



Rio Algom

Rio Algom Mining Corp.
P.O. Box 1390
Glenrock, Wyoming 82637 307.358.3744 tel
762 Ross Road 307.266.2449 tel
Douglas, Wyoming 82633 307.358.9201 fax

Certified Mail-7001 2510 0008 1946 3748
Return Receipt Requested

February 28, 2002

Mr. Melvyn Leach
Fuel Cycle Licensing Branch
C/O Document Control Desk, Division of Fuel Cycle Safety and Safeguards,
Office of Nuclear Materials Safety and Safeguards, U.S. NRC.
11545 Rockville Pike, Two White Flint North
Rockville, MD 20852-2738

RE: Smith Ranch Facility
NRC License SUA-1548, Docket 40-8964
Semi-Annual Effluent Monitoring Report, July 1-December 31, 2001

Dear Mr. Leach:

Please find attached the Semi-Annual Effluent Monitoring Report for July 1, 2001 through December 31, 2001, as required pursuant to Smith Ranch License condition 11.1.

During this reporting period there were no areas of concern. If you have any questions regarding the report, please feel free to contact me at (307) 358-3744, ext. 62.

Sincerely,

John W. Cash
Manager EHS & Regulatory Affairs

Cc: B. Ferdinand-w/attachments (RAM/SRP)
M. Freeman-w/ attachments (RAM/OKC)
P. Goranson-w/attachments (RAM/OKC)
S. Ingle-w/attachments (WDEQ/Cheyenne)
-Certified Mail-7001 2510 0008 1946 3731
J. Lusher-w/attachments (NRC)
- Certified Mail - 7099 3220 0002 1633 0515
file

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**RIO ALGOM MINING LLC.
SEMI-ANNUAL EFFLUENT MONITORING REPORT
SMITH RANCH FACILITY
JULY 1 THROUGH DECEMBER 31, 2001**

**NRC - LICENSE SUA-1548, DOCKET 40-8964
WDEQ/LQD - PERMIT TO MINE #633**

**RIO ALGOM MINING CORP.- SMITH RANCH FACILITY
SEMI-ANNUAL EFFLUENT MONITORING REPORT
JULY 1 THROUGH DECEMBER 31, 2001**

EFFLUENT MONITOR REPORT

The Smith Ranch license, specifically condition 11.1, describes the effluent and environmental monitoring program for the facility. Accordingly, pursuant to 10 CFR §40.65, license condition 11.1, and the parameters from Table 5.3 from the March 31, 1988, license application as amended, the effluent and monitoring results for this semi-annual period are provided.

I. Commercial Operation Data-Injection Rates, Recovery Rates, Pipeline Pressures, and Injection Manifold Pressures

Presented in the tables below are the average injection rates, recovery rates, pipeline pressures, and injection manifold pressures as required by condition 11.1.

Injection and Recovery Rates
(average gallons per minute)

MONTH	WF#1 PC FLOW	WF#1 IC FLOW	WF#3 PC FLOW	WF#3 IC FLOW	WF#4 PC FLOW	WF#4 IC FLOW	WF#4A PC FLOW	WF#4A IC FLOW
JUL.	61.91	61.61	1229.54	1217.80	2988.89	2974.05	1347.83	1341.14
AUG.	32.49	32.34	1219.57	1197.91	2204.56	2194.26	1349.88	1343.58
SEPT.	137.44	136.43	962.27	952.33	1434.05	1423.46	1404.13	1393.76
OCT.	292.46	290.07	900.91	890.00	1345.06	1334.06	1708.61	1694.64
NOV.	288.42	285.43	1038.15	1027.64	1159.70	1147.68	1600.21	1583.62
DEC.	254.88	253.26	1091.45	1080.73	1223.90	1216.10	1566.62	1556.64

Pipeline Pressures
(pounds per square inch)

MONTH	CPP PC PRESSURE	CPP IC PRESSURE	SAT PC PRESSURE	SAT IC PRESSURE
JUL.	97	164	118	80
AUG.	119	165	104	62
SEPT.	100	160	107	78
OCT.	105	161	109	87
NOV.	95	162	107	55
DEC.	77	157	87	21

Injection Manifold Pressures (pounds per square inch)

MONTH	WF#1 INJECTION PRESSURE	WF#3 INJECTION PRESSURE	WF#4 INJECTION PRESSURE	WF#4A INJECTION PRESSURE
JULY	3	123	119	127
AUG.	0	112	127	126
SEPT.	44	121	120	132
OCT.	102	122	122	129
NOV.	102	92	126	137
DEC.	102	67	129	140

*This is the injection pressure at the manifold. Injection pressure at the individual wellhead is less due to pressure loss through manifold system, pipelines and filters.

II. Air Sampling

A. Particulates

Pursuant to license condition 11.1 as defined by Table 5.3, air particulates monitoring is performed by continuous air samplers at the nearest downwind residence (Vollman Ranch), downwind of the restricted area boundary (fence line), and an upwind location (Dave's Water Well). Monitoring is required to be conducted quarterly.⁽¹⁾ The results from this quarterly monitoring are presented below.

Vollman Ranch

PARAMETER	3 rd QUARTER			4 th QUARTER		
	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	1.92E-15	1.00E-16	N/A	9.69E-16	1.00E-16	N/A
Th-230	1.02E-15	1.00E-16	3.94E-16	3.18E-16	1.00E-16	1.99E-16
Ra-226	1.58E-15	1.00E-16	3.15E-16	6.76E-16	1.00E-16	1.99E-16
Pb-210	3.82E-13	2.00E-15	9.37E-15	3.95E-13	2.00E-15	6.24E-15

⁽¹⁾ Samples collected monthly and composited quarterly.

Dave's Water Well

PARAMETER	3 rd QUARTER			4 th QUARTER		
	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	1.49E-15	1.00E-16	N/A	7.08E-16	1.00E-16	N/A
Th-230	3.67E-16	1.00E-16	2.75E-16	3.05E-16	1.00E-16	2.61E-16
Ra-226	1.74E-15	1.00E-16	3.67E-16	7.41E-16	1.00E-16	2.18E-16
Pb-210	2.79E-13	2.00E-15	9.27E-15	3.86E-13	2.00E-15	6.52E-15

Fence Line

PARAMETER	3 rd QUARTER			4 th QUARTER		
	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)	CONC. (μ Ci/ml)	LLD (μ Ci/ml)	ERROR ESTIMATE (μ Ci/ml)
U _{NAT}	1.85E-14	1.00E-16	N/A	1.07E-14	1.00E-16	N/A
Th-230	1.52E-16	1.00E-16	0.00E+0	4.40E-16	1.00E-16	3.08E-16
Ra-226	2.20E-15	1.00E-16	3.80E-16	2.86E-15	1.00E-16	3.08E-16
Pb-210	3.71E-13	2.00E-15	9.03E-15	4.37E-13	2.00E-15	6.91E-15

B. Radon

Pursuant to license condition 11.1 as defined by Table 5.3, radon is monitored by continuous samplers (track etch) at the nearest downwind residence (Vollman Ranch), downwind of the restricted area boundary (fence line), and an upwind location (Dave's Water Well). Monitoring is required to be conducted quarterly. The results indicate the values continue to be indistinguishable and within the sphere of background. Accordingly, Rio Algom to show compliance with the provisions of 10 CFR §1301, uses the provisions provided in 10 CFR §1302(b)(1).

Vollman Ranch⁽²⁾

	3 rd Quarter	4 th Quarter
Parameter	Conc. (μ Ci/ml)	Conc. (μ Ci/ml)
Radon	6.0E-10	1.2E-9

⁽²⁾ NVLAP Vendor does not provide percent error or lower level of detection.

Dave's Water Well

	3 rd Quarter	4 th Quarter
Parameter	Conc. (μ Ci/ml)	Conc. (μ Ci/ml)
Radon	8.0E-10	9.0E-10

Fence Line

	3 rd Quarter	4 th Quarter
Parameter	Conc. (μ Ci/ml)	Conc. (μ Ci/ml)
Radon	8.0E-10	8.0E-10

III. Water

A. Groundwater

The groundwater monitoring program requires operating livestock or domestic wells within 1 kilometer of operating wellfields be sampled quarterly for natural uranium and radium-226. Vollman's Pond and Smith Windmill #1 are within 1 kilometer of wellfield #1 and Smith's Windmill #2 and the Solar Pump are within 1 kilometer of wellfield #3. There are no livestock or domestic wells within 1 kilometer of wellfield #4. The results of the quarterly samples for the operating livestock wells are presented in the table below.

Local Groundwater Wells

	3 rd Quarter		4 th Quarter	
Location	Unat (μ Ci/ml)	Ra-226 (μ Ci/ml)	Unat (μ Ci/ml)	Ra-226 (μ Ci/ml)
Vollman Pond	NO WATER	NO WATER	NO WATER	NO WATER
Smith Pond	NO WATER	NO WATER	NO WATER	NO WATER
Smith's Windmill #1	2.98E-8	1.30E-9	NO WATER	NO WATER
Smith's Windmill #2	5.96E-8	7.0E-10	NO WATER	NO WATER
Solar Pump	5.96E-9	4.0E-10	NO WATER	NO WATER

B. Surface Water

The surface water monitoring program requires two (2) samples from Sage Creek and one (1) sample from the outfall of the treatment plant. Each is on a quarterly basis. The Sage Creek samples are to be taken upstream and downstream from the restricted areas when flow is available in the creek.

During the 3rd and 4th quarter of the report period, there was no flow in Sage Creek and therefore, no analytical results are available. There was no flow above the restricted area during either quarter. In regards to the outfall from the treatment plant, upon commencement of commercial operations, the discharge is routed to the facility's central processing plant and disposed through the UIC permitted disposal well. Thus, there was no discharge from the outfall during the report period. The NPDES reporting for this outfall is presented in Appendix A.

Sage Creek Sample Results

	3 rd Qtr.		4 th Qtr.	
Sample Location	Unat ($\mu\text{g/ml}$)	Ra226 ($\mu\text{Ci/ml}$)	Unat ($\mu\text{g/ml}$)	Ra226 ($\mu\text{Ci/ml}$)
Below Restricted Area	No Flow	No Flow	No Flow	No Flow
Above Restricted Area	No Flow	No Flow	No Flow	No Flow

IV. Soil

Soil sampling is conducted annually at the downwind air sampling station. A sample was taken during the second half of the calendar year with the results presented below.

Soil Sample Result

Location	U _{nat} pCi/g	Ra ₂₂₆ pCi/g	Pb ₂₁₀ pCi/g
Downwind of Air Sampling Station	0.45	0.84	0.82

V. Vegetation

Vegetation sampling is performed annually at the downwind air sampling station. The sampling was performed during the second half of the calendar year with the results reported below.

Vegetation Sample Result

Location	U μ Ci/Kg	Ra ₂₂₆ μ Ci/Kg	Th ₂₃₀ μ Ci/Kg	Pb ₂₁₀ μ Ci/Kg
Downwind of Air Sampling Station	5.5E-05	8.1E-05	1.8E-05	7.7E-04

VI. Direct Radiation

Direct radiation readings are measured at the three (3) air monitoring stations, downwind of the evaporation pond, and at each wellfield using dosimeter badges on a quarterly basis. Provided in the table below are the results from those measurements.

Direct Radiation (μ R/hr)

Location	3 rd Quarter	4 th Quarter
Vollman Ranch	15.1	12.3
Fence Line	18.6	15.1
Dave's Water Well	16.0	13.5
Wellfield #1	16.0	14.3
Wellfield #3	14.6	12.7
Wellfield #4	15.1	14.7
Wellfield #4A	14.6	13.1
Pond	16.8	14.7

*Background has not been subtracted from the above readings. Dave's Water Well is the background.

VII. Stack Sampling

As constructed, there are no effluent stacks from the yellowcake vacuum dryers. Accordingly, there is no stack sampling of the yellowcake dryer.

VIII. Other Effluent Monitoring Results

A. Gamma Radiation Survey

During "Deferred Production Status" of the O-Sand Pilot area, gamma radiation was measured quarterly at the following four (4) locations. Please note that with the initiation of commercial operations in wellfield #3 on August 10, 1998, the "Deferred Production Status" monitoring requirements are no longer required. Although, not required, measurements obtained during the 3rd and 4th quarter are presented in the table below.

Deferred Production Status Direct Radiation Measurements

Location	3 rd Quarter (μ R/Hr)	4 th Quarter (μ R/Hr)
Downwind of Radon Sampling Location	28	28
Upwind of Process Plant	18	22
Process Leach Tank	26	38
Evaporation Ponds	51	40

APPENDIX A



Rio Algom

Rio Algom Mining Corp.

P.O. Box 1390

Glenrock, Wyoming 82637

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Douglas, Wyoming 82633

307.358.3744 tel

307.266.2449 tel

307.358.9201 fax

Certified Mail - 7099 3220 0002 1633 0218
Return Receipt Requested

October 2, 2001

Mr. Chris Abernathy
Department of Environmental Quality
Water Quality Division
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002

RE: 3rd Quarter 2001 NPDES Discharge Monitoring Report

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit Number WY-0022411 for the third quarter of 2001.

There was **"No Discharge"** from either discharge point during the quarter.

Sincerely,

John W. Cash
Manager EHS and Regulatory Affairs

xc: B. Ferdinand-w/ attachments
M. Freeman-w/o attachments
P. Goranson-w/ attachments
file-w/ attachments

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER
WY0022411

DISCHARGE NUMBER
003Q

NO DISCHARGE
XXXXXXXXXX

Bill Ferdinand
Bill Smith Uranium Mine
S36,T36N,R74W

MONITORING PERIOD
From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Bicarbonate 7/1/01 through 9/30/01			n/a		No Discharge	No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Chlorides 7/1/01 through 9/30/01			n/a		No Discharge		mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Oil And Grease (Visual) 7/1/01 through 7/31/01			n/a		No Discharge		mg/l		
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									
Oil And Grease (Visual) 8/1/01 through 8/31/01			n/a		No Discharge		mg/l		
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fine up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

Bill Ferdinand

Bill Ferdinand

TELEPHONE

307/358-3744

DATE

10/02/01

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER
WY0022411

DISCHARGE NUMBER
003Q

NO DISCHARGE
XXXXXXXXXXXX

Bill Ferdinand
Bill Smith Uranium Mine
S36,T36N,R74W

MONITORING PERIOD

From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Oil And Grease (Visual) 9/1/01 through 9/30/01			n/a			No Discharge	mg/l		
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.									
pH 7/1/01 through 9/30/01			n/a	No Discharge		No Discharge	SU		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Selenium 7/1/01 through 9/30/01			n/a	No Discharge		No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Sodium 7/1/01 through 9/30/01			n/a			No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									

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Rio Algom Mining Corporation
PO Box 1390

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DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER
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DISCHARGE NUMBER
003Q

NO DISCHARGE
XXXXXXXXXXXX

Bill Ferdinand
Bill Smith Uranium Mine
S36,T36N,R74W

MONITORING PERIOD
From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Arsenic 7/1/01 through 9/30/01			n/a		No Discharge	ug/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 7/1/01 through 7/31/01	No Discharge	No Discharge	MGD			n/a		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 8/1/01 through 8/31/01	No Discharge	No Discharge	MGD			n/a		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 9/1/01 through 9/30/01	No Discharge	No Discharge	MGD			n/a		

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Bill Ferdinand
Bill Smith Uranium Mine
S36,T36N,R74W

MONITORING PERIOD

From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Dissolved Radium 226 7/1/01 through 7/31/01			n/a	No Discharge		No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Dissolved Radium 226 8/1/01 through 8/31/01			n/a	No Discharge		No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Dissolved Radium 226 9/1/01 through 9/30/01			n/a	No Discharge		No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Oil And Grease (Visual) 7/1/01 through 7/31/01			n/a			No Discharge	mg/l		

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

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R.P. Luke/President

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PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Oil And Grease (Visual) 8/1/01 through 8/31/01			n/a		No Discharge	mg/l		
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.								
Oil And Grease (Visual) 9/1/01 through 9/30/01			n/a		No Discharge	mg/l		
In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.								
pH 7/1/01 through 9/30/01			n/a	No Discharge	No Discharge	SU		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Selenium 7/1/01 through 9/30/01			n/a	No Discharge	No Discharge	mg/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

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From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Flow 7/1/01 through 7/31/01	No Discharge	No Discharge	MGD				n/a	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 8/1/01 through 8/31/01	No Discharge	No Discharge	MGD				n/a	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Flow 9/1/01 through 9/30/01	No Discharge	No Discharge	MGD				n/a	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Suspended Solids 7/1/01 through 7/31/01			n/a	No Discharge		No Discharge	mg/l	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AN AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fine up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Bill Ferdinand	TELEPHONE 307/358-3744
	DATE 10/02/01

Bill Ferdinand

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER
WY0022411

DISCHARGE NUMBER
001Q

NO DISCHARGE
XXXXXXXXXX

Bill Ferdinand
Bill Smith Uranium Mine
S36,T36N,R74W

MONITORING PERIOD

From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration			FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
Total Suspended Solids 8/1/01 through 8/31/01			n/a	No Discharge		No Discharge	mg/l	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Suspended Solids 9/1/01 through 9/30/01			n/a	No Discharge		No Discharge	mg/l	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Uranium (as U) 7/1/01 through 7/31/01			n/a	No Discharge		No Discharge	mg/l	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								
Total Uranium (as U) 8/1/01 through 8/31/01			n/a	No Discharge		No Discharge	mg/l	
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

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SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

Bill Ferdinand

Bill Ferdinand

TELEPHONE

307/358-3744

DATE

10/02/01

Page 4 of 5

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER

WY0022411

DISCHARGE NUMBER

001Q

NO DISCHARGE

XXXXXXXXXX

Bill Ferdinand

Bill Smith Uranium Mine

S36,T36N,R74W

MONITORING PERIOD

From 7/1/01 to 9/30/01

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Total Uranium (as U)			n/a	No Discharge		No Discharge	mg/l		
9/1/01 through 9/30/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Zinc			n/a	No Discharge		No Discharge	mg/l		
7/1/01 through 9/30/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

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Bill Ferdinand

TELEPHONE

307/358-3744

DATE

10/02/01

Bill Ferdinand



Rio Algom

Rio Algom Mining Corp.
P.O. Box 1390
Glenrock, Wyoming 82637 307.358.3744 tel
762 Ross Road 307.266.2449 tel
Douglas, Wyoming 82633 307.358.9201 fax

Certified Mail - 7001 2510 0008 1946 3700
Return Receipt Requested

January 4, 2002

Mr. Chris Abernathy
Department of Environmental Quality
Water Quality Division
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002

RE: 4th Quarter 2001 NPDES Discharge Monitoring Report

Dear Mr. Abernathy:

Attached are the Discharge Monitoring Reports for the Smith Ranch Facility, Permit Number WY-0022411 for the fourth quarter of 2001.

There was **"No Discharge"** from either discharge point during the quarter.

Sincerely,

John W. Cash
Manager EHS and Regulatory Affairs

xc: B. Ferdinand-w/ attachments
M. Freeman-w/o attachments
P. Goranson-w/ attachments
file-w/ attachments

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER
WY0022411

DISCHARGE NUMBER
001Q

NO DISCHARGE
XXXXXXXX

Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Dissolved Radium 226			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
10/1/01 through 10/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Dissolved Radium 226			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
11/1/01 through 11/30/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Dissolved Radium 226			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
12/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
10/1/01 through 10/31/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

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SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

Bill Ferdinand

Bill Ferdinand

TELEPHONE

307/358-3744

DATE

01/02/02

Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER

WY0022411

DISCHARGE NUMBER

001Q

NO DISCHARGE

XXXXXXX

Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
11/1/01 through 11/30/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
12/1/01 through 12/31/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

pH			n/a	NO DISCHARGE		NO DISCHARGE	SU		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Selenium			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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Rio Algom Mining Corporation
PO Box 1390

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER

WY0022411

DISCHARGE NUMBER

001Q

NO DISCHARGE

XXXXXXXX

Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
-----------	---------	---------	-------	---------	---------	---------	-------	-----------	-------------

Total Flow

NO DISCHARGE	NO DISCHARGE	MGD
-----------------	-----------------	-----

			n/a
--	--	--	-----

--	--

10/1/01 through 10/31/01

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Flow

NO DISCHARGE	NO DISCHARGE	MGD
-----------------	-----------------	-----

			n/a
--	--	--	-----

--	--

11/1/01 through 11/30/01

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Flow

NO DISCHARGE	NO DISCHARGE	MGD
-----------------	-----------------	-----

			n/a
--	--	--	-----

--	--

12/1/01 through 12/31/01

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Suspended Solids

		n/a
--	--	-----

NO DISCHARGE		NO DISCHARGE	mg/l
-----------------	--	-----------------	------

--	--

10/1/01 through 10/31/01

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Luke/President

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DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER

WY0022411

DISCHARGE NUMBER

001Q

NO DISCHARGE

XXXXXXXXXX

Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Total Suspended Solids			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
11/1/01 through 11/30/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Suspended Solids			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
12/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Uranium (as U)			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
10/1/01 through 10/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Uranium (as U)			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
11/1/01 through 11/30/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Glenrock WY 826371390

PERMIT NUMBER

WY0022411

DISCHARGE NUMBER

001Q

NO DISCHARGE

XXXXXXXX

Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Total Uranium (as U)			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
12/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Total Zinc			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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Glenrock WY 826371390

PERMIT NUMBER

WY0022411

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Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Bicarbonate			n/a			NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Chlorides			n/a			NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
10/1/01 through 10/31/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
11/1/01 through 11/30/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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PERMIT NUMBER

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Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36.T36N.R74W

Quantity or Loading

Quality or Concentration

PARAMETER	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	FREQUENCY	SAMPLE TYPE
Oil And Grease (Visual)			n/a			NO DISCHARGE	mg/l		
12/1/01 through 12/31/01									

In the event that an oil sheen or floating oil is observed in the discharge, a grab sample must be immediately taken, analyzed and reported. See permit.

pH			n/a	NO DISCHARGE		NO DISCHARGE	SU		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Selenium			n/a	NO DISCHARGE		NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

Sodium			n/a			NO DISCHARGE	mg/l		
10/1/01 through 12/31/01									

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

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PERMIT NUMBER

WY0022411

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Bill Ferdinand

MONITORING PERIOD

From 10/1/01 to 12/31/01

Bill Smith Uranium Mine

S36,T36N,R74W

PARAMETER	Quantity or Loading			Quality or Concentration				FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		
Total Arsenic 10/1/01 through 12/31/01			n/a			NO DISCHARGE	ug/l		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Total Flow 10/1/01 through 10/31/01	NO DISCHARGE	NO DISCHARGE	MGD				n/a		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Total Flow 11/1/01 through 11/30/01	NO DISCHARGE	NO DISCHARGE	MGD				n/a		
Please see permit, Part 1, Section A for an explanation of the limitations for this permit.									
Total Flow 12/1/01 through 12/31/01	NO DISCHARGE	NO DISCHARGE	MGD				n/a		

Please see permit, Part 1, Section A for an explanation of the limitations for this permit.

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