

Bill To: Indian & Northern Affairs Canada Project:		Lot ID: 628495
Report To: Indian & Northern Affairs Canada ID:		Approval Status: Approved
415C, 300 Main Street	Name: AGS	Invoice Frequency: by Lot
Whitehorse, YT, Canada	Location: Artic Gold & Silver Tailings	COD Status:
Y1A 2B5	LSD:	Control Number: A015160
Attn: Werner Liebau	P.O.:	Date Received: Jul 3, 2008
Sampled By: Clayton Dyck	Acct code:	Date Reported: Jul 14, 2008
Company: INAC		Report Number: 1132134

Contact	Company	Address
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	Copies	Delivery	Format
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	1	Email - Single Report	PDF

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Notes To Clients:

Reports associated with this Lot

<u>Id/Format/Report Date</u>	<u>Id/Format/Report Date</u>	<u>Id/Format/Report Date</u>
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INDIAN & NORTHERN
 AFFAIRS CANADA
 415C, 300 MAIN ST
 WHITEHORSE, YT
 Y1A 2B5
 2008 JUL 23 P 2:43

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Analytical Report

Bill To: Indian & Northern Affairs Canada Project:
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			Reference Number	628495-1	628495-2	628495-3	
			Sample Date	Jun 26, 2008	Jun 26, 2008	Jun 26, 2008	
			Sample Location				
			Sample Description	MW-2	MW-1D	AGS-1	
			Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved							
Silicon	Dissolved	mg/L	26.1	8.83	3.65	0.05	
Sulfur	Dissolved	mg/L	1950	13.0	1.2	0.3	
Aluminum	Dissolved	mg/L	45.9	0.030	0.018	0.005	
Antimony	Dissolved	mg/L	0.0013	<0.0002	<0.0002	0.0002	
Arsenic	Dissolved	mg/L	1.80	0.0020	0.0007	0.0002	
Barium	Dissolved	mg/L	0.004	0.040	0.005	0.001	
Beryllium	Dissolved	mg/L	0.0030	<0.0001	<0.0001	0.0001	
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Boron	Dissolved	mg/L	0.009	0.006	<0.002	0.002	
Cadmium	Dissolved	mg/L	0.00625	0.00016	<0.00001	0.00001	
Chromium	Dissolved	mg/L	0.0161	<0.0005	<0.0005	0.0005	
Cobalt	Dissolved	mg/L	2.16	0.0001	<0.0001	0.0001	
Copper	Dissolved	mg/L	0.088	0.002	<0.001	0.001	
Lead	Dissolved	mg/L	0.0006	<0.0001	<0.0001	0.0001	
Lithium	Dissolved	mg/L	0.037	0.003	<0.001	0.001	
Molybdenum	Dissolved	mg/L	<0.001	0.002	<0.001	0.001	
Nickel	Dissolved	mg/L	0.820	0.0022	0.0011	0.0005	
Selenium	Dissolved	mg/L	0.0006	<0.0002	<0.0002	0.0002	
Silver	Dissolved	mg/L	0.00006	0.00007	0.00002	0.00001	
Strontium	Dissolved	mg/L	1.18	0.199	0.028	0.001	
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005	
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Titanium	Dissolved	mg/L	0.0242	0.0015	<0.0005	0.0005	
Uranium	Dissolved	mg/L	0.0057	0.0015	<0.0005	0.0005	
Vanadium	Dissolved	mg/L	0.0244	0.0005	0.0001	0.0001	
Zinc	Dissolved	mg/L	74.6	0.005	0.010	0.001	
Subsample	Field Filtered		Yes	Yes	Yes		
Routine Water							
Calcium	Dissolved	mg/L	421	46.3	6.3	0.2	
Magnesium	Dissolved	mg/L	126	9.5	1.5	0.2	
Sodium	Dissolved	mg/L	12.4	4.0	1.6	0.4	
Potassium	Dissolved	mg/L	8.9	2.4	<0.4	0.4	
Iron	Dissolved	mg/L	2070	0.52	0.16	0.01	
Manganese	Dissolved	mg/L	89.6	0.837	<0.005	0.005	

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		Reference Number	628495-4	628495-5	
		Sample Date	Jun 26, 2008	Jun 26, 2008	
		Sample Location			
		Sample Description	AGS-2	AGS-0	
		Matrix	Water	Water	
Analyte		Units	Results	Results	Nominal Detection Limit
Metals Dissolved					
Silicon	Dissolved	mg/L	3.54	4.25	0.05
Sulfur	Dissolved	mg/L	1.2	24.5	0.3
Aluminum	Dissolved	mg/L	0.021	0.044	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0019	0.0008	0.0002
Barium	Dissolved	mg/L	0.006	0.007	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00009	0.00084	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	0.0002	0.0218	0.0001
Copper	Dissolved	mg/L	0.001	0.003	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.002	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	0.0006	0.0113	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.031	0.092	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	0.0008	0.0005
Uranium	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Vanadium	Dissolved	mg/L	0.0002	0.0001	0.0001
Zinc	Dissolved	mg/L	0.011	0.134	0.001
Subsample	Field Filtered		Yes	Yes	
Routine Water					
Calcium	Dissolved	mg/L	7.4	27.6	0.2
Magnesium	Dissolved	mg/L	1.6	4.7	0.2
Sodium	Dissolved	mg/L	1.6	1.9	0.4
Potassium	Dissolved	mg/L	0.4	0.6	0.4
Iron	Dissolved	mg/L	0.12	0.98	0.01
Manganese	Dissolved	mg/L	0.011	1.92	0.005

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		Reference Number	628495-6	628495-7	628495-8	
		Sample Date	Jun 26, 2008	Jun 26, 2008	Jun 26, 2008	
		Sample Location				
		Sample Description	AGS-S1	AGS-S2	AGS-S3	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Hot Water Soluble						
Boron	Water Soluble	ug/g	<0.05	<0.05	<0.05	0.5
Metals Strong Acid Digestion						
Antimony	Strong Acid Extractable	ug/g	2.1	2.2	1.7	0.5
Arsenic	Strong Acid Extractable	ug/g	14.6	15.8	14.4	0.2
Barium	Strong Acid Extractable	ug/g	234	274	257	0.03
Beryllium	Strong Acid Extractable	ug/g	0.49	0.53	0.50	0.01
Cadmium	Strong Acid Extractable	ug/g	0.2	0.2	0.2	0.05
Chromium	Strong Acid Extractable	ug/g	39.4	36.2	38.0	0.04
Cobalt	Strong Acid Extractable	ug/g	11.2	10.9	10.5	0.05
Copper	Strong Acid Extractable	ug/g	42.8	37.3	36.1	0.05
Lead	Strong Acid Extractable	ug/g	15.7	17.9	16.6	0.3
Lithium	Strong Acid Extractable	ug/g	24.9	26.6	24.8	0.1
Manganese	Strong Acid Extractable	ug/g	637	670	634	0.3
Mercury	Strong Acid Extractable	ug/g	0.027	0.025	0.026	0.003
Molybdenum	Strong Acid Extractable	ug/g	0.3	0.4	0.4	0.05
Nickel	Strong Acid Extractable	ug/g	31.6	27.7	29.3	0.1
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silver	Strong Acid Extractable	ug/g	0.2	0.2	<0.2	0.2
Strontium	Strong Acid Extractable	ug/g	108	94.5	91.1	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.5	0.5	0.5	0.2
Uranium	Strong Acid Extractable	ug/g	28	30	32	3
Vanadium	Strong Acid Extractable	ug/g	57.0	54.8	55.2	0.1
Zinc	Strong Acid Extractable	ug/g	75.8	85.2	77.9	0.1
Soil Acidity						
pH	1:2 sample to water	pH	8.3	8.0	8.2	0.5

Approved by: 
 Randy Neumann, BSc
 Vice President, Environmental

Quality Control

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Hot Water Soluble

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Boron	ug/g	<0.0	0.0	-0.0	0.0	yes
Material Used: Metals Blank - soils						
Date Acquired: July 11, 2008						
Acquired By: Marie England						

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Boron	ug/g	0.8	0.7	0.6	0.9	yes
Material Used: QM-Acid-						
Date Acquired: July 11, 2008						
Acquired By: Marie England						

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Boron	ug/g	<0.05	<0.05	30.0	0.1	yes
Material Used: Metals Int. Duplicate - soils						
Date Acquired: July 11, 2008						
Acquired By: Marie England						

Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	<0.05	0.01	-0.04	0.05	yes
Sulfur	mg/L	<0.3	0.0	-0.3	0.3	yes
Aluminum	ug/L	<5	0	-5	5	yes
Antimony	ug/L	<0.2	0.0	-0.2	0.2	yes
Arsenic	ug/L	<0.2	0.0	-0.2	0.2	yes
Barium	ug/L	<1	0	-1	1	yes
Beryllium	ug/L	<0.1	0.0	-0.0	0.1	yes
Bismuth	ug/L	<0.5	0.0	-1.5	1.5	yes
Boron	ug/L	<2	0	-2	2	yes
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	yes
Chromium	ug/L	<0.5	-0.0	-0.3	0.3	yes
Cobalt	ug/L	<0.1	0.0	-0.1	0.1	yes
Copper	ug/L	<1	0	-1	1	yes
Lead	ug/L	<0.1	0.0	-0.1	0.1	yes
Lithium	ug/L	<1	0	-1	1	yes
Molybdenum	ug/L	<1	0	-1	1	yes
Nickel	ug/L	<0.5	0.0	-0.5	0.5	yes
Selenium	ug/L	<0.2	-0.0	-0.2	0.2	yes
Silver	ug/L	0.07	-0.00	-0.10	0.10	yes
Strontium	ug/L	<1	0	-1	1	yes
Thallium	ug/L	<0.05	0.00	-0.05	0.05	yes
Tin	ug/L	<1	0	-1	1	yes
Titanium	ug/L	<0.5	0.0	-0.5	0.5	yes
Uranium	ug/L	<0.5	-0.0	-0.5	0.5	yes

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Metals Dissolved - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Vanadium	ug/L	<0.1	0.0	-0.1	0.1	yes
Zinc	ug/L	<1	1	-0	2	yes
Material Used: Edmonton Method Blank						
Date Acquired: July 07, 2008						
Acquired By: Alexandra Robert						

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mg/L	4.25	4.27	9.99	0.01	yes
Sulfur	mg/L	700	698	10.0	0.1	yes
Aluminum	ug/L	45900	46900	10	11	yes
Antimony	ug/L	1.3	1.3	10.0	0.4	yes
Arsenic	ug/L	1800	1800	10.0	0.4	yes
Barium	ug/L	4	4	10	2	yes
Beryllium	ug/L	3.0	2.9	10.0	0.2	yes
Bismuth	ug/L	<0.5	<0.5	10.0	1.1	yes
Boron	ug/L	9	8	10	4	yes
Cadmium	ug/L	6.25	6.24	9.99	0.02	yes
Chromium	ug/L	16.1	16.0	10.0	1.1	yes
Cobalt	ug/L	2160	2160	10.0	0.2	yes
Copper	ug/L	88	89	10	2	yes
Lead	ug/L	0.6	0.6	10.0	0.2	yes
Lithium	ug/L	37	37	10	2	yes
Molybdenum	ug/L	<1	<1	10	2	yes
Nickel	ug/L	820	826	10.0	1.1	yes
Selenium	ug/L	0.6	0.7	10.0	0.4	yes
Silver	ug/L	0.06	0.04	9.99	0.22	yes
Strontium	ug/L	1180	1200	10	2	yes
Thallium	ug/L	<0.05	<0.05	9.99	0.11	yes
Tin	ug/L	<1	<1	10	2	yes
Titanium	ug/L	24.2	23.8	10.0	1.1	yes
Uranium	ug/L	5.7	5.8	10.0	1.1	yes
Vanadium	ug/L	24.4	24.2	10.0	0.2	yes
Zinc	ug/L	74600	74600	10	2	yes
Material Used: Edmonton Duplicate						
Date Acquired: July 07, 2008						
Acquired By: Alexandra Robert						

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	ug/L	996	971	851	1091	yes
Antimony	ug/L	40.7	41.4	38.6	44.2	yes
Arsenic	ug/L	41.3	40.4	37.1	43.7	yes
Barium	ug/L	198	199	184	214	yes
Beryllium	ug/L	20.3	19.9	17.2	22.6	yes

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Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Bismuth	ug/L	98.8	100.8	90.6	111.0	yes
Boron	ug/L	417	396	348	444	yes
Cadmium	ug/L	2.28	2.05	1.75	2.35	yes
Chromium	ug/L	102	99.6	92.1	107.1	yes
Cobalt	ug/L	21.4	20.4	17.4	23.4	yes
Copper	ug/L	200	195	165	225	yes
Lead	ug/L	20.6	20.2	17.2	23.2	yes
Lithium	ug/L	200	199	169	229	yes
Molybdenum	ug/L	190	201	171	231	yes
Nickel	ug/L	98.3	98.7	83.7	113.7	yes
Selenium	ug/L	40.4	40.0	34.0	46.0	yes
Silver	ug/L	19.9	20.80	17.80	23.80	yes
Strontium	ug/L	201	196	166	226	yes
Thallium	ug/L	10.6	10.27	8.77	11.77	yes
Tin	ug/L	186	191	176	206	yes
Titanium	ug/L	104	100.1	85.1	115.1	yes
Uranium	ug/L	100	98.4	83.4	113.4	yes
Vanadium	ug/L	18.8	19.3	16.3	22.3	yes
Zinc	ug/L	198	200	182	218	yes
Material Used: Metals Low						
Date Acquired: July 07, 2008						
Acquired By: Alexandra Robert						
Aluminum	ug/L	54	51	45	58	yes
Antimony	ug/L	2.0	2.1	1.9	2.3	yes
Arsenic	ug/L	2.0	2.0	1.7	2.3	yes
Barium	ug/L	10	10	1	19	yes
Beryllium	ug/L	1.0	1.0	0.8	1.1	yes
Bismuth	ug/L	5.2	5.1	4.5	5.7	yes
Boron	ug/L	22	20	17	23	yes
Cadmium	ug/L	0.10	0.10	0.08	0.12	yes
Chromium	ug/L	5.1	5.0	4.4	5.6	yes
Cobalt	ug/L	1.1	1.0	0.9	1.2	yes
Copper	ug/L	10	10	9	12	yes
Lead	ug/L	1.0	1.0	0.9	1.2	yes
Lithium	ug/L	10	10	9	12	yes
Molybdenum	ug/L	10	10	9	12	yes
Nickel	ug/L	5.0	5.0	4.2	5.7	yes
Selenium	ug/L	1.9	2.0	1.7	2.3	yes
Silver	ug/L	0.91	1.02	0.87	1.17	yes
Strontium	ug/L	11	10	9	12	yes
Thallium	ug/L	0.53	0.51	0.47	0.56	yes
Tin	ug/L	10	10	8	11	yes
Titanium	ug/L	5.2	5.0	4.3	5.8	yes

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Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Uranium	ug/L	5.4	5.1	4.4	5.9	yes
Vanadium	ug/L	1.1	1.0	0.9	1.2	yes
Zinc	ug/L	10	11	9	12	yes
Material Used: Metals Trace						
Date Acquired: July 07, 2008						
Acquired By: Alexandra Robert						
Silicon	mg/L	9.95	10.00	9.01	10.99	yes
Sulfur	mg/L	48.6	50.0	45.0	55.0	yes
Material Used: Water High						
Date Acquired: July 07, 2008						
Acquired By: Jennifer Persson						
Silicon	mg/L	0.19	0.20	0.18	0.22	yes
Sulfur	mg/L	1	1.0	0.9	1.1	yes
Material Used: Water Low						
Date Acquired: July 07, 2008						
Acquired By: Jennifer Persson						

Metals Strong Acid Digestion

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Antimony	ug/g	<0.5	0.0	-0.0	0.0	yes
Arsenic	ug/g	<0.2	0.0	-0.0	0.0	yes
Barium	ug/g	0.16	0.00	-0.03	0.03	yes
Beryllium	ug/g	<0.01	0.00	-0.00	0.00	yes
Cadmium	ug/g	<0.05	0.00	-0.00	0.00	yes
Chromium	ug/g	<0.04	0.00	-0.00	0.00	yes
Cobalt	ug/g	0.1	0.00	-0.00	0.00	yes
Copper	ug/g	0.1	0.00	-0.00	0.00	yes
Lead	ug/g	<0.3	0.0	-0.0	0.0	yes
Lithium	ug/g	<0.1	0.0	-0.0	0.0	yes
Manganese	ug/g	0.4	0.0	-0.0	0.0	yes
Mercury	ug/g	<0.003	-0.010	-0.061	0.041	yes
Molybdenum	ug/g	<0.05	0.00	-0.00	0.00	yes
Nickel	ug/g	<0.1	0.0	-0.0	0.0	yes
Selenium	ug/g	<0.3	0.0	-0.0	0.0	yes
Silver	ug/g	<0.2	0.0	-0.0	0.0	yes
Strontium	ug/g	0.06	0.00	-0.00	0.00	yes
Thallium	ug/g	<0.3	0.0	-0.0	0.0	yes
Tin	ug/g	<0.2	0.0	-0.0	0.0	yes
Uranium	ug/g	<3	0	-0	0	yes
Vanadium	ug/g	<0.1	0.0	-0.0	0.0	yes
Zinc	ug/g	0.4	0.0	-0.0	0.0	yes

Quality Control

Bill To: Indian & Northern Affairs Canada Project:
 Report To: Indian & Northern Affairs Canada ID:
 415C, 300 Main Street Name: AGS
 Whitehorse, YT, Canada Location: Artic Gold & Silver Tailings
 Y1A 2B5 LSD:
 Attn: Werner Liebau P.O.:
 Sampled By: Clayton Dyck Acct code:
 Company: INAC

Lot ID: **628495**
 Control Number: A015160
 Date Received: Jul 3, 2008
 Date Reported: Jul 14, 2008
 Report Number: 1132134

Metals Strong Acid Digestion - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Metals Blank - soils					
Date Acquired:	July 08, 2008					
Acquired By:	Marie England					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Antimony	ug/g	1.5	1.7	30.0	3.0	yes
Arsenic	ug/g	1.7	1.3	30.0	1.0	yes
Barium	ug/g	152	145	30.00	1.00	yes
Beryllium	ug/g	0.05	0.05	30.00	0.50	yes
Cadmium	ug/g	0.88	0.85	30.00	0.50	yes
Chromium	ug/g	13.1	12.6	30.00	1.00	yes
Cobalt	ug/g	1.6	1.6	30.00	0.50	yes
Copper	ug/g	896	740	30.00	1.00	yes
Lead	ug/g	12.6	12.2	30.0	0.5	yes
Manganese	ug/g	95.3	93.1	30.0	1.0	yes
Mercury	ug/g	0.412	0.377	30.000	0.500	yes
Molybdenum	ug/g	6.50	6.38	30.00	0.50	yes
Nickel	ug/g	9.7	9.5	30.0	0.5	yes
Selenium	ug/g	4.7	4.6	30.0	0.5	yes
Silver	ug/g	4.5	4.3	30.0	0.5	yes
Strontium	ug/g	112	110	30.00	1.00	yes
Thallium	ug/g	1.7	1.8	30.0	1.0	yes
Tin	ug/g	13.3	12.6	30.0	1.0	yes
Vanadium	ug/g	4.2	4.0	30.0	1.0	yes
Zinc	ug/g	317	308	30.0	1.0	yes
Material Used:	Metals Int. Duplicate - soils					
Date Acquired:	July 08, 2008					
Acquired By:	Marie England					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Antimony	ug/g	15.6	14.0	11.0	17.0	yes
Arsenic	ug/g	103	91.4	72.2	110.6	yes
Barium	ug/g	213	176.00	146.90	205.10	yes
Beryllium	ug/g	0.97	0.92	0.73	1.11	yes
Cadmium	ug/g	39.8	40.30	34.93	45.67	yes
Chromium	ug/g	19.8	17.50	12.70	22.30	yes
Cobalt	ug/g	8.07	7.40	6.35	8.45	yes
Copper	ug/g	110	106.00	87.10	124.90	yes
Lead	ug/g	1060	1047.0	816.0	1278.0	yes
Manganese	ug/g	560	513.0	435.3	590.7	yes
Mercury	ug/g	7.65	6.240	4.740	7.740	yes
Molybdenum	ug/g	1.1	1.02	0.72	1.32	yes
Nickel	ug/g	16.1	15.0	12.6	17.4	yes

Quality Control

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Lot ID: **628495**
 Control Number: A015160
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Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Selenium	ug/g	1.3	1.6	0.6	2.6	yes
Silver	ug/g	4.4	4.4	2.9	5.9	yes
Strontium	ug/g	45.4	42.90	35.67	50.13	yes
Thallium	ug/g	1.7	1.6	-0.2	3.4	yes
Tin	ug/g	2.6	2.2	0.9	3.5	yes
Vanadium	ug/g	46.8	37.9	29.1	46.7	yes
Zinc	ug/g	320	292.0	245.2	338.8	yes

Material Used: S0529 NIST 2711 - metals in soil
 Date Acquired: July 08, 2008
 Acquired By: Marie England

Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.1	0.2	yes
Magnesium	mg/L	<0.2	0.0	-0.1	0.1	yes
Sodium	mg/L	<0.4	0.0	-0.4	0.4	yes
Potassium	mg/L	<0.4	0.0	-0.4	0.4	yes
Iron	mg/L	<0.01	0.00	-0.01	0.01	yes
Manganese	mg/L	<0.005	0.001	-0.003	0.005	yes

Material Used: Edmonton Method Blank
 Date Acquired: July 07, 2008
 Acquired By: Jennifer Persson

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	372	369	10.0	0.6	yes
Magnesium	mg/L	4.7	4.7	10.0	0.7	yes
Sodium	mg/L	539	534	10.0	1.2	yes
Potassium	mg/L	6	6	10.0	1.2	yes
Iron	mg/L	0.98	1.00	9.99	0.05	yes
Manganese	mg/L	1.92	1.91	9.990	0.010	yes

Material Used: Edmonton Duplicate
 Date Acquired: July 07, 2008
 Acquired By: Jennifer Persson

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	241	250.0	225.1	274.9	yes
Magnesium	mg/L	97.0	98.0	88.0	108.0	yes
Sodium	mg/L	240	250.0	225.1	274.9	yes
Potassium	mg/L	241	250.0	225.1	274.9	yes
Iron	mg/L	9.51	10.00	9.01	10.99	yes
Manganese	mg/L	2.42	2.500	2.251	2.749	yes

Quality Control

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 Attn: Werner Liebau P.O.:
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Lot ID: **628495**
 Control Number: A015160
 Date Received: Jul 3, 2008
 Date Reported: Jul 14, 2008
 Report Number: 1132134

Routine Water - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Water High					
Date Acquired:	July 07, 2008					
Acquired By:	Jennifer Persson					
Calcium	mg/L	5.0	5.1	4.6	5.5	yes
Magnesium	mg/L	2.0	2.0	1.8	2.2	yes
Sodium	mg/L	4.9	5.0	4.5	5.5	yes
Potassium	mg/L	4.9	5.1	4.6	5.6	yes
Iron	mg/L	0.20	0.20	0.02	0.38	yes
Manganese	mg/L	0.050	0.050	0.045	0.055	yes
Material Used:	Water Low					
Date Acquired:	July 07, 2008					
Acquired By:	Jennifer Persson					

Soil Acidity

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.0	100.1	97.0 - 103.0	yes
Material Used:	CC - pH					
Date Acquired:	July 10, 2008					
Acquired By:	Heather Johnson					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH	pH	7.2	7.2	0.2	0.1	yes
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	July 10, 2008					
Acquired By:	Heather Johnson					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH	pH	6.0	6.0	5.7	6.3	yes
Material Used:	Soil pH 98 FS-015					
Date Acquired:	July 10, 2008					
Acquired By:	Heather Johnson					

Methodology and Notes

Bill To: Indian & Northern Affairs Canada Project:		Lot ID: 628495
Report To: Indian & Northern Affairs Canada ID:		Control Number: A015160
415C, 300 Main Street	Name: AGS	Date Received: Jul 3, 2008
Whitehorse, YT, Canada	Location: Artic Gold & Silver Tailings	Date Reported: Jul 14, 2008
Y1A 2B5	LSD:	Report Number: 1132134
Attn: Werner Liebau	P.O.:	
Sampled By: Clayton Dyck	Acct code:	
Company: INAC		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Boron - Hot Water Soluble	Carter	* Soil pH (1:2 Water), 16.2	11-Jul-08	BTG Surrey
Metals (Strong Acid Leachable) in soils	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	08-Jul-08	BTG Surrey
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	07-Jul-08	BTG Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	07-Jul-08	BTG Edmonton
pH and EC - 1:2 (Surrey)	Carter	* Soil pH (1:2 Water), 16.2	08-Jul-08	BTG Surrey

** Bodycote method(s) based on reference method*

References

APHA	Standard Methods for the Examination of Water and Wastewater
B.C.M.O.E	B.C. Ministry of Environment
Carter	Soil Sampling and Methods of Analysis
US EPA	US Environmental Protection Agency Test Methods

Comments:

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Custody

Bill To: Indian & Northern Affairs Canada Project:
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Lot ID: **628495**
Control Number: A015160
Date Received: Jul 3, 2008
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Report Number: 1132134

Sample Disposal Date: August 13, 2008

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

Return Sample, collect, to the address below via:

Greyhound

Loomis

Purolator

Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____