

Rio Algom Mining LLC

August 27, 2007

ADDRESSEE ONLY

Mr. Tom McLaughlin, Project Manager
U.S. Nuclear Regulatory Commission
Mail Stop T-7-E18
Washington, DC 20555

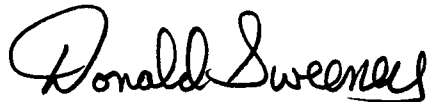
Re: **License SUA-1473, Docket No. 40-8905**
Semiannual Effluent Report – 1st Half 2007

Dear Mr. McLaughlin,

In accordance with license condition #19 of the above referenced source material license and the NRC approved *Health Physics and Environmental Programs Manual*, please find attached the first half 2007 Semiannual Report for the Ambrosia Lake facility.

If you have any questions or need additional information, please do not hesitate to call me at (505) 287-8851, extension 15.

Regards,



Donald Sweeney
Environmental Supervisor/RSO

Attachment

xc: T. Fletcher
NRC (document control)
file

**RIO ALGOM MINING LLC
AMBROSIA LAKE FACILITY**

License SUA – 1473 Docket 40 – 8905

**Semi – Annual
Effluent Report
1st half 2007**

August 27, 2007

Rio Algom Mining LLC
Ambrosia Lake Facility

License SUA-1473
Docket Number 40-8905

Yellowcake Dryer Stack Emissions

Mill building demolition of the conventional mill circuit was successfully completed in February 2004.

Rio Algom Mining LLC
Ambrosia Lake Facility

License SUA-1473
Docket Number 40-8905

Crushing Circuit Stack Emissions

Mill building demolition of the conventional mill circuit was successfully completed in February 2004.

High Volume Environmental Air Samples
1st Half 2007

1st Quarter 2007					Substation	2nd Quarter 2007				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit		Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	3.6E-18	1.1E-19	3.0E-18	< 1.0		U-nat	8.4E-18	5.0E-19	3.0E-18	< 1.0
Th-230	5.3E-17	8.6E-18	5.8E-18	< 1.0		Th-230	1.1E-16	1.8E-17	1.2E-17	< 1.0
Ra-226	-1.8E-19	5.0E-18	1.1E-17	< 1.0		Ra-226	3.9E-18	2.4E-18	5.6E-18	< 1.0
Pb-210	1.5E-15	5.2E-17	6.5E-17	< 1.0		Pb-210	1.3E-15	8.7E-17	2.4E-16	< 1.0

1st Quarter 2007					Section 17 VH 4	2nd Quarter 2007				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit		Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	-2.6E-18	-7.8E-20	2.6E-18	< 1.0		U-nat	3.6E-18	2.2E-19	2.6E-18	< 1.0
Th-230	1.5E-17	4.8E-18	4.9E-18	< 1.0		Th-230	1.3E-17	7.4E-18	9.2E-18	< 1.0
Ra-226	5.4E-19	2.4E-18	5.7E-18	< 1.0		Ra-226	4.1E-18	2.5E-18	5.5E-18	< 1.0
Pb-210	1.2E-15	4.5E-17	5.5E-17	< 1.0		Pb-210	1.0E-15	7.7E-17	2.3E-16	< 1.0

Note: On-going site reclamation (lined pond relocation project) initiated in December 2005.
Relocation work reflected in slight increase in concentrations in 2nd quarter.

High Volume Environmental Air Samples
1st Half 2007

1st Quarter 2007					Section 30 West VH 6				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	6.4E-18	1.9E-19	2.7E-18	< 1.0	U-nat	1.1E-17	6.7E-19	2.7E-18	< 1.0
Th-230	6.7E-17	1.0E-17	6.7E-18	< 1.0	Th-230	5.9E-17	1.2E-17	9.4E-18	< 1.0
Ra-226	4.2E-18	3.7E-18	9.4E-18	< 1.0	Ra-226	1.3E-17	3.1E-18	6.8E-18	< 1.0
Pb-210	1.7E-15	5.4E-17	6.6E-17	< 1.0	Pb-210	1.4E-15	6.9E-17	1.9E-16	< 1.0

1st Quarter 2007					North Fence				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	1.1E-17	3.4E-19	2.9E-18	< 1.0	U-nat	3.2E-17	1.9E-18	2.9E-18	< 1.0
Th-230	1.2E-16	2.8E-17	2.4E-17	< 1.0	Th-230	2.8E-16	2.5E-17	1.0E-17	1.4
Ra-226	8.7E-18	2.3E-18	5.1E-18	< 1.0	Ra-226	2.3E-17	3.7E-18	6.3E-18	< 1.0
Pb-210	1.6E-15	5.1E-17	5.6E-17	< 1.0	Pb-210	1.0E-15	8.3E-17	2.4E-16	< 1.0

Note: On-going site reclamation (lined pond relocation project) initiated in December 2005.
Relocation work reflected in slight increase in concentrations in 2nd quarter.

High Volume Environmental Air Samples
1st Half 2007

1st Quarter 2007					KGL-North					2nd Quarter 2007				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	2.6E-17	7.7E-19	3.0E-18	< 1.0	U-nat	1.8E-17	1.1E-18	3.0E-18	< 1.0	U-nat	1.8E-17	1.1E-18	3.0E-18	< 1.0
Th-230	3.7E-16	2.2E-17	6.5E-18	1.8	Th-230	1.9E-16	2.1E-17	1.1E-17	< 1.0	Th-230	1.9E-16	2.1E-17	1.1E-17	< 1.0
Ra-226	1.1E-17	3.7E-18	9.6E-18	< 1.0	Ra-226	6.8E-18	2.7E-18	6.2E-18	< 1.0	Ra-226	6.8E-18	2.7E-18	6.2E-18	< 1.0
Pb-210	2.1E-15	6.0E-17	5.9E-17	< 1.0	Pb-210	1.7E-15	1.1E-16	2.8E-16	< 1.0	Pb-210	1.7E-15	1.1E-16	2.8E-16	< 1.0

1st Quarter 2007					KGL-South					2nd Quarter 2007				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit	Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	1.3E-17	4.0E-19	2.2E-18	< 1.0	U-nat	1.6E-17	9.8E-19	2.2E-18	< 1.0	U-nat	1.6E-17	9.8E-19	2.2E-18	< 1.0
Th-230	1.6E-16	1.2E-17	4.8E-18	< 1.0	Th-230	2.1E-16	1.8E-17	7.8E-18	1.0	Th-230	2.1E-16	1.8E-17	7.8E-18	1.0
Ra-226	7.8E-18	3.5E-18	1.1E-17	< 1.0	Ra-226	5.9E-19	1.3E-18	4.6E-18	< 1.0	Ra-226	5.9E-19	1.3E-18	4.6E-18	< 1.0
Pb-210	2.1E-15	5.3E-17	5.4E-17	< 1.0	Pb-210	1.6E-15	8.5E-17	2.4E-16	< 1.0	Pb-210	1.6E-15	8.5E-17	2.4E-16	< 1.0

Note: On-going site reclamation (lined pond relocation project) initiated in December 2005.
Relocation work reflected in slight increase in concentrations in 2nd quarter.

High Volume Environmental Air Samples
1st Half 2007

1st Quarter 2007					Mill Diversion	2nd Quarter 2007				
Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit		Nuclide	Conc. (uCi/ml)	Error (uCi/ml)	LLD (uCi/ml)	% Limit
U-nat	1.8E-16	5.4E-18	3.2E-17	< 1.0		U-nat	2.3E-16	1.4E-17	3.2E-17	< 1.0
Th-230	3.3E-15	2.2E-16	7.4E-17	16.7		Th-230	4.8E-15	3.4E-16	1.1E-16	23.8
Ra-226	1.8E-16	3.9E-17	8.0E-17	< 1.0		Ra-226	1.8E-16	3.8E-17	7.7E-17	< 1.0
Pb-210	1.7E-14	5.7E-16	6.2E-16	2.9		Pb-210	1.6E-14	9.4E-16	2.2E-15	2.7

Note: On-going site reclamation (lined pond relocation project) initiated in December 2005.
Relocation work reflected in slight increase in concentrations in 2nd quarter.

Vegetation

Location: Substation Date: June 2007 Sample Media: Vegetation				Location: Mill Diversion Date: June 2007 Sample Media: Vegetation			
Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)	Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	4.1E-05	1.4E-06	3.4E-05	U-nat	4.2E-04	1.5E-05	3.4E-05
Th-230	3.7E-04	1.4E-03	2.1E-03	Th-230	1.5E-03	1.5E-03	2.1E-03
Ra-226	4.4E-04	5.4E-04	1.6E-03	Ra-226	1.8E-03	7.3E-04	1.7E-03
Pb-210	0.0E+00	4.5E-03	1.5E-02	Pb-210	0.0E+00	5.6E-03	2.0E-02

Location: Section 30 West VH6 Date: June 2007 Sample Media: Vegetation				Location: North Fence Date: June 2007 Sample Media: Vegetation			
Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)	Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	1.2E-04	4.3E-06	3.4E-05	U-nat	1.8E-04	6.4E-06	3.4E-05
Th-230	-1.5E-04	1.1E-03	1.9E-03	Th-230	1.3E-03	1.3E-03	1.7E-03
Ra-226	4.3E-04	5.7E-04	1.8E-03	Ra-226	1.5E-04	6.6E-04	2.2E-03
Pb-210	6.2E-04	4.6E-03	1.6E-02	Pb-210	0.0E+00	4.7E-03	1.6E-02

Vegetation

Location: Section 17 VH 4
Date: June 2007
Sample Media: Vegetation

Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	-3.4E-05	-1.2E-06	2.0E-05
Th-230	2.2E-04	1.1E-03	1.6E-03
Ra-226	1.5E-04	4.8E-04	1.7E-03
Pb-210	6.7E-03	4.8E-03	1.5E-02

Location: KGL-North
Date: June 2007
Sample Media: Vegetation

Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	2.2E-04	7.8E-06	4.1E-05
Th-230	1.7E-03	1.3E-03	1.8E-03
Ra-226	4.6E-04	5.8E-04	1.8E-03
Pb-210	0.0E+00	4.9E-03	1.6E-02

Location: KGL-South
Date: June 2007
Sample Media: Vegetation

Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	9.5E-05	3.3E-06	4.1E-05
Th-230	5.8E-04	1.1E-03	1.6E-03
Ra-226	2.5E-04	5.3E-04	1.7E-03
Pb-210	4.7E-04	5.8E-03	2.1E-02

Soil

Location: Substation				Location: Mill Diversion			
Date: April 2007				Date: April 2007			
Sample Media: Soil				Sample Media: Soil			
Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)	Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	7.5E-07	7.8E-08	3.4E-08	U-nat	5.1E-06	5.3E-07	3.4E-08
Th-230	1.0E-05	4.8E-07	5.6E-07	Th-230	2.1E-06	1.6E-06	5.7E-07
Ra-226	1.8E-06	5.4E-07	1.0E-06	Ra-226	1.6E-06	1.4E-06	1.0E-06
Pb-210	3.6E-06	1.4E-06	3.4E-06	Pb-210	1.1E-06	2.0E-06	4.5E-06

Location: Section 30 West VH6				Location: North Fence			
Date: April 2007				Date: April 2007			
Sample Media: Soil				Sample Media: Soil			
Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)	Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	3.7E-06	3.8E-07	3.4E-08	U-nat	9.7E-07	1.0E-07	3.4E-08
Th-230	2.1E-06	6.2E-07	6.1E-07	Th-230	7.4E-07	5.1E-07	6.0E-07
Ra-226	2.6E-06	6.1E-07	9.8E-07	Ra-226	1.2E-06	5.0E-07	1.1E-06
Pb-210	3.5E-06	1.7E-06	4.4E-06	Pb-210	3.0E-06	1.5E-06	3.9E-06

Soil

Location: Section 17 VH 4
Date: April 2007
Sample Media: Soil

Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	8.6E-07	8.9E-08	3.4E-08
Th-230	1.2E-06	5.4E-07	6.2E-07
Ra-226	1.2E-06	4.7E-07	1.0E-06
Pb-210	1.3E-06	1.4E-06	3.7E-06

Location: KGL-North
Date: April 2007
Sample Media: Soil

Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	9.1E-07	9.4E-08	3.4E-08
Th-230	2.0E-06	6.5E-07	6.6E-07
Ra-226	2.1E-06	5.4E-07	9.4E-07
Pb-210	1.6E-06	1.6E-06	4.3E-06

Location: KGL-South
Date: April 2007
Sample Media: Soil

Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	1.5E-06	1.6E-07	3.4E-08
Th-230	2.8E-06	6.5E-07	5.5E-07
Ra-226	1.9E-06	5.5E-07	1.0E-06
Pb-210	2.8E-06	6.5E-07	5.5E-07

Sediment

Location: P-0 Date: June 2007 Sample Media: Sediment				Location: P-1 Date: June 2007 Sample Media: Sediment			
Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)	Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	5.7E-06	3.4E-07	3.4E-08	U-nat	7.0E-06	4.1E-07	3.4E-08
Th-230	1.4E-06	5.3E-07	5.7E-07	Th-230	1.1E-05	1.1E-06	5.2E-07
Ra-226	2.0E-06	4.6E-06	7.6E-06	Ra-226	5.8E-06	7.9E-07	8.5E-07
Pb-210	6.4E-06	3.3E-06	8.0E-06	Pb-210	2.3E-06	4.3E-06	1.2E-05

Location: P-2 Date: June 2007 Sample Media: Sediment				Location: P-3 Date: June 2007 Sample Media: Sediment			
Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)	Nuclide	Conc. (uCi/g)	Error (uCi/g)	LLD (uCi/g)
U-nat	7.0E-06	4.1E-07	3.4E-08	U-nat	2.3E-06	1.4E-07	3.4E-08
Th-230	7.6E-06	9.6E-07	5.5E-07	Th-230	1.6E-06	5.6E-07	5.7E-07
Ra-226	8.1E-06	8.6E-07	7.6E-07	Ra-226	2.7E-06	5.2E-06	7.5E-07
Pb-210	1.0E-05	3.8E-06	9.3E-06	Pb-210	2.7E-06	3.1E-06	7.8E-06

Environmental Gamma Radiation

Date: 1st Quarter 2007
Sample Media: Gamma

Date: 2nd Quarter 2007
Sample Media: Gamma

<u>Location</u>	<u>Rate (mRem/qtr)</u>	<u>Error (mRem/qtr)</u>
Substation	0	1.1
Mill Diversion	14	1.0
Section 30W VH6	5	1.9
North Fence	0	1.8
Section 17 VH4	0	2.4
KGL South	0	1.8
KGL North	1	2.1

<u>Location</u>	<u>Rate (mRem/qtr)</u>	<u>Error (mRem/qtr)</u>
Substation	0	1.4
Mill Diversion	13	6.0
Section 30W VH6	1	3.5
North Fence	0	3.2
Section 17 VH4	0	1.0
KGL South	0	4.2
KGL North	2	11.2

Notes:

- 1 - KGL sample locations added as part of lined pond relocation project.
 - 2 - Values represent net values after subtraction of site control dosimeter.
 - 3 - Errors represent the 95% confidence interval based on the standard error of the mean.
-

Environmental Radon

Date: 1st Quarter 2007
Sample Media: Track Etch

Date: 2nd Quarter 2007
Sample Media: Track Etch

Location	Rate pCi/L	Error pCi/L	Location	Rate pCi/L	Error pCi/L
Substation	0.4	0.0	Substation	0.8	0.1
Mill Diversion	3.0	0.2	Mill Diversion	2.8	0.2
Section 30W VH6	2.8	0.2	Section 30W VH6	3.3	0.2
North Fence	2.7	0.2	North Fence	2.5	0.2
Section 17 VH4	0.8	0.1	Section 17 VH4	1.5	0.1
KGL-North	1.7	0.1	KGL-North	1.5	0.1
KGL-South	2.0	0.2	KGL-South	2.1	0.1

Notes:

1 - KGL sample locations added as part of lined pond relocation project.

Treated Mine Discharge Water

Sample: Treated Mine Water

Date: 1st Quarter 2007

Location	Uranium			Radium-226 (soluble)			Radium-226 (insoluble)		
	Conc. (mg/L)	Error (mg/L)	LLD (mg/L)	Conc. (pCi/L)	Error (pCi/L)	LLD (pCi/L)	Conc. (pCi/L)	Error (pCi/L)	LLD (pCi/L)
P-8	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-10	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-12	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-14	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-16	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-18	dry	dry	dry	dry	dry	dry	dry	dry	dry

Sample: Treated Mine Water

Date: 2nd Quarter 2007

Location	Uranium			Radium-226 (soluble)			Radium-226 (insoluble)		
	Conc. (mg/L)	Error (mg/L)	LLD (mg/L)	Conc. (pCi/L)	Error (pCi/L)	LLD (pCi/L)	Conc. (pCi/L)	Error (pCi/L)	LLD (pCi/L)
P-8	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-10	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-12	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-14	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-16	dry	dry	dry	dry	dry	dry	dry	dry	dry
P-18	dry	dry	dry	dry	dry	dry	dry	dry	dry

Mine water treatment discharge subject to NPDES permit limitations at outfall location.

Limits: Total Uranium = 4 mg/L (max); soluble Ra-226 = 10 pCi/L (max); total Ra-226 = 30 pCi/L (max)

RIO ALGOM MINING LLC
DISCHARGE PERMIT - DP-71
MONITORING RESULTS - 1ST QUARTER 2007

Date	Location	Depth to Water (ft)	Total Depth (ft)	WELL STATUS	pH (s.u.)	Temp. (C)	Spec. Cond. (uS)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Nitrate (mg/L)	Arsenic (mg/L)	Selenium (mg/L)	Uranium (mg/L)
1/26/2007	MW-12		15.42	NS										
1/26/2007	MW-13		29.35	NS										
1/29/2007	MW-22	34.71	36.79		6.53	10.9	5800	105	2850	4740	26.4	0.0075	0.104	0.0302
1/26/2007	MW-23	41.75	41.77	NS										
1/26/2007	MW-24		50.17	NS										
1/26/2007	MW-25		29.67	NS										
1/26/2007	MW-26	34.79	35.65	NS										
1/26/2007	MW-27		27.91	NS										
1/26/2007	MW-28		32.40	NS										
1/26/2007	MW-29		29.37	NS										
1/26/2007	MW-30		41.05	NS										
1/26/2007	MW-31		50.61	NS										
1/29/2007	MW-32	68.05	71.62		6.51	11.3	5340	126	2420	4500	1.44	0.0152	0.0258	0.0404
1/26/2007	MW-33		59.42	NS										

Notes

- 1 - Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.
- 2 - Monitor wells MW-1 through MW-11, MW-14 through MW-21 plugged and abandoned for the lined pond relocation project.

RIO ALGOM MINING LLC
DISCHARGE PERMIT - DP-71
MONITORING RESULTS - 1ST QUARTER 2007
SEMI-ANNUAL REPORT

Date	Location	WELL STATUS	HCO3 (mg/L)	CO3 (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	F (mg/L)	Al (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)
1/26/2007	MW-12	NS												
1/26/2007	MW-13	NS												
1/29/2007	MW-22		485.00	-2	540.00	264	660	9.1	0.8	-0.03	-0.005	-0.01	0.02	-0.01
1/26/2007	MW-23	NS												
1/26/2007	MW-24	NS												
1/26/2007	MW-25	NS												
1/26/2007	MW-26	NS												
1/26/2007	MW-27	NS												
1/26/2007	MW-28	NS												
1/26/2007	MW-29	NS												
1/26/2007	MW-30	NS												
1/26/2007	MW-31	NS												
1/29/2007	MW-32		881.00	-2	566.00	363	485	7.3	1.2	-0.03	-0.005	-0.01	-0.01	-0.01
1/26/2007	MW-33	NS												

Notes

1 - Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.

RIO ALGOM MINING LLC
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Date	Location	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	TKN (mg/L)	Ag (mg/L)	Zn (mg/L)	Ra-226 & Ra-228 (pCi/L)
1/26/2007	MW-12									
1/26/2007	MW-13									
1/29/2007	MW-22	3.55	-0.0001	17.1	-0.01	0.03	9.4	-0.01	-0.01	
1/26/2007	MW-23									
1/26/2007	MW-24									
1/26/2007	MW-25									
1/26/2007	MW-26									
1/26/2007	MW-27									
1/26/2007	MW-28									
1/26/2007	MW-29									
1/26/2007	MW-30									
1/26/2007	MW-31									
1/29/2007	MW-32	0.89	0.0001	1.8	-0.01	-0.01	2.5	-0.01	-0.01	
1/26/2007	MW-33									

Notes

1 -

Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.

RIO ALGOM MINING LLC
DISCHARGE PERMIT - DP-71
MONITORING RESULTS - 2nd QUARTER 2007

Date	Location	Depth to Water (ft)	Total Depth (ft)	WELL STATUS	pH (s.u.)	Temp. (C)	Spec. Cond. (uS)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Nitrate (mg/L)	Arsenic (mg/L)	Selenium (mg/L)	Uranium (mg/L)
5/1/2007	MW-12		14.85	NS										
5/1/2007	MW-13		29.34	NS										
4/30/2007	MW-22	34.79	36.76		6.98	15.5	5750	110	2880	5300	6.6	0.01	0.0304	0.0327
4/30/2007	MW-23	41.71	41.71	NS										
4/30/2007	MW-24		50.10	NS										
5/1/2007	MW-25		29.61	NS										
5/1/2007	MW-26	34.81	35.27	NS										
5/1/2007	MW-27		27.93	NS										
5/1/2007	MW-28		32.50	NS										
5/1/2007	MW-29		29.30	NS										
5/1/2007	MW-30		41.03	NS										
5/1/2007	MW-31		50.54	NS										
5/1/2007	MW-32	68.07	71.64		7.21	13.5	5400	130	2350	5200	6.6	0.021	0.0218	0.0604
5/1/2007	MW-33		59.35	NS										

Notes

- 1 - Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.
- 2 - Monitor wells MW-1 through MW-11, MW-14 through MW-21 plugged and abandoned for the lined pond relocation project.

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Date	Location	WELL STATUS	HCO ₃ (mg/L)	CO ₃ (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	F (mg/L)	Al (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)
5/1/2007	MW-12	NS												
5/1/2007	MW-13	NS												
4/30/2007	MW-22		671.00	-2.00	553.00	278	670	8	0.6	-0.2	-0.03	-0.05	-0.05	-0.05
4/30/2007	MW-23	NS												
4/30/2007	MW-24	NS												
5/1/2007	MW-25	NS												
5/1/2007	MW-26	NS												
5/1/2007	MW-27	NS												
5/1/2007	MW-28	NS												
5/1/2007	MW-29	NS												
5/1/2007	MW-30	NS												
5/1/2007	MW-31	NS												
5/1/2007	MW-32		1060.00	-2.00	579.00	359	499	7	0.8	-0.2	-0.03	-0.05	-0.05	-0.05
5/1/2007	MW-33	NS												

Notes

1 -

Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.

RIO ALGOM MINING LLC
DISCHARGE PERMIT - DP-71
MONITORING RESULTS - 2nd QUARTER 2007
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Date	Location	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	TKN (mg/L)	Ag (mg/L)	Zn (mg/L)	Ra-226 & Ra-228 (pCi/L)
5/1/2007	MW-12									
5/1/2007	MW-13									
4/30/2007	MW-22	5.6	-0.0005	17.3	-0.05	-0.05	6.6	-0.05	-0.05	1.7 & 3.5
4/30/2007	MW-23									
4/30/2007	MW-24									
5/1/2007	MW-25									
5/1/2007	MW-26									
5/1/2007	MW-27									
5/1/2007	MW-28									
5/1/2007	MW-29									
5/1/2007	MW-30									
5/1/2007	MW-31									
5/1/2007	MW-32	0.7	-0.0005	1.62	0.06	-0.05	6.6	-0.05	-0.05	.33 & 1.6
5/1/2007	MW-33									

Notes

1 -

Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.