



Shootaring Operations: Box 2111-Ticaboo, Lake Powell, UT 84533

(801) 788-2120

september 5, 1996

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

U. S. Nuclear Regulatory Commission
Division of Waste management, M.S. 5 E2
Attn: Joseph J. Holonich, Chief
High Level waste and Uranium
Recovery Project Branch
11555 Rockville Pike
Rockville, MD. 20850

RE: Effluent Monitoring Report - SUA-1371, Docket No. 40-8698

Gentlemen:

Enclosed please find the original and four copies of the
Effluent Monitoring Report for the Shootaring Canyon Uranium
Processing Facility for the period from January 1, 1994 through
June 30, 1996. This report is submitted in accordance with the
requirements of 10 CFR 40.65.

Sincerely,

Vance Morrill
Environmental Radiological Health Technician

Enclosures

cc: U.S. NRC Arlington TX.
cc: NSavignac

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EFFLUENT MONITORING REPORT

(10 CFR 40.65)

Report Period: January 1, 1996 through June 30, 1996

Shoothering Canyon Uranium Processing Facility
Garfield County, Utah
NRC License No. SUA-1371
Docket No. 40-8698

Prepared by:

Plateau Resources Limited
Box 2111-Ticaboo
Lake Powell, UT 84533

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1.0 INTRODUCTION

The following Effluent Monitoring Report is presented to comply with requirements in accordance with 10 CFR 40, section 40.65, for the Shootaring Canyon Uranium Processing Facility, Source Material License No. SUA-1371, Docket No. 40-8698, operated by Plateau Resources Limited, Box 2111-Ticaboo, Lake Powell, UT 84533.

The sampling data represents the time period from January 1, 1996 through June 30, 1996.

SUPPLEMENTAL NOTES

1. The "% MPC" column refers to the 10 CFR, Part 20, Appendix B, Table II values for unrestricted areas:

	DAC Air (<u>uCi/ml</u>)
U-Natural	9.0 E-14
Ra-226	9.0 E-13

2. Values are presented using the "E" format, i.e.:

$$1.2 \text{ E-16} = 1.2 \times 10^{-16}$$

3. All airborne particulate samples were collected using continuous high volume sampling techniques.
4. Lower limits of detection (LLD) and all analyses for the period of January 1, 1996 through June 30, 1996 were calculated and performed by outside laboratories; Energy laboratories Inc, Casper Wy.
5. Gross concentrations are the sum of naturally occurring background concentrations and mill generated effluents. Similarly, gross exposure rates are the sum of naturally occurring background exposure rates and mill generated exposure rates.

3.0 AIR SAMPLES - 1st half, 1996

3.1 PARTICULATES, High Volume Air Samples

Date: 1/1/96 to 06/30/96

Location: AP-3 - Downwind; Sampled 20 hours per quarter.

<u>Radionuclide</u>	<u>Gross Concentration and Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>% DAC</u>
U-Nat	1.98 E-16	1.0 E-16	2.20 E-01
R-226	1.00 E-16	1.0 E-16	1.11E-02

4.0 WATER SAMPLES

4.1 Groundwater Monitoring Wells

Date: 03/19/1996
location: RM-1

Type: Radiological Monitoring Well (hydrologically upgradient from tailings impoundment).

<u>Radionuclide</u>	<u>Gross Concentration and Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>
U-Nat	3.50 E-9	2 E-10
Ra-226	2.1 E-10 \pm 1.0 E-10	2 E-10

Date: 3/19/96
Location: RM-1

<u>CHEMICAL PARAMETER</u>	<u>CONCENTRATION (mg/l)</u>	<u>LLD (mg/l)</u>
As	0.001	0.001
Se	0.001	0.001
pH	8.20 pH units	0.1 pH units
chloride	6.40	1.

4.1 Groundwater Monitoring Wells

Date: 3-21-96

Location: RM-4

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

<u>Radionuclide</u>	<u>Gross Concentration and Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>
U-Nat	1.8 E-9	2 E-10
Ra-226	3.0 E-10 \pm 1.0 E-10	2 E-10

Date: 3/21/96

Location: RM-4

<u>CHEMICAL PARAMETER</u>	<u>CONCENTRATION (mg/l)</u>	<u>LLD (mg/l)</u>
As	0.001	0.001
Se	0.001	0.001
pH	8.30 pH units	0.1 pH units
Chloride	5.30	1.

4.1 Groundwater Monitoring Wells

Date: 3-21-96

Location: RM-5

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

<u>Radionuclide</u>	<u>Gross Concentration and Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>
U-Nat	2.60 E-9	2 E-10
Ra-226	<2.0 E-10	2 E-10

Date: 3/21/96

Location: RM-5

<u>CHEMICAL PARAMETER</u>	<u>CONCENTRATION (mg/l)</u>	<u>LLD (mg/l)</u>
As	0.001	0.001
Se	0.001	0.001
pH	8.20	0.1 pH units
Chloride	5.0	1.0

4.1 Groundwater Monitoring Wells

Date: 3/20/96

Location: RM-6

Type: Radiological Monitoring Well (hydrologically downgradient from tailings impoundment).

<u>Radionuclide</u>	<u>Gross Concentration and Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>
U-Nat	2.30 E-9	2 E-10
Ra-226	<2.0 E-10	2.0 E-10

Date: 3-20-96

Location: RM-6

<u>CHEMICAL PARAMETER</u>	<u>CONCENTRATION (mg/l)</u>	<u>LLD (mg/l)</u>
As	0.001	0.001
Se	0.001	0.001
pH	8.20 pH units	0.1 pH units
Chloride	6.7	1.0