

# Rio Algom Mining LLC

February 1, 2010

Certified Mail  
Return Receipt (7006 0100 0002 9977 4769)

Mr. Tom McLaughlin, Project Manager  
U.S. Nuclear Regulatory Commission  
Mail Stop T-8F5  
Washington, DC 20555

Re: **Errata for Semiannual Groundwater Report dated July 31, 2009  
Ambrosia Lake Facility  
License SUA-1473, Docket No. 40-8905  
License Condition #34, Semiannual Groundwater Report**

Dear Mr. McLaughlin,

Pursuant to license condition #34 of the above referenced license, a semiannual groundwater monitoring report was submitted for the first half of 2009 on July 31, 2009. The purpose of this letter is to provide errata for that report.

Appendix 1 of that report, "Stability Monitoring Plan Analytical Results", contained mislabeled ACL limits in two of the tables. The tables were for TRA Well Results and Alluvial Well Results. A complete set of corrected tables for Appendix 1 are provided under cover of this letter.

Please replace the previous tables in Appendix 1 with the corrected tables or attach these errata to the previous report. I apologized for any inconvenience this error may have caused.

If you have any questions concerning this submittal, please contact me at (505) 287-8851, extension 15.

Regards,



Chuck Wentz  
Environmental Department Supervisor  
Radiation Safety Officer

Attachment

xc: Document Control (NRC-MD)  
J. Shoepner (NMED-NM)  
file

# **APPENDIX 1**

**Stability Monitoring Plan  
Analytical Results**

RIO ALGOM MINING LLC  
1ST HALF 2009  
DAKOTA WELL RESULTS - ACL PARAMETERS

Well	Date	Depth To Water	Total Depth	Spec. (Cond.)	Temp C	pH	Chloride (mg/L)	Sulfate (mg/L)	T.D.S. (mg/L)	Nitrate (mg/L)
17-01KD	20-Jan-09	683.74	807.68	1547	20.7	9.25	47	700	1150	0.03
17-01KD	01-Jun-09	683.61	807.68	1468	21.7	8.97	41	640	1170	0.04
30-02KD	12-Jan-09	310.61	313.36	7660	14.2	7.13	1640	1710	5860	0.04
30-02KD	12-May-09	309.84	313.42	6740	16.9	6.90	2200	1600	6010	0.03
30-48KD	19-Jan-09		332.75							
30-48KD	12-May-09		332.80							
32-45KD	05-Jan-09	245.45	269.90	1964	11.3	7.28	200	790	1530	0.45
32-45KD	04-May-09	245.56	269.90	1793	17.8	7.43	190	730	1550	0.07
36-06	05-Jan-09	181.20	198.41	8440	11.0	3.97	1290	4400	8850	-0.02
36-06	11-May-09	181.81	198.01	8420	14.8	3.87	1220	4400	8620	0.04
5-02KD	12-Jan-09	190.29	191.17							
5-02KD	12-May-09	187.86	191.11	1312	17.1	7.49	27	270	800	0.34
<b>ACL</b>							<b>3200</b>	<b>6480</b>	<b>14100</b>	<b>22.8</b>

Well	Date	Ni (mg/L)	U-nat (mg/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Ra-226+Ra-228 (pCi/L)
17-01KD	20-Jan-09	0.0035	0.0029	0.04	12	1.29
17-01KD	01-Jun-09	0.0032	0.0021	-0.16	0	0.93
30-02KD	12-Jan-09	0.029	0.0023	-0.1	13	3.9
30-02KD	12-May-09	0.029	0.0014	-0.19	0	2.2
30-48KD	19-Jan-09					
30-48KD	12-May-09					
32-45KD	05-Jan-09	0.0171	0.0077	-0.7	0	2.04
32-45KD	04-May-09	0.0058	0.0101	0.49	3	2.06
36-06KD	05-Jan-09	0.339	1.05	37	0.67	21.9
36-06KD	11-May-09	0.262	0.954	30	0.05	25
5-02KD	12-Jan-09					
5-02KD	12-May-09	0.0024	0.003	-0.33	0	1.14
<b>ACL</b>		<b>68</b>	<b>1.6</b>	<b>945</b>	<b>88</b>	<b>218</b>

Well 5-02KD contained insufficient water for sample collection in January 2009

Well 30-48KD was dry.

A negative sign corresponds to 'less than'

RIO ALGOM MINING LLC  
1ST HALF 2009  
TRA WELL RESULTS - ACL PARAMETERS

Well	Date	Depth To Water	Total Depth	Spec. (Cond.)	Temp C	pH	Chloride (mg/L)	Sulfate (mg/L)	T.D.S. (mg/L)	Nitrate (mg/L)
30-01	19-Jan-09	206.64	207.26							
30-01	12-May-09	206.91	207.36							
31-01	05-Jan-09	202.54	250.43	1871	12.7	7.62	76	730	1540	0.08
31-01	04-May-09	202.60	250.43	1763	15.1	7.89	52	750	1540	0.03
33-01TRA	06-Jan-09	119.30	180.97	3680	12.0	7.12	38	1700	2670	0.13
33-01TRA	04-May-09	119.16	181.00	3730	14.4	7.75	35	1700	2700	0.15
<b>ACL</b>							<b>1070</b>	<b>2584</b>	<b>6400</b>	<b>9.2</b>

Well	Date	Th-230 (pCi/L)	Pb-210 (pCi/L)	Ra-226+Ra-228 (pCi/L)
30-01	19-Jan-09			
30-01	12-May-09			
31-01	05-Jan-09	0.19	0	2.8
31-01	04-May-09	0.04	0	2.31
33-01TRA	06-Jan-09	-0.04	0	4.9
33-01TRA	04-May-09	0.2	4.5	1.45
<b>ACL</b>		<b>945</b>	<b>88</b>	<b>218</b>

A negative sign corresponds to "less than"  
Well 30-01 contained insufficient water for sample collection

RIO ALGOM MINING LLC  
1ST HALF 2009  
TRB WELL RESULTS - ACL PARAMETERS

Well	Date	Depth To Water	Total Depth	Spec. (Cond.)	Temp C	pH	Chloride (mg/L)	Sulfate (mg/L)	T.D.S. (mg/L)	Nitrate (mg/L)
19-77	12-Jan-09	272.09	287.91	4500	13.8	7.26	24	1860	3470	0.15
19-77	04-May-09	272.02	287.91	4730	15.6	7.33	29	1600	3470	0.12
31-02	13-Jan-09	47.14	124.75	5150	12.4	6.92	510	2300	4700	2.07
31-02	11-May-09	42.55	124.70	4800	14.2	6.99	440	1900	4770	3.37
31-67	13-Jan-09	26.46	97.15	7370	12.3	6.58	1020	2900	6830	0.11
31-67	05-May-09	26.62	97.25	6840	13.8	6.62	1050	2000	6660	0.09
36-01	19-Jan-09	56.77	58.48	5070	11.0	8.05	700	350	3260	0.27
36-01	12-May-09		58.48							
36-02	13-Jan-09	42.48	57.51	8960	11.6	6.82	1130	3000	8370	2.5
36-02	11-May-09	42.86	57.51	8530	14.1	6.79	2230	3100	8600	0.28
<b>ACL</b>							<b>2810</b>	<b>4760</b>	<b>11700</b>	<b>7.7</b>

Well	Date	Ni (mg/L)	U-nat (mg/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Ra-226+Ra-228 (pCi/L)
19-77	12-Jan-09	0.005	0.0205	-0.08	20	4.21
19-77	04-May-09	0.006	0.0264	0.09	6.5	1.18
31-02	13-Jan-09	0.021	1.16	0.37	12	5.4
31-02	11-May-09	0.019	1.3	-0.18	0	4.7
31-67	13-Jan-09	0.03	0.0168	0.24	4.6	10.3
31-67	05-May-09	0.026		0.35	5.7	10.6
36-01	19-Jan-09	0.004	0.0062	-0.2	9.3	1.89
36-01	12-May-09					
36-02	13-Jan-09	0.025	0.0173	-0.03	0	4.01
36-02	11-May-09	0.019	0.0078	0.06	4.5	2.04
<b>ACL</b>		<b>6.8</b>	<b>1.6</b>	<b>945</b>	<b>88</b>	<b>218</b>

A negative sign corresponds to "less than"  
Monitor Well 36-01 contained insufficient water for sample collection in May 2009

RIO ALGOM MINING LLC  
1ST HALF 2009  
ALLUVIAL WELL RESULTS - ACL PARAMETERS

Well	Date	Depth To Water	Total Depth	Spec. (Cond.)	Temp C	pH	Chloride (mg/L)	Sulfate (mg/L)	T.D.S. (mg/L)	Nitrate (mg/L)
5-73	12-Jan-09	13.31	31.42	5170	11.5	7.18	750	1900	4080	0.1
5-73	05-May-09	13.77	31.42	5100	11.9	7.26	730	1700	4180	0.08
5-03	19-Jan-09	21.10	41.44	4390	13.1	9.05	500	1850	3680	0.09
5-03	05-May-09	21.56	41.44	4310	13.3	7.33	470	1700	3540	0.04
5-04	12-Jan-09	18.38	64.13	4130	12.6	8.02	490	2100	3520	0.03
5-04	05-May-09	18.81	64.13	4490	13.5	7.39	530	2100	3970	0.02
5-08	12-Jan-09	37.72	87.33	4090	12.1	6.59	450	1700	3520	0.02
5-08	05-May-09	34.39	87.34	4190	12.9	6.70	470	1800	3470	0.03
31-61	19-Jan-09	11.61	27.70	1108	11.8	6.48	1800	4400	11500	3.62
31-61	11-May-09	11.47	27.70	9590	12.8	6.34	2080	4800	11800	16.7
31-65	19-Jan-09	14.82	45.95	8940	11.7	6.93	1430	3500	9010	0.02
31-65	11-May-09	14.74	45.95	8230	13.4	6.75	1440	3900	9580	1.44
32-59	19-Jan-09	15.21	27.90	4830	13.5	7.31	590	1910	4160	-0.02
32-59	05-May-09	15.66	27.90	4890	12.5	7.28	560	1900	4150	-0.02
MW-24	12-Jan-09		50.11							
MW-24	12-May-09		50.11							
<b>ACL</b>							<b>7110</b>	<b>12000</b>	<b>26100</b>	<b>351</b>

A negative sign corresponds to "less than"  
Monitor Well MW-24 was dry or contained insufficient water for sample collection

RIO ALGOM MINING LLC  
1ST HALF 2009  
ALLUVIAL WELL RESULTS - ACL PARAMETERS

Well	Date	Mo (mg/L)	Ni (mg/L)	Se (mg/L)	U-nat (mg/L)	Th-230 (pCi/L)	Pb-210 (pCi/L)	Ra-226+Ra-228 (pCi/L)	Gross Alpha (pCi/L)
5-73	12-Jan-09	-0.003	0.019	-0.005	0.079	-0.04	14	2.57	38
5-73	05-May-09	-0.003	0.018	-0.001	0.0894	0.2	1.3	1.27	44
5-03	19-Jan-09	-0.001	0.006	-0.001	0.0018	-0.16	9.5	2.05	4.8
5-03	05-May-09	-0.001	0.008	-0.001	0.0019	0.19	3.9	2.93	7.2
5-04	12-Jan-09	0.003	0.007	-0.001	0.001	0.8	14	2.81	0.11
5-04	05-May-09	0.001	0.006	-0.001	0.0015	-0.11	5.1	1.26	1.6
5-08	12-Jan-09	0.006	0.011	-0.001	0.0014	-0.15	10	5.2	15
5-08	05-May-09	0.002	0.01	-0.001	0.015	0.05	4.7	13.3	36
31-61	19-Jan-09	-0.005	0.046	0.002	0.462	-0.06	18	2.34	150
31-61	11-May-09	-0.005	0.049	0.003	0.417	-0.38	0	2.39	110
31-65	19-Jan-09	-0.003	0.011	-0.001	0.151	-0.04	15	3.47	60
31-65	11-May-09	0.011	0.024	0.001	0.132				
32-59	19-Jan-09	0.007	0.011	-0.001	0.15	-0.51	1.8	0.99	47
32-59	05-May-09	0.005	0.014	-0.001	0.16	0.05	6.3	0.53	44
MW-24	12-Jan-09								
MW-24	12-May-09								
<b>ACL</b>		<b>176</b>	<b>98</b>	<b>49</b>	<b>23</b>	<b>13627</b>	<b>1274</b>	<b>3167</b>	<b>8402</b>

A negative sign corresponds to "less than"  
Monitor Well MW-24 was dry or contained insufficient water for sample collection