31	1	1198	222.2	2.2	0.2	0.04		
	R33	11 21 11	18 9 28 96	21 32	1	1477	230.9	2.9	0.3	0.04		
	R34	11 22 11	17 9 28 96	21 32	1	1669	223.7	3.3	0.3	0.04		
	R35	11 23 11	17 9 28 96	21 33	1	2351	222.7	4.8	0.5	0.04		
	R36	11 19 11	29 9 28 96	21 33	1	6669	221.5	14.0	1.4	0.04		
	R37	11 20 11	29 9 28 96	21 34	1	3038	222.9	6.2	0.6	0.04		
	R38	11 21 11	30 9 28 96	21 34	1	10669	227.4	22.6	2.3	0.04		
	R39	11 22 11	30 9 28 96	21 36	2	1954	225.6	1.6	0.2	0.04		
	R40	11 23 11	31 9 28 96	21 36	2	1264	236.5	1.0	0.1	0.04		

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: R SURFACE: DIRT AIR TEMP MIN: 46 DEG. F WEATHER: RAINED 0.03" OVERNIGHT
 AREA: COVER DEPLOYMENT: 9 25 96 RETRIEVAL: 9 26 96 CHARCOAL BKG CPM: 160 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.:M-01/D-21,M-02/D CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
R41	11	24	11	32	9 28 96	21 37	1	8739	222.5	18.4	1.8	0.04
R42	11	25	11	33	9 28 96	21 39	3	1170	226.6	0.5	0.0	0.04
R43	11	25	11	34	9 28 96	21 38	2	1670	229.5	1.4	0.1	0.04
R44	11	26	11	38	9 28 96	21 40	1	9829	225.7	20.7	2.1	0.04
R45	11	26	11	37	9 28 96	21 41	1	8101	224.5	17.0	1.7	0.04
R46	11	27	11	37	9 28 96	21 41	1	7133	224.0	15.0	1.5	0.04
R47	11	27	11	36	9 28 96	21 42	1	2510	223.6	5.0	0.5	0.04
R48	11	28	11	36	9 28 96	21 43	2	1854	224.9	1.6	0.2	0.04
R49	11	28	11	35	9 28 96	21 44	3	1314	231.9	0.6	0.1	0.04
R50	11	29	11	35	9 28 96	21 44	1	1274	225.1	2.4	0.2	0.04
R51	11	29	11	40	9 28 96	21 45	1	1043	230.7	1.9	0.2	0.04
R52	11	30	11	41	9 28 96	21 45	1	2399	227.9	4.8	0.5	0.04
R53	11	30	11	43	9 28 96	21 47	2	1516	226.4	1.3	0.1	0.04
R54	11	31	11	43	9 28 96	21 47	2	1048	225.9	0.8	0.1	0.04
R55	11	31	11	44	9 28 96	21 49	2	1080	226.5	0.8	0.1	0.04
R56	11	32	11	44	9 28 96	21 49	2	1314	227.0	1.1	0.1	0.04
R57	11	32	11	45	9 28 96	21 51	2	1178	224.0	0.9	0.1	0.04
R58	11	33	11	48	9 28 96	21 51	2	1398	225.0	1.2	0.1	0.04
R59	11	33	11	47	9 28 96	21 52	1	1467	234.9	2.8	0.3	0.04
R60	11	34	11	47	9 28 96	21 53	2	1414	224.9	1.2	0.1	0.04
R61	11	35	11	46	9 28 96	21 54	1	1176	221.7	2.2	0.2	0.04
R62	11	36	11	46	9 28 96	21 54	2	1962	224.3	1.8	0.2	0.04
R63	11	37	11	45	9 28 96	21 55	2	1610	223.7	1.4	0.1	0.04
R64	11	48	11	57	9 28 96	21 57	1	1189	230.3	2.2	0.2	0.04
R65	11	52	12	2	9 28 96	21 58	1	20121	225.4	42.8	4.3	0.04
R66	12	2	12	2	9 28 96	21 58	1	5346	224.6	11.2	1.1	0.04
R67	12	3	12	7	9 28 96	21 59	1	1457	227.2	2.8	0.3	0.04
R68	12	4	12	7	9 28 96	21 59	1	1139	221.3	2.1	0.2	0.04
R69	12	5	12	8	9 28 96	22 0	1	4816	222.5	10.0	1.0	0.04
R70	12	6	12	9	9 28 96	22 0	1	14556	222.1	31.0	3.1	0.04
R71	12	7	12	10	9 28 96	22 1	1	9872	225.2	20.9	2.1	0.04
R72	12	8	12	12	9 28 96	22 1	1	11272	224.9	23.9	2.4	0.04
R73	12	9	12	13	9 28 96	22 3	1	7793	225.6	16.4	1.6	0.04
R74	12	11	12	14	9 28 96	22 3	1	1670	223.5	3.2	0.3	0.04
R75	12	12	12	16	9 28 96	22 4	1	9562	225.5	20.2	2.0	0.04
R76	12	15	12	18	9 28 96	22 4	1	3675	229.6	7.6	0.8	0.04
R77	12	17	12	19	9 28 96	22 5	1	2400	222.1	4.8	0.5	0.04
R78	12	18	12	20	9 28 96	22 5	1	3054	230.2	6.2	0.6	0.04
R79	12	19	12	20	9 28 96	22 7	1	10921	224.9	23.2	2.3	0.04
R80	12	20	12	21	9 28 96	22 7	1	8826	224.6	18.7	1.9	0.04

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: R SURFACE: DIRT AIR TEMP MIN: 46 DEG. F WEATHER: RAINED 0.03" OVERNIGHT
 AREA: COVER DEPLCMENT: 9 25 96 RETRIEVAL: 9 26 96 CHARCOAL BKG CPM: 160 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21,M-02/D CAL. DUE: 8/3/97

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
	R81	12 21	12 23	9 28 96	22 8	1	13772	227.0	29.3	2.9	0.04	
	R82	12 23	12 24	9 28 96	22 8	1	21292	222.1	45.5	4.5	0.04	
	R83	12 25	12 26	9 28 96	22 9	1	3760	223.4	7.7	0.8	0.04	
	R84	12 26	12 28	9 28 96	22 9	1	61508	223.2	131.9	13.2	0.04	
	R85	12 13	12 18	9 28 96	22 11	1	17288	229.9	36.8	3.7	0.04	
	R86	12 13	12 17	9 28 96	22 11	1	45367	223.4	97.2	9.7	0.04	
	R87	12 12	12 16	9 28 96	22 13	1	48263	228.4	103.5	10.3	0.04	
	R88	12 11	12 15	9 28 96	22 13	1	73584	223.0	158.0	15.8	0.04	
	R89	12 11	12 14	9 28 96	22 14	1	69309	226.4	148.9	14.9	0.04	
	R90	12 10	12 13	9 28 96	22 14	1	76129	226.5	163.6	16.4	0.04	
	R91	12 9	12 13	9 28 96	22 15	1	68298	224.8	146.7	14.7	0.04	
	R92	12 9	12 12	9 28 96	22 15	1	18919	227.7	40.4	4.0	0.04	
	R93	12 8	12 11	9 28 96	22 16	1	32626	224.4	70.0	7.0	0.04	
	R94	12 8	12 11	9 28 96	22 16	1	10917	230.5	23.2	2.3	0.04	
	R95	12 7	12 10	9 28 96	22 18	1	32012	225.1	68.7	6.9	0.04	
	R96	12 7	12 10	9 28 96	22 18	1	13077	222.3	27.8	2.8	0.04	
	R97	12 6	12 9	9 28 96	22 20	1	21621	221.6	46.3	4.6	0.04	
	R98	12 5	12 8	9 28 96	22 20	1	16267	231.7	34.7	3.5	0.04	
	R99	12 4	12 8	9 28 96	22 21	1	39455	226.6	84.7	8.5	0.04	
	R100	12 3	12 6	9 28 96	22 21	1	92685	223.7	199.6	20.0	0.04	

AVERAGE RADON FLUX FOR THE CELL 3 COVER REGION: 22.4 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: A SURFACE: TAILINGS AIR TEMP MIN: 42 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 24 96 RETRIEVAL: 9 25 96 CHARCOAL BKG CPM: 154 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.:M-01/D-21,M-02/D CAL. DUE: 8/3/97

BLANK CANISTER ANALYSES RESULTS

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
BLANK	A101	10 0 9	36 9 26	96 16 39	5	1231	212.9	0.16	0.02	0.03		
BLANK	A102	10 0 9	36 9 26	96 16 39	5	1209	215.2	0.16	0.02	0.03		
BLANK	A103	10 0 9	36 9 26	96 16 46	5	1226	213.9	0.16	0.02	0.03		
BLANK	A104	10 0 9	36 9 26	96 16 46	5	1215	215.8	0.16	0.02	0.03		
BLANK	A105	10 0 9	36 9 26	96 16 52	5	1222	213.1	0.16	0.02	0.03		

AVERAGE BLANK CANISTER ANALYSES FOR CELL 3 BEACH REGION: 0.16 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #2 BATCH: B SURFACE: DIRT AIR TEMP MIN: 36 DEG F WEATHER: CLEAR, WINDY
 AREA: COVER DEPLOYMENT: 9 27 96 RETRIEVAL: 9 28 96 CHARCOAL BAG CPM: 173 NST WT OUT: 180.0 g.
 FIELD TECHNICIANS: WM & AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D-20 CAL. DUE: 8/3/97

BLANK CANISTER ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
BLANK	B101	9 0 9	0 9 28 96	19 43	5	1204	213.6	0.10	0.01	0.03		
BLANK	B102	9 0 9	0 9 28 96	19 43	5	1307	214.7	0.13	0.01	0.03		
BLANK	B103	9 0 9	0 9 28 96	19 49	5	1128	213.8	0.08	0.01	0.03		
BLANK	B104	9 0 9	0 9 28 96	19 49	5	1261	211.9	0.12	0.01	0.03		
BLANK	B105	9 0 9	0 9 28 96	19 54	5	1228	211.8	0.11	0.01	0.03		

AVERAGE BLANK CANISTER ANALYSES FOR CELL 2 COVER REGION: 0.11 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 960P4.00

FILE: #2 BATCH: F SURFACE: TAILINGS AIR TEMP MIN: 46 DEG. F WEATHER: CLEAR
 AREA: BEACH DEPLOYMENT: 9 23 96 RETRIEVAL: 9 24 96 CHARCOAL BKG CPM: 156 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AM,DLC COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM 1.D:M-01/D-21,M-02/D-20 CAL. DUE: 8/3/97

BLANK CANISTER ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m3s	COMMENTS:
BLANK	F101	9 0 9	20 9 26 96	14 57	5	1201	221.4	0.17	0.02	0.04		
BLANK	F102	9 0 9	20 9 26 96	14 57	5	1316	214.6	0.22	0.02	0.04		
BLANK	F103	9 0 9	21 9 26 96	15 3	5	1237	214.1	0.19	0.02	0.04		
BLANK	F104	9 0 9	21 9 26 96	15 3	5	1227	216.5	0.18	0.02	0.04		
BLANK	F105	9 0 9	21 9 26 96	15 8	5	1209	214.7	0.18	0.02	0.04		

AVERAGE BLANK CANISTER ANALYSES FOR CELL 2 BEACH REGION: 0.19 pCi/m2s

CLIENT: ENERGY FUELS PROJECT: RADON FLUX MEASUREMENTS

PROJECT NO.: 96004.00

FILE: #3 BATCH: R SURFACE: DIRT AIR TEMP MIN: 46 DEG. F WEATHER: RAINED 0.03" OVERNIGHT
 AREA: COVER DEPLOYMENT: 9 25 96 RETRIEVAL: 9 26 96 CHARCOAL BKG CPM: 160 NET WT OUT: 180.0 g.
 FIELD TECHNICIANS: JD,WM,AH COUNTED BY: DLC DATA ENTRY BY: DLC TARE WEIGHT: 29.2 g.
 COUNTING SYSTEM I.D.: M-01/D-21, M-02/D CAL. DUE: 8/3/97

BLANK CANISTER ANALYSES RESULTS:

GRID LOCATION	SAMPLE I. D.	DEPLOY HR MIN	RETRIV HR MIN	ANALYSIS MO DA YR	MID-TIME HR MIN	CNT (MIN)	GROSS COUNTS	GROSS WT IN	RADON pCi/m2s	+/- pCi/m2s	LLD pCi/m2s	COMMENTS:
BLANK	R101	11 0 11	0 9 28 96	14 41	6	1105	217.6	0.05	0.00	0.04		
BLANK	R102	11 0 11	0 9 28 96	14 41	6	1322	216.5	0.12	0.01	0.04		
BLANK	R103	11 0 11	0 9 28 96	14 47	5	1470	216.1	0.28	0.03	0.04		
BLANK	R104	11 0 11	0 9 28 96	14 47	5	1045	215.0	0.10	0.01	0.04		
BLANK	R105	11 0 11	0 9 28 96	14 53	5	1119	214.4	0.13	0.01	0.04		

AVERAGE BLANK CANISTER ANALYSES FOR CELL 3 COVER REGION: 0.14 pCi/m2s

SEE APERTURE CARD FILES

NUMBER OF OVERSIZE PAGES FILMED ON APERTURE CARD(S) 2

ACCESSION NUMBERS OF OVERSIZE PAGES:

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