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Client: **Aurora Geosciences Ltd. (Whitehorse)**
34A Laberge Road.
Whitehorse YT Y1A 5Y9 CANADA

Submitted By: Mike Power
Receiving Lab: Canada-Whitehorse
Received: August 26, 2013
Report Date: September 12, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI13000353.1

CLIENT JOB INFORMATION

Project: Seagull Tin
Shipment ID: ST-13-01
P.O. Number: PRL-13530-YT
Number of Samples: 34

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	34	Crush, split and pulverize 250 g rock to 200 mesh			WHI
4B02	34	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN

SAMPLE DISPOSAL

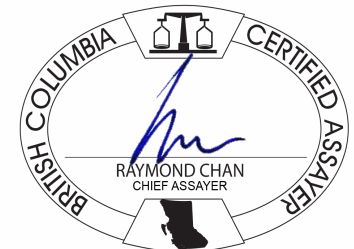
PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Aurora Geosciences Ltd. (Yellowknife)
3506 McDonald Drive
Yellowknife NT X1A 2H1
CANADA

CC: Gary Vivian



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

WHI13000353.1

Method	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	
Q008101	Rock	1.83	99	4	0.7	8.6	22.0	7.9	60.7	320.3	5	10.0	4.9	55.7	11.8	<8	2.5	221.5	32.7	64.6	135.1
Q008102	Rock	1.83	102	7	2.5	7.8	23.5	7.8	58.5	327.6	5	11.9	4.5	55.3	12.7	34	3.3	229.4	34.3	64.5	124.5
Q008103	Rock	1.21	85	4	0.3	7.6	22.1	8.4	65.7	332.3	4	8.9	5.7	62.7	16.9	<8	2.8	241.8	38.8	63.8	130.8
Q008104	Rock	0.96	53	10	0.6	10.5	21.5	8.3	58.1	366.0	5	11.0	5.1	56.1	16.4	<8	2.6	226.5	70.1	98.5	194.8
Q008105	Rock	1.84	67	6	0.7	9.2	22.1	7.2	56.9	338.2	10	12.0	6.1	52.4	20.3	<8	3.1	206.4	78.3	100.5	198.3
Q008106	Rock	1.36	53	2	0.2	7.6	20.2	8.2	55.9	317.9	33	10.5	4.7	52.4	26.6	<8	177.8	218.6	94.5	150.2	287.9
Q008107	Rock	1.32	51	12	0.7	6.1	20.5	8.9	63.5	308.9	11	12.9	5.2	58.6	19.4	<8	3.6	231.2	94.8	107.9	210.4
Q008108	Rock	1.44	57	5	0.4	5.6	21.6	8.6	62.6	275.3	17	18.3	5.2	57.0	17.0	<8	4.7	229.8	85.7	101.5	197.1
Q008109	Rock	1.93	62	2	0.6	6.7	21.6	7.6	62.7	330.5	75	11.8	5.8	58.6	21.4	<8	3.8	228.3	84.6	93.1	189.6
Q008110	Rock	0.92	52	9	0.5	6.3	20.9	7.6	61.9	354.4	4	9.2	6.6	53.2	19.5	<8	4.7	207.0	76.6	99.8	192.7
Q008111	Rock	1.63	33	7	0.6	8.4	21.2	7.7	62.0	332.9	17	7.7	4.9	55.4	17.6	<8	4.3	207.9	86.9	116.8	226.5
Q008112	Rock	1.18	32	5	0.4	7.8	21.0	7.5	62.6	324.4	4	7.5	4.9	56.5	17.9	<8	4.5	217.1	80.7	105.0	206.6
Q008113	Rock	1.55	35	2	<0.2	8.3	21.3	7.5	59.7	327.3	4	7.3	5.0	53.2	16.1	<8	4.0	213.7	71.6	92.2	181.6
Q008114	Rock	0.77	44	5	0.4	6.8	21.8	8.4	70.3	339.0	9	7.7	7.0	64.8	20.4	<8	60.8	220.3	76.4	92.7	171.3
Q008115	Rock	0.54	41	9	0.6	9.2	19.5	7.3	54.4	332.2	5	7.4	4.4	48.9	13.7	<8	3.1	198.1	69.5	93.4	186.6
Q008116	Rock	0.58	81	11	0.6	9.2	21.5	8.0	66.0	353.2	22	13.9	6.9	58.2	19.4	<8	3.9	227.1	132.5	143.7	285.7
Q008117	Rock	1.18	165	5	<0.2	7.1	22.8	8.4	60.8	328.4	14	18.1	6.6	57.7	16.2	<8	4.1	233.9	62.2	88.0	170.2
Q008118	Rock	1.82	100	5	0.3	10.0	23.8	8.3	63.7	352.9	7	13.4	6.0	62.0	22.4	<8	4.1	211.1	80.7	133.1	263.8
Q008119	Rock	1.45	87	12	0.3	9.3	22.4	9.7	67.3	351.1	9	13.1	6.8	64.2	23.3	<8	3.0	233.2	85.3	119.7	239.9
Q008120	Rock	1.86	59	3	0.4	6.5	20.3	7.8	49.5	323.0	4	8.6	3.7	38.3	7.6	<8	3.0	200.0	12.6	35.4	60.8
Q008121	Rock	1.40	56	9	<0.2	8.3	20.9	7.5	61.3	335.1	4	9.6	4.8	52.5	10.6	<8	2.9	206.7	50.6	67.8	126.4
Q008122	Rock	0.85	89	3	0.2	5.9	21.0	7.5	60.2	269.5	14	21.8	5.0	47.0	10.4	<8	4.3	208.7	59.0	41.6	63.9
Q008123	Rock	0.65	60	3	0.3	12.0	20.4	7.4	55.0	350.6	4	9.5	5.6	60.1	22.7	<8	4.5	199.3	66.5	128.9	238.0
Q008124	Rock	2.30	51	6	0.4	9.0	22.2	8.2	59.2	340.6	3	11.1	5.1	58.3	18.9	<8	3.2	211.6	91.8	104.2	210.3
Q008125	Rock	1.17	38	7	0.5	7.9	23.2	7.6	56.9	364.3	3	8.9	7.7	66.2	21.6	<8	4.7	182.2	65.4	77.7	153.8
Q008126	Rock	1.65	40	7	0.5	7.4	22.0	6.7	54.5	364.7	33	9.6	8.3	68.3	24.0	<8	3.1	144.4	106.9	122.9	253.1
Q008127	Rock	1.70	32	4	0.4	8.2	25.2	8.4	65.0	381.0	12	8.1	10.6	81.8	25.2	<8	3.5	166.9	120.9	140.0	291.5
Q008128	Rock	1.27	54	10	<0.2	6.5	25.7	6.7	74.3	420.0	10	6.8	12.1	68.4	29.7	<8	3.7	147.7	98.9	70.2	145.7
Q008129	Rock	1.42	56	4	0.4	7.5	22.0	7.3	61.4	414.4	62	8.2	6.9	69.5	24.0	<8	5.0	183.5	96.4	100.4	200.2
Q008130	Rock	1.19	48	3	0.6	7.6	21.4	8.1	60.2	429.7	4	8.7	8.1	62.0	21.0	<8	3.9	183.3	81.4	91.6	184.4

CERTIFICATE OF ANALYSIS

WHI13000353.1

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Q008101	Rock	12.68	43.1	7.92	0.07	6.00	0.96	6.04	1.16	3.34	0.59	3.54	0.53	2.0	6.9	9.9	34	1.3	6.9	0.1	0.4
Q008102	Rock	11.99	41.9	7.57	0.10	5.95	0.92	5.77	1.17	3.67	0.58	3.78	0.50	2.4	7.4	8.8	30	0.6	6.7	<0.1	0.4
Q008103	Rock	12.58	41.0	7.31	0.08	6.05	0.97	6.57	1.21	3.99	0.63	4.15	0.56	3.3	9.0	8.5	25	0.6	9.3	<0.1	0.4
Q008104	Rock	20.51	70.2	13.29	0.10	11.87	1.91	11.74	2.57	7.16	1.02	6.86	0.94	1.5	4.3	9.2	52	1.1	6.1	0.1	0.8
Q008105	Rock	20.22	66.8	14.06	0.11	12.22	2.08	12.49	2.39	6.68	1.07	6.67	0.94	2.7	4.6	8.9	41	0.7	5.2	0.2	0.3
Q008106	Rock	30.50	104.4	19.61	0.13	16.87	2.57	15.48	2.89	7.65	1.11	6.94	0.97	1.9	5.1	8.9	43	0.7	6.6	0.3	0.4
Q008107	Rock	23.99	88.4	18.07	0.13	17.10	2.83	18.46	3.23	9.85	1.39	8.77	1.17	2.2	7.5	9.8	43	0.8	4.8	0.1	0.3
Q008108	Rock	21.46	79.0	14.95	0.12	13.57	2.37	14.60	3.13	8.50	1.23	7.76	1.11	1.8	6.1	13.0	58	0.5	3.9	0.2	0.2
Q008109	Rock	20.24	70.4	14.61	0.13	13.33	2.28	14.91	2.78	7.69	1.25	7.41	1.03	2.0	11.8	8.2	44	0.7	3.1	0.2	0.2
Q008110	Rock	20.77	72.1	15.23	0.10	12.49	2.21	13.12	2.44	7.56	1.14	6.81	0.99	2.2	9.9	9.7	42	0.7	1.9	0.1	0.3
Q008111	Rock	24.07	83.7	17.17	0.12	15.24	2.55	15.80	2.84	8.08	1.15	7.18	0.98	2.7	5.8	8.0	68	0.7	11.8	0.2	0.4
Q008112	Rock	22.18	74.6	15.38	0.12	13.68	2.35	14.85	2.75	7.87	1.17	6.83	0.99	2.4	11.8	9.2	59	0.6	7.1	0.2	0.4
Q008113	Rock	19.75	68.0	13.03	0.07	12.16	2.02	12.89	2.48	7.10	0.99	6.14	0.92	1.7	5.9	9.0	56	0.4	7.3	0.2	0.5
Q008114	Rock	19.27	68.2	13.56	0.08	12.09	2.04	13.08	2.37	7.03	1.09	6.50	0.98	3.0	12.6	8.0	35	0.5	3.9	<0.1	0.3
Q008115	Rock	20.16	70.1	14.05	0.10	12.62	2.06	13.68	2.52	6.91	1.02	6.01	0.89	1.8	5.4	7.1	48	0.3	3.4	<0.1	0.6
Q008116	Rock	31.34	111.2	24.23	0.17	23.36	4.14	25.03	4.57	12.33	1.81	11.34	1.51	1.6	10.1	10.8	56	0.5	2.2	0.3	0.2
Q008117	Rock	17.17	59.6	10.44	0.15	9.18	1.55	11.14	2.06	6.21	0.95	5.60	0.86	1.3	6.0	10.4	21	0.4	2.0	0.1	0.3
Q008118	Rock	27.69	93.3	18.14	0.16	14.75	2.29	14.05	2.54	7.07	1.08	7.07	0.95	2.2	8.8	11.5	30	0.5	4.1	0.1	0.4
Q008119	Rock	25.26	81.9	17.00	0.15	14.48	2.26	13.87	2.33	6.66	1.04	6.69	0.93	2.6	16.5	10.0	28	0.4	4.7	<0.1	0.3
Q008120	Rock	6.04	18.9	3.38	0.08	2.39	0.41	2.73	0.47	1.55	0.21	1.71	0.24	1.7	2.0	8.5	27	0.5	5.3	<0.1	0.3
Q008121	Rock	13.54	47.0	8.73	0.07	7.96	1.26	8.04	1.62	4.75	0.74	4.42	0.64	1.8	5.1	8.8	33	0.4	4.5	<0.1	0.4
Q008122	Rock	7.77	27.1	5.08	0.07	5.80	1.19	9.52	2.07	6.00	0.95	6.05	0.90	1.7	6.5	15.3	34	0.8	2.3	<0.1	0.3
Q008123	Rock	26.30	87.2	16.26	0.15	13.02	1.93	11.11	1.88	5.25	0.80	5.21	0.71	1.9	5.0	7.5	25	0.3	1.9	<0.1	0.2
Q008124	Rock	22.04	72.6	15.51	0.13	14.67	2.51	16.05	2.94	8.44	1.27	7.44	1.07	2.3	8.4	6.7	36	0.3	3.9	<0.1	0.2
Q008125	Rock	16.67	54.5	10.69	0.08	9.70	1.55	9.84	1.80	5.36	0.87	5.68	0.84	2.7	4.8	8.6	24	0.3	2.0	<0.1	0.2
Q008126	Rock	27.92	98.2	21.54	0.11	18.84	3.11	18.71	3.13	8.72	1.34	8.78	1.20	3.0	2.6	10.3	24	0.2	1.3	0.3	0.2
Q008127	Rock	33.16	117.1	26.00	0.08	23.45	3.69	22.61	3.86	10.71	1.54	10.02	1.50	3.5	2.8	10.6	39	0.6	2.2	<0.1	0.3
Q008128	Rock	16.08	55.6	12.85	0.05	11.47	2.12	14.27	2.84	8.71	1.36	9.10	1.28	5.0	3.1	11.8	22	0.6	2.6	<0.1	0.4
Q008129	Rock	21.92	77.9	15.66	0.11	14.83	2.59	16.41	3.12	9.06	1.40	8.94	1.20	2.2	2.1	9.5	28	0.4	1.4	0.2	0.2
Q008130	Rock	19.06	64.1	13.58	0.10	12.02	2.17	13.87	2.67	7.44	1.19	7.87	1.08	1.9	1.6	7.7	23	0.1	1.3	<0.1	0.2



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Project: Seagull Tin
Report Date: September 12, 2013

Page: 2 of 3

Part: 3 of 3

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
Q008101	Rock	0.2	<0.1	<0.5	<0.01	0.3	<0.5
Q008102	Rock	0.1	<0.1	2.4	<0.01	0.3	<0.5
Q008103	Rock	0.3	<0.1	<0.5	0.02	0.4	<0.5
Q008104	Rock	0.7	<0.1	<0.5	<0.01	0.3	<0.5
Q008105	Rock	1.5	0.2	3.9	0.02	0.3	<0.5
Q008106	Rock	0.4	<0.1	<0.5	0.01	0.3	<0.5
Q008107	Rock	0.7	0.1	1.7	0.01	0.2	<0.5
Q008108	Rock	0.9	0.4	0.5	<0.01	0.2	<0.5
Q008109	Rock	0.5	<0.1	0.7	<0.01	0.1	<0.5
Q008110	Rock	0.7	0.2	0.7	<0.01	0.2	<0.5
Q008111	Rock	0.5	<0.1	0.8	<0.01	0.2	<0.5
Q008112	Rock	1.3	0.4	<0.5	<0.01	0.3	<0.5
Q008113	Rock	1.2	0.2	<0.5	<0.01	0.2	<0.5
Q008114	Rock	48.6	0.5	2.8	<0.01	0.2	<0.5
Q008115	Rock	0.4	<0.1	<0.5	<0.01	0.2	<0.5
Q008116	Rock	0.6	0.2	<0.5	<0.01	0.2	<0.5
Q008117	Rock	0.7	0.1	<0.5	<0.01	0.1	<0.5
Q008118	Rock	0.6	0.1	<0.5	0.01	0.2	<0.5
Q008119	Rock	0.4	<0.1	<0.5	0.02	0.2	<0.5
Q008120	Rock	1.8	<0.1	0.8	0.01	0.3	<0.5
Q008121	Rock	0.2	<0.1	<0.5	0.03	0.3	<0.5
Q008122	Rock	0.3	<0.1	<0.5	0.02	0.1	<0.5
Q008123	Rock	1.5	<0.1	<0.5	<0.01	0.3	<0.5
Q008124	Rock	0.6	<0.1	<0.5	<0.01	0.3	<0.5
Q008125	Rock	0.2	<0.1	<0.5	0.02	0.3	<0.5
Q008126	Rock	0.5	<0.1	<0.5	0.01	0.2	<0.5
Q008127	Rock	0.5	<0.1	<0.5	0.02	0.4	<0.5
Q008128	Rock	0.9	<0.1	3.3	0.03	0.3	<0.5
Q008129	Rock	0.3	0.3	<0.5	<0.01	0.4	<0.5
Q008130	Rock	0.2	0.2	<0.5	<0.01	0.3	<0.5



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Project: Seagull Tin
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Page: 3 of 3

Part: 1 of 3

CERTIFICATE OF ANALYSIS

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Method	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	
Q008131	Rock	1.26	41	9	0.5	6.5	21.9	8.5	60.9	434.0	3	7.8	6.6	61.6	23.1	<8	2.8	197.3	92.1	91.9	188.6
Q008132	Rock	1.09	76	6	0.4	7.0	21.6	8.6	60.8	399.0	23	12.5	6.7	74.3	27.4	<8	3.0	207.7	113.0	90.8	183.1
Q008133	Rock	1.78	76	9	0.8	7.2	22.5	9.1	56.4	344.2	87	14.2	6.2	69.3	24.2	<8	3.1	195.3	83.1	81.0	164.9
Q008134	Rock	0.77	85	12	<0.2	6.0	25.4	8.0	59.8	337.7	231	13.5	5.6	68.5	20.4	<8	3.3	202.5	79.7	96.1	189.7



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Page: 3 of 3

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CERTIFICATE OF ANALYSIS

WHI13000353.1

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Q008131	Rock	19.66	68.6	13.94	0.08	13.25	2.40	15.06	2.88	8.89	1.35	9.00	1.23	2.1	1.2	10.3	27	0.4	1.1	0.1	0.1
Q008132	Rock	19.37	63.7	14.34	0.12	14.09	2.57	17.20	3.53	9.93	1.55	9.92	1.44	1.8	1.4	10.3	27	0.5	1.2	<0.1	0.2
Q008133	Rock	16.96	55.4	12.33	0.15	11.70	2.12	14.73	2.87	8.70	1.36	8.22	1.22	1.1	1.6	19.5	73	0.6	1.4	0.2	0.3
Q008134	Rock	20.23	63.6	14.00	0.16	13.09	2.12	13.86	2.68	7.58	1.16	7.56	1.04	1.1	1.2	8.5	23	0.5	0.9	<0.1	0.1



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Project: Seagull Tin
Report Date: September 12, 2013

Page: 3 of 3

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI13000353.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.5	0.01	0.1	0.5
Q008131	Rock	<0.1	<0.1	<0.5	<0.01	0.4	<0.5
Q008132	Rock	0.1	<0.1	<0.5	<0.01	0.2	<0.5
Q008133	Rock	0.1	<0.1	0.7	0.03	0.3	<0.5
Q008134	Rock	<0.1	0.1	<0.5	0.02	0.2	<0.5



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Page: 1 of 1

Part: 1 of 3

QUALITY CONTROL REPORT

WHI13000353.1

Method	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	
Pulp Duplicates																					
Q008107	Rock	1.32	51	12	0.7	6.1	20.5	8.9	63.5	308.9	11	12.9	5.2	58.6	19.4	<8	3.6	231.2	94.8	107.9	210.4
REP Q008107	QC																				
Q008129	Rock	1.42	56	4	0.4	7.5	22.0	7.3	61.4	414.4	62	8.2	6.9	69.5	24.0	<8	5.0	183.5	96.4	100.4	200.2
REP Q008129	QC		62	9	0.3	7.6	20.7	7.4	61.8	417.2	63	8.6	6.3	67.3	23.3	<8	4.8	190.2	98.5	104.1	204.5
Q008134	Rock	0.77	85	12	<0.2	6.0	25.4	8.0	59.8	337.7	231	13.5	5.6	68.5	20.4	<8	3.3	202.5	79.7	96.1	189.7
REP Q008134	QC		80	11	0.2	5.7	22.3	8.7	58.7	341.1	199	13.5	5.7	68.9	21.1	<8	3.1	218.8	81.9	95.2	188.5
Core Reject Duplicates																					
Q008123	Rock	0.65	60	3	0.3	12.0	20.4	7.4	55.0	350.6	4	9.5	5.6	60.1	22.7	<8	4.5	199.3	66.5	128.9	238.0
DUP Q008123	QC		61	6	0.5	11.0	21.7	7.7	53.2	357.2	4	10.3	5.4	59.9	22.7	<8	4.0	197.8	68.7	121.3	224.6
Reference Materials																					
STD DS9	Standard																				
STD DS9	Standard																				
STD OREAS45EA	Standard																				
STD OREAS45EA	Standard																				
STD SO-18	Standard		497	<1	26.1	6.8	16.3	9.6	18.6	25.8	15	381.1	7.2	10.0	15.6	198	15.0	284.5	29.3	13.7	27.6
STD SO-18	Standard		503	<1	23.9	6.6	16.1	10.6	19.1	26.1	15	396.4	6.5	9.7	15.9	193	15.5	289.6	28.9	12.7	26.1
STD SO-18	Standard		536	<1	25.3	7.3	16.2	8.5	19.4	26.7	14	390.3	7.2	9.7	16.1	195	14.5	288.3	30.4	13.1	28.5
STD SO-18	Standard		517	<1	26.5	7.1	15.6	9.2	19.6	27.2	14	389.0	7.4	10.9	17.0	188	16.5	292.2	31.2	12.6	28.8
STD DS9 Expected																					
STD OREAS45EA Expected																					
STD SO-18 Expected			514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	1.1	0.9	<0.1	<0.1	<0.1
BLK	Blank		1	<1	<0.2	<0.1	<0.5	<0.1	0.1	<0.1	<1	0.5	<0.1	<0.2	<0.1	<8	<0.5	0.3	<0.1	0.1	<0.1
Prep Wash																					
G1-WHI	Prep Blank		994	2	3.7	4.7	20.0	3.8	24.6	130.6	1	744.8	1.5	11.1	4.2	42	<0.5	137.6	16.5	36.3	69.8
G1-WHI	Prep Blank		905	2	4.4	4.9	17.7	4.7	23.0	124.8	2	737.1	1.3	10.3	3.8	47	<0.5	160.8	18.2	35.2	68.0

QUALITY CONTROL REPORT

WHI13000353.1

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																					
Q008107	Rock	23.99	88.4	18.07	0.13	17.10	2.83	18.46	3.23	9.85	1.39	8.77	1.17	2.2	7.5	9.8	43	0.8	4.8	0.1	0.3
REP Q008107	QC													2.1	8.2	10.0	45	0.9	4.9	0.1	0.4
Q008129	Rock	21.92	77.9	15.66	0.11	14.83	2.59	16.41	3.12	9.06	1.40	8.94	1.20	2.2	2.1	9.5	28	0.4	1.4	0.2	0.2
REP Q008129	QC	22.04	74.0	16.07	0.10	14.78	2.60	16.50	3.18	8.94	1.39	8.56	1.29								
Q008134	Rock	20.23	63.6	14.00	0.16	13.09	2.12	13.86	2.68	7.58	1.16	7.56	1.04	1.1	1.2	8.5	23	0.5	0.9	<0.1	0.1
REP Q008134	QC	20.15	68.2	14.40	0.15	12.64	2.09	13.10	2.74	8.12	1.18	7.28	1.06								
Core Reject Duplicates																					
Q008123	Rock	26.30	87.2	16.26	0.15	13.02	1.93	11.11	1.88	5.25	0.80	5.21	0.71	1.9	5.0	7.5	25	0.3	1.9	<0.1	0.2
DUP Q008123	QC	25.13	85.0	16.36	0.13	12.99	1.92	12.04	1.97	5.22	0.78	5.23	0.75	1.7	4.4	7.0	24	0.5	1.6	<0.1	0.2
Reference Materials																					
STD DS9	Standard													13.2	109.4	132.7	312	43.5	24.9	2.3	5.2
STD DS9	Standard													13.7	109.9	138.0	332	42.3	26.9	2.6	5.1
STD OREAS45EA	Standard													1.4	648.2	14.3	27	369.7	9.7	<0.1	0.3
STD OREAS45EA	Standard													1.4	663.6	14.6	30	367.6	9.4	<0.1	0.2
STD SO-18	Standard	3.34	14.1	2.87	0.89	2.85	0.45	2.82	0.60	1.79	0.26	1.79	0.25								
STD SO-18	Standard	3.21	12.7	2.84	0.78	3.02	0.46	2.83	0.56	1.65	0.27	1.80	0.27								
STD SO-18	Standard	3.54	14.2	2.94	0.81	2.84	0.45	3.25	0.64	1.84	0.27	1.70	0.26								
STD SO-18	Standard	3.40	14.3	2.91	0.92	2.86	0.46	2.97	0.60	1.71	0.30	1.77	0.28								
STD DS9 Expected														12.84	108	126	317	40.3	25.5	2.4	4.94
STD OREAS45EA Expected														1.78	709	14.3	30.6	357	11.4	0.03	0.64
STD SO-18 Expected		3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27								
BLK	Blank													<0.1	0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
Prep Wash																					
G1-WHI	Prep Blank	7.44	28.8	4.56	1.24	3.81	0.46	2.82	0.51	1.84	0.28	1.85	0.25	0.2	3.1	3.7	45	3.1	<0.5	<0.1	<0.1
G1-WHI	Prep Blank	7.37	25.9	4.87	1.11	3.49	0.53	3.09	0.59	1.75	0.28	1.86	0.31	0.3	4.9	3.8	45	4.0	<0.5	<0.1	<0.1

QUALITY CONTROL REPORT

WHI13000353.1

Method	Analyte	Unit	MDL	1DX Bi	1DX Ag	1DX Au	1DX Hg	1DX TI	1DX Se
				ppm	ppm	ppb	ppm	ppm	ppm
				0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates									
Q008107	Rock			0.7	0.1	1.7	0.01	0.2	<0.5
REP Q008107	QC			0.7	<0.1	4.3	0.01	0.2	<0.5
Q008129	Rock			0.3	0.3	<0.5	<0.01	0.4	<0.5
REP Q008129	QC								
Q008134	Rock			<0.1	0.1	<0.5	0.02	0.2	<0.5
REP Q008134	QC								
Core Reject Duplicates									
Q008123	Rock			1.5	<0.1	<0.5	<0.01	0.3	<0.5
DUP Q008123	QC			1.2	<0.1	2.0	0.01	0.2	<0.5
Reference Materials									
STD DS9	Standard			6.4	1.9	103.8	0.25	5.7	4.4
STD DS9	Standard			5.3	1.7	117.5	0.21	5.2	5.6
STD OREAS45EA	Standard			0.3	0.2	53.8	<0.01	<0.1	0.6
STD OREAS45EA	Standard			0.1	0.2	48.6	0.01	<0.1	1.1
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD DS9 Expected				6.32	1.83	118	0.2	5.3	5.2
STD OREAS45EA Expected				0.26	0.311	53	0.34	0.072	2.09
STD SO-18 Expected									
BLK	Blank			<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank			<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank								
BLK	Blank								
Prep Wash									
G1-WHI	Prep Blank			<0.1	<0.1	3.3	<0.01	0.3	<0.5
G1-WHI	Prep Blank			<0.1	<0.1	0.9	<0.01	0.3	<0.5