



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

To: KAMINAK GOLD CORPORATION  
1020 - 800 WEST PENDER STREET  
VANCOUVER BC V6C 2V6

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Plus Appendix Pages  
Finalized Date: 19-DEC-2014  
Account: KAMGOL

**CERTIFICATE WH14190544**

Project: Coffee

P.O. No.: KGC-14-1439

This report is for 99 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 9-DEC-2014.

The following have access to data associated with this certificate:

TOM BOKENFOHR  
TIM SMITH

ERIC BUITENHUIS

JAMES SCOTT

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: KAMINAK GOLD CORPORATION  
ATTN: TIM SMITH  
1020 - 800 WEST PENDER STREET  
VANCOUVER BC V6C 2V6

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 WH14190544**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
R512738		<0.2	1.51	78	<10	190	0.6	<2	0.52	<0.5	12	49	10	2.50	10
R512739		<0.2	1.92	49	<10	580	0.7	<2	0.73	<0.5	12	31	9	3.31	10
R512741		<0.2	1.73	35	<10	690	1.0	<2	3.02	<0.5	14	9	10	4.21	10
R512742		<0.2	1.94	149	<10	560	1.2	<2	2.61	<0.5	18	6	13	4.83	10
R512743		<0.2	1.52	195	<10	260	1.0	<2	0.55	<0.5	9	5	5	2.30	<10
R512744		<0.2	0.98	22	<10	170	0.5	2	0.87	<0.5	5	10	3	1.37	<10
R512745		<0.2	0.91	13	<10	90	<0.5	<2	0.72	<0.5	5	9	28	1.27	<10
R512746		<0.2	1.46	16	<10	230	0.8	<2	0.80	<0.5	9	14	15	2.01	<10
R512747		<0.2	2.30	19	<10	370	1.2	<2	1.46	<0.5	15	29	16	3.51	10
R512748		<0.2	1.51	6	<10	250	0.6	3	1.31	<0.5	10	11	11	2.07	10
R512749		<0.2	1.01	4	<10	160	<0.5	<2	0.88	<0.5	4	10	9	1.19	<10
R512751		<0.2	1.56	6	<10	340	0.5	<2	1.50	<0.5	10	53	5	1.93	10
R512752		<0.2	2.22	19	<10	480	0.7	2	2.34	<0.5	22	158	25	3.48	10
R512753		<0.2	1.80	8	<10	350	0.6	<2	1.62	<0.5	12	99	8	2.22	10
R512754		<0.2	1.95	10	<10	330	0.8	<2	1.78	<0.5	14	57	8	2.72	10
R512755		<0.2	1.15	12	<10	190	0.5	<2	0.95	<0.5	6	28	4	1.39	<10
R512756		<0.2	1.78	13	<10	400	0.6	<2	1.01	<0.5	11	82	4	2.24	10
R512757		<0.2	2.66	19	<10	460	0.7	<2	1.86	<0.5	20	115	9	3.59	10
R512758		<0.2	2.49	11	<10	690	0.7	<2	2.73	<0.5	19	160	9	3.51	10
R512759		<0.2	2.38	60	<10	150	0.8	<2	1.15	<0.5	19	148	20	3.77	10
R512761		<0.2	2.14	7	<10	220	0.5	<2	1.87	<0.5	16	129	12	2.70	10
R512762		<0.2	1.87	11	<10	90	0.5	<2	1.72	<0.5	16	164	13	2.30	10
R512763		<0.2	2.04	15	<10	170	0.5	<2	2.43	<0.5	16	121	17	3.02	10
R512764		<0.2	1.68	33	<10	100	0.8	<2	5.28	<0.5	13	98	22	3.02	10
R512765		<0.2	1.74	7	<10	230	0.6	<2	2.15	<0.5	18	166	13	2.46	10
R512766		<0.2	2.35	9	<10	340	0.6	<2	1.99	<0.5	21	204	8	3.18	10
R512767		<0.2	1.48	12	<10	150	0.6	<2	1.70	<0.5	11	61	7	2.31	10
R512768		<0.2	1.86	21	<10	100	0.7	<2	2.00	<0.5	12	101	14	2.70	10
R512769		<0.2	1.00	17	<10	100	<0.5	<2	0.81	<0.5	6	55	8	1.55	<10
R512771		<0.2	1.96	16	<10	230	0.6	<2	2.13	<0.5	19	156	17	3.05	10
R512772		0.4	2.45	27	<10	240	0.9	<2	3.39	<0.5	25	186	55	3.84	10
R512773		<0.2	2.34	13	<10	170	0.5	<2	2.14	<0.5	22	210	18	3.30	10
R512774		<0.2	2.10	8	<10	420	0.6	<2	2.19	<0.5	13	119	16	2.91	10
R512775		<0.2	2.94	10	<10	310	0.6	<2	1.63	<0.5	21	252	12	3.97	10
R512776		<0.2	2.88	10	<10	220	0.7	<2	3.16	<0.5	22	262	9	3.63	10
R512777		<0.2	2.89	18	<10	270	0.7	<2	2.07	<0.5	21	273	8	3.67	10
R512778		<0.2	1.93	34	<10	360	0.6	<2	1.46	<0.5	11	81	12	2.89	10
R512779		<0.2	1.84	527	<10	410	0.9	<2	2.30	<0.5	17	150	10	2.63	<10
R512781		<0.2	1.88	15	<10	240	0.7	<2	4.13	<0.5	19	175	9	2.52	10
R512782		<0.2	1.76	7	<10	440	0.6	<2	4.79	<0.5	19	242	5	2.77	10



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Project: Coffee

**CERTIFICATE OF ANALYSIS WH14190544**

Sample Description	Method Analyte Units LOR	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
R512738		0.32	20	0.73	485	1	0.06	22	440	7	<0.01	5	4	36	<20	0.10
R512739		0.45	20	0.98	651	1	0.05	16	850	8	0.01	4	5	37	<20	0.05
R512741		0.38	30	0.68	756	1	0.02	5	1320	9	0.05	<2	6	54	<20	0.02
R512742		0.44	20	0.63	885	<1	0.01	3	1560	11	0.11	3	7	42	<20	0.01
R512743		0.31	30	0.30	430	1	<0.01	5	810	12	<0.01	9	5	13	20	0.01
R512744		0.37	30	0.38	272	1	0.06	7	360	5	<0.01	3	2	42	20	0.03
R512745		0.40	30	0.50	271	1	0.04	6	360	5	<0.01	<2	2	72	20	0.06
R512746		0.94	40	0.78	518	1	0.06	6	620	14	<0.01	<2	4	25	20	0.09
R512747		1.51	30	1.78	772	1	0.05	11	930	9	<0.01	<2	8	57	20	0.19
R512748		0.99	40	0.90	392	1	0.06	7	510	4	<0.01	<2	3	36	20	0.12
R512749		0.61	30	0.44	247	1	0.06	5	310	6	<0.01	<2	2	25	20	0.06
R512751		0.91	20	1.16	417	1	0.08	19	450	2	<0.01	<2	3	31	<20	0.14
R512752		1.11	10	2.10	561	1	0.07	52	570	4	0.01	<2	4	36	<20	0.20
R512753		0.70	20	1.40	372	1	0.05	39	680	5	0.01	<2	2	80	<20	0.23
R512754		0.96	30	1.68	517	1	0.05	13	710	3	0.01	<2	3	54	20	0.14
R512755		0.56	30	0.74	296	1	0.05	6	290	<2	0.01	<2	2	33	20	0.05
R512756		0.99	40	1.38	454	1	0.06	24	740	3	<0.01	3	3	42	20	0.12
R512757		1.14	10	2.63	734	1	0.04	33	730	4	0.01	<2	4	64	<20	0.25
R512758		1.14	20	2.31	703	1	0.06	41	810	6	0.01	<2	7	63	<20	0.19
R512759		0.37	20	2.37	715	<1	0.04	49	620	6	<0.01	5	9	37	<20	0.05
R512761		0.51	10	1.91	465	1	0.04	48	710	3	0.01	<2	4	86	<20	0.26
R512762		0.40	10	1.61	449	1	0.05	58	660	6	<0.01	2	4	75	<20	0.26
R512763		0.52	20	1.81	593	1	0.04	48	630	9	0.01	<2	5	79	<20	0.20
R512764		0.35	30	1.35	697	1	0.03	35	620	9	0.01	2	7	163	<20	0.05
R512765		0.97	10	1.57	422	1	0.06	91	670	18	0.01	<2	4	110	<20	0.27
R512766		1.20	10	2.37	541	1	0.06	118	700	17	0.02	<2	5	57	<20	0.26
R512767		0.62	30	1.14	391	2	0.07	14	540	33	0.07	<2	4	46	20	0.12
R512768		0.82	30	1.60	453	1	0.06	43	510	6	0.01	2	4	55	20	0.12
R512769		0.46	40	0.78	256	2	0.10	36	300	4	<0.01	2	2	29	30	0.07
R512771		0.90	10	1.89	481	1	0.06	72	720	28	0.01	<2	5	71	<20	0.26
R512772		1.29	10	2.51	604	1	0.04	78	640	37	0.06	<2	7	116	<20	0.21
R512773		0.89	10	2.58	396	1	0.06	149	570	6	0.02	<2	7	98	<20	0.26
R512774		0.81	20	1.86	564	1	0.05	43	690	11	0.02	<2	6	143	<20	0.18
R512775		0.82	10	3.43	661	<1	0.05	87	720	8	<0.01	<2	10	55	<20	0.26
R512776		0.96	10	3.32	671	1	0.05	100	620	13	<0.01	<2	8	81	<20	0.25
R512777		0.89	10	3.36	733	1	0.05	96	690	8	<0.01	<2	9	66	<20	0.22
R512778		0.75	30	1.51	667	<1	0.05	23	780	5	0.01	<2	6	43	<20	0.09
R512779		0.27	10	1.52	648	1	0.03	41	470	7	0.01	<2	7	80	<20	0.09
R512781		0.37	10	2.33	599	1	0.05	42	480	2	0.07	2	8	90	<20	0.08
R512782		0.53	10	2.74	951	1	0.07	43	400	4	0.23	<2	9	98	<20	0.08



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**CERTIFICATE OF ANALYSIS WH14190544**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
R512738		<10	<10	40	<10	36
R512739		<10	<10	59	<10	55
R512741		<10	<10	79	<10	72
R512742		<10	<10	87	<10	81
R512743		<10	<10	37	<10	40
R512744		<10	<10	13	<10	19
R512745		<10	<10	12	<10	27
R512746		<10	<10	31	<10	42
R512747		<10	<10	82	<10	55
R512748		<10	<10	32	<10	28
R512749		<10	<10	10	<10	16
R512751		<10	<10	28	<10	30
R512752		<10	<10	52	<10	43
R512753		<10	<10	29	<10	35
R512754		<10	<10	51	<10	39
R512755		<10	<10	17	<10	19
R512756		<10	<10	38	<10	31
R512757		<10	<10	54	<10	59
R512758		<10	<10	73	<10	50
R512759		<10	<10	67	<10	61
R512761		<10	<10	46	<10	45
R512762		<10	<10	43	<10	38
R512763		<10	<10	46	<10	50
R512764		<10	<10	59	<10	41
R512765		<10	<10	48	<10	43
R512766		<10	<10	60	<10	60
R512767		<10	<10	44	<10	42
R512768		<10	<10	41	<10	44
R512769		<10	<10	22	<10	16
R512771		10	<10	60	<10	51
R512772		<10	<10	69	<10	70
R512773		<10	<10	68	<10	30
R512774		<10	<10	57	<10	45
R512775		<10	<10	77	<10	50
R512776		<10	<10	70	<10	54
R512777		<10	<10	69	<10	54
R512778		<10	<10	51	<10	53
R512779		<10	<10	43	<10	38
R512781		<10	<10	53	<10	39
R512782		<10	<10	61	<10	46



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
R512783		<0.2	2.64	14	10	770	0.8	<2	4.94	<0.5	23	121	10	4.63	10
R512784		<0.2	2.21	11	<10	720	0.9	<2	5.11	<0.5	21	146	14	3.57	10
R512785		<0.2	2.39	78	<10	550	1.4	<2	6.04	<0.5	22	185	9	3.67	10
R512786		<0.2	2.39	176	<10	470	1.5	<2	2.76	<0.5	18	107	12	3.96	10
R512787		<0.2	2.22	1115	10	310	2.2	<2	1.91	<0.5	23	144	4	4.37	10
R512788		0.5	1.11	3810	10	220	2.4	<2	2.17	3.4	28	106	36	5.52	<10
R512789		0.3	1.13	3740	10	280	2.1	<2	0.58	<0.5	25	55	19	5.17	<10
R512791		<0.2	0.97	3740	10	250	1.8	<2	2.28	<0.5	19	60	24	4.17	<10
R512792		<0.2	1.88	297	<10	570	1.4	<2	5.34	<0.5	20	136	12	4.07	10
R512793		<0.2	1.84	67	10	540	1.0	<2	4.86	<0.5	18	128	7	3.88	10
R512794		<0.2	0.90	567	10	140	1.0	2	5.00	<0.5	15	50	5	3.36	<10
R512795		<0.2	1.11	1880	10	200	1.4	2	5.31	<0.5	20	89	21	3.63	<10
R512796		0.4	0.57	3300	10	50	1.0	<2	2.23	<0.5	10	20	23	2.56	<10
R512797		<0.2	0.62	2510	10	90	1.0	3	0.89	<0.5	9	13	8	2.21	<10
R512798		<0.2	0.60	152	10	70	0.8	<2	3.62	<0.5	7	22	6	1.85	<10
R512799		<0.2	1.61	44	<10	190	1.2	<2	5.66	<0.5	17	109	10	3.86	10
R512801		<0.2	1.87	21	<10	370	1.1	<2	5.19	<0.5	21	147	9	4.01	10
R512802		<0.2	1.74	29	<10	190	1.2	2	3.30	<0.5	19	98	4	3.33	10
R512803		<0.2	1.20	51	<10	140	1.0	<2	3.02	<0.5	12	29	5	2.35	<10
R512804		<0.2	0.74	40	<10	240	0.7	2	1.27	<0.5	8	9	7	1.91	<10
R512805		<0.2	0.85	52	<10	150	0.7	<2	0.86	<0.5	6	7	3	1.78	<10
R512806		<0.2	0.90	49	<10	80	0.7	<2	1.49	<0.5	5	9	3	1.71	<10
R512807		<0.2	1.03	20	<10	120	0.6	<2	2.42	<0.5	5	6	2	1.34	<10
R512808		<0.2	0.83	97	<10	140	0.6	2	1.23	<0.5	9	7	4	1.51	<10
R512809		<0.2	1.07	110	<10	190	0.6	<2	1.78	<0.5	4	7	5	1.84	<10
R512811		<0.2	0.73	517	<10	160	0.7	2	2.19	<0.5	6	16	4	2.63	<10
R512812		<0.2	1.02	326	<10	100	0.7	<2	1.54	<0.5	10	11	7	2.36	<10
R512813		<0.2	1.15	141	<10	100	0.6	<2	0.76	<0.5	7	8	6	1.57	<10
R512814		<0.2	1.32	33	<10	200	0.7	<2	2.04	<0.5	6	7	2	1.69	<10
R512815		<0.2	1.11	38	<10	120	0.9	2	1.83	<0.5	8	6	11	1.71	<10
R512816		<0.2	1.22	103	<10	140	0.7	<2	0.98	<0.5	5	7	3	1.31	<10
R512817		<0.2	1.18	151	<10	120	0.7	<2	0.71	<0.5	5	11	2	1.54	<10
R512818		<0.2	1.15	166	<10	90	0.8	<2	3.18	<0.5	6	8	6	1.66	<10
R512819		<0.2	1.08	16	<10	100	0.8	<2	1.13	<0.5	5	8	4	1.64	<10
R512821		<0.2	1.14	15	<10	140	0.8	<2	0.81	<0.5	5	9	2	1.38	<10
R512822		<0.2	1.27	36	<10	110	0.8	<2	1.10	<0.5	5	8	3	1.43	<10
R512823		<0.2	1.25	45	<10	200	0.6	<2	1.84	<0.5	3	7	2	1.18	<10
R512824		<0.2	0.99	39	<10	320	0.6	<2	2.38	<0.5	5	8	4	1.57	<10
R512825		<0.2	1.17	20	<10	430	0.7	3	2.45	<0.5	6	11	5	1.78	<10
R512826		<0.2	1.08	19	<10	380	0.6	2	1.93	<0.5	4	8	4	1.65	<10



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Sample Description	Method Analyte Units LOR	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
R512783		0.74	20	2.75	922	<1	0.04	26	1160	9	0.30	2	15	103	<20	0.07
R512784		0.73	10	2.42	767	1	0.04	32	720	5	0.12	2	11	81	<20	0.07
R512785		0.94	10	1.69	963	1	0.03	44	430	11	0.01	5	11	60	<20	0.07
R512786		0.91	20	1.70	634	1	0.03	41	750	32	0.01	6	12	48	<20	0.10
R512787		0.81	30	1.13	994	1	0.02	76	790	72	<0.01	10	14	39	<20	0.04
R512788		0.47	30	0.31	1140	1	0.01	98	880	494	0.01	16	15	29	<20	<0.01
R512789		0.51	30	0.23	1510	1	<0.01	71	660	54	0.01	13	11	41	<20	<0.01
R512791		0.44	40	0.24	1060	1	0.01	55	790	175	0.02	10	9	37	<20	<0.01
R512792		0.85	20	2.58	1135	1	0.03	49	670	25	0.29	<2	12	125	<20	0.06
R512793		0.89	20	2.97	953	1	0.03	56	620	33	0.25	<2	12	118	<20	0.06
R512794		0.48	30	2.36	879	2	0.01	41	310	68	0.14	5	6	112	<20	0.01
R512795		0.48	30	1.37	1075	3	0.01	44	390	65	0.06	8	11	70	<20	0.01
R512796		0.29	20	1.00	582	2	<0.01	23	100	33	0.10	7	4	96	<20	<0.01
R512797		0.30	20	0.19	376	2	<0.01	14	150	22	0.02	6	4	31	<20	<0.01
R512798		0.28	10	0.65	375	3	0.01	10	180	23	0.06	4	3	38	20	<0.01
R512799		0.67	20	2.88	744	1	0.02	58	620	68	0.33	4	9	98	<20	0.05
R512801		0.93	20	3.16	758	2	0.03	81	630	14	0.45	<2	10	181	<20	0.07
R512802		0.70	30	1.92	548	2	0.03	49	530	14	0.29	2	8	117	<20	0.05
R512803		0.36	40	0.97	388	1	0.02	24	380	8	0.12	4	5	61	20	0.02
R512804		0.25	50	0.54	239	2	0.05	5	260	3	0.15	2	2	44	20	0.01
R512805		0.31	50	0.30	274	2	0.04	4	260	6	0.22	2	1	27	30	0.01
R512806		0.23	50	0.18	300	1	0.01	5	210	5	0.04	<2	2	33	30	<0.01
R512807		0.20	40	0.12	264	2	<0.01	2	160	3	0.02	<2	1	37	30	<0.01
R512808		0.17	40	0.06	308	1	<0.01	3	180	3	<0.01	3	2	34	20	<0.01
R512809		0.22	40	0.08	336	1	<0.01	3	170	3	<0.01	3	2	35	20	<0.01
R512811		0.14	40	0.11	436	1	<0.01	10	160	7	0.01	13	2	44	20	<0.01
R512812		0.24	60	0.10	370	1	<0.01	8	250	3	0.01	9	2	43	20	<0.01
R512813		0.20	50	0.10	304	1	<0.01	5	260	4	<0.01	4	3	46	20	<0.01
R512814		0.16	40	0.43	236	2	0.01	4	170	3	0.04	<2	3	56	20	<0.01
R512815		0.15	50	0.35	182	4	0.01	4	240	4	0.12	2	3	40	30	<0.01
R512816		0.21	30	0.09	297	1	0.01	5	110	4	0.01	5	2	43	20	<0.01
R512817		0.21	30	0.09	458	1	<0.01	6	70	3	<0.01	4	3	41	20	<0.01
R512818		0.19	30	0.10	304	1	<0.01	6	140	4	<0.01	4	2	49	20	<0.01
R512819		0.52	50	0.57	227	2	0.04	4	250	3	0.08	2	3	36	30	0.05
R512821		0.54	50	0.51	160	2	0.05	3	250	2	0.01	2	2	31	30	0.04
R512822		0.39	40	0.34	251	2	0.01	3	340	4	0.01	<2	3	28	30	0.02
R512823		0.11	30	0.57	229	2	0.01	3	90	3	0.02	<2	1	61	30	<0.01
R512824		0.17	30	0.75	306	3	0.01	3	90	4	0.03	<2	2	69	20	<0.01
R512825		0.27	50	0.74	392	3	0.01	5	280	6	0.26	<2	3	63	20	<0.01
R512826		0.21	50	0.59	292	2	0.01	4	260	7	0.13	2	2	50	30	<0.01



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
R512783		<10	<10	110	<10	79
R512784		<10	<10	79	<10	61
R512785		<10	<10	69	<10	63
R512786		<10	<10	76	<10	99
R512787		<10	<10	66	<10	142
R512788		<10	<10	60	<10	466
R512789		<10	<10	40	<10	107
R512791		<10	10	33	<10	187
R512792		<10	<10	62	<10	73
R512793		<10	<10	69	<10	71
R512794		<10	<10	28	<10	95
R512795		<10	<10	41	<10	83
R512796		<10	<10	9	<10	53
R512797		<10	<10	9	<10	31
R512798		<10	<10	21	<10	32
R512799		<10	<10	59	<10	91
R512801		<10	<10	59	<10	64
R512802		<10	<10	45	<10	47
R512803		<10	<10	24	<10	35
R512804		<10	<10	8	<10	29
R512805		<10	<10	6	<10	23
R512806		<10	<10	7	<10	22
R512807		<10	<10	5	<10	16
R512808		<10	<10	8	<10	22
R512809		<10	<10	9	<10	23
R512811		<10	<10	21	<10	23
R512812		<10	<10	15	<10	29
R512813		<10	<10	11	<10	22
R512814		<10	<10	11	<10	20
R512815		<10	<10	10	<10	25
R512816		<10	<10	8	<10	17
R512817		<10	<10	8	<10	18
R512818		<10	<10	11	<10	18
R512819		<10	<10	10	<10	15
R512821		<10	<10	8	<10	11
R512822		<10	<10	12	<10	14
R512823		<10	<10	6	<10	12
R512824		<10	<10	7	<10	16
R512825		<10	<10	15	<10	31
R512826		<10	<10	7	<10	21



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1
R512827		<0.2	1.26	30	<10	520	0.6	2	2.19	<0.5	5	8	5	1.55	<10	1
R512828		<0.2	1.12	214	<10	80	0.6	<2	0.94	<0.5	7	9	3	1.67	<10	1
R512829		<0.2	1.25	63	<10	80	0.7	<2	1.83	<0.5	6	5	3	1.67	<10	2
R512831		<0.2	1.07	284	<10	110	0.9	2	1.04	<0.5	10	12	6	2.21	<10	1
R512832		<0.2	1.13	76	<10	170	0.6	2	0.40	<0.5	7	8	5	1.61	<10	<1
R512833		<0.2	0.91	35	<10	130	0.6	2	0.39	<0.5	7	9	4	1.56	<10	1
R512834		<0.2	1.20	17	<10	210	0.5	3	0.20	<0.5	9	9	6	1.87	<10	1
R512835		<0.2	0.94	44	<10	100	0.5	3	0.52	<0.5	10	9	10	2.14	<10	<1
R512836		<0.2	1.46	83	<10	180	0.8	4	0.45	<0.5	17	55	10	2.90	10	<1
R512837		<0.2	1.53	21	<10	700	0.6	2	1.21	<0.5	12	50	9	2.40	10	<1
R512838		<0.2	1.08	16	<10	260	<0.5	<2	0.88	<0.5	6	11	9	1.79	<10	1
R512839		<0.2	0.93	7	<10	150	<0.5	<2	0.36	<0.5	4	8	7	1.58	<10	<1
R512841		<0.2	1.30	13	<10	130	0.6	2	0.79	<0.5	7	16	10	2.29	<10	<1
R512842		<0.2	0.92	41	<10	130	0.6	3	1.32	<0.5	6	9	9	2.11	<10	<1
R512843		<0.2	0.90	17	<10	120	0.5	5	0.45	<0.5	4	10	20	2.01	<10	<1
R512844		<0.2	1.20	12	<10	120	0.5	3	0.59	<0.5	7	9	29	2.38	<10	1
R512845		<0.2	0.98	18	<10	130	0.5	2	1.49	<0.5	7	14	21	2.35	<10	<1
R512846		<0.2	0.99	61	<10	70	0.7	<2	1.77	<0.5	7	6	4	1.72	<10	1
R512847		<0.2	1.10	17	<10	190	0.5	2	0.20	<0.5	9	9	7	1.86	<10	1





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Sample Description	Method Analyte Units LOR	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
R512827		0.27	50	0.42	349	3	0.01	4	250	8	0.09	2	2	57	20	<0.01
R512828		0.10	60	0.06	289	1	<0.01	4	250	7	0.01	7	4	46	20	<0.01
R512829		0.13	60	0.08	248	1	0.01	3	290	7	0.01	2	3	24	30	<0.01
R512831		0.13	60	0.07	402	1	<0.01	6	380	7	0.01	8	4	24	30	<0.01
R512832		0.45	60	0.27	267	2	0.05	4	360	5	0.01	4	2	21	30	0.03
R512833		0.46	50	0.35	255	3	0.07	3	260	6	0.01	<2	2	19	30	0.04
R512834		0.67	50	0.61	286	3	0.09	3	320	5	0.01	<2	2	20	30	0.06
R512835		0.29	50	0.42	319	2	0.07	4	360	4	0.01	3	2	16	20	0.03
R512836		0.49	40	0.76	489	2	0.07	17	430	7	0.01	4	4	20	20	0.04
R512837		0.72	30	1.05	408	2	0.06	22	580	5	0.07	3	3	54	<20	0.12
R512838		0.68	60	0.51	319	2	0.07	5	340	5	0.10	<2	2	26	30	0.07
R512839		0.54	50	0.45	243	2	0.08	3	280	5	0.13	<2	2	19	30	0.06
R512841		0.86	50	0.77	342	3	0.06	6	370	6	0.05	2	3	22	30	0.08
R512842		0.55	70	0.35	496	2	0.04	3	430	10	0.01	3	2	36	30	0.04
R512843		0.64	50	0.45	300	2	0.05	2	300	6	0.02	3	2	19	30	0.06
R512844		0.86	50	0.67	373	3	0.07	3	310	6	0.13	<2	3	19	30	0.09
R512845		0.62	50	0.76	402	3	0.07	6	350	5	0.09	3	3	34	30	0.06
R512846		0.11	60	0.07	265	2	<0.01	2	300	6	0.02	3	3	24	30	<0.01
R512847		0.64	50	0.61	286	3	0.07	3	330	4	0.01	<2	2	18	30	0.07



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
R512827		<10	<10	8	<10	20
R512828		<10	<10	11	<10	21
R512829		<10	<10	10	<10	20
R512831		<10	<10	17	<10	31
R512832		<10	<10	8	<10	20
R512833		<10	<10	7	<10	17
R512834		<10	<10	10	<10	27
R512835		<10	<10	11	<10	24
R512836		<10	<10	22	<10	35
R512837		<10	<10	27	<10	35
R512838		<10	<10	9	<10	24
R512839		<10	<10	10	<10	21
R512841		<10	<10	18	<10	29
R512842		<10	<10	10	<10	34
R512843		<10	<10	11	<10	29
R512844		<10	<10	14	<10	37
R512845		<10	<10	18	<10	33
R512846		<10	<10	9	<10	20
R512847		<10	<10	9	<10	27



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### CERTIFICATE COMMENTS

#### LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
FND-02 ME-ICP41