



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 WH14190572**

Project: Coffee

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

This report is for 91 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 WH14190572**

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
R510085		<0.2	1.48	31	<10	180	0.6	<2	0.52	<0.5	14	73	10	2.29	<10
R510086		<0.2	1.58	11	<10	160	0.8	2	0.35	<0.5	9	55	7	2.13	10
R510087		<0.2	0.95	15	<10	150	0.7	<2	0.32	<0.5	6	11	6	1.42	<10
R510088		<0.2	0.85	9	<10	270	0.5	<2	2.22	<0.5	6	19	15	1.08	<10
R510089		<0.2	2.46	7	<10	290	0.9	2	2.20	<0.5	25	137	32	3.81	10
R510091		<0.2	2.11	8	<10	360	0.5	<2	2.29	<0.5	19	115	10	3.06	10
R510092		<0.2	1.98	2	<10	330	<0.5	2	1.52	<0.5	18	118	10	2.69	10
R510093		<0.2	2.17	2	<10	350	0.5	<2	1.91	<0.5	19	90	10	2.96	10
R510094		<0.2	0.79	2	<10	90	<0.5	<2	1.20	<0.5	5	33	4	1.01	<10
R510095		<0.2	1.84	12	<10	350	1.3	<2	2.46	<0.5	16	101	7	3.03	10
R510096		<0.2	1.71	5	<10	280	1.0	<2	3.40	<0.5	15	99	2	2.68	10
R510097		<0.2	1.70	4	<10	290	0.7	<2	2.11	<0.5	13	88	3	2.24	<10
R510098		<0.2	2.76	4	<10	420	1.3	2	3.93	<0.5	20	132	6	3.91	10
R510099		<0.2	2.80	4	<10	540	0.9	<2	3.48	<0.5	23	173	11	3.93	10
R510101		<0.2	2.19	9	<10	300	0.6	<2	1.92	0.5	17	109	16	3.08	10
R510102		<0.2	2.20	3	<10	230	0.5	<2	2.08	<0.5	20	144	13	2.92	10
R510103		<0.2	2.61	15	<10	290	0.6	2	2.53	<0.5	27	537	12	3.25	10
R510104		<0.2	2.30	5	<10	350	<0.5	<2	1.62	<0.5	19	140	13	2.97	10
R510105		<0.2	1.81	9	<10	150	<0.5	2	1.40	<0.5	20	129	25	2.27	<10
R510106		<0.2	1.56	6	<10	70	<0.5	<2	1.63	<0.5	15	147	11	1.85	<10
R510107		<0.2	1.98	25	<10	110	<0.5	<2	1.82	<0.5	26	175	28	2.77	10
R510108		<0.2	2.02	13	<10	130	<0.5	<2	2.85	<0.5	18	207	9	2.35	<10
R510109		<0.2	1.74	15	<10	90	0.6	<2	1.03	<0.5	19	176	11	2.20	10
R510111		<0.2	0.68	18	<10	60	<0.5	<2	0.25	<0.5	5	38	3	1.21	<10
R510112		<0.2	1.70	18	<10	70	0.6	<2	0.87	<0.5	15	76	4	2.41	10
R510113		<0.2	1.39	25	<10	70	0.5	<2	1.14	<0.5	20	141	28	2.16	<10
R510114		<0.2	1.46	32	<10	60	0.6	<2	2.44	<0.5	12	104	10	2.04	10
R510115		<0.2	2.77	47	<10	260	1.0	<2	2.68	<0.5	22	141	8	3.98	10
R510116		<0.2	2.07	47	<10	400	0.7	<2	2.37	<0.5	17	136	8	2.69	10
R510117		<0.2	1.71	98	<10	170	0.9	2	0.91	<0.5	15	109	4	2.85	10
R510118		<0.2	1.67	54	<10	90	0.9	2	2.83	<0.5	13	117	4	2.29	10
R510119		<0.2	2.17	68	<10	170	1.2	<2	3.20	<0.5	16	126	5	2.63	10
R510121		<0.2	2.26	99	<10	210	1.2	<2	4.17	<0.5	19	182	9	2.81	10
R510122		<0.2	1.37	185	<10	160	0.8	<2	4.15	<0.5	12	119	9	2.81	<10
R510123		<0.2	1.68	16	<10	80	<0.5	<2	3.29	<0.5	11	202	3	1.96	10
R510124		<0.2	2.14	14	<10	190	<0.5	<2	3.37	<0.5	17	150	12	2.74	10
R510125		<0.2	1.60	6	<10	120	<0.5	<2	2.45	<0.5	14	207	8	1.58	<10
R510126		<0.2	2.72	9	<10	320	0.6	<2	3.96	<0.5	26	344	7	3.39	10
R510127		0.2	2.25	18	<10	200	0.6	3	3.63	<0.5	19	205	23	2.99	10
R510128		<0.2	2.66	6	<10	140	0.5	<2	3.32	<0.5	18	269	11	3.26	10



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**CERTIFICATE OF ANALYSIS WH14190572**

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 %
R510085		0.46	20	0.95	423	2	0.04	26	520	15	0.01	4	4	23	<20	0.12
R510086		0.81	30	0.93	397	2	0.04	20	440	15	0.01	<2	5	18	20	0.10
R510087		0.38	30	0.22	305	2	0.02	7	360	11	0.01	2	2	11	20	0.02
R510088		0.52	30	0.22	315	2	0.03	12	310	8	0.01	<2	2	37	30	0.03
R510089		1.42	20	2.04	620	2	0.04	43	740	13	0.01	2	7	54	<20	0.18
R510091		1.15	20	1.94	473	2	0.06	29	620	3	0.04	2	5	50	<20	0.21
R510092		1.06	10	1.86	423	2	0.06	26	810	2	0.01	<2	3	72	<20	0.24
R510093		1.09	10	1.90	499	2	0.06	32	960	3	0.01	<2	3	86	<20	0.28
R510094		0.44	30	0.48	243	2	0.06	8	260	<2	0.01	<2	1	31	30	0.06
R510095		1.24	20	1.57	718	<1	0.04	45	650	4	<0.01	3	6	52	20	0.13
R510096		0.97	30	1.44	732	1	0.04	60	440	5	0.02	3	4	133	20	0.11
R510097		1.00	20	1.59	428	1	0.05	36	590	3	0.01	<2	3	87	<20	0.15
R510098		2.04	20	2.75	817	<1	0.03	43	810	6	0.01	2	10	170	<20	0.17
R510099		1.55	20	2.81	811	<1	0.02	70	1000	7	<0.01	3	8	149	<20	0.16
R510101		0.98	30	1.99	745	<1	0.02	51	660	44	<0.01	<2	5	64	<20	0.11
R510102		1.14	10	2.36	528	<1	0.03	84	660	4	<0.01	3	5	59	<20	0.19
R510103		1.03	10	3.72	475	<1	0.02	327	500	7	<0.01	2	8	30	<20	0.13
R510104		1.38	10	2.24	408	<1	0.03	81	630	5	0.01	2	4	44	<20	0.24
R510105		0.75	10	1.48	294	<1	0.03	63	570	3	<0.01	<2	3	51	<20	0.25
R510106		0.33	10	1.38	263	<1	0.04	32	460	3	0.02	<2	3	52	<20	0.22
R510107		0.48	10	1.82	423	<1	0.04	96	640	8	<0.01	2	3	60	<20	0.23
R510108		0.64	10	2.10	418	<1	0.02	89	550	5	<0.01	3	4	59	<20	0.20
R510109		0.40	20	1.74	321	<1	0.06	117	620	4	<0.01	4	3	58	<20	0.17
R510111		0.18	40	0.40	181	2	0.08	21	210	4	<0.01	2	1	22	30	0.02
R510112		0.41	20	1.54	448	1	0.07	48	800	3	<0.01	3	4	65	<20	0.18
R510113		0.34	10	1.23	371	1	0.04	60	790	3	<0.01	3	3	66	<20	0.19
R510114		0.29	10	1.13	338	1	0.06	44	670	9	<0.01	6	5	79	<20	0.18
R510115		1.09	20	2.70	755	<1	0.02	60	840	5	<0.01	5	9	87	<20	0.14
R510116		0.49	10	1.84	658	<1	0.03	44	700	7	0.01	8	6	74	<20	0.17
R510117		0.47	10	1.25	683	1	0.03	55	540	8	<0.01	13	6	35	<20	0.10
R510118		0.26	20	1.20	521	<1	0.04	43	700	6	<0.01	7	8	70	<20	0.10
R510119		0.59	20	1.78	645	<1	0.02	44	600	13	<0.01	10	8	78	<20	0.06
R510121		0.43	10	1.62	801	<1	0.02	41	500	56	<0.01	10	9	68	<20	0.09
R510122		0.25	30	0.96	751	1	0.04	32	420	13	<0.01	15	7	60	<20	0.03
R510123		0.28	10	1.86	427	<1	0.07	30	340	6	<0.01	3	7	76	<20	0.14
R510124		0.45	10	2.09	575	<1	0.07	33	680	5	<0.01	4	7	65	<20	0.19
R510125		0.34	10	1.63	311	<1	0.04	37	360	9	<0.01	2	3	59	<20	0.16
R510126		0.77	10	3.23	742	<1	0.06	53	610	32	<0.01	3	7	79	<20	0.17
R510127		0.69	10	2.57	799	<1	0.03	50	490	211	0.01	<2	5	81	<20	0.11
R510128		0.32	20	3.26	763	<1	0.03	48	560	38	<0.01	3	8	80	<20	0.04



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**CERTIFICATE OF ANALYSIS WH14190572**

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
R510085		<10	<10	38	<10	35
R510086		<10	<10	32	<10	38
R510087		<10	<10	12	<10	24
R510088		<10	<10	10	<10	14
R510089		<10	<10	70	<10	42
R510091		<10	<10	55	<10	32
R510092		<10	<10	51	<10	33
R510093		<10	<10	59	<10	44
R510094		<10	<10	13	<10	13
R510095		<10	<10	63	<10	54
R510096		<10	<10	35	<10	40
R510097		<10	<10	41	<10	31
R510098		10	<10	86	<10	61
R510099		<10	<10	82	<10	74
R510101		<10	<10	47	<10	67
R510102		<10	<10	52	<10	50
R510103		<10	<10	68	<10	40
R510104		<10	<10	51	<10	50
R510105		<10	<10	40	<10	36
R510106		<10	<10	31	<10	28
R510107		<10	<10	41	<10	41
R510108		<10	<10	43	<10	39
R510109		<10	<10	37	<10	35
R510111		<10	<10	11	<10	13
R510112		<10	<10	45	<10	40
R510113		<10	<10	39	<10	35
R510114		<10	<10	44	<10	29
R510115		<10	<10	73	<10	69
R510116		<10	<10	49	<10	41
R510117		<10	<10	48	<10	46
R510118		<10	<10	44	<10	32
R510119		<10	<10	52	<10	47
R510121		<10	<10	56	<10	81
R510122		<10	<10	41	<10	41
R510123		<10	<10	53	<10	25
R510124		<10	<10	66	<10	39
R510125		<10	<10	37	<10	27
R510126		<10	<10	80	<10	61
R510127		<10	<10	55	<10	234
R510128		<10	<10	65	<10	84



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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
R510129		<0.2	2.58	6	<10	360	0.7	<2	2.44	<0.5	20	152	17	3.10	10	1
R510131		<0.2	2.35	9	<10	340	0.7	<2	2.89	<0.5	21	276	7	2.66	10	<1
R510132		<0.2	2.01	13	<10	280	<0.5	<2	3.12	<0.5	22	177	8	2.21	10	<1
R510133		<0.2	2.50	15	<10	310	0.6	2	3.17	<0.5	22	214	15	3.07	10	1
R510134		<0.2	2.74	12	<10	320	0.7	3	3.40	<0.5	21	134	9	3.35	10	1
R510135		<0.2	3.17	66	<10	270	1.3	<2	3.24	<0.5	21	138	12	3.98	10	1
R510136		<0.2	2.11	19	<10	200	0.7	2	3.16	<0.5	15	111	4	2.73	10	1
R510137		<0.2	2.26	7	<10	790	0.6	<2	3.04	<0.5	17	113	6	2.79	10	1
R510138		<0.2	2.33	21	<10	260	0.7	2	3.02	<0.5	19	123	5	2.94	10	<1
R510139		<0.2	2.12	48	<10	150	1.1	<2	3.93	<0.5	16	189	4	2.71	10	1
R510141		<0.2	2.44	20	<10	190	0.8	<2	4.44	<0.5	20	195	6	3.26	10	<1
R510142		<0.2	3.61	51	<10	190	1.6	2	4.65	<0.5	26	257	13	4.49	10	<1
R510143		<0.2	1.83	163	<10	250	1.3	2	3.24	<0.5	16	73	8	2.95	10	1
R510144		<0.2	2.36	36	<10	200	1.2	2	5.08	<0.5	18	205	3	3.12	10	1
R510145		<0.2	2.36	81	<10	3170	1.4	<2	2.88	<0.5	19	142	7	3.76	10	1
R510146		<0.2	2.75	2	<10	1350	0.5	2	3.37	<0.5	17	71	10	3.55	10	1
R510147		<0.2	1.26	9	<10	300	0.5	<2	1.07	<0.5	10	46	6	1.70	10	1
R510148		<0.2	2.17	4	<10	280	0.9	<2	2.09	<0.5	12	83	6	2.20	10	1
R510149		<0.2	2.02	4	<10	200	0.6	<2	2.86	<0.5	22	116	11	3.16	10	<1
R510151		<0.2	2.64	3	<10	290	0.7	<2	2.68	<0.5	21	182	13	3.63	10	<1
R510152		<0.2	2.64	<2	<10	360	0.7	<2	4.67	<0.5	23	236	6	3.65	10	1
R510153		<0.2	2.70	<2	<10	500	0.7	<2	3.91	<0.5	22	192	9	3.81	10	1
R510154		<0.2	2.39	3	<10	250	1.2	<2	3.53	<0.5	24	130	5	3.87	10	<1
R510155		<0.2	2.20	6	<10	220	1.1	<2	3.82	<0.5	20	157	10	3.78	10	<1
R510156		<0.2	2.42	4	<10	360	0.7	<2	3.02	<0.5	19	152	7	3.28	10	<1
R510157		<0.2	1.67	5	<10	210	0.6	2	0.85	<0.5	11	40	6	2.28	10	<1
R510158		<0.2	1.04	2	<10	80	<0.5	<2	0.46	<0.5	7	13	6	1.72	10	<1
R510159		<0.2	0.92	2	<10	60	<0.5	<2	0.71	<0.5	9	18	6	1.80	10	<1
R510161		<0.2	1.04	18	<10	140	0.8	2	2.44	<0.5	11	15	6	2.29	<10	<1
R510162		<0.2	0.79	145	<10	480	0.8	2	2.00	<0.5	7	13	5	2.13	<10	<1
R510163		<0.2	1.11	23	<10	170	0.5	2	0.81	<0.5	7	15	8	1.89	<10	1
R510164		<0.2	1.69	12	<10	360	0.7	<2	1.39	<0.5	13	88	8	2.69	10	<1
R510165		<0.2	0.86	7	<10	150	<0.5	<2	0.81	<0.5	7	17	6	1.72	<10	<1
R510166		<0.2	1.91	6	<10	430	0.7	3	1.80	<0.5	14	35	14	2.87	10	<1
R510167		<0.2	1.03	9	<10	240	0.5	2	0.46	<0.5	8	13	6	1.67	<10	<1
R510168		<0.2	2.51	22	<10	330	1.0	3	1.50	<0.5	19	92	14	4.09	10	<1
R510169		<0.2	2.45	202	<10	360	1.7	<2	2.60	<0.5	21	107	10	4.74	10	1
R510171		<0.2	2.08	53	<10	230	1.0	5	2.55	<0.5	21	80	14	4.12	10	1
R510172		<0.2	1.28	46	<10	180	0.7	2	0.35	<0.5	8	19	9	2.26	10	<1
R510173		<0.2	1.64	34	<10	170	0.8	<2	0.90	<0.5	11	36	11	2.61	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
R510129		0.81	10	2.87	650	<1	0.04	35	760	8	<0.01	3	6	64	<20	0.15
R510131		1.08	10	2.63	624	<1	0.05	57	660	24	<0.01	2	4	68	<20	0.22
R510132		0.67	10	2.30	605	<1	0.04	38	480	12	<0.01	2	3	67	<20	0.17
R510133		0.82	10	2.64	766	<1	0.05	48	610	31	<0.01	6	5	87	<20	0.18
R510134		0.93	10	2.76	807	<1	0.03	23	550	36	<0.01	3	6	81	<20	0.14
R510135		0.98	20	2.74	917	<1	0.02	52	590	24	0.01	8	10	46	<20	0.07
R510136		0.69	10	1.97	536	<1	0.05	45	590	4	0.01	3	6	93	<20	0.18
R510137		0.72	10	2.16	472	1	0.07	51	630	4	0.02	2	5	89	<20	0.27
R510138		0.69	10	2.26	773	<1	0.05	56	710	4	0.01	5	5	105	<20	0.24
R510139		0.59	20	1.75	562	<1	0.03	34	450	7	0.01	7	7	72	<20	0.08
R510141		0.82	10	2.62	591	<1	0.04	48	590	5	<0.01	4	9	112	<20	0.17
R510142		1.15	20	3.88	747	<1	0.02	84	740	14	<0.01	10	15	196	<20	0.09
R510143		1.12	30	1.42	708	<1	0.01	24	530	19	0.01	26	6	55	20	0.06
R510144		0.80	20	1.70	575	<1	0.02	34	450	16	<0.01	5	12	58	<20	0.05
R510145		0.72	20	1.53	684	<1	0.01	39	840	15	0.08	8	11	171	<20	0.06
R510146		0.97	10	1.98	588	1	0.15	24	910	10	0.17	<2	8	218	<20	0.24
R510147		0.51	30	1.17	247	2	0.04	17	370	3	0.11	3	2	38	30	0.08
R510148		0.97	30	1.79	390	2	0.07	25	400	7	0.07	2	5	45	20	0.09
R510149		0.57	10	2.17	572	1	0.07	40	750	5	0.64	2	5	51	<20	0.11
R510151		0.82	20	3.00	672	2	0.09	49	740	9	0.26	<2	8	54	<20	0.14
R510152		1.00	10	3.14	880	1	0.06	56	660	7	0.54	2	8	106	<20	0.16
R510153		1.19	10	3.02	874	1	0.06	34	960	7	0.20	<2	8	118	<20	0.17
R510154		1.03	20	2.55	669	1	0.06	51	780	2	0.17	<2	11	108	<20	0.09
R510155		1.13	20	2.52	837	1	0.04	56	680	14	0.18	3	12	142	<20	0.11
R510156		1.18	20	2.66	716	1	0.07	58	690	7	0.20	3	7	100	<20	0.16
R510157		0.75	50	1.37	356	4	0.10	21	450	4	0.10	<2	4	27	20	0.07
R510158		0.28	60	0.84	256	2	0.08	5	350	3	0.04	<2	3	19	30	0.02
R510159		0.17	60	0.65	283	3	0.11	7	340	3	0.07	<2	3	31	30	0.02
R510161		0.41	70	0.67	375	2	0.07	7	450	8	0.43	3	4	46	30	0.03
R510162		0.34	60	0.34	1230	2	0.05	6	430	6	0.05	25	3	30	30	0.02
R510163		0.55	50	0.55	367	1	0.08	6	320	4	0.01	3	2	93	30	0.05
R510164		1.03	50	1.39	522	1	0.06	19	540	3	0.01	2	4	102	20	0.12
R510165		0.31	60	0.45	256	2	0.08	5	380	3	<0.01	<2	2	92	30	0.05
R510166		1.20	50	1.60	543	5	0.06	14	660	6	0.16	<2	5	88	20	0.14
R510167		0.54	40	0.59	279	2	0.08	5	340	3	0.01	2	2	42	30	0.05
R510168		1.30	30	2.14	521	1	0.06	53	740	4	0.02	<2	5	102	20	0.16
R510169		1.33	20	1.81	834	<1	0.04	53	890	15	0.01	17	9	87	<20	0.15
R510171		0.92	40	1.68	729	1	0.05	37	810	38	0.01	8	9	67	<20	0.07
R510172		0.55	60	0.63	411	1	0.05	8	460	6	0.01	9	3	16	30	0.04
R510173		0.90	60	1.20	569	1	0.04	14	540	8	<0.01	6	4	26	20	0.09



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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
R510129		<10	<10	75	<10	54
R510131		<10	<10	58	<10	76
R510132		<10	<10	47	<10	48
R510133		<10	<10	62	<10	99
R510134		<10	<10	63	<10	70
R510135		<10	<10	69	<10	74
R510136		<10	<10	49	<10	37
R510137		<10	<10	48	<10	36
R510138		<10	<10	48	<10	47
R510139		<10	<10	56	<10	37
R510141		<10	<10	70	<10	44
R510142		<10	<10	98	<10	78
R510143		<10	<10	49	<10	57
R510144		<10	<10	64	<10	49
R510145		<10	<10	79	<10	58
R510146		<10	<10	104	<10	61
R510147		<10	<10	25	<10	24
R510148		<10	<10	39	<10	37
R510149		<10	<10	50	<10	60
R510151		<10	<10	74	<10	73
R510152		<10	<10	73	<10	70
R510153		<10	<10	97	<10	74
R510154		<10	<10	75	<10	55
R510155		<10	<10	83	<10	75
R510156		<10	<10	67	<10	65
R510157		<10	<10	24	<10	36
R510158		<10	<10	14	<10	24
R510159		<10	<10	16	<10	23
R510161		<10	10	25	<10	44
R510162		<10	<10	15	<10	28
R510163		<10	<10	13	<10	23
R510164		<10	<10	35	<10	43
R510165		<10	<10	13	<10	15
R510166		<10	<10	50	<10	47
R510167		<10	<10	10	<10	25
R510168		<10	<10	42	<10	57
R510169		<10	<10	75	<10	64
R510171		<10	<10	49	<10	71
R510172		<10	<10	16	<10	33
R510173		<10	<10	32	<10	40



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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	ME-ICP41
		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg
		ppm	%	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	1
R510174		<0.2	0.94	16	<10	180	0.5	<2	1.20	<0.5	4	13	9	1.60	<10	1
R510175		0.3	1.73	110	<10	470	1.0	7	0.89	<0.5	13	12	333	3.80	10	<1
R510176		<0.2	1.24	9	<10	390	0.7	<2	1.04	<0.5	7	11	11	2.29	<10	<1
R510177		<0.2	1.38	105	<10	190	1.1	2	2.78	<0.5	11	32	13	2.99	<10	<1
R510178		<0.2	2.43	28	<10	250	2.1	5	4.04	<0.5	20	106	26	4.39	10	<1
R510179		<0.2	1.33	43	<10	230	1.3	<2	4.49	<0.5	16	26	11	4.29	<10	1
R510181		<0.2	2.69	11	<10	320	1.3	3	4.35	<0.5	22	174	22	3.64	10	<1
R510182		<0.2	2.32	10	<10	280	1.0	4	3.29	<0.5	17	124	15	3.56	10	<1
R510183		<0.2	1.32	6	<10	160	0.5	<2	2.56	<0.5	17	323	9	1.88	<10	<1
R510184		<0.2	2.07	28	<10	110	<0.5	<2	1.84	<0.5	29	189	30	2.92	10	<1
R510185		<0.2	1.21	184	<10	160	0.8	<2	3.52	<0.5	11	102	18	2.75	<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
R510174		0.40	60	0.43	308	1	0.06	6	270	7	0.04	2	2	25	30	0.02
R510175		1.00	70	1.17	731	1	0.07	5	370	18	0.31	10	3	37	30	0.09
R510176		0.57	70	0.53	338	2	0.07	5	350	5	0.16	4	2	36	30	0.05
R510177		0.38	40	0.78	509	1	0.01	23	470	12	0.11	7	5	41	30	0.02
R510178		0.84	20	1.60	706	2	0.03	58	810	27	0.24	5	11	78	<20	0.07
R510179		0.36	20	1.39	947	<1	0.01	10	1320	18	0.19	2	6	100	<20	0.01
R510181		0.87	20	2.56	736	1	0.02	64	570	10	0.25	5	11	129	<20	0.07
R510182		1.00	20	2.16	648	1	0.04	53	630	6	0.17	4	7	82	<20	0.10
R510183		0.57	20	1.61	320	2	0.06	65	360	3	0.23	3	4	58	<20	0.11
R510184		0.53	10	1.94	436	<1	0.04	100	730	5	<0.01	4	4	62	<20	0.26
R510185		0.22	30	0.81	743	1	0.03	33	410	17	<0.01	16	7	51	<20	0.03



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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
R510174		<10	<10	11	<10	23
R510175		<10	<10	17	<10	66
R510176		<10	<10	16	<10	34
R510177		<10	<10	38	<10	48
R510178		<10	<10	63	<10	80
R510179		<10	<10	69	<10	72
R510181		<10	<10	68	<10	58
R510182		<10	<10	54	<10	56
R510183		<10	<10	32	<10	25
R510184		<10	<10	43	<10	42
R510185		<10	<10	37	<10	41



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### CERTIFICATE COMMENTS

#### LABORATORY ADDRESSES

Applies to Method:

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FND-02 ME-ICP41