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To: ANGLOGOLD ASHANTI MINNESOTA INC.  
6300 S. SYRACUSE WAY #500  
CENTENNIAL CO 80111  
USA

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Plus Appendix Pages  
Finalized Date: 11-AUG-2016  
Account: AAMICLSR

**CERTIFICATE TB16121718**

This report is for 34 Sediment samples submitted to our lab in Thunder Bay, ON, Canada on 27-JUL-2016.

The following have access to data associated with this certificate:

PHIL LARSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-44	Screen to -63um
LOG-24	Pulp Login - Rcd w/o Barcode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
C-IR07	Total Carbon (Leco)	LECO

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
ATTN: PHIL LARSON  
6300 S. SYRACUSE WAY #500  
CENTENNIAL CO 80111  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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# CERTIFICATE OF ANALYSIS TB16121718

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
AGAM13832		0.42	0.002	0.12	9.63	4.7	430	1.78	0.41	1.87	0.12	84.2	19.6	113	4.63	51.7
AGAM13833		0.64	0.001	0.13	6.69	12.2	420	1.44	0.30	4.54	0.69	81.5	15.3	81	3.82	34.0
AGAM13834		0.68	0.001	0.06	6.08	2.4	510	1.01	0.11	2.35	0.11	48.8	13.2	99	1.53	25.3
AGAM13835		0.64	<0.001	0.05	5.84	1.9	460	1.11	0.11	2.27	0.10	41.4	12.6	116	1.59	28.9
AGAM13836		0.63	<0.001	0.04	5.80	1.1	490	1.11	0.11	2.08	0.07	48.6	7.0	57	1.53	10.4
AGAM13837		0.51	<0.001	0.07	6.02	3.0	490	1.09	0.18	5.37	0.13	56.0	11.5	65	2.74	22.7
AGAM13838		0.63	<0.001	0.08	7.58	0.6	210	0.58	0.04	4.05	0.06	19.10	40.4	188	0.46	37.0
AGAM13839		0.57	0.001	0.10	6.64	2.0	390	0.81	0.10	2.46	0.09	55.4	21.8	121	1.08	56.5
AGAM13840		0.47	0.002	0.06	6.58	2.0	600	1.23	0.10	2.16	0.09	49.4	11.1	94	1.58	24.6
AGAM13841		0.65	0.001	0.06	6.43	2.7	540	1.24	0.12	2.32	0.08	49.9	12.0	118	1.77	30.3
AGAM13842		0.43	0.001	0.07	6.54	2.0	520	1.18	0.16	2.81	0.09	55.1	10.6	60	2.44	20.7
AGAM13843		0.54	0.003	0.05	6.11	2.2	500	1.08	0.15	4.98	0.11	56.3	11.0	62	2.30	20.0
AGAM13844		0.82	0.002	0.08	6.56	3.7	550	1.18	0.22	5.31	0.14	61.8	13.8	77	3.33	27.5
AGAM13845		0.09	<0.001	0.08	10.20	3.9	310	0.85	0.07	3.52	0.06	40.0	33.1	153	1.04	34.2
AGAM13846		0.50	<0.001	0.05	7.36	2.8	540	1.62	0.09	2.66	0.12	38.8	19.7	70	1.09	33.0
AGAM13847		0.86	0.001	0.04	7.17	3.0	360	1.91	0.10	6.30	0.12	48.9	17.6	52	1.29	24.6
AGAM13848		0.89	0.002	0.06	6.58	1.9	500	1.06	0.12	3.79	0.08	58.7	12.4	58	1.30	17.9
AGAM13849		0.97	0.014	0.08	5.36	3.6	490	0.99	0.12	6.04	0.24	49.9	8.9	52	2.07	17.2
AGAM13850		0.91	0.001	0.08	5.53	4.3	500	0.95	0.15	5.87	0.25	51.6	9.3	55	2.49	17.8
AGAM13851		0.82	0.002	0.11	5.83	7.6	580	1.18	0.22	5.82	0.35	60.1	10.9	65	4.19	22.6
AGAM13852		0.85	0.005	0.09	5.64	7.2	420	1.32	0.24	8.60	0.35	56.1	10.5	71	4.47	22.1
AGAM13853		0.59	NSS	0.11	5.63	7.1	430	1.31	0.22	8.73	0.34	57.3	10.5	81	4.22	23.2
AGAM13854		1.06	0.001	0.07	6.36	4.2	380	0.79	0.16	7.09	0.15	45.6	25.6	104	2.31	71.7
AGAM13855		0.41	0.001	0.07	6.09	3.8	500	1.07	0.18	7.14	0.16	60.3	12.1	69	3.12	24.5
AGAM13856		0.66	0.001	0.08	6.12	3.5	510	1.14	0.18	7.07	0.14	61.8	11.9	67	3.15	23.4
AGAM13857		0.47	<0.001	0.07	6.36	3.2	490	1.08	0.22	5.92	0.13	59.1	12.0	73	2.91	24.3
AGAM13858		1.19	<0.001	0.06	5.60	2.3	450	1.00	0.14	7.64	0.10	55.6	9.6	67	2.17	18.8
AGAM13859		0.75	<0.001	0.06	5.31	3.0	430	0.96	0.16	8.26	0.14	56.3	9.9	58	2.38	28.9
AGAM13860		1.03	0.001	0.07	5.08	4.8	400	0.86	0.21	7.83	0.34	50.9	10.7	63	2.04	32.3
AGAM13861		0.54	<0.001	0.05	4.91	3.8	360	0.92	0.14	9.82	0.10	52.4	9.8	56	2.19	18.0
AGAM13862		1.09	0.001	0.05	5.26	2.6	400	0.83	0.14	9.39	0.10	51.3	10.0	60	2.22	19.5
AGAM13863		1.10	0.001	0.05	5.36	2.2	460	0.85	0.13	6.39	0.10	49.6	8.0	54	1.59	13.7
AGAM13864		0.50	0.001	0.09	6.24	4.9	490	1.06	0.20	5.84	0.18	60.5	13.2	76	3.49	30.6
AGAM13865		0.63	0.001	0.11	6.36	11.7	420	1.58	0.26	7.89	0.38	61.5	11.4	77	5.67	31.5



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# CERTIFICATE OF ANALYSIS TB16121718

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
AGAM13832		4.27	24.2	0.15	5.0	0.054	1.51	42.4	40.9	1.06	475	2.82	0.75	11.7	73.1	570
AGAM13833		3.79	16.55	0.16	4.0	0.050	1.52	39.0	36.4	1.23	443	4.93	0.63	13.0	46.0	710
AGAM13834		2.75	13.75	0.13	3.4	0.032	1.61	23.6	13.8	1.13	485	1.97	1.94	6.0	45.6	580
AGAM13835		2.84	13.15	0.13	3.1	0.027	1.56	19.6	13.9	1.04	461	5.30	1.97	5.1	48.8	510
AGAM13836		1.60	12.90	0.14	4.1	0.020	1.72	23.0	10.4	0.72	316	0.63	2.24	5.3	29.1	550
AGAM13837		2.75	14.30	0.15	3.3	0.036	1.60	27.4	22.1	2.15	451	0.57	1.51	7.2	33.5	620
AGAM13838		7.24	17.50	0.10	1.7	0.056	0.75	8.3	15.7	2.92	1040	1.25	1.44	4.1	105.0	490
AGAM13839		4.44	15.15	0.15	3.5	0.046	1.32	25.9	14.6	1.68	594	1.38	1.79	5.8	57.3	640
AGAM13840		2.59	15.40	0.12	3.4	0.023	2.04	23.7	14.3	0.83	442	8.04	2.37	5.7	33.0	510
AGAM13841		2.90	14.80	0.13	3.4	0.028	1.82	23.7	15.1	0.95	497	11.75	2.14	5.9	43.8	560
AGAM13842		2.54	15.50	0.14	3.6	0.031	1.78	26.6	21.4	1.09	461	0.64	2.02	6.6	31.2	630
AGAM13843		2.55	14.55	0.15	3.6	0.033	1.62	28.0	20.4	1.84	482	0.60	1.73	7.1	31.4	600
AGAM13844		3.14	15.75	0.15	3.4	0.037	1.76	30.6	27.7	2.17	607	1.25	1.49	7.8	42.8	620
AGAM13845		4.87	20.7	0.10	2.3	0.031	0.67	9.1	11.9	1.52	466	0.63	1.91	6.1	103.0	400
AGAM13846		4.14	18.75	0.10	1.9	0.035	1.72	17.3	15.1	1.28	716	2.80	2.82	5.4	46.1	430
AGAM13847		3.61	20.8	0.13	2.6	0.035	1.38	22.7	16.4	1.61	696	1.40	1.94	7.3	44.5	310
AGAM13848		2.90	16.00	0.15	3.5	0.036	1.61	28.4	11.9	1.28	558	0.65	2.23	7.0	27.5	850
AGAM13849		2.28	12.25	0.14	3.3	0.032	1.48	24.5	16.4	2.37	511	0.98	1.51	6.8	25.7	630
AGAM13850		2.37	12.60	0.14	3.3	0.030	1.53	25.6	19.6	2.31	518	1.07	1.37	7.3	27.2	620
AGAM13851		2.64	13.90	0.16	3.2	0.043	1.62	30.1	30.4	2.36	579	2.17	0.79	9.8	34.1	600
AGAM13852		2.56	14.10	0.16	2.7	0.046	1.65	27.8	38.5	3.24	483	2.73	0.60	9.9	36.1	530
AGAM13853		2.63	13.90	0.15	2.8	0.040	1.65	28.2	34.2	3.22	494	5.57	0.69	9.8	46.8	560
AGAM13854		5.08	15.20	0.11	2.5	0.047	1.33	22.3	22.6	3.25	844	1.02	1.33	6.3	59.5	590
AGAM13855		2.85	14.50	0.13	3.2	0.038	1.76	30.2	25.6	2.64	524	1.02	1.41	7.6	37.1	620
AGAM13856		2.80	14.95	0.13	3.4	0.036	1.77	30.4	26.8	2.63	516	1.02	1.42	7.8	36.9	620
AGAM13857		2.84	14.75	0.15	3.5	0.036	1.71	29.4	25.1	2.10	547	1.47	1.43	7.9	36.8	570
AGAM13858		2.45	12.85	0.14	3.6	0.030	1.61	27.7	21.3	2.30	485	2.42	1.42	7.3	29.5	590
AGAM13859		2.38	12.60	0.16	3.4	0.034	1.57	28.1	23.1	2.51	462	2.10	1.10	7.8	30.2	550
AGAM13860		2.45	12.00	0.15	3.1	0.031	1.49	25.1	19.6	2.71	422	2.99	1.17	6.6	33.9	550
AGAM13861		2.38	11.75	0.14	3.2	0.033	1.48	25.9	20.9	3.34	437	0.81	1.00	6.7	27.9	550
AGAM13862		2.41	12.20	0.15	2.8	0.030	1.47	25.2	21.0	3.17	462	0.85	1.09	6.7	30.3	530
AGAM13863		2.09	12.05	0.16	3.7	0.025	1.55	24.0	14.0	2.05	398	1.32	1.65	6.2	22.9	580
AGAM13864		3.03	15.35	0.14	3.2	0.040	1.72	29.6	28.3	2.30	552	1.61	1.30	8.1	41.7	600
AGAM13865		3.23	16.05	0.15	2.9	0.059	1.77	30.9	48.2	2.95	468	5.23	0.47	11.1	39.5	560



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# CERTIFICATE OF ANALYSIS TB16121718

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
AGAM13832		42.5	84.9	0.004	0.70	0.43	15.7	1	2.1	156.0	0.98	0.06	12.15	0.426	0.52	3.1
AGAM13833		19.5	75.2	0.014	1.37	1.04	11.9	2	1.6	183.5	0.92	0.11	11.55	0.386	0.96	4.9
AGAM13834		12.6	54.9	<0.002	0.04	0.32	9.6	<1	0.9	305	0.46	<0.05	6.46	0.295	0.34	1.1
AGAM13835		12.6	57.6	<0.002	0.05	0.33	8.6	1	1.2	289	0.44	<0.05	6.11	0.245	0.35	1.3
AGAM13836		15.0	58.9	<0.002	0.03	0.19	6.2	<1	0.8	328	0.43	<0.05	7.48	0.212	0.35	1.6
AGAM13837		13.4	64.6	<0.002	0.03	0.39	9.2	1	1.0	269	0.56	<0.05	7.77	0.282	0.42	1.5
AGAM13838		4.1	15.2	<0.002	<0.01	0.34	29.4	1	0.7	269	0.30	<0.05	1.41	0.756	0.09	0.3
AGAM13839		10.1	45.4	<0.002	0.01	0.31	17.8	<1	1.0	246	0.51	0.06	7.30	0.450	0.25	1.1
AGAM13840		16.2	75.0	0.002	0.03	0.34	8.0	1	1.3	403	0.50	<0.05	9.13	0.237	0.44	1.4
AGAM13841		14.4	66.6	0.003	0.04	0.41	8.8	1	1.4	327	0.50	<0.05	7.35	0.259	0.40	1.5
AGAM13842		14.7	66.0	<0.002	0.04	0.28	8.7	1	1.0	310	0.52	<0.05	8.22	0.266	0.43	1.5
AGAM13843		12.8	64.5	<0.002	0.06	0.31	9.2	1	1.0	300	0.52	<0.05	7.83	0.274	0.38	1.5
AGAM13844		14.1	74.5	<0.002	0.08	0.42	10.4	1	1.2	271	0.64	<0.05	8.87	0.299	0.50	2.1
AGAM13845		5.9	14.5	<0.002	0.02	0.22	8.9	1	0.7	333	0.42	<0.05	3.23	0.544	0.16	0.8
AGAM13846		10.0	52.6	<0.002	0.40	0.26	9.5	1	0.9	378	0.36	<0.05	3.95	0.281	0.45	1.3
AGAM13847		11.1	44.3	<0.002	0.17	0.22	8.1	1	0.9	286	0.47	<0.05	4.99	0.324	0.35	3.3
AGAM13848		12.6	58.6	<0.002	0.11	0.22	9.5	1	0.9	399	0.47	<0.05	8.59	0.326	0.38	1.4
AGAM13849		11.8	55.4	0.002	0.20	0.38	7.9	1	0.9	284	0.59	<0.05	6.63	0.258	0.41	1.8
AGAM13850		12.1	58.2	<0.002	0.21	0.44	8.1	1	0.9	266	0.53	<0.05	6.94	0.270	0.44	2.0
AGAM13851		15.5	71.0	0.008	0.37	0.78	9.4	2	1.3	194.0	0.69	0.05	8.98	0.300	0.59	3.2
AGAM13852		16.8	78.0	0.008	0.32	0.67	9.1	2	1.4	181.5	0.69	0.05	8.51	0.265	0.61	3.0
AGAM13853		21.7	76.4	0.004	0.07	0.75	8.9	2	1.5	192.0	0.78	0.05	8.40	0.270	0.53	2.5
AGAM13854		10.6	53.9	0.002	0.16	0.31	20.8	1	0.9	218	0.50	0.06	6.27	0.476	0.32	1.4
AGAM13855		13.8	70.9	<0.002	0.11	0.37	9.5	1	1.1	270	0.57	0.06	8.55	0.282	0.45	1.9
AGAM13856		13.8	72.0	<0.002	0.11	0.37	9.2	1	1.2	273	0.59	<0.05	8.66	0.279	0.47	2.0
AGAM13857		14.9	70.5	<0.002	0.06	0.33	9.3	1	1.2	256	0.62	0.07	8.02	0.290	0.45	2.0
AGAM13858		12.9	60.6	<0.002	0.05	0.29	8.0	1	1.1	270	0.54	<0.05	8.01	0.268	0.41	1.9
AGAM13859		114.5	62.0	<0.002	0.06	0.36	7.8	1	1.1	223	0.58	<0.05	7.86	0.271	0.39	1.8
AGAM13860		174.0	56.3	<0.002	0.10	0.33	7.6	1	1.1	229	0.49	<0.05	6.82	0.256	0.37	2.0
AGAM13861		15.3	56.2	<0.002	0.09	0.26	7.6	<1	0.9	217	0.50	<0.05	7.31	0.251	0.35	1.7
AGAM13862		13.7	56.9	<0.002	0.07	0.27	8.1	1	0.9	228	0.49	<0.05	6.58	0.263	0.35	1.6
AGAM13863		11.5	53.3	<0.002	0.08	0.27	7.0	<1	0.8	297	0.47	<0.05	6.99	0.236	0.34	1.6
AGAM13864		45.8	73.8	0.002	0.14	0.41	10.0	1	1.3	250	0.59	<0.05	8.33	0.293	0.49	2.1
AGAM13865		15.7	92.9	0.008	0.08	0.90	10.4	2	2.0	166.0	0.74	0.08	10.00	0.287	0.67	3.4



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**CERTIFICATE OF ANALYSIS TB16121718**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	C-IR07 C %
AGAM13832		96	2.8	22.3	93	172.5	1.11
AGAM13833		102	6.9	22.5	84	143.0	3.05
AGAM13834		67	4.0	13.9	48	127.5	0.46
AGAM13835		58	5.7	12.2	40	111.5	0.50
AGAM13836		39	3.9	11.0	26	143.0	0.31
AGAM13837		76	1.6	14.3	57	122.0	2.09
AGAM13838		221	2.3	15.7	91	53.9	0.07
AGAM13839		120	5.8	18.9	64	126.0	0.07
AGAM13840		56	11.2	11.5	38	118.0	0.39
AGAM13841		60	9.1	12.6	42	121.5	0.48
AGAM13842		67	1.2	13.6	50	130.5	0.70
AGAM13843		66	0.9	13.7	49	128.0	1.77
AGAM13844		88	1.1	15.1	70	121.0	2.06
AGAM13845		111	0.3	8.0	52	80.8	1.48
AGAM13846		71	11.3	10.7	104	65.0	0.73
AGAM13847		58	7.5	12.3	150	84.6	2.25
AGAM13848		67	3.8	16.3	54	124.5	0.89
AGAM13849		68	0.7	13.8	49	121.0	2.61
AGAM13850		77	0.7	14.2	55	113.0	2.67
AGAM13851		114	1.0	17.4	80	113.0	3.20
AGAM13852		116	1.0	14.8	70	97.0	4.49
AGAM13853		110	1.1	14.9	74	102.5	4.28
AGAM13854		147	7.6	17.6	76	88.1	2.04
AGAM13855		80	0.9	14.5	62	115.0	2.88
AGAM13856		78	0.7	14.7	62	123.5	2.89
AGAM13857		76	1.8	14.8	59	125.5	2.30
AGAM13858		63	2.8	14.3	46	132.0	2.92
AGAM13859		64	2.1	13.9	77	126.0	3.48
AGAM13860		58	1.6	12.7	83	115.0	3.47
AGAM13861		59	1.4	12.8	45	114.0	4.38
AGAM13862		60	1.0	12.7	46	103.5	3.99
AGAM13863		52	1.9	12.1	35	138.0	2.43
AGAM13864		88	1.3	14.7	78	110.0	2.47
AGAM13865		145	1.2	16.8	85	101.5	3.90



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 Finalized Date: 11-AUG-2016  
 Account: AAMICLSR

**CERTIFICATE OF ANALYSIS TB16121718**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: NSS is non-sufficient sample.  
 ALL METHODS

Applies to Method: REE's may not be totally soluble in this method.  
 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.  
 LOG-22 LOG-24 SCR-44 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP22 C-IR07 ME-MS61