



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **NORTHERN TIGER RESOURCES**  
**220 - 17010 103RD AVE.**  
**EDMONTON AB T5S 1K7**

Page: 1  
Finalized Date: 17-AUG-2011  
Account: NOTIRE

**CERTIFICATE WH11134759**

Project: Sonora

P.O. No.: Batch 3

This report is for 63 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2011.

The following have access to data associated with this certificate:

G. HAYES

DENNIS OUELLETTE

BONNIE POLLRIES

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

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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.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11134759**

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
I038507		3.73	0.569	8.90	6.73	529	1580	1.05	1.51	1.75	2.93	40.4	4.9	14	8.00	218
I038508		3.81	0.679	7.94	6.93	1135	770	1.25	2.34	1.58	2.96	42.9	5.6	14	5.02	363
I038509		2.52	0.670	0.69	7.21	12.2	1890	1.33	2.14	1.75	0.20	47.2	5.4	15	5.29	136.5
I038510		4.46	0.242	1.83	6.53	14.0	900	1.12	1.91	1.69	0.29	35.1	5.1	14	4.21	267
I038511		3.48	0.121	2.14	6.75	18.6	1290	1.16	2.35	1.95	0.57	48.0	5.6	13	4.57	513
I038512		1.67	0.125	2.28	7.03	72.7	600	1.29	3.25	1.60	0.31	46.9	6.3	12	5.26	371
I038513		1.54	0.120	1.98	6.95	76.6	1150	1.19	2.37	1.62	0.35	45.2	6.0	11	5.16	276
I038514		0.06	1.180	0.77	2.33	248	130	1.14	8.04	17.75	2.23	32.2	4.3	45	6.58	82.6
I038515		1.27	0.002	0.04	0.07	<5	20	<0.05	0.04	20.7	0.07	1.17	0.9	4	0.10	3.1
I038516		4.50	0.135	1.38	6.65	52.5	330	1.33	3.36	1.78	0.32	43.5	7.0	11	4.72	260
I038517		4.52	1.670	45.2	6.57	5270	370	1.26	8.62	1.45	6.81	56.6	5.1	11	5.22	176.5
I038518		3.83	0.132	1.23	6.69	36.6	1200	1.45	2.22	1.62	0.41	48.2	5.7	13	4.43	218
I038519		4.19	0.282	1.04	6.84	41.5	1330	1.47	1.98	1.80	0.32	46.6	5.0	14	3.70	117.0
I038520		4.06	0.317	0.76	7.11	18.5	1170	1.50	1.80	1.87	0.26	40.1	5.0	15	3.67	102.0
I038521		3.41	0.448	3.69	6.79	777	1000	1.42	1.68	1.79	3.30	39.8	5.2	13	4.94	120.5
I038522		4.48	0.641	2.02	6.88	71.2	1110	1.52	2.12	1.77	0.35	44.3	6.0	13	5.13	135.0
I038523		3.83	0.290	0.96	6.57	34.0	790	1.23	1.90	2.76	0.29	45.0	6.0	11	6.69	117.5
I038524		4.09	0.231	0.52	7.02	15.2	1180	1.48	1.90	1.75	0.28	38.5	5.0	12	4.93	94.2
I038525		4.01	0.181	0.79	6.84	25.5	1180	1.59	2.03	1.63	0.34	59.5	5.1	12	4.55	120.0
I038526		3.86	0.261	0.71	6.92	28.8	1180	1.50	1.65	1.84	0.26	53.1	4.8	12	6.65	135.5
I038527		4.09	0.163	0.23	6.72	29.1	1240	1.61	1.31	1.68	0.22	45.5	4.8	13	6.15	20.4
I038528		4.27	0.182	0.71	6.60	162.0	1140	1.50	2.08	1.80	0.33	44.0	4.5	12	3.65	95.9
I038529		3.95	0.083	0.61	6.23	40.3	860	1.52	3.14	2.40	0.29	39.4	5.0	12	6.77	130.0
I038530		4.30	0.105	0.57	6.34	15.1	1160	1.61	1.59	1.86	0.31	37.0	5.0	12	4.46	106.5
I038531		4.30	0.251	0.56	6.63	13.8	1210	1.69	1.88	1.98	0.26	40.5	4.6	13	3.92	114.0
I038532		4.40	0.144	0.72	6.71	35.4	510	1.46	2.37	1.92	0.23	51.3	8.1	12	4.51	131.0
I038533		3.14	1.290	14.90	6.73	5770	540	1.34	1.58	2.28	9.34	55.1	5.9	10	8.82	216
I038534		4.20	0.251	2.20	6.52	1030	1070	1.45	1.61	2.07	1.86	36.9	5.8	13	4.32	184.0
I038535		4.32	0.151	0.80	7.12	19.6	1380	1.44	1.34	1.69	0.41	41.8	6.4	14	2.65	166.5
I038536		4.23	0.063	0.46	6.99	7.3	1270	1.55	1.13	1.93	0.22	52.3	6.4	16	2.41	160.5
I038537		4.40	0.037	0.36	7.46	11.3	1020	1.60	1.78	2.37	0.54	56.0	6.1	17	2.70	53.3
I038538		4.75	0.279	1.12	7.23	545	1300	1.47	2.07	1.95	0.50	37.6	7.4	18	4.85	183.0
I038539		4.48	0.130	0.35	7.32	27.4	1440	1.42	0.91	1.65	0.47	39.2	5.1	13	4.09	137.0
I038540		3.95	0.207	0.34	7.17	6.9	1410	1.36	1.59	1.67	0.34	41.3	5.5	14	4.41	150.5
I038541		4.42	0.101	0.20	7.24	6.6	1530	1.46	1.28	1.77	0.33	42.8	4.9	13	4.42	85.6
I038542		3.94	0.165	0.22	7.00	9.8	1360	1.42	1.20	1.92	0.40	38.9	6.3	14	5.02	138.5
I038543		4.14	0.066	0.22	7.31	9.5	1160	1.35	1.14	2.97	0.31	42.2	5.8	11	5.70	86.2
I038544		4.23	0.062	0.42	6.79	7.2	1190	1.33	1.06	1.92	0.24	42.6	4.9	9	3.58	99.1
I038545		3.80	0.268	2.27	7.25	771	770	1.30	1.04	1.73	4.52	30.8	8.5	12	4.45	269
I038546		3.76	0.167	0.36	7.28	10.3	1200	1.38	1.15	1.82	0.27	31.8	5.8	13	3.15	280

Comments: There are 63 samples not 62. Miscount on Submittal form.

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



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**CERTIFICATE OF ANALYSIS WH11134759**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
I038507		2.15	16.90	0.14	1.3	0.046	4.54	22.3	7.7	0.72	328	17.70	0.70	4.9	4.0
I038508		2.95	17.65	0.15	1.3	0.044	4.59	24.4	13.9	0.85	148	28.6	1.07	4.8	4.4
I038509		2.52	19.35	0.17	1.4	0.041	5.08	26.1	19.3	0.81	151	7.12	1.41	5.6	4.6
I038510		2.72	17.45	0.16	1.2	0.049	4.52	17.8	20.4	0.70	122	22.1	1.16	5.3	4.3
I038511		2.85	17.15	0.19	1.3	0.119	5.20	28.0	21.1	0.77	128	32.0	0.75	5.2	4.7
I038512		3.80	18.20	0.18	1.3	0.094	4.92	28.3	17.7	0.77	139	25.2	0.66	5.0	4.7
I038513		2.65	17.50	0.18	1.3	0.072	4.92	26.1	14.5	0.74	128	26.4	0.71	4.9	4.4
I038514		2.59	9.25	0.15	1.3	0.708	0.73	23.3	12.8	3.48	1620	74.5	0.01	5.4	80.7
I038515		0.43	0.20	0.10	<0.1	0.005	0.03	0.6	1.1	12.60	189	0.36	0.01	0.2	2.6
I038516		3.75	17.20	0.17	1.3	0.077	4.59	24.5	8.7	0.78	119	30.7	0.87	4.2	4.6
I038517		4.14	19.40	0.18	1.2	0.077	4.33	34.4	17.0	0.82	185	58.7	0.16	3.3	4.0
I038518		2.33	18.25	0.17	1.3	0.058	4.26	27.7	10.6	0.70	119	50.4	0.67	4.2	4.4
I038519		2.49	17.55	0.14	1.3	0.045	4.18	27.4	13.8	0.72	126	20.9	1.61	5.6	5.3
I038520		2.64	19.00	0.16	1.3	0.052	3.71	23.0	14.7	0.87	123	16.85	1.97	5.8	4.8
I038521		2.60	18.30	0.18	1.3	0.042	3.63	22.0	19.3	0.75	131	11.50	1.23	5.0	4.5
I038522		2.46	18.75	0.13	1.3	0.029	3.33	24.4	18.0	0.72	115	24.9	1.87	5.5	4.4
I038523		2.40	17.10	0.18	1.2	0.025	2.87	25.6	59.9	0.65	145	22.0	0.11	5.4	4.3
I038524		2.38	17.45	0.17	1.3	0.023	3.92	22.6	23.1	0.69	96	10.75	1.44	5.4	4.1
I038525		2.36	18.70	0.19	1.4	0.034	4.45	33.8	13.7	0.76	95	7.47	1.29	4.6	4.2
I038526		2.26	18.25	0.19	1.3	0.035	3.95	32.5	19.3	0.85	115	11.50	1.08	5.0	4.0
I038527		2.44	16.65	0.18	1.3	0.011	3.67	25.1	11.5	0.73	106	19.75	1.65	5.0	5.0
I038528		2.45	17.20	0.15	1.2	0.029	3.53	24.9	12.3	0.68	114	15.50	1.81	5.4	4.0
I038529		2.53	17.35	0.18	1.2	0.036	3.19	21.7	37.1	0.90	122	12.45	0.80	4.1	3.7
I038530		1.96	18.50	0.14	1.3	0.023	3.06	19.6	17.4	0.75	99	12.45	1.82	5.5	3.6
I038531		2.07	18.75	0.18	1.4	0.024	3.30	21.5	13.8	0.72	103	5.55	1.92	6.1	4.2
I038532		3.76	16.95	0.18	1.2	0.034	3.43	28.9	8.7	0.74	92	8.76	1.23	4.3	4.6
I038533		2.83	16.40	0.18	1.1	0.035	3.62	34.6	10.2	0.64	213	11.15	0.28	3.7	3.6
I038534		2.43	17.95	0.16	1.3	0.077	3.48	20.7	9.4	0.66	101	7.62	1.66	4.9	4.5
I038535		2.50	19.70	0.12	1.2	0.055	3.65	21.1	11.0	0.82	123	28.1	2.23	6.7	4.2
I038536		2.26	20.5	0.13	1.5	0.048	3.00	25.7	10.5	0.87	133	16.45	2.55	7.0	4.4
I038537		2.76	20.6	0.14	1.7	0.092	2.40	27.7	11.3	0.85	143	12.65	2.84	7.4	4.6
I038538		2.84	18.20	0.14	1.5	0.058	4.05	18.4	13.1	0.74	134	12.20	1.98	7.1	4.3
I038539		2.59	17.95	0.15	1.5	0.044	4.22	19.2	12.5	0.75	120	6.22	2.08	6.7	4.0
I038540		2.14	19.30	0.14	1.4	0.049	4.14	21.3	8.2	0.69	100	15.85	1.85	6.7	4.1
I038541		1.96	19.05	0.14	1.5	0.037	4.49	22.2	10.0	0.68	109	17.65	1.99	7.2	4.0
I038542		2.19	18.20	0.13	1.4	0.049	3.88	20.0	12.4	0.75	109	11.00	1.89	6.8	4.0
I038543		2.30	17.55	0.14	1.3	0.023	4.00	21.6	8.8	0.67	121	17.15	1.44	6.3	3.9
I038544		2.06	16.90	0.17	1.2	0.018	4.27	22.1	7.6	0.68	98	13.15	1.61	6.0	3.2
I038545		3.18	16.85	0.14	1.4	0.041	4.41	15.1	9.3	0.66	112	11.55	1.63	6.0	4.3
I038546		2.68	18.85	0.14	1.4	0.042	4.54	15.1	9.3	0.70	102	12.20	1.93	6.9	3.9

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
I038507		106.0	147.5	0.010	1.86	68.6	4.9	1	1.6	369	0.38	<0.05	6.5	0.175	3.4
I038508		987	154.5	0.007	2.56	400	5.3	1	1.4	386	0.37	0.15	6.7	0.169	4.1
I038509		21.5	161.0	0.003	1.81	4.97	5.7	1	1.3	485	0.43	0.08	7.2	0.187	5.0
I038510		21.5	148.0	0.006	2.37	7.64	5.2	1	2.0	412	0.39	0.14	6.0	0.170	4.3
I038511		22.9	162.0	0.014	2.56	12.70	5.5	1	2.9	366	0.37	0.25	6.9	0.165	3.5
I038512		22.0	179.0	0.016	3.68	19.25	5.3	2	3.3	262	0.38	0.65	6.9	0.169	2.8
I038513		26.7	171.5	0.010	2.44	14.70	5.3	1	3.0	266	0.35	0.28	7.1	0.163	3.0
I038514		19.3	61.3	0.057	0.94	11.70	4.3	4	5.2	218	0.34	0.36	4.1	0.126	15.4
I038515		1.6	1.3	<0.002	0.02	0.17	0.2	<1	<0.2	49.2	<0.05	<0.05	<0.2	<0.005	0.5
I038516		23.3	149.0	0.019	3.76	10.45	5.1	2	2.4	316	0.31	0.57	6.2	0.144	4.1
I038517		1180	184.0	0.031	4.10	524	5.3	1	5.5	157.0	0.26	2.47	6.4	0.115	2.2
I038518		21.8	141.5	0.030	2.15	30.1	5.3	1	2.3	274	0.33	0.30	6.1	0.146	3.4
I038519		23.4	142.0	0.008	1.81	5.77	5.4	1	1.8	501	0.42	0.24	6.6	0.186	4.6
I038520		16.9	145.5	0.007	1.93	2.37	5.7	1	1.5	523	0.46	0.15	7.0	0.199	4.6
I038521		98.3	155.5	0.005	2.01	21.9	5.3	1	2.0	361	0.40	0.20	6.8	0.176	3.6
I038522		23.2	132.0	0.016	1.77	8.31	5.6	1	1.1	533	0.44	0.22	7.1	0.188	3.8
I038523		22.0	109.0	0.006	1.89	18.70	5.0	1	1.1	369	0.42	0.33	6.2	0.185	5.1
I038524		16.4	138.5	0.005	2.01	4.53	5.4	1	1.3	415	0.41	0.17	6.4	0.189	3.4
I038525		17.2	154.0	0.004	2.13	6.29	5.4	1	1.5	484	0.34	0.22	6.7	0.159	2.8
I038526		14.2	151.5	0.006	1.81	19.70	5.4	1	1.6	371	0.39	0.18	7.1	0.170	4.8
I038527		16.7	142.0	0.011	1.94	2.74	5.0	1	1.2	471	0.38	0.10	6.6	0.176	3.6
I038528		18.4	122.5	0.007	1.83	3.42	4.8	1	1.1	531	0.42	0.19	6.0	0.181	4.2
I038529		12.3	121.5	0.006	2.07	7.86	4.9	1	1.2	312	0.33	0.90	5.9	0.146	4.0
I038530		14.8	103.5	0.007	1.30	4.22	5.1	<1	1.2	497	0.43	0.30	6.4	0.188	3.4
I038531		14.6	113.0	0.004	1.36	5.73	5.4	1	1.2	512	0.49	0.40	6.4	0.198	3.9
I038532		11.4	148.5	0.005	3.60	6.29	5.2	2	1.9	365	0.34	0.36	6.8	0.148	3.6
I038533		966	193.5	0.008	2.63	372	4.7	1	2.3	237	0.31	0.19	6.6	0.142	2.5
I038534		100.5	129.5	0.005	2.11	11.60	5.4	1	2.0	532	0.37	0.24	6.1	0.171	3.6
I038535		17.3	118.5	0.009	1.80	3.39	5.6	2	1.7	663	0.45	0.20	8.0	0.208	4.0
I038536		14.7	97.1	0.006	1.69	4.08	6.7	2	1.7	723	0.48	0.15	8.8	0.228	4.6
I038537		10.3	82.4	0.005	2.05	1.96	7.7	2	2.3	803	0.48	0.22	9.2	0.261	4.2
I038538		41.1	145.5	0.004	2.08	25.9	5.1	2	2.1	631	0.47	0.22	6.4	0.216	4.1
I038539		20.2	145.5	0.004	1.97	3.49	5.0	2	2.0	675	0.44	0.14	6.6	0.204	4.6
I038540		16.6	147.0	0.012	1.83	4.00	5.2	2	3.1	525	0.44	0.13	6.6	0.194	4.5
I038541		20.4	158.0	0.011	1.64	2.11	5.3	2	2.8	616	0.49	0.12	6.8	0.207	4.1
I038542		21.4	128.0	0.008	1.74	2.82	4.9	2	2.1	559	0.46	0.13	6.2	0.204	3.8
I038543		13.5	147.5	0.007	2.25	3.95	4.9	2	3.0	422	0.42	0.20	6.3	0.189	2.8
I038544		14.9	132.5	0.006	1.97	12.20	5.2	2	2.1	414	0.44	0.08	5.9	0.179	3.6
I038545		105.5	154.0	0.005	2.70	59.9	3.7	2	2.3	429	0.41	0.15	6.3	0.187	3.9
I038546		15.9	157.5	0.004	2.26	4.70	5.8	2	2.2	487	0.45	0.16	6.4	0.203	3.5

Comments: There are 63 samples not 62. Miscount on Submittal form.

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

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
I038507		42	8.4	7.6	203	28.7
I038508		45	10.1	7.7	192	29.2
I038509		48	7.9	9.1	36	31.4
I038510		45	7.1	8.4	32	29.0
I038511		44	8.0	9.8	81	29.4
I038512		44	9.6	8.6	33	30.1
I038513		43	8.3	8.5	37	29.3
I038514		318	28.3	24.6	426	45.6
I038515		3	0.1	0.8	19	<0.5
I038516		42	8.4	8.8	30	28.9
I038517		43	8.5	8.6	456	26.7
I038518		43	8.5	7.6	37	28.5
I038519		44	8.8	7.8	33	29.8
I038520		48	10.4	7.4	30	29.7
I038521		44	7.2	7.7	194	28.0
I038522		45	5.5	8.6	34	29.1
I038523		42	5.4	10.1	31	26.0
I038524		46	7.1	9.5	29	28.2
I038525		45	5.9	8.6	31	29.8
I038526		45	7.5	8.6	28	28.2
I038527		43	4.7	8.1	30	28.3
I038528		43	8.4	8.4	37	26.5
I038529		41	5.0	8.0	28	25.9
I038530		46	3.3	8.2	33	27.9
I038531		46	4.5	8.2	30	29.1
I038532		42	5.8	7.8	24	26.4
I038533		42	5.4	7.4	530	24.3
I038534		47	6.2	7.6	115	28.2
I038535		48	5.8	10.2	43	32.2
I038536		52	5.0	11.7	36	40.5
I038537		62	3.0	12.7	55	51.7
I038538		51	8.3	8.3	46	38.7
I038539		48	8.9	7.1	42	36.8
I038540		46	12.7	8.9	36	34.4
I038541		48	23.0	9.6	39	36.8
I038542		47	10.5	8.8	44	34.6
I038543		44	9.2	9.4	32	33.4
I038544		45	11.9	8.0	28	34.3
I038545		45	7.2	8.6	279	34.7
I038546		51	13.0	9.0	30	35.8

Comments: There are 63 samples not 62. Miscount on Submittal form.

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ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

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
I038547		3.99	0.101	0.29	7.38	9.5	1140	1.43	1.58	1.73	0.43	42.1	5.9	13	4.65	147.0
I038548		1.72	0.064	0.39	6.87	111.5	510	1.48	1.52	1.82	0.99	29.8	7.7	11	5.91	74.7
I038549		1.81	0.055	0.33	6.88	64.2	330	1.52	1.72	1.87	0.34	28.7	8.5	12	5.95	57.1
I038550		0.06	1.150	0.46	2.45	272	160	1.03	7.23	17.70	2.36	32.0	4.9	46	7.37	75.2
I038551		1.39	0.002	0.01	0.15	<5	40	0.12	0.08	20.4	0.07	1.55	1.1	1	2.09	1.9
I038552		4.77	0.103	0.14	7.05	11.4	1500	1.48	1.02	1.79	0.29	41.7	4.4	13	6.15	135.0
I038553		3.94	0.048	0.16	6.83	15.8	800	1.43	1.52	2.04	0.35	25.9	4.6	15	5.62	39.2
I038554		4.12	0.038	0.31	6.86	21.7	340	1.32	1.98	2.70	0.31	23.8	7.3	13	8.59	21.5
I038555		3.63	0.070	0.23	6.87	9.1	610	1.34	0.88	1.73	0.21	35.4	4.8	12	5.69	294
I038556		4.23	0.051	0.07	7.18	17.5	610	1.29	1.14	1.27	0.23	37.6	5.4	12	5.48	23.2
I038557		3.59	0.050	0.16	6.99	29.5	1140	1.38	1.44	1.94	0.27	26.5	4.4	12	4.99	40.0
I038558		3.47	0.047	0.16	7.59	30.5	920	1.45	1.52	1.50	0.26	40.8	6.2	14	5.59	101.0
I038559		3.17	0.053	0.32	7.28	66.2	700	1.49	1.52	1.46	0.26	32.9	7.9	13	7.66	110.5
I038560		4.32	0.061	0.27	7.34	46.0	960	1.67	1.39	1.48	0.31	37.6	7.0	13	5.99	104.0
I038561		3.60	0.050	0.31	6.70	62.3	710	1.42	2.16	1.84	0.30	28.1	8.2	49	5.09	97.2
I038562		3.97	0.046	0.12	7.24	42.2	1110	1.56	2.30	1.52	0.20	52.1	7.0	13	4.78	44.4
I038563		4.03	0.052	0.17	7.16	29.8	600	1.50	1.82	1.25	0.24	35.8	7.1	12	5.24	87.0
I038564		3.62	0.051	0.14	6.74	47.2	540	1.45	1.33	1.33	0.22	29.6	7.6	12	6.16	38.9
I038565		4.40	0.056	0.09	7.29	19.0	1150	1.56	1.35	1.27	0.26	37.3	6.0	14	3.77	45.0
I038566		3.95	0.073	0.10	7.44	29.5	880	1.50	1.65	1.36	0.26	40.1	7.5	13	4.34	43.1
I038567		4.15	0.075	0.17	7.25	43.2	1030	1.52	1.77	1.19	0.27	50.5	7.8	13	5.47	53.2
I038568		4.54	0.054	0.06	7.10	19.4	1260	1.49	1.46	1.07	0.20	47.7	6.8	13	4.36	24.4
I038569		1.74	0.073	0.07	7.31	35.8	570	1.47	2.07	1.37	0.22	46.2	8.2	11	4.33	33.4

Comments: There are 63 samples not 62. Miscount on Submittal form.

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

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
I038547		2.55	18.00	0.14	1.4	0.033	4.44	21.3	10.4	0.70	90	11.45	1.71	6.7	4.2	560
I038548		3.02	17.55	0.14	1.3	0.015	3.91	13.5	11.0	0.69	106	21.4	1.48	6.0	4.3	520
I038549		3.87	18.05	0.17	1.3	0.013	3.85	12.7	11.3	0.72	106	21.9	1.49	5.9	4.3	510
I038550		2.66	9.45	0.12	1.5	0.760	0.76	22.7	13.7	3.57	1720	76.6	0.01	6.0	77.7	1170
I038551		0.44	0.56	0.15	<0.1	<0.005	0.10	0.8	2.3	12.90	203	0.42	0.01	0.7	2.2	180
I038552		1.87	17.75	0.15	1.4	0.027	4.37	21.2	9.3	0.69	94	15.10	1.80	6.8	4.1	550
I038553		2.52	18.25	0.14	1.4	0.014	4.32	12.4	10.0	0.60	90	14.25	1.64	6.6	4.0	540
I038554		3.57	16.45	0.13	1.4	0.009	4.13	11.7	9.1	0.71	126	11.70	1.00	4.8	4.1	530
I038555		2.33	17.05	0.14	1.3	0.038	4.47	17.9	17.1	0.67	85	9.52	1.63	6.4	3.2	510
I038556		2.47	15.80	0.13	1.4	0.006	4.64	20.2	12.4	0.65	75	9.54	1.77	5.7	4.0	530
I038557		2.19	16.85	0.12	1.4	0.010	4.56	12.3	7.5	0.61	100	15.35	1.81	5.6	3.7	550
I038558		2.53	17.50	0.13	1.4	0.015	4.69	21.5	9.5	0.71	86	18.10	1.98	5.7	4.0	560
I038559		2.68	17.05	0.12	1.4	0.019	4.11	18.4	10.9	0.62	89	11.85	1.83	5.5	4.4	550
I038560		2.58	18.05	0.14	1.5	0.023	4.21	20.6	14.5	0.68	75	8.68	2.12	6.1	4.5	550
I038561		2.78	17.70	0.13	1.8	0.034	4.01	13.3	18.1	1.11	108	64.7	1.69	6.1	17.7	580
I038562		2.43	18.05	0.15	1.4	0.012	4.48	27.0	10.1	0.65	83	5.58	2.02	5.9	4.7	560
I038563		2.61	16.45	0.12	1.3	0.016	4.42	20.1	14.4	0.54	71	11.25	1.66	4.8	4.4	550
I038564		2.64	15.65	0.13	1.3	0.005	4.00	14.9	9.0	0.58	88	29.4	1.57	4.7	4.3	500
I038565		2.25	18.10	0.14	1.4	0.010	4.40	19.0	12.3	0.70	74	10.30	2.07	5.7	4.1	560
I038566		2.50	18.75	0.15	1.5	0.008	4.74	19.8	9.8	0.66	81	8.76	1.87	5.8	4.6	550
I038567		2.36	17.85	0.16	1.4	0.010	4.69	25.1	6.9	0.66	80	11.70	1.74	5.7	4.4	540
I038568		2.08	17.95	0.14	1.4	0.007	4.83	25.3	6.3	0.61	71	23.8	1.77	5.4	4.2	530
I038569		2.56	17.60	0.15	1.4	0.009	4.25	23.2	5.1	0.52	70	12.80	1.67	5.6	4.5	540

Comments: There are 63 samples not 62. Miscount on Submittal form.

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

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 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
I038547		17.0	150.0	0.008	2.35	6.33	5.1	2	2.3	451	0.44	0.30	6.7	0.195	1.09	3.8
I038548		32.8	153.5	0.015	3.10	17.05	4.6	3	2.3	392	0.40	0.36	5.7	0.173	1.10	3.1
I038549		16.8	153.5	0.015	4.10	9.47	4.8	4	2.5	396	0.39	0.48	5.8	0.168	1.09	3.4
I038550		18.5	66.7	0.057	0.99	13.15	3.9	5	5.9	223	0.35	0.39	4.2	0.130	1.56	15.8
I038551		1.4	10.3	0.002	0.01	0.14	0.2	1	0.3	53.4	<0.05	<0.05	<0.2	0.006	0.06	0.5
I038552		13.5	145.5	0.011	1.74	5.48	4.8	2	2.2	520	0.45	0.11	6.0	0.198	1.07	2.9
I038553		15.9	142.5	0.006	2.77	5.86	5.3	3	2.6	581	0.44	0.19	5.6	0.193	1.05	3.5
I038554		13.9	149.0	0.006	3.91	8.22	4.4	3	2.7	341	0.32	0.48	5.7	0.154	1.04	4.0
I038555		11.8	140.0	0.005	2.41	20.0	4.8	2	2.2	455	0.42	0.10	5.8	0.186	1.08	3.2
I038556		14.8	148.5	0.006	2.53	2.88	5.1	3	1.4	519	0.37	0.17	6.8	0.180	1.07	5.1
I038557		15.9	152.5	0.005	2.28	3.99	5.0	3	1.7	445	0.38	0.28	5.6	0.176	1.13	3.2
I038558		15.7	149.5	0.006	2.53	10.10	5.2	3	1.5	510	0.40	0.24	6.9	0.180	1.13	4.0
I038559		14.8	144.0	0.005	2.71	6.65	4.9	3	1.5	461	0.36	0.27	6.7	0.177	1.12	4.3
I038560		14.4	162.5	0.004	2.51	4.47	5.5	3	1.9	519	0.41	0.30	7.1	0.188	1.04	4.3
I038561		9.8	145.0	0.032	2.75	4.98	6.6	3	3.0	488	0.38	0.57	5.4	0.209	1.05	3.4
I038562		12.2	150.5	0.002	2.52	4.59	5.2	2	2.0	522	0.39	0.59	6.7	0.182	1.11	4.6
I038563		13.4	144.5	0.004	2.68	5.26	5.1	2	1.4	467	0.32	0.37	6.9	0.150	1.00	6.4
I038564		14.2	131.5	0.024	2.73	4.17	4.7	2	1.2	448	0.32	0.21	6.1	0.153	1.08	3.1
I038565		16.0	141.0	0.005	2.25	2.07	5.4	2	1.3	498	0.39	0.24	6.6	0.182	1.06	3.6
I038566		16.5	160.5	0.004	2.54	4.55	5.5	2	1.5	480	0.40	0.26	7.1	0.181	1.12	3.6
I038567		16.3	158.0	0.004	2.38	10.55	5.4	2	1.2	482	0.40	0.24	7.2	0.179	1.14	4.4
I038568		16.5	161.0	0.007	2.02	1.95	5.2	2	1.2	497	0.37	0.28	7.1	0.174	1.14	4.4
I038569		15.9	136.0	0.006	2.59	1.30	5.2	3	1.5	495	0.38	0.48	6.5	0.172	1.22	3.6

Comments: There are 63 samples not 62. Miscount on Submittal form.

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

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
I038547		49	6.4	9.7	29	36.1
I038548		44	7.3	7.2	69	33.6
I038549		45	7.4	7.1	31	34.2
I038550		338	29.5	23.3	456	52.9
I038551		3	0.2	1.0	17	0.5
I038552		45	4.7	7.3	36	35.8
I038553		44	5.8	7.1	34	35.7
I038554		44	10.4	6.8	28	38.7
I038555		45	5.9	8.2	24	33.3
I038556		46	7.3	8.5	26	34.8
I038557		45	7.3	7.2	27	34.7
I038558		47	7.5	7.2	26	35.3
I038559		45	5.3	6.0	24	34.9
I038560		46	5.1	8.8	26	37.0
I038561		59	5.4	7.6	33	53.1
I038562		44	5.4	5.6	19	37.0
I038563		44	8.6	6.1	23	34.2
I038564		41	8.6	7.6	22	31.5
I038565		46	5.8	8.6	26	35.8
I038566		46	6.7	8.8	25	36.9
I038567		47	9.5	8.4	26	35.5
I038568		45	8.1	7.0	24	33.9
I038569		42	8.2	6.7	21	34.2

Comments: There are 63 samples not 62. Miscount on Submittal form.

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Total # Appendix Pages: 1  
Finalized Date: 17-AUG-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11134759**

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.