

Rio Algom Mining LLC

July 12, 2012

Certified Mail (7010 1870 0000 3702 9542)

Mr. Jerry Schoeppner
Groundwater Quality Section
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

Re: **Discharge Permit – 71 (DP-71)**
Semi-Annual Report for 2nd Quarter 2012

Dear Mr. Schoeppner,

Attached is the 2012 Semi-Annual Report summarizing activities and groundwater monitoring for Rio Algom Mining L.L.C. (RAML), Section 4 lined evaporation ponds located at the Ambrosia Lake mill facility.

Also enclosed (NMED copy only) is a CD Copy of the Excel Summary Spreadsheet in PDF format for the 2nd quarter groundwater monitoring report, Section 4 lined evaporation ponds. This CD Copy meets the requirements of Condition 15B of DP-71.

If you have any questions or need additional information, please call me at 505-287-8851, ext 15.; or email me at chuck.wentz@bhpbilliton.com.

Sincerely,



Chuck Wentz
Environmental Department Supervisor
Radiation Safety Officer

Attachments: As stated

cc: NRC (Mr. Tom McLaughlin)
NRC (document control)
D. Murray

RIO ALGOM MINING LLC – AMBROSIA LAKE FACILITY

DP – 71

SEMI-ANNUAL REPORT 2ND QUARTER 2012

This report presents the activities and results of the monitoring and sampling requirements associated with DP-71 for the 2nd quarter of 2012. DP-71 permit renewal was approved on December 1, 2003 and monitoring requirements were expanded from previous monitoring commitments listed in the permit. This expansion has resulted in acquiring data that was not obtained in past monitoring programs. In 2012, RAML submitted an updated application for permit renewal to New Mexico Environment Department, which is currently under review.

Section 15A:

Activities that included the remediation of the Section 4 evaporation ponds were conducted from 2005 through 2009. There were no operations or soil removal activities conducted at Section 4 during the 2nd quarter of 2012.

All wells associated with the permit were dry or contained insufficient water for sample collection with the exception of MW-32. Water was detected in MW-22 and MW-23, but samples were un-attainable due to insufficient depth of the water column.

Exhibit 1 presents the time versus concentration plots and hydrographs for MW-22, MW-26, and MW-32. Because of the deficiency of alluvial water in the Section 4 pond area, development of a potentiometric map for the alluvium is not practical.

A trace of snow occurred on April 14th, hail and a trace of rain took place on May 7th & 8th, and no precipitation was observed during the month of June.

Section 15B:

Exhibit 2 presents a table titled Section 4 Monitoring Wells, Analytical Results and Water Level Measurements for this reporting period. Exhibit 3 provides a table titled Section 4 Active Monitoring Wells, Analytical Results and Water Level Measurements for a cumulative period since 2005.

Section 15C:

Exhibit 4 provides a copy of the signed laboratory analyses for this reporting period.

Section 15D:

Exhibit 1 presents the time versus concentration plots and hydrographs for MW-22, MW-26, and MW-32 since approximately 1995.

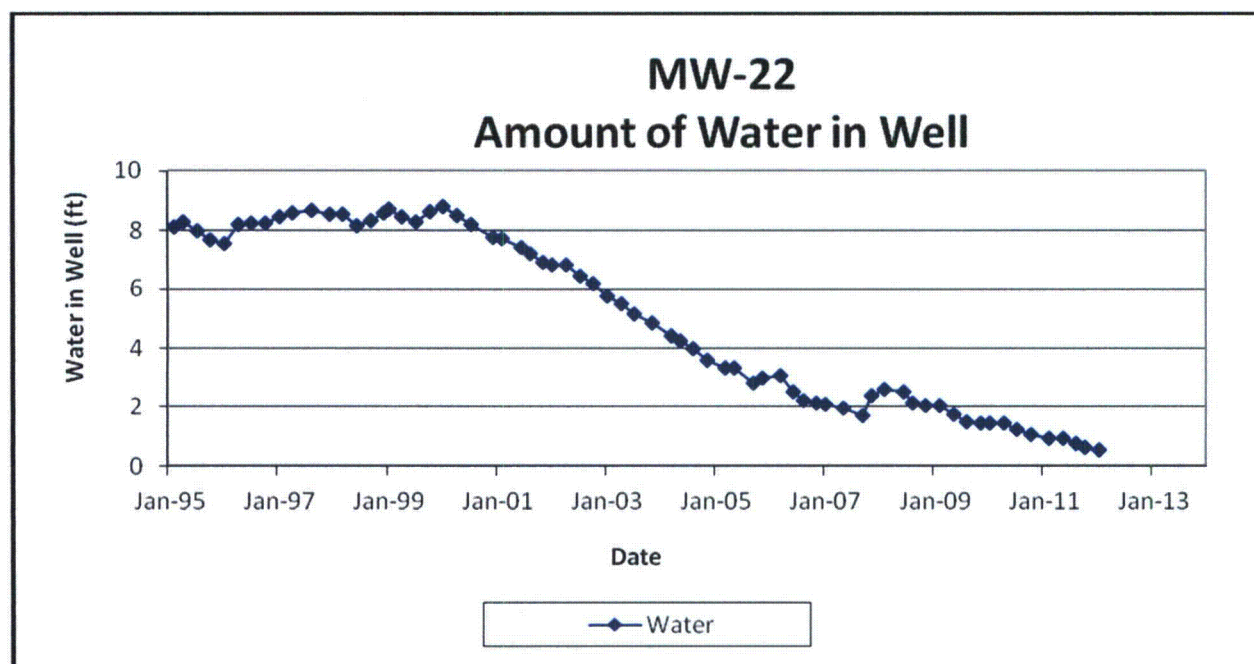
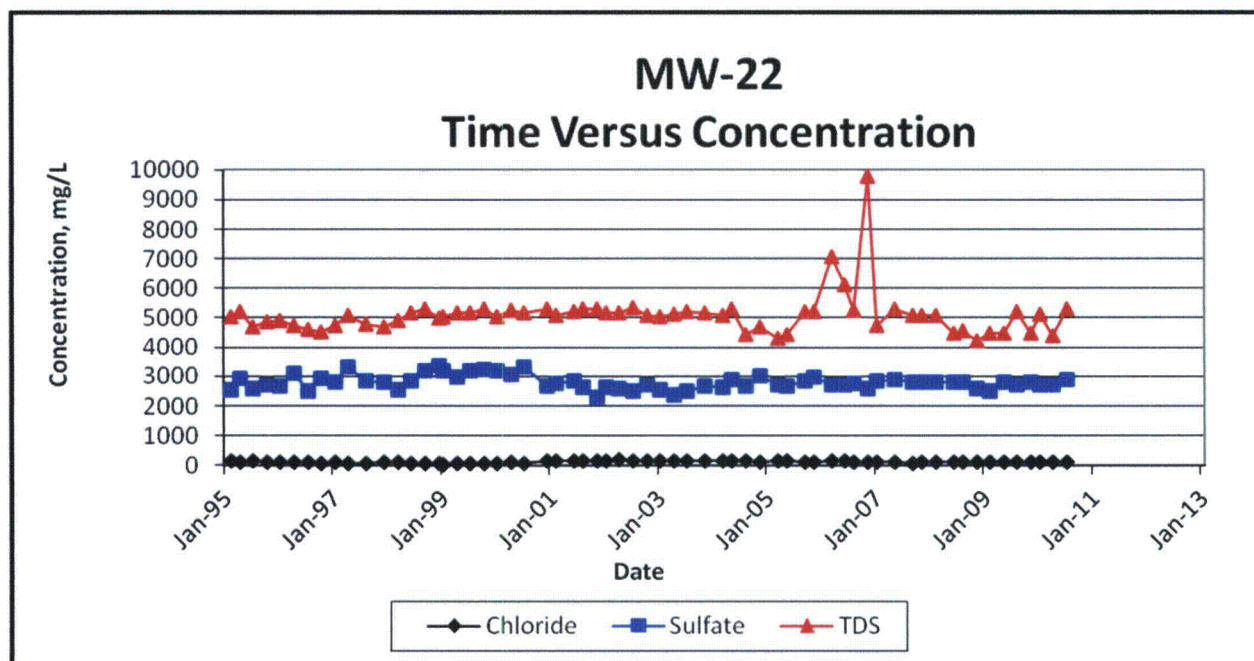
Section 15E:

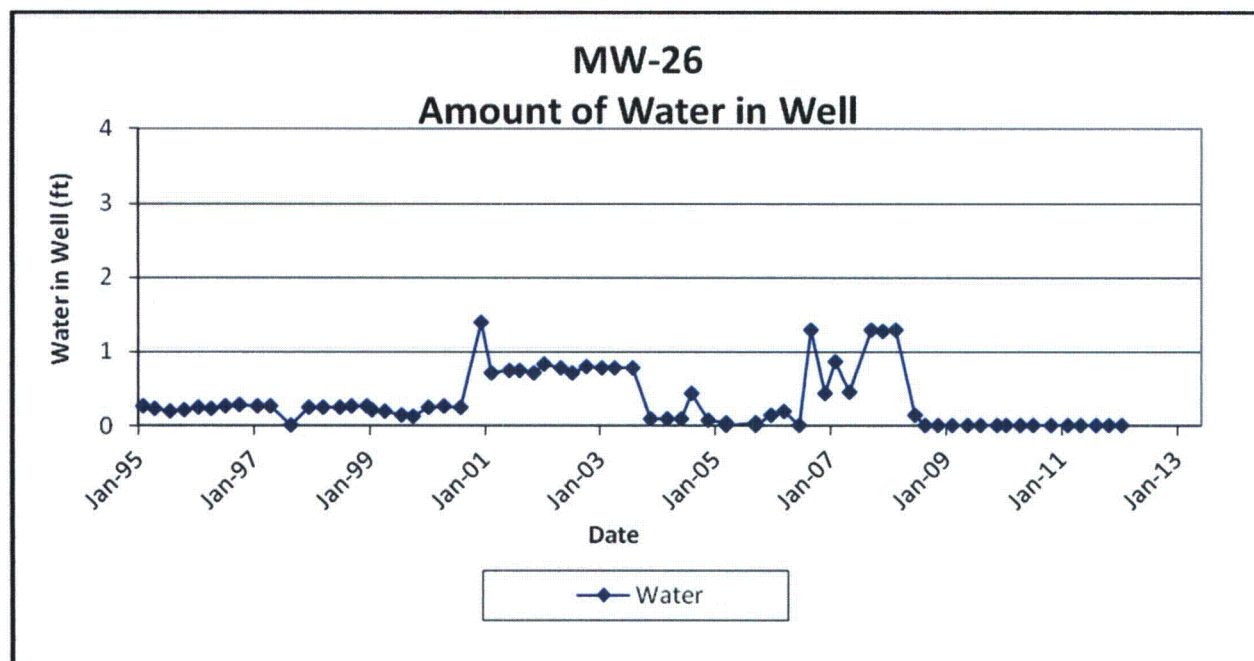
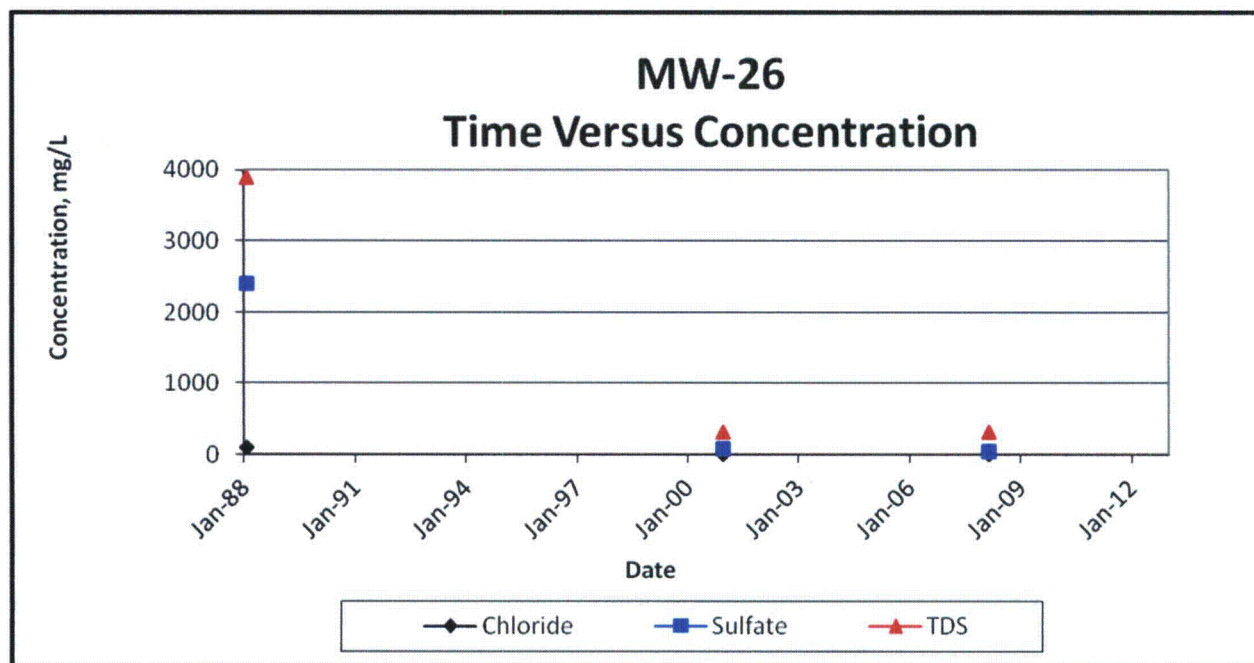
Because of insufficient alluvial water in the Section 4 pond area and since many of the monitoring wells are dry, the development of a potentiometric map for the alluvium was not undertaken.

Exhibit 1

DP-71 Time vs. Concentration Plots and Hydrographs

MW-22, MW-26, and MW-32





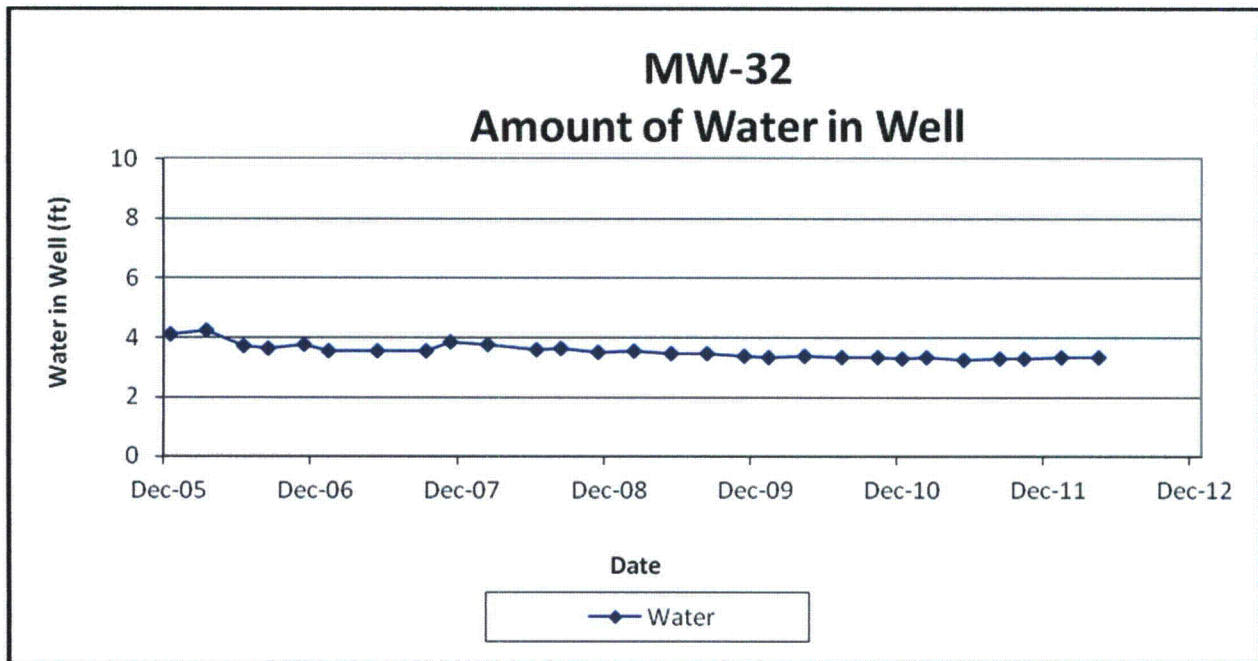
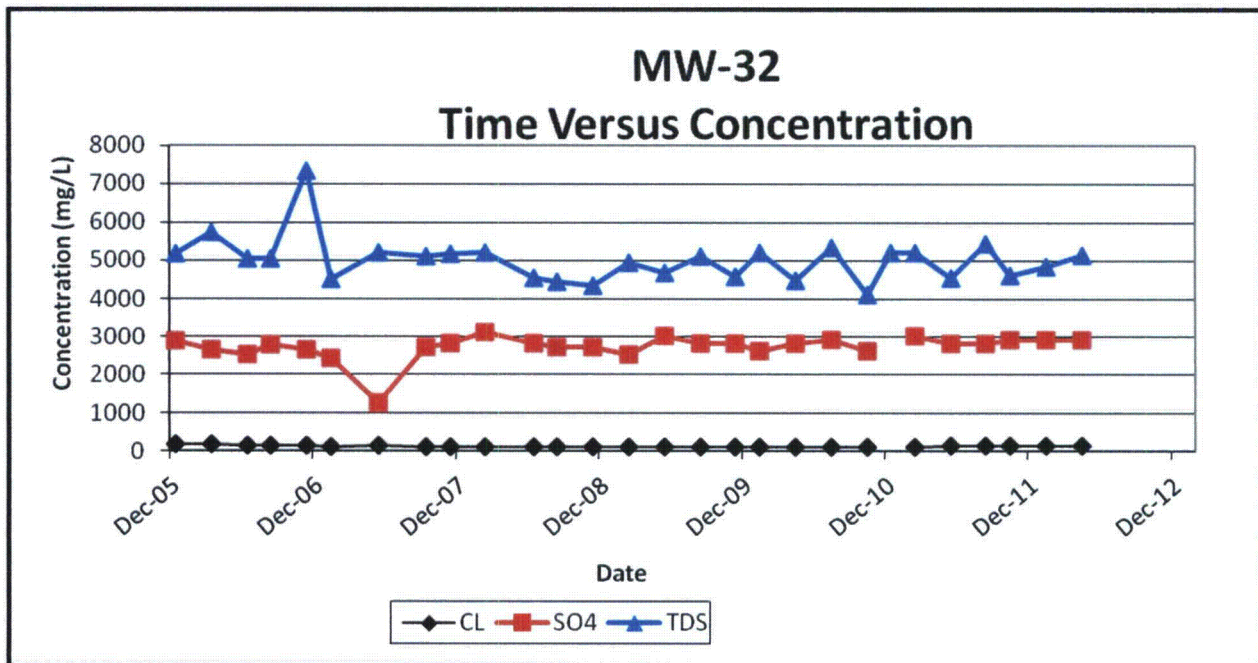


Exhibit 2

Section 4 Monitoring Wells, Analytical Results & Water Level Measurements

RIO ALGOM MINING LLC

DISCHARGE PERMIT - 71

MONITORING RESULTS - SEMI-ANNUAL REPORT 2012 - (2ND QUARTER)

Date	Location	Depth to Water (ft)	Total Depth (ft)	Water Level (ft)	Well Status	pH (s.u.)	Spec. Cond. (uS)	Temp. (C)	Al (mg/L)	As (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Mg (mg/L)	Mn (mg/L)
4/10/2012	MW-12		12.92	0	NS														
4/10/2012	MW-13		29.27	0	NS														
4/10/2012	MW-22	36.49	37.00	0.51	NS														
4/10/2012	MW-23		35.23	0	NS														
4/10/2012	MW-24		50.14	0	NS														
4/10/2012	MW-25		29.61	0	NS														
4/10/2012	MW-26		35.23	0	NS														
4/10/2012	MW-27		27.90	0	NS														
4/10/2012	MW-28		32.50	0	NS														
4/10/2012	MW-29		29.31	0	NS														
4/10/2012	MW-30		41.03	0	NS														
4/10/2012	MW-31		50.52	0	NS														
4/10/2012	MW-32	68.27	71.62	3.35		7.15	4310	14.1	<0.2	<0.003	<0.03	537	<0.05	<0.05	<0.05	<0.1	<0.0005	364	0.07
4/10/2012	MW-33		59.31	0	NS														

MONITORING RESULTS - SEMI-ANNUAL REPORT 2012 - (Continued)

Date	Location	Mo (mg/L)	Ni (mg/L)	K (mg/L)	Se (mg/L)	Ag (mg/L)	Na (mg/L)	U (mg/L)	Zn (mg/L)	Ra-226 (pCi/L)	Ra-228 (pCi/L)	HCO3 (mg/L)	CO3 (mg/L)	Cl (mg/L)	F (mg/L)	NO3 (N) (mg/L)	TKN (mg/L)	SO4 (mg/L)	TDS (mg/L)
4/10/2012	MW-12																		
4/10/2012	MW-13																		
4/10/2012	MW-22																		
4/10/2012	MW-23																		
4/10/2012	MW-24																		
4/10/2012	MW-25																		
4/10/2012	MW-26																		
4/10/2012	MW-27																		
4/10/2012	MW-28																		
4/10/2012	MW-29																		
4/10/2012	MW-30																		
4/10/2012	MW-31																		
4/10/2012	MW-32	<0.03	<0.05	6	0.3786	<0.05	455	0.1007	<0.05	0.37	0.83	269	<2	140	1.0	62.8	0.2	2900	5130
4/10/2012	MW-33																		

Notes:

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

Monitoring Wells MW-1 through MW-11, MW-14 through MW-21 were plugged during the Section 4 reclamation project

< Indicates "U" qualifier, analyte concentration not detected above MDL

Exhibit 3

Section 4 Active Monitoring Wells Cumulative Analytical Results & Water Level Measurements

Monitoring Well-22 Analytical Data

Monitoring Well	Date	Well Status	Depth to Water	Total Depth	Water in Well	Sp. Cond.	Temp. (C)	pH	Ca (mg/L)	Cl (mg/L)	F (mg/L)	NO ₃ (N) (mg/L)	SO ₄ (mg/L)	TDS (mg/L)	HCO ₃ (mg/L)	CO ₃ (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)
MW-22	15-Nov-05		34	36.99	2.99	6110	11.5	7.73	480	130	0.4	106	2950	5200	209	< 2	257	656	8
MW-22	07-Mar-06		33.94	37	3.06	5850	13.1	7.13		146		23.5	2700	7090					
MW-22	06-Jun-06		34.22	36.75	2.53	5910	15.9	7.01	558	151		1.2	2730	6140	947	<2	274	673	9
MW-22	29-Aug-06		34.60	36.80	2.2	5640	14.7	6.53		124		18	2760	5240					
MW-22	27-Nov-06		34.61	36.75	2.14	5650	10.6	6.32	439	110	0.5	0.49	2590	9790	718	<2	216	558	8
MW-22	29-Jan-07		34.71	36.79	2.08	5800	10.9	6.53	540	105	0.8	26.4	2850	4740	485		264	660	9.1
MW-22	01-May-07		34.79	36.76	1.97	5750	15.5	6.98	553	110	0.6	6.6	2880	5300	671	< 2	278	670	8
MW-22	10-Sep-07		35.10	36.80	1.7	5480	14.1	7.62		95		0.09	2800	5070					
MW-22	26-Nov-07		34.46	36.83	2.37	5480	10.1	7.9	498	99		0.78	2810	5080	581	< 2	268	655	7
MW-22	18-Feb-08		34.19	36.78	2.59	5960	11.1	7.36	475	109	0.5	27.5	2800	5090	370	23	268	670	8.1
MW-22	17-Jun-08		34.3	36.8	2.5	5620	15.2	7.36	465	110	0.5	67	2800	4490	242	< 2	249	705	10
MW-22	18-Aug-08		34.65	36.78	2.13	5870	15.2	7.14	531	110	0.6	52.2	2800	4570	248	< 2	294	681	6
MW-22	10-Nov-08		34.66	36.72	2.06	5530	12.7	7.2	464	110	0.6	34.8	2600	4230	236	< 2	255	655	6
MW-22	09-Feb-09		34.74	36.80	2.06	5400	12.7	7.16		120		50.7	2500	4490					
MW-22	18-May-09		35.04	36.8	1.76	5110	17.2	7.35	485	120	0.6	46.6	2800	4490	230	8	259	677	5
MW-22	08-Aug-09		35.35	36.82	1.47	5720	14.9	7.26		130		31.8	2700	5210					
MW-22	16-Nov-09		35.40	36.84	1.44	5250	11.5	7.16	554	130	0.6	17.1	2800	4500	251		381	475	7
MW-22	12-Jan-10		35.39	36.85	1.46	5130	12.4	7.23		140		14.4	2700	5120					
MW-22	12-Apr-10		35.42	36.87	1.45	5190	15.5	7.27	473	140	0.7	19	2700	4380	231	<2	257	667	5
MW-22	05-Jul-10		35.68	36.89	1.21	5550	14.4	7.05		130		21.9	2900	5290					
MW-22	26-Oct-10	NS	35.85	36.89	1.04														
MW-22	08-Feb-11	NS	35.98	36.89	0.91														
MW-22	02-May-11	NS	36.05	36.98	0.93														
MW-22	09-Aug-11	NS	36.21	36.98	0.77														
MW-22	31-Oct-11	NS	36.37	36.98	0.61														
MW-22	17-Jan-12	NS	36.43	36.98	0.55														
MW-22	10-Apr-12	NS	36.49	37.00	0.51														

Monitoring Well	Date	Al (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	As (mg/L)	Se (mg/L)	U (mg/L)	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 (pCi/L)	Ra-228 (pCi/L)
MW-22	15-Nov-05	0.2	< 0.08	< 0.05	< 0.05	< 0.05	< 0.003	0.483	0.0392	< 0.1	< 0.003	0.04	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	1.32	1.32
MW-22	07-Mar-06						<0.0011	0.718	0.0211										
MW-22	06-Jun-06	2.4	<0.03	<0.05	0.06	<0.05	0.003	0.133	0.0617	24	<0.0002	136	<0.05	<0.05	7.4	<0.05	0.08	13.6	13.6
MW-22	29-Aug-06						0.011	0.135	0.0276										
MW-22	27-Nov-06	<0.2	<0.03	<0.05	0.06	<0.05	0.0091	0.00548	0.0141	17.8	0.0003	31.4	<0.05	<0.05	4.8	<0.05	<0.05	9.9	9.9
MW-22	29-Jan-07	< 0.03	< 0.005	< 0.01	0.02	< 0.01	0.0075	0.104	0.0302	3.55	< 0.0001	17.1	< 0.01	< 0.01	9.4	< 0.01	< 0.01		
MW-22	01-May-07	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.01	0.0304	0.0327	5.6	< 0.0005	17.3	< 0.05	< 0.05	6.6	< 0.05	< 0.05	1.7	3.5
MW-22	10-Sep-07						0.0206	0.0247	0.0413										
MW-22	26-Nov-07	< 2	< 0.03	< 0.05	< 0.05	< 0.05	0.0056	0.0427	0.0454	0.8	0.0001	5.52	< 0.05	< 0.05	2.8	0.15	< 0.05	1.1	2.4
MW-22	18-Feb-08	0.04	< 0.0005	0.04	< 0.01	< 0.01	0.009	0.129	0.037	0.05	< 0.0005	1.64	< 0.01	< 0.05	1	< 0.01	0.02		
MW-22	17-Jun-08	0.4	<0.03	< 0.05	< 0.05	< 0.05	0.011	0.309	0.0263	0.1	< 0.0005	0.42	< 0.05	< 0.05	0.3	< 0.05	< 0.05	1.75	1.75
MW-22	18-Aug-08	< 0.2	< 0.03	< 0.05	< 0.05	0.45	0.017	0.251	0.0405	< 0.1	< 0.0005	0.04	< 0.05	< 0.05	< 0.1	< 0.05	< 0.05		
MW-22	10-Nov-08	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.006	0.212	0.0276	< 0.1	< 0.0005	< 0.03	0.08	< 0.05	0.2	0.05	< 0.05	0.14	0.8
MW-22	09-Feb-09						0.0107	0.288	0.0321										
MW-22	18-May-09	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.009	0.264	0.0255	< 0.1	0.0011	0.39	< 0.05	0.13	0.3	< 0.05	< 0.05	0.21	1.4
MW-22	08-Aug-09						0.005	0.175	0.0571										
MW-22	16-Nov-09	<0.2	<0.03	< 0.05	< 0.05	< 0.05	0.004	0.119	0.0326	<0.1	<0.0005	0.49	< 0.05	< 0.05	1.9	<0.05	0.10	0.42	0.47
MW-22	12-Jan-10						0.004	0.105	0.0387										
MW-22	12-Apr-10	<0.2	<0.03	< 0.05	0.05	< 0.05	0.008	0.1300	0.0358	0.3	<0.0005	0.84	< 0.05	< 0.05	1.2	< 0.05	< 0.05	0.42	0.3
MW-22	05-Jul-10						0.006	0.1350	0.0309										
MW-22	26-Oct-10																		
MW-22	08-Feb-11																		
MW-22	02-May-11																		
MW-22	09-Aug-11																		
MW-22	31-Oct-11																		
MW-22	17-Jan-12																		
MW-22	10-Apr-12																		

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

Monitoring Well-26 Analytical Data

Monitoring Well	Date	Well Status	Depth to Water	Total Depth	Water in Well	Sp. Cond.	Temp. (C)	pH	Ca (mg/L)	Cl (mg/L)	F (mg/L)	NO ₃ (N) (mg/L)	SO ₄ (mg/L)	TDS (mg/L)	HCO ₃ (mg/L)	CO ₃ (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)
MW-26	08-Mar-05		35.25	35.3	0.05														
MW-26	08-Mar-05			50.97	0														
MW-26	09-Sep-05		35.4	35.45	0.05														
MW-26	09-Sep-05			58.96	0														
MW-26	20-Dec-05	NS	35.28	35.43	0.15														
MW-26	07-Mar-06	NS	35.38	35.57	0.19														
MW-26	13-Jun-06	NS		35.21	0														
MW-26	29-Aug-06		33.95	35.25	1.3														
MW-26	27-Nov-06	NS	34.81	35.25	0.44														
MW-26	26-Jan-07	NS	34.79	35.65	0.86														
MW-26	01-May-07	NS	34.81	35.27	0.46														
MW-26	10-Sep-07	NS	33.96	35.26	1.3														
MW-26	26-Nov-07	NS	33.93	35.21	1.28														
MW-26	18-Feb-08		33.94	35.24	1.3	5980	11.6	7.72	63.9	6	0.5	1.61	45	320	229	7	11.3	38.5	7.2
MW-26	17-Jun-08		35.11	35.26	0.15														
MW-26	18-Aug-08	NS		35.24	0														
MW-26	10-Nov-08	NS		35.14	0														
MW-26	09-Feb-09	NS		35.23	0														
MW-26	18-May-09	NS		35.23	0														
MW-26	08-Aug-09	NS		35.23	0														
MW-26	17-Nov-09	NS		35.25	0														
MW-26	12-Jan-10	NS		35.25	0														
MW-26	12-Apr-10	NS		35.5	0														
MW-26	05-Jul-10	NS		35.25	0														
MW-26	26-Oct-10	NS		35.26	0														
MW-26	08-Feb-11	NS		35.26	0														
MW-26	02-May-11	NS		35.23	0														
MW-26	09-Aug-11	NS		35.21	0														
MW-26	31-Oct-11	NS		35.23	0														
MW-26	16-Jan-12	NS		35.23	0														
MW-26	10-Apr-12	NS		35.23	0														

Monitoring Well	Date	Al (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	As (mg/L)	Se (mg/L)	U (mg/L)	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 (pCi/L)	Ra-228 (pCi/L)
MW-26	08-Mar-05																		
MW-26	08-Mar-05																		
MW-26	09-Sep-05																		
MW-26	09-Sep-05																		
MW-26	20-Dec-05																		
MW-26	07-Mar-06																		
MW-26	13-Jun-06																		
MW-26	29-Aug-06																		
MW-26	27-Nov-06																		
MW-26	26-Jan-07																		
MW-26	01-May-07																		
MW-26	10-Sep-07																		
MW-26	26-Nov-07																		
MW-26	18-Feb-08	< 0.03	< 0.005	< 0.01	< 0.01	< 0.01	0.0025	0.0026	0.0833	1.07	0.0019	0.688	0.06	< 0.01	2	0.01	< 0.01		
MW-26	17-Jun-08																		
MW-26	18-Aug-08																		
MW-26	10-Nov-08																		
MW-26	09-Feb-09																		
MW-26	18-May-09																		
MW-26	08-Aug-09																		
MW-26	17-Nov-09																		
MW-26	12-Jan-10																		
MW-26	12-Apr-10																		
MW-26	05-Jul-10																		
MW-26	26-Oct-10																		
MW-26	08-Feb-11																		
MW-26	02-May-11																		
MW-26	09-Aug-11																		
MW-26	31-Oct-11																		
MW-26	16-Jan-12																		
MW-26	10-Apr-12																		

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

Monitoring Well-32 Analytical Data

Monitoring Well	Date	Well Status	Depth to Water	Total Depth	Water in Well	Sp. Cond.	Temp. (C)	pH	Ca (mg/L)	Cl (mg/L)	F (mg/L)	NO ₃ (N) (mg/L)	SO ₄ (mg/L)	TDS (mg/L)	HCO ₃ (mg/L)	CO ₃ (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)
MW-32	20-Dec-05		67.97	72.10	4.13	6010	12	7.54	547	179	1	91	2890	5190	353	< 2	324	486	9
MW-32	07-Mar-06		67.56	71.8	4.24	5620	13.5	6.91		183		0.74	2650	5740					
MW-32	12-Jun-06		67.92	71.63	3.71	5470	14	7.3	537	160	1	1.98	2500	5030	939	<2	333	487	7
MW-32	29-Aug-06		67.98	71.63	3.65	5290	15	6.89		149		9.7	2780	5040					
MW-32	27-Nov-06		68.00	71.75	3.75	5070	12.7	6.34	525	130	0.9	2.01	2630	7340	805	<2	336	476	7
MW-32	29-Jan-07		68.05	71.62	3.57	5340	11.3	6.51	566	126	1.2	1.44	2420	4500	881		363	485	7.3
MW-32	01-May-07		68.07	71.64	3.57	5400	13.5	7.21	579	130	0.8	6.6	1250	5200	1060	< 2	359	499	7
MW-32	10-Sep-07		68.08	71.65	3.57	5510	15.2	7.28		124		2.1	2700	5120					
MW-32	26-Nov-07		67.86	71.72	3.86	5310	11.9	7.34	579	117		16.9	2810	5180	743	< 2	366	515	8
MW-32	18-Feb-08		67.91	71.69	3.78	5870	11.9	7.6	510	115	0.9	22.3	3100	5210	625	14	341	447	7.3
MW-32	17-Jun-08		68.01	71.61	3.6	5280	14.5	7.2	518	110	1	49.5	2800	4530	400	< 2	348	502	11
MW-32	26-Aug-08		68.01	71.66	3.65	5380	15.9	7.12	584	110	1	43.3	2700	4450	370	< 2	343	485	6
MW-32	10-Nov-08		67.96	71.49	3.53	5210	12.3	7.1	521	110	0.9	37	2700	4350	356	< 2	344	452	6
MW-32	09-Feb-09		68.05	71.60	3.55	5270	12.1	7.08		120		48	2500	4940					
MW-32	18-May-09		68.15	71.6	3.45	5160	14.8	7.19	525	120	0.9	37.2	3000	4680	339	10	352	480	5
MW-32	08-Aug-09		68.16	71.61	3.45	5710	15.3	7.01		120		53.9	2800	5100					
MW-32	16-Nov-09		68.23	71.62	3.39	5150	12.9	7.13	483	110	0.9	50.7	2800	4570	355	<2	270	687	6
MW-32	12-Jan-10		68.26	71.61	3.35	5080	13.0	7.21		120		46.6	2600	5220					
MW-32	12-Apr-10		68.25	71.62	3.37	5250	14.7	7.29	542	120	1.0	60	2800	4470	306	<2	365	455	6
MW-32	05-Jul-10		68.28	71.62	3.34	5380	15.8	7.03		120		69.4	2900	5330					
MW-32	26-Oct-10		68.26	71.62	3.36	4810	13.3	7.13	543	120	1.0	55	2600	4100			364	464	6
MW-32	27-Dec-10		68.31	71.61	3.30	4540	11.9	7.18						5200	268	<2			
MW-32	08-Feb-11		68.27	71.62	3.35	3470	12.2	7.25		120		63	3000	5200					
MW-32	02-May-11		68.36	71.63	3.27	1732	14.2	7.05	583	130	1.0	57	2800	4560	271	<2	399	474	7
MW-32	09-Aug-11		68.32	71.63	3.31	5330	14.5	7.09		151		59.4	2800	5450					
MW-32	31-Oct-11		68.31	71.61	3.30	4590	13.5	7.06	558	130	1.0	56	2900	4610	271	<2	403	445	6
MW-32	16-Jan-12		68.26	71.61	3.35	4160	12.4	7.19		140		57.4	2900	4860					
MW-32	10-Apr-12		68.27	71.62	3.35	4310	14.1	7.15	537	140	1.0	62.8	2900	5130	269	<2	364	455	6

Monitoring Well	Date	Al (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	As (mg/L)	Se (mg/L)	U (mg/L)	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 (pCi/L)	Ra-228 (pCi/L)
MW-32	20-Dec-05	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	< 0.003	0.357	0.0693	< 0.1	0.0009	0.61	< 0.05	< 0.05	1.3	< 0.05	< 0.05	0.13	0.13
MW-32	07-Mar-06						0.0078	0.035	0.0667										
MW-32	12-Jun-06	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.022	0.0175	0.0604	0.1	< 0.0002	1.76	< 0.05	< 0.05	6.3	< 0.05	< 0.05	1.2	1.2
MW-32	29-Aug-06						0.005	0.0287	0.0912										
MW-32	27-Nov-06	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.0139	0.0196	0.0592	2.8	0.0001	1.41	< 0.05	< 0.05	2.3	< 0.05	< 0.05	2.5	2.5
MW-32	29-Jan-07	< 0.03	< 0.005	< 0.01	< 0.01	< 0.01	0.0152	0.0258	0.0404	0.89	< 0.0001	1.8	< 0.01	0.03	2.5	< 0.01	< 0.01		
MW-32	01-May-07	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.021	0.0218	0.0604	0.7	< 0.0005	1.62	0.06	< 0.05	6.6	< 0.05	< 0.05	0.33	1.6
MW-32	10-Sep-07						0.0129	0.0191	0.0736										
MW-32	26-Nov-07	< 2	< 0.03	< 0.05	< 0.05	< 0.05	0.004	0.0256	0.0326	0.3	< 0.0005	1.07	< 0.05	< 0.05	6.9	0.08	0.19	0.38	3.7
MW-32	18-Feb-08	0.04	< 0.005	0.04	< 0.01	< 0.01	0.014	0.0753	0.0842	0.28	< 0.0005	0.815	< 0.02	< 0.05	2.9	< 0.02	< 0.01		
MW-32	17-Jun-08	0.5	< 0.03	< 0.05	< 0.05	< 0.05	0.009	0.141	0.0646	2	< 0.0005	0.81	0.06	< 0.05	0.3	< 0.05	< 0.05	3.25	3.25
MW-32	26-Aug-08	< 2	< 0.03		< 0.05	< 0.05	0.018	0.16	0.137	< 0.1	< 0.0005	0.63	< 0.05	< 0.05	< 0.1	0.11	< 0.05		
MW-32	10-Nov-08	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.004	0.164	0.0655	< 0.1	< 0.0005	0.48	0.07	< 0.05	0.1	< 0.05	0.06	0.3	0.38
MW-32	09-Feb-09						0.0084	0.188	0.0691										
MW-32	18-May-09	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.007	0.148	0.0592	< 0.1	0.0009	0.43	< 0.05	< 0.05	0.3	< 0.05	< 0.05	0.29	1.8
MW-32	08-Aug-09						0.005	0.174	0.0641										
MW-32	16-Nov-09	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.009	0.178	0.0744	< 0.1	< 0.0005	0.94	< 0.05	< 0.05	0.1	0.1	< 0.05	0.57	0.73
MW-32	12-Jan-10						0.008	0.243	0.0738										
MW-32	12-Apr-10	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.012	0.225	0.0710	< 0.1	0.0005	0.51	< 0.05	< 0.05	0.4	< 0.05	< 0.05	0.26	0.62
MW-32	05-Jul-10						0.007	0.336	0.0556										
MW-32	26-Oct-10	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	0.011	0.2356	0.0620	< 0.1	0.0018	0.50	< 0.05	< 0.05	0.5	< 0.05	< 0.05	0.34	1.2
MW-32	27-Dec-10																		
MW-32	08-Feb-11						0.014	0.3775	0.0634										
MW-32	02-May-11	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	0.3463	0.0674	< 0.1	< 0.0005	0.1	0.07	0.06	0.1	< 0.05	< 0.05	0.25	0.5
MW-32	09-Aug-11						0.013	0.3533	0.0583										
MW-32	31-Oct-11	< 0.2	< 0.005	< 0.01	< 0.01	< 0.02	< 0.003	0.3562	0.0627	< 0.02	0.0006	0.047	< 0.01	< 0.05	0.1	< 0.01	< 0.01	4.2	< 0.15
MW-32	16-Jan-12						< 0.003	0.4151	0.0628										
MW-32	10-Apr-12	< 0.2	< 0.03	< 0.05	< 0.05	< 0.05	< 0.003	0.3786	0.1007	< 0.1	< 0.0005	0.07	< 0.05	< 0.05	0.2	< 0.05	< 0.05	0.37	0.83

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

Exhibit 4

DP-71 Analytical Report

May 16, 2012

Report to:
Chuck Wentz
Rio Algom Mining Company
P.O. Box 218
Grants, NM 87020

Bill to:
Accounts Payable
Rio Algom Mining Company
P.O. Box 218
Grants, NM 87020

Project ID: 58381/6300056598
ACZ Project ID: L94054

Chuck Wentz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 13, 2012. This project has been assigned to ACZ's project number, L94054. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L94054. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 16, 2012. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



REPAD.01.06.05.02



Rio Algom Mining Company

May 16, 2012

Project ID: 58381/6300056598

ACZ Project ID: L94054

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from Rio Algom Mining Company on April 13, 2012. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L94054. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. The TDS has been qualified with the N1 flag on the extended qualifier report. The chemist noted that the drying oven went out of range for 2 hours due to a power outage.

Rio Algom Mining Company

Project ID: 58381/6300056598

Sample ID: MW-32

ACZ Sample ID: **L94054-01**

Date Sampled: 04/10/12 09:40

Date Received: 04/13/12

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor							04/27/12 12:15	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.2	0.8	04/24/12 19:47	jjc
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.003	0.01	04/27/12 6:29	pmc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.03	0.08	04/24/12 19:47	jjc
Calcium, dissolved	M200.7 ICP	537			mg/L	1	5	04/24/12 19:47	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc
Iron, dissolved	M200.7 ICP		U		mg/L	0.1	0.3	04/24/12 19:47	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	04/27/12 6:29	pmc
Magnesium, dissolved	M200.7 ICP	364			mg/L	1	5	04/24/12 19:47	jjc
Manganese, dissolved	M200.7 ICP	0.07	B		mg/L	0.03	0.1	04/24/12 19:47	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc
Potassium, dissolved	M200.7 ICP	6	B		mg/L	2	8	04/24/12 19:47	jjc
Selenium, dissolved	M200.8 ICP-MS	0.3786			mg/L	0.0005	0.001	04/27/12 6:29	pmc
Silver, dissolved	M200.7 ICP		U	*	mg/L	0.05	0.1	04/24/12 19:47	jjc
Sodium, dissolved	M200.7 ICP	455			mg/L	2	8	04/24/12 19:47	jjc
Uranium, dissolved	M200.8 ICP-MS	0.1007			mg/L	0.0005	0.003	04/27/12 6:29	pmc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.05	0.3	04/24/12 19:47	jjc

Rio Algom Mining Company

Project ID: 58381/6300056598

Sample ID: MW-32

ACZ Sample ID: **L94054-01**

Date Sampled: 04/10/12 09:40

Date Received: 04/13/12

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		269			mg/L	2	20	04/17/12 0:00	mia
Carbonate as CaCO ₃			U		mg/L	2	20	04/17/12 0:00	mia
Hydroxide as CaCO ₃			U		mg/L	2	20	04/17/12 0:00	mia
Total Alkalinity		269			mg/L	2	20	04/17/12 0:00	mia
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.5			%			05/11/12 0:00	calc
Sum of Anions		70.3			meq/L	0.1	0.5	05/11/12 0:00	calc
Sum of Cations		76.9			meq/L	0.1	0.5	05/11/12 0:00	calc
Chloride	SM4500Cl-E	140			mg/L	10	50	04/25/12 14:13	lhb
Fluoride	SM4500F-C	1.0		*	mg/L	0.1	0.5	04/24/12 15:44	las
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	62.8			mg/L	0.5	3	04/28/12 1:08	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.2	B	*	mg/L	0.1	0.5	04/28/12 15:31	pjb
Residue, Filterable (TDS) @180C	SM2540C	5130		*	mg/L	10	20	04/14/12 12:26	las
Sulfate	D516-02 - Turbidimetric	2900		*	mg/L	100	600	04/27/12 8:48	ccp
TDS (calculated)	Calculation	4560			mg/L	10	50	05/11/12 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.13						05/11/12 0:00	calc

**Report Header Explanations**

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit, typically 5 times the MDL.
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (5) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1996).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extqualist.pdf>

Rio Algom Mining Company
Project ID: 58381/6300056598

ACZ Project ID: L94054

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321229													
WG321229PBW1	PBW	04/17/12 17:54				U	mg/L		-20	20			
WG321229LCSW2	LCSW	04/17/12 18:07	WC120327-7	820.0001		784.3	mg/L	95.6	90	110			
L94062-05DUP	DUP	04/17/12 19:14			250	252.8	mg/L				1.1	20	
WG321229PBW2	PBW	04/17/12 20:33				U	mg/L		-20	20			
WG321229LCSW5	LCSW	04/17/12 20:47	WC120327-7	820.0001		797.2	mg/L	97.2	90	110			
WG321229PBW3	PBW	04/17/12 23:48				U	mg/L		-20	20			
WG321229LCSW8	LCSW	04/18/12 0:01	WC120327-7	820.0001		802.5	mg/L	97.9	90	110			
WG321229PBW4	PBW	04/18/12 2:50				U	mg/L		-20	20			
WG321229LCSW11	LCSW	04/18/12 3:04	WC120327-7	820.0001		807	mg/L	98.4	90	110			
WG321229LCSW14	LCSW	04/18/12 6:19	WC120327-7	820.0001		813.2	mg/L	99.2	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		2.08	mg/L	104	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.09	0.09			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	1		1.106	mg/L	110.6	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	1	U	1.128	mg/L	112.8	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	1	U	1.13	mg/L	113	85	115	0.18	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321766													
WG321766ICV	ICV	04/27/12 4:56	MS120416-2	.05		.0523	mg/L	104.6	90	110			
WG321766ICB	ICB	04/27/12 4:59				U	mg/L		-0.0015	0.0015			
WG321766LFB	LFB	04/27/12 5:02	MS120327-3	.05005		.05098	mg/L	101.9	85	115			
L94030-03AS	AS	04/27/12 6:24	MS120327-3	.05005	U	.05705	mg/L	114	70	130			
L94030-03ASD	ASD	04/27/12 6:26	MS120327-3	.05005	U	.05782	mg/L	115.5	70	130	1.34	20	

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.9685	mg/L	98.4	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.015	0.015			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.5105	mg/L	102.1	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.5045	mg/L	100.9	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.5079	mg/L	101.6	85	115	0.67	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	100		98.7	mg/L	98.7	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.6	0.6			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	67.99734		73.53	mg/L	108.1	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	67.99734	79.1	149.3	mg/L	103.2	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	67.99734	79.1	150	mg/L	104.3	85	115	0.47	20	

Rio Algom Mining Company
Project ID: 58381/6300056598

ACZ Project ID: L94054

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321663													
WG321663ICB	ICB	04/25/12 9:27				U	mg/L		-3	3			
WG321663ICV	ICV	04/25/12 9:27	WI120312-3	55.11		59.3	mg/L	107.6	90	110			
WG321663LFB1	LFB	04/25/12 14:02	WI111130-1	30.03		32.1	mg/L	106.9	90	110			
WG321663LFB2	LFB	04/25/12 14:06	WI111130-1	30.03		32	mg/L	106.6	90	110			
L94054-01AS	AS	04/25/12 14:13	10XCL	30	140	171	mg/L	103.3	90	110			
L94122-01DUP	DUP	04/25/12 14:13			1860	1855	mg/L				0.3	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.98	mg/L	99	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.511	mg/L	102.2	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.509	mg/L	101.8	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.513	mg/L	102.6	85	115	0.78	20	

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		2.001	mg/L	100.1	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.512	mg/L	102.4	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.503	mg/L	100.6	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.507	mg/L	101.4	85	115	0.79	20	

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.994	mg/L	99.7	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.514	mg/L	102.8	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.514	mg/L	102.8	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.518	mg/L	103.6	85	115	0.78	20	

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321565													
WG321565ICV	ICV	04/24/12 14:43	WC120420-1	2.002		1.91	mg/L	95.4	95	105			
WG321565ICB	ICB	04/24/12 14:50				U	mg/L		-0.3	0.3			
WG321565LFB1	LFB	04/24/12 15:01	WC120124-7	5		4.91	mg/L	98.2	90	110			
L94030-01AS	AS	04/24/12 15:16	WC120124-7	5	.7	5.05	mg/L	87	90	110			
L94030-01DUP	DUP	04/24/12 15:24			.7	.68	mg/L				2.9	20	M2 RA
WG321565LFB2	LFB	04/24/12 18:35	WC120124-7	5		4.84	mg/L	96.8	90	110			

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Iron, dissolved			M200.7 ICP										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.982	mg/L	99.1	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.06	0.06			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	1		1.036	mg/L	103.6	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	1	U	1.052	mg/L	105.2	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	1	U	1.048	mg/L	104.8	85	115	0.38	20	
Lead, dissolved			M200.8 ICP-MS										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321766													
WG321766ICV	ICV	04/27/12 4:56	MS120416-2	.05		.05109	mg/L	102.2	90	110			
WG321766ICB	ICB	04/27/12 4:59				U	mg/L		-0.0003	0.0003			
WG321766LFB	LFB	04/27/12 5:02	MS120327-3	.05005		.04955	mg/L	99	85	115			
L94030-03AS	AS	04/27/12 6:24	MS120327-3	.05005	U	.05317	mg/L	106.2	70	130			
L94030-03ASD	ASD	04/27/12 6:26	MS120327-3	.05005	U	.05406	mg/L	108	70	130	1.66	20	
Magnesium, dissolved			M200.7 ICP										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	100		101.75	mg/L	101.8	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.6	0.6			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	50.0051		53.43	mg/L	106.8	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	50.0051	41.3	94.38	mg/L	106.1	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	50.0051	41.3	94.75	mg/L	106.9	85	115	0.39	20	
Manganese, dissolved			M200.7 ICP										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.9858	mg/L	99.3	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.015	0.015			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.5122	mg/L	102.4	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	.007	.5163	mg/L	101.9	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	.007	.5183	mg/L	102.3	85	115	0.39	20	
Molybdenum, dissolved			M200.7 ICP										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		2.036	mg/L	101.8	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.532	mg/L	106.4	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	.06	.593	mg/L	106.6	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	.06	.587	mg/L	105.4	85	115	1.02	20	

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Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2.002		1.999	mg/L	99.3	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.511	mg/L	102.2	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.501	mg/L	100.2	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.5	mg/L	100	85	115	0.2	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321824													
WG321824ICV	ICV	04/27/12 21:26	W1120405-3	2.416		2.499	mg/L	103.4	90	110			
WG321824ICB	ICB	04/27/12 21:27				U	mg/L		-0.06	0.06			
WG321831													
WG321831LFB1	LFB	04/28/12 0:20	W1120211-3	2		2.033	mg/L	101.7	90	110			
L94051-01AS	AS	04/28/12 0:23	W1120211-3	2	.13	2.2	mg/L	103.5	90	110			
WG321831LFB2	LFB	04/28/12 0:55	W1120211-3	2		2.018	mg/L	100.9	90	110			
L94054-01DUP	DUP	04/28/12 1:09			62.8	62.69	mg/L				0.2	20	

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321835													
WG321835ICV	ICV	04/28/12 15:27	W1120424-1	4		3.67	mg/L	91.8	90	110			
WG321835ICB	ICB	04/28/12 15:28				U	mg/L		-0.3	0.3			
WG321787LRB	LRB	04/28/12 15:29				U	mg/L		-0.3	0.3			
WG321787LFB	LFB	04/28/12 15:30	W1120215-4	2.5		2.33	mg/L	93.2	90	110			
L94054-01LFM	LFM	04/28/12 15:32	W1120215-4	2.5	.2	2.22	mg/L	90.8	90	110			M2
L94166-01DUP	DUP	04/28/12 15:36			12.8	12.98	mg/L				1.4	20	

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	20		20.07	mg/L	100.4	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.9	0.9			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	99.97161		104.5	mg/L	104.5	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	99.97161	.8	106	mg/L	105.2	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	99.97161	.8	107.1	mg/L	106.3	85	115	1.03	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321108													
WG321108PBW	PBW	04/14/12 11:58				U	mg/L		-20	20			
WG321108LCSW	LCSW	04/14/12 11:59	PCN39018	260		248	mg/L	95.4	80	120			
L94054-01DUP	DUP	04/14/12 12:27			5130	5098	mg/L				0.6	20	

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Selenium, dissolved			M200.8 ICP-MS										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321766													
WG321766ICV	ICV	04/27/12 4:56	MS120416-2	.05		.05257	mg/L	105.1	90	110			
WG321766ICB	ICB	04/27/12 4:59				U	mg/L		-0.0003	0.0003			
WG321766LFB	LFB	04/27/12 5:02	MS120327-3	.05005		.04971	mg/L	99.3	85	115			
L94030-03AS	AS	04/27/12 6:24	MS120327-3	.05005	.0003	.0572	mg/L	113.7	70	130			
L94030-03ASD	ASD	04/27/12 6:26	MS120327-3	.05005	.0003	.05774	mg/L	114.8	70	130	0.94	20	

Silver, dissolved				M200.7 ICP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	1.003		1.03	mg/L	102.7	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.482	mg/L	96.4	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.382	mg/L	76.4	85	115			M2 ZA
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.365	mg/L	73	85	115	4.55	20	M2 ZA

Sodium, dissolved				M200.7 ICP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	100		100.55	mg/L	100.6	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.9	0.9			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	100.018		105.1	mg/L	105.1	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	100.018	152	253.1	mg/L	101.1	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	100.018	152	254.4	mg/L	102.4	85	115	0.51	20	

Sulfate			D516-02 - Turbidimetric										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321770													
WG321770ICB	ICB	04/27/12 8:17				U	mg/L		-3	3			
WG321770ICV	ICV	04/27/12 8:18	WI120423-8	20		18.6	mg/L	93	90	110			
WG321770LFB	LFB	04/27/12 8:29	WI111111-3	10.03		9.4	mg/L	93.7	90	110			
L94054-01DUP	DUP	04/27/12 8:48			2900	2870	mg/L				1	20	
L94128-01AS	AS	04/27/12 8:48	SO4TURB12	10.0000008	2600	2510	mg/L	-900	90	110			M3

Uranium, dissolved					M200.8 ICP-MS								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321766													
WG321766ICV	ICV	04/27/12 4:56	MS120416-2	.05		.05179	mg/L	103.6	90	110			
WG321766ICB	ICB	04/27/12 4:59				U	mg/L		-0.0003	0.0003			
WG321766LFB	LFB	04/27/12 5:02	MS120327-3	.05		.05079	mg/L	101.6	85	115			
L94030-03AS	AS	04/27/12 6:24	MS120327-3	.05	.0114	.06973	mg/L	116.7	70	130			
L94030-03ASD	ASD	04/27/12 6:26	MS120327-3	.05	.0114	.07057	mg/L	118.3	70	130	1.2	20	

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Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG321567													
WG321567ICV	ICV	04/24/12 19:25	II120112-3	2		1.96	mg/L	98	95	105			
WG321567ICB	ICB	04/24/12 19:31				U	mg/L		-0.03	0.03			
WG321567LFB	LFB	04/24/12 19:44	II120423-4	.5		.525	mg/L	105	85	115			
L94155-01AS	AS	04/24/12 19:53	II120423-4	.5	U	.527	mg/L	105.4	85	115			
L94155-01ASD	ASD	04/24/12 19:56	II120423-4	.5	U	.519	mg/L	103.8	85	115	1.53	20	

Rio Algom Mining Company

ACZ Project ID: L94054

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L94054-01	WG321567	Silver, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG321565	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG321835	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG321108	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			SM2540C	ZO	Concentration is based on a final residue greater than 200 mg.
	WG321770	Sulfate	D516-02 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

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Sample ID: MW-32

Locator:

ACZ Sample ID: L94054-01

Date Sampled: 04/10/12 9:40

Date Received: 04/13/12

Sample Matrix: Ground Water

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	04/26/12 0:07		0.37	0.12	0.12	pCi/L		zsh

Radium 228, dissolved

Prep Method:

M9320

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	04/26/12 14:38		0.83	0.47	1	pCi/L		jig

**Report Header Explanations**

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	MS/MSD	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	PBS	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	PBW	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Replicate Error Ratio (RER) accepted because sample concentrations are less than 10x the MDL.
U	No nuclides detected above the Lower Limit of Detection (LLD)
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
X	QC is out of control. See Case Narrative.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998).
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extqualist.pdf>

Rio Algom Mining Company

Project ID: 58381/6300056598

ACZ Project ID: **L94054**

Radium 226, dissolved

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCNSCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPDRER	Limit	Qual
WG321839																
WG321390PBW	PBW	04/26/12						.05	0.1	0.23			0.46			
WG321390LCSW	LCSW	04/26/12	RC120118-1	23.92				22	0.64	0.24	92	45	131			
L94015-01DUP	DUP-RE	04/26/12			0.04	0.1	0.14	.2	0.12	0.22				1.02		2
L94054-01MS	MS	04/26/12	RC120118-1	23.92	0.37	0.12	0.12	25	0.79	0.32	103	45	131			

Radium 228, dissolved

M9320

Units: pCi/L

ACZ ID	Type	Analyzed	PCNSCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPDRER	Limit	Qual
WG321893																
WG321538PBW	PBW	04/26/12						.83	0.28	0.42			0.84			
WG321538LCSW	LCSW	04/26/12	PCN39489	19.62				16	1.1	1	81.6	47	123			
L94148-01DUP	DUP-RE	04/26/12			3.3	0.29	0.54	3.2	0.31	0.53				0.24		2
L94015-01MS	MS	04/26/12	PCN39489	19.62	1.3	0.48	1.2	20	0.97	0.9	95.3	47	123			

Rio Algom Mining Company

ACZ Project ID: **L94054**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
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No extended qualifiers associated with this analysis

Rio Algom Mining Company

ACZ Project ID: **L94054**

No certification qualifiers associated with this analysis

Rio Algom Mining Company
58381/6300056598

ACZ Project ID: L94054
Date Received: 04/13/2012 10:21
Received By: ksj
Date Printed: 4/13/2012

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?	X		
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
Na15161	5.6	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Rio Algom Mining Company
58381/6300056598

ACZ Project ID: L94054
Date Received: 04/13/2012 10:21
Received By: ksj
Date Printed: 4/13/2012

Sample Container Preservation

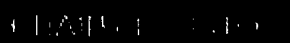
SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L94054-01	MW-32		Y		Y							

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: ksj



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94254 Chain of Custody

RIO ALGOM MINING LLC - PROJECT CODES

ACL-ALL	ACL-TRB	ACL-TRA	ACL-KD	DP-71-Q	SEC 4 PONDS ^{SEC 4000}	DP-71-S
50/year	30/year	15/year	35/year	10/year	20/year	10/year
Chloride	Chloride	Chloride	Chloride	Chloride	Chloride	Chloride
Sulfate	Sulfate	Sulfate	Sulfate	Sulfate	Sulfate	Sulfate
TDS	TDS	TDS	TDS	TDS	TDS	TDS
Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite
Molybdenum	Cyanide	Cyanide	Antimony	Arsenic	Arsenic	Arsenic
Nickel	Molybdenum	Molybdenum	Arsenic	Selenium	Selenium	Selenium
Selenium	Nickel	Nickel	Beryllium	Uranium	Uranium	Uranium
Gross Alpha	Selenium	Selenium	Cadmium		Carbonate (CO ₃)	Carbonate (CO ₃)
Radium-226	Gross Alpha	Gross Alpha	Cyanide		Bicarbonate (HCO ₃)	Bicarbonate (HCO ₃)
Radium-228	Radium-226	Radium-226	Lead		Calcium	Calcium
Thorium-230	Radium-228	Radium-228	Molybdenum		Potassium	Potassium
Lead-210	Thorium-230	Thorium-230	Nickel		Magnesium	Magnesium
Uranium	Lead-210	Lead-210	Selenium		Sodium	Sodium
	Uranium	Uranium	Gross Alpha		Lead	Lead
			Radium-226		Nickel	Nickel
			Radium-228		Silver	Silver
			Thorium-230		Iron	Iron
			Lead-210		Molybdenum	Molybdenum
			Uranium		Zinc	Zinc
					Manganese	Manganese
					Copper	Copper
					Cobalt	Cobalt
					Chromium	Chromium
					Cadmium	Cadmium
					Aluminum	Aluminum
					Fluoride	Fluoride
					Radium-226	Radium-226
					Radium-228	Radium-228
					Total Kjeldal nitrogen	Total Kjeldal nitrogen

Wednesday, August 08, 2007
versions.

The Wednesday, August 08, 2007 product code replaces all previous