ALS Canada Ltd.

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

To: **OSISKO MINING LTD.**
P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

Finalized Date: 27-MAR-2014
Account: OSIKLI

CERTIFICATE VO14042594

Project: MU

P.O. No.: KL 000347

This report is for 51 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

MIKE FELL	ANDREW STOKES	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **OSISKO MINING LTD.**
ATTN: ANDREW STOKES
P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

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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Finalized Date: 27-MAR-2014
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CERTIFICATE OF ANALYSIS VO14042594

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
H406551		0.9	6.07	59	2130	1.4	<2	1.24	<0.5	5	61	333	1.81	30	4.02	70
H406552		1.2	6.45	48	1760	2.8	<2	0.69	<0.5	4	17	160	1.94	40	4.40	210
H406553		1.3	6.74	43	990	2.0	<2	1.34	<0.5	4	19	305	2.09	30	4.40	220
H406554		1.1	5.83	43	870	2.8	3	1.91	<0.5	3	20	192	1.85	30	4.28	150
H406555		0.7	6.32	32	930	1.9	<2	1.73	<0.5	2	22	176	1.73	30	4.71	120
H406556		0.8	6.28	34	630	1.6	<2	1.38	<0.5	3	21	278	1.82	30	4.26	100
H406557		0.6	6.45	32	850	1.3	<2	1.71	<0.5	3	16	206	1.94	30	4.22	100
H406558		0.6	6.59	59	900	1.7	2	3.18	<0.5	8	118	130	2.76	30	4.89	150
H406559		0.6	6.21	37	1070	1.9	<2	2.62	<0.5	5	46	197	2.10	30	4.34	590
H406560		0.8	7.11	59	1620	1.7	<2	2.33	<0.5	3	18	179	2.18	30	4.97	100
H406561		1.1	6.75	47	1610	2.2	<2	2.92	<0.5	4	27	197	2.26	30	4.47	140
H406562		0.7	6.54	31	850	2.0	3	1.82	<0.5	4	23	240	2.00	30	4.54	100
H406563		0.7	6.38	24	950	1.4	<2	1.85	<0.5	3	19	327	1.90	30	4.57	210
H406564		0.8	6.42	27	930	1.9	<2	1.66	<0.5	4	19	375	1.81	30	4.25	80
H406565		0.7	6.85	37	770	1.2	2	1.81	<0.5	3	21	217	2.10	30	4.91	120
H406566		2.3	7.27	29	910	1.4	3	1.25	<0.5	5	19	198	1.95	30	4.35	80
H406567		0.8	7.21	33	1030	1.2	2	1.65	<0.5	3	18	149	1.98	30	4.52	150
H406568		0.9	7.16	35	1010	1.0	<2	1.48	<0.5	4	22	144	1.98	30	4.39	90
H406569		1.0	7.47	34	1060	1.6	<2	1.43	<0.5	3	21	136	2.00	30	4.38	110
H406570		0.6	7.33	37	970	1.5	2	1.47	<0.5	3	20	251	2.05	30	4.48	100
H406571		0.9	7.24	39	870	2.2	3	1.69	<0.5	3	18	235	2.14	30	4.34	140
H406572		0.6	7.11	41	670	1.6	<2	1.70	<0.5	3	21	181	2.49	30	5.01	220
H406573		1.1	6.66	42	800	3.5	<2	1.80	<0.5	5	22	325	2.05	30	4.45	250
H406574		0.9	5.43	32	800	2.0	<2	1.53	<0.5	3	29	214	1.68	20	4.38	120
H406575		<0.5	0.36	<5	20	<0.5	<2	35.6	<0.5	<1	4	9	0.38	<10	0.21	<10
H406576		0.9	7.98	98	140	4.4	5	2.38	<0.5	19	69	88	5.69	20	3.78	10
H406577		1.2	5.79	33	970	2.0	<2	1.47	<0.5	2	29	200	1.50	20	4.19	90
H406578		1.6	6.36	42	800	3.3	<2	1.46	<0.5	4	26	421	1.90	30	4.83	260
H406579		1.4	6.28	32	1050	2.6	<2	1.36	<0.5	3	26	342	1.72	30	4.33	90
H406580		<0.5	6.37	33	1420	1.4	<2	1.98	<0.5	4	30	263	1.94	30	4.38	60
H406581		<0.5	6.53	61	1130	1.4	<2	3.64	<0.5	8	73	119	3.34	20	4.67	140
H406582		0.5	6.46	60	610	1.5	<2	3.87	<0.5	11	100	174	3.84	20	4.91	140
H406583		0.6	6.55	43	1260	1.3	<2	3.44	<0.5	9	71	251	3.18	20	4.50	120
H406584		0.9	7.56	33	2150	1.1	<2	1.66	<0.5	2	18	194	1.86	20	4.89	180
H406585		1.4	6.68	36	1100	1.6	2	1.98	<0.5	6	37	381	2.40	30	4.30	120
H406586		1.1	6.73	35	780	1.6	3	1.97	<0.5	4	33	303	2.29	30	4.92	170
H406587		2.0	6.66	39	770	1.8	6	1.91	<0.5	7	31	443	2.36	30	4.68	230
H406588		0.8	6.56	40	1130	2.1	4	1.73	<0.5	6	28	232	1.98	30	4.44	140
H406589		1.9	6.29	42	640	2.3	3	1.94	<0.5	5	25	231	2.28	30	4.64	310
H406590		1.0	6.53	45	880	2.2	4	1.51	<0.5	5	23	137	1.63	30	4.81	150

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Finalized Date: 27-MAR-2014
Account: OSIKLI

Project: MU

CERTIFICATE OF ANALYSIS VO14042594

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10
H406551		0.43	637	75	0.15	26	1290	243	0.90	34	2	1575	30	0.19	<10	<10
H406552		0.13	609	114	0.17	13	2010	334	0.74	8	4	895	80	0.22	10	<10
H406553		0.39	844	117	0.20	12	1730	317	1.29	<5	4	2730	50	0.25	<10	<10
H406554		0.62	888	200	0.17	12	1880	236	1.13	6	4	4090	60	0.27	10	<10
H406555		0.56	790	191	0.18	8	1590	204	1.16	<5	3	4990	50	0.22	10	<10
H406556		0.47	684	216	0.18	8	990	247	1.44	<5	2	5040	40	0.21	<10	<10
H406557		0.54	763	61	0.19	8	1490	189	1.52	8	2	4860	40	0.25	10	<10
H406558		1.41	1150	22	0.15	63	890	207	1.68	7	4	6240	50	0.32	<10	<10
H406559		0.99	952	16	0.13	26	1740	233	1.40	9	3	9410	80	0.27	<10	<10
H406560		0.81	874	6	0.16	11	1640	334	1.46	8	2	4340	30	0.31	10	<10
H406561		1.06	1105	38	0.14	16	1910	248	1.44	9	4	6400	50	0.32	10	<10
H406562		0.55	830	82	0.14	10	1980	241	1.57	9	2	4430	50	0.24	10	<10
H406563		0.62	803	129	0.12	11	1800	254	1.38	14	2	3590	50	0.24	<10	<10
H406564		0.43	639	157	0.14	8	2830	236	1.46	10	2	3750	40	0.20	10	<10
H406565		0.55	817	121	0.13	10	2120	244	1.71	8	2	3450	40	0.23	10	<10
H406566		0.39	579	763	0.13	10	1200	230	1.70	8	1	3470	30	0.23	<10	<10
H406567		0.54	763	126	0.13	11	1530	238	1.62	9	2	4230	40	0.24	<10	<10
H406568		0.52	734	126	0.13	9	1100	204	1.59	7	2	3780	30	0.21	10	<10
H406569		0.49	746	150	0.17	10	970	187	1.64	13	2	4320	40	0.23	10	<10
H406570		0.49	742	73	0.19	10	1060	184	1.69	12	1	4240	30	0.23	<10	<10
H406571		0.53	834	179	0.22	11	1810	249	1.84	16	2	5190	50	0.26	10	<10
H406572		0.56	848	53	0.21	13	1370	236	2.09	22	2	4490	60	0.27	10	<10
H406573		0.57	840	45	0.19	14	1980	342	1.72	26	2	8230	110	0.24	<10	<10
H406574		0.49	688	51	0.15	8	1520	225	1.27	12	2	5930	70	0.19	<10	<10
H406575		0.47	316	<1	0.02	9	220	2	0.16	<5	1	436	<20	0.02	<10	<10
H406576		1.80	451	<1	3.59	77	1000	65	3.11	<5	5	325	<20	0.55	10	<10
H406577		0.41	607	31	0.17	7	1400	219	1.12	10	1	5260	40	0.18	<10	<10
H406578		0.44	677	51	0.15	8	1550	195	1.50	13	2	7500	70	0.23	<10	<10
H406579		0.40	633	110	0.15	5	1410	179	1.28	8	1	4540	40	0.21	10	<10
H406580		0.64	809	23	0.16	10	1650	147	1.33	5	2	3630	30	0.20	<10	<10
H406581		1.42	1410	3	0.13	32	3360	199	1.64	9	7	5040	70	0.28	<10	<10
H406582		1.62	1590	28	0.11	39	2330	134	2.05	8	8	5360	70	0.30	10	<10
H406583		1.43	1425	72	0.12	33	1770	156	1.53	5	6	4820	50	0.24	10	<10
H406584		0.64	787	42	0.14	11	940	232	1.14	6	2	4440	70	0.16	<10	<10
H406585		0.67	945	191	0.13	15	1600	206	1.76	7	2	4680	50	0.27	10	<10
H406586		0.68	894	110	0.12	14	1740	255	1.77	8	2	5050	60	0.25	10	<10
H406587		0.62	906	155	0.13	14	2050	487	1.86	5	2	5480	70	0.28	10	<10
H406588		0.58	841	114	0.15	13	1400	268	1.47	11	2	4330	40	0.26	<10	<10
H406589		0.63	916	207	0.14	14	2100	467	1.87	10	2	6710	120	0.30	10	<10
H406590		0.47	661	156	0.14	9	1660	313	1.23	<5	1	4750	50	0.19	<10	<10

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

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KIRKLAND LAKE ON P2N 3L1

Finalized Date: 27-MAR-2014
Account: OSIKLI

Project: MU

CERTIFICATE OF ANALYSIS VO14042594

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
H406551		86	40	139
H406552		78	60	106
H406553		81	50	122
H406554		88	60	119
H406555		72	40	136
H406556		65	50	199
H406557		82	40	139
H406558		155	60	176
H406559		129	40	102
H406560		134	70	101
H406561		130	50	140
H406562		89	50	220
H406563		86	50	183
H406564		78	50	273
H406565		88	60	281
H406566		85	60	259
H406567		87	60	218
H406568		80	50	276
H406569		84	50	199
H406570		85	50	184
H406571		103	70	280
H406572		101	70	149
H406573		95	60	238
H406574		69	40	170
H406575		6	<10	12
H406576		71	<10	101
H406577		61	30	177
H406578		74	30	184
H406579		65	20	165
H406580		78	40	170
H406581		266	90	175
H406582		204	80	142
H406583		176	60	159
H406584		87	40	145
H406585		101	60	120
H406586		91	70	234
H406587		93	70	367
H406588		86	70	214
H406589		100	80	185
H406590		72	60	182

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Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
H406591		0.5	5.54	32	1080	1.4	<2	2.67	<0.5	4	43	155	2.07	20	4.62	140
H406592		0.8	4.41	26	270	1.8	<2	3.17	<0.5	8	57	232	2.53	20	4.35	400
H406593		1.4	6.47	38	810	2.0	3	2.80	<0.5	6	30	200	2.38	30	4.92	320
H406594		1.6	6.51	47	820	2.4	4	1.77	<0.5	4	30	213	2.05	30	4.92	290
H406595		0.8	6.38	44	730	1.8	<2	1.87	<0.5	5	26	164	2.08	30	4.82	120
H406596		<0.5	4.40	79	180	2.2	<2	6.35	<0.5	22	160	241	4.95	20	4.65	100
H406597		0.5	4.26	62	250	1.9	<2	6.13	<0.5	18	141	232	4.50	20	5.51	80
H406598		0.9	6.10	63	270	1.8	2	3.12	<0.5	10	62	326	3.31	20	4.82	120
H406599		1.1	6.08	64	400	1.8	<2	2.86	<0.5	10	56	149	3.06	30	4.85	230
H406600		<0.5	0.40	5	30	<0.5	<2	34.6	<0.5	<1	5	4	0.40	<10	0.23	<10
H406601		<0.5	8.02	<5	150	3.8	<2	2.58	<0.5	21	81	42	3.53	20	4.39	10

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Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10
H406591		1.07	1030	64	0.10	11	1350	265	1.28	9	4	5690	50	0.22	<10	<10
H406592		1.24	1070	57	0.08	21	2240	251	1.82	<5	6	9800	110	0.19	10	<10
H406593		1.04	1195	341	0.14	15	2080	438	1.68	5	4	7180	130	0.27	<10	<10
H406594		0.59	853	289	0.16	14	1620	435	1.58	9	2	3630	60	0.25	<10	<10
H406595		0.61	793	165	0.17	12	1830	234	1.65	10	2	5220	50	0.23	10	<10
H406596		2.86	1795	112	0.09	52	2240	226	2.86	8	19	7170	50	0.31	10	10
H406597		2.68	1700	149	0.10	53	2490	216	2.63	9	15	6910	40	0.29	10	<10
H406598		1.18	1205	153	0.16	27	2500	235	2.59	11	5	8560	60	0.30	10	<10
H406599		1.12	1005	216	0.17	22	1800	346	2.33	7	6	6180	70	0.29	10	<10
H406600		0.49	317	1	0.02	7	210	3	0.18	<5	1	448	<20	0.02	<10	10
H406601		2.04	506	<1	3.43	89	1120	41	0.01	<5	6	351	<20	0.62	10	<10

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Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
H406591		104	60	204
H406592		110	50	160
H406593		112	80	175
H406594		95	60	125
H406595		84	50	205
H406596		455	90	128
H406597		375	70	197
H406598		207	90	234
H406599		176	70	189
H406600		7	<10	27
H406601		80	<10	45

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CERTIFICATE OF ANALYSIS VO14042594

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
FND-02

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-ICP61