



ALS Canada Ltd.

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To: **GOLDCORP KAMINAK LTD**  
**SUITE 3400 - 666 BURRARD STREET**  
**VANCOUVER BC V6C 2X8**

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Total # Pages: 3 (A - C)  
Plus Appendix Pages  
Finalized Date: 7-JUL-2018  
Account: KAMGOL

**CERTIFICATE WH18150072**

Project: Coffee

P.O. No.: KGC-18-1270

This report is for 50 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2018.

The following have access to data associated with this certificate:

THOMAS BISSIG  
IAN HERBRANSON  
TIM SMITH

TOM BOKENFOHR  
ERIK SCHEEL  
MATT ZAGO

CASEY CARDINAL  
JAMES SCOTT

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32m	Pulverize 500g - 85%<75um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA13	Au by cyanide leach and AAS	AAS

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 WH18150072**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-AA13 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
		0.02	0.001	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
X842256		1.66	0.342	0.35	<0.2	0.87	249	<10	130	0.6	2	0.22	<0.5	7	18	13
X842257		1.94	0.045		<0.2	0.93	163	<10	180	0.8	<2	0.18	<0.5	6	10	8
X842258		2.43	0.053		<0.2	0.72	149	<10	110	0.7	2	0.11	<0.5	4	8	10
X842259		1.46	0.025		0.3	0.85	124	<10	180	0.8	6	0.49	<0.5	7	7	31
X842260		0.06	<0.001		<0.2	1.60	2	<10	130	<0.5	<2	0.95	<0.5	8	10	90
X842261		2.17	0.009		<0.2	0.64	74	<10	140	0.6	<2	1.18	<0.5	3	15	57
X842262		1.89	0.002		<0.2	0.78	35	<10	160	0.7	2	1.21	<0.5	12	16	26
X842263		1.82	0.001		<0.2	0.61	30	<10	130	0.8	<2	1.59	<0.5	8	18	22
X842264		1.67	0.004		<0.2	0.65	104	<10	450	0.8	2	2.15	<0.5	10	27	8
X842265		1.99	0.077		<0.2	0.66	594	<10	260	1.1	<2	2.47	<0.5	14	39	30
X842266		1.66	0.054		<0.2	0.58	555	<10	340	0.8	<2	0.35	0.8	11	18	33
X842267		1.55	0.039		<0.2	0.63	473	<10	240	0.9	2	0.39	<0.5	20	50	45
X842268		1.71	0.005		<0.2	0.64	211	<10	210	0.8	<2	2.00	<0.5	9	17	28
X842269		1.70	0.013		0.2	0.63	297	<10	340	1.0	<2	2.68	<0.5	16	24	53
X842270		0.06	1.135	1.03	0.3	2.90	34	<10	120	<0.5	<2	2.02	<0.5	14	109	112
X842271		1.66	0.003		<0.2	0.65	181	<10	320	1.0	<2	3.14	<0.5	16	35	58
X842272		1.91	0.034		<0.2	0.56	297	<10	680	0.9	<2	3.48	<0.5	17	40	48
X842273		1.36	5.52	5.48	2.7	0.40	2240	10	210	0.8	4	0.39	<0.5	11	19	88
X842274		1.78	4.45	3.60	1.2	0.36	2210	<10	170	0.9	<2	1.54	<0.5	6	9	55
X842275		1.85	0.377	0.38	<0.2	0.62	930	<10	210	1.0	<2	1.96	<0.5	6	7	6
X842276		1.34	0.959	0.96	<0.2	0.54	689	<10	210	0.8	<2	0.44	<0.5	4	6	7
X842277		1.62	0.095		<0.2	0.48	341	<10	120	0.6	<2	0.11	<0.5	4	6	7
X842278		1.62	1.130	1.09	<0.2	0.55	851	<10	180	0.8	2	0.33	<0.5	7	8	11
X842279		1.55	0.620	0.61	0.2	0.37	282	<10	90	0.5	2	0.41	<0.5	1	6	6
X842280		0.06	0.001		<0.2	1.60	2	<10	130	<0.5	2	0.96	<0.5	8	9	89
X842281		1.77	0.032		<0.2	0.55	149	<10	60	<0.5	15	0.23	<0.5	3	6	16
X842282		1.35	0.058		0.3	0.73	326	<10	90	0.6	441	0.81	<0.5	27	5	94
X842283		1.58	0.039		<0.2	0.53	163	<10	170	0.5	14	0.08	<0.5	3	6	14
X842284		1.67	0.080		<0.2	0.46	357	<10	100	0.5	9	0.06	<0.5	5	7	61
X842285		2.00	1.395	1.21	0.4	0.48	2680	10	210	0.7	2	1.03	<0.5	5	7	45
X842286		1.58	0.046		0.2	0.58	1390	10	210	1.0	<2	2.43	<0.5	13	24	38
X842287		2.12	0.574	0.37	<0.2	0.43	3240	10	190	0.6	<2	2.83	<0.5	11	19	26
X842288		1.60	0.279		0.2	0.55	1545	10	290	0.9	<2	4.25	<0.5	22	72	34
X842289		1.84	1.085	0.50	0.7	0.41	4920	10	160	0.6	2	4.52	<0.5	16	28	56
X842290		0.06	8.97	5.35	5.8	1.91	46	<10	180	<0.5	<2	1.18	3.1	14	32	1825
X842291		1.61	0.045		<0.2	0.61	309	<10	560	0.6	<2	2.46	<0.5	4	8	8
X842292		1.48	0.027		<0.2	0.52	325	<10	380	0.9	2	3.71	<0.5	13	25	49
X842293		1.63	0.006		<0.2	0.65	182	<10	340	0.9	<2	2.01	0.5	15	39	55
X842294		1.34	0.010		<0.2	0.75	329	<10	560	1.0	2	2.40	<0.5	15	48	45
X842295		0.99	0.005		<0.2	0.77	188	<10	140	0.9	<2	1.77	0.5	11	34	28



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Project: Coffee

**CERTIFICATE OF ANALYSIS WH18150072**

Sample Description	Method Analyte Units LOD	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	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
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
X842256		1.94	<10	<1	0.27	30	0.26	407	1	0.02	12	360	8	0.01	5	3
X842257		1.96	<10	<1	0.38	30	0.24	622	1	0.01	9	420	9	0.01	9	3
X842258		1.58	<10	<1	0.28	30	0.06	348	1	0.01	6	280	8	0.01	6	2
X842259		2.09	<10	<1	0.44	40	0.15	525	1	0.01	5	400	20	0.01	8	2
X842260		2.75	<10	<1	0.20	10	0.73	379	2	0.17	5	610	4	0.02	<2	3
X842261		1.30	<10	<1	0.36	50	0.17	293	1	0.03	7	300	7	0.04	2	1
X842262		1.64	<10	<1	0.42	40	0.30	262	1	0.03	11	430	7	0.04	<2	3
X842263		2.21	<10	<1	0.19	40	0.12	350	2	0.02	15	350	10	0.02	2	4
X842264		2.36	<10	1	0.12	40	0.11	389	2	<0.01	24	490	8	0.02	2	4
X842265		3.52	<10	<1	0.17	30	0.09	573	3	0.01	44	800	10	0.02	9	5
X842266		3.08	<10	<1	0.21	30	0.04	631	2	0.01	33	740	13	0.01	17	3
X842267		4.21	<10	<1	0.25	30	0.06	854	2	0.01	69	1020	15	0.01	15	5
X842268		2.94	<10	<1	0.21	40	0.07	649	2	0.01	26	610	20	0.03	8	3
X842269		3.75	<10	<1	0.23	20	0.23	834	2	0.01	43	810	21	0.07	10	5
X842270		2.94	10	<1	0.21	10	1.32	393	4	0.35	125	360	11	0.05	<2	3
X842271		3.75	<10	<1	0.16	20	0.42	729	2	0.01	43	690	10	0.13	8	4
X842272		4.18	<10	<1	0.15	20	0.57	682	2	0.01	43	630	13	0.18	5	6
X842273		3.28	<10	2	0.19	20	0.07	888	2	<0.01	38	750	262	0.02	68	4
X842274		2.57	<10	<1	0.20	20	0.46	696	1	0.01	17	290	128	0.12	39	2
X842275		1.76	<10	1	0.24	20	0.08	589	1	<0.01	11	320	23	0.01	26	3
X842276		1.62	<10	<1	0.26	20	0.05	446	1	0.01	6	260	9	0.01	17	2
X842277		1.72	<10	1	0.27	30	0.04	309	1	<0.01	4	120	7	0.01	12	1
X842278		2.57	<10	<1	0.27	30	0.05	505	1	0.01	7	280	11	0.03	14	2
X842279		0.88	<10	1	0.29	30	0.03	192	1	0.01	3	80	8	0.01	7	<1
X842280		2.70	<10	<1	0.20	10	0.72	376	2	0.18	5	600	3	0.02	<2	3
X842281		0.96	<10	<1	0.23	30	0.03	170	1	0.01	3	60	11	0.02	6	1
X842282		2.31	<10	<1	0.19	70	0.05	501	1	<0.01	4	100	52	0.03	24	1
X842283		0.93	<10	<1	0.25	30	0.03	253	1	<0.01	3	100	10	0.01	8	1
X842284		1.26	<10	1	0.26	40	0.03	252	1	0.01	4	140	12	0.01	19	1
X842285		1.74	<10	1	0.28	40	0.33	330	1	0.01	8	290	15	0.14	17	1
X842286		2.88	<10	<1	0.24	30	0.92	439	3	0.01	35	640	18	0.29	11	5
X842287		2.93	<10	<1	0.27	20	0.98	441	3	0.01	26	500	10	0.98	12	3
X842288		3.35	<10	<1	0.24	20	1.68	728	2	0.01	136	530	16	0.69	13	7
X842289		3.85	<10	<1	0.25	20	1.76	924	2	0.01	69	640	40	1.11	22	5
X842290		3.88	10	<1	0.24	10	0.95	618	26	0.22	172	570	320	0.45	6	3
X842291		1.77	<10	<1	0.21	40	0.88	359	2	0.01	9	310	9	0.10	3	2
X842292		3.52	<10	<1	0.25	20	0.93	895	4	0.01	44	670	10	0.23	12	4
X842293		3.54	<10	<1	0.16	20	0.43	684	4	0.01	52	1040	22	0.20	7	6
X842294		3.46	<10	<1	0.11	20	0.19	538	3	<0.01	47	830	23	0.06	13	10
X842295		3.24	<10	<1	0.16	40	0.20	452	2	0.01	34	820	18	0.07	4	6



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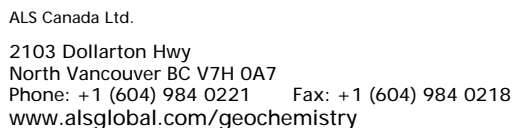
Project: Coffee

**CERTIFICATE OF ANALYSIS WH18150072**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
X842256		19	20	0.03	<10	<10	19	<10
X842257		15	20	0.03	<10	<10	14	<10
X842258		7	20	0.01	<10	<10	5	<10
X842259		21	20	0.02	<10	<10	9	<10
X842260		75	<20	0.13	<10	<10	97	<10
X842261		29	30	0.02	<10	<10	7	<10
X842262		18	20	0.03	<10	<10	22	<10
X842263		24	20	0.01	<10	<10	20	<10
X842264		27	20	<0.01	<10	<10	26	<10
X842265		28	<20	<0.01	<10	<10	41	<10
X842266		21	20	<0.01	<10	<10	25	<10
X842267		21	<20	<0.01	<10	<10	38	<10
X842268		41	20	<0.01	<10	<10	19	<10
X842269		108	<20	<0.01	<10	<10	41	<10
X842270		91	<20	0.10	<10	<10	69	<10
X842271		73	<20	<0.01	<10	<10	37	<10
X842272		123	<20	<0.01	<10	<10	43	<10
X842273		125	<20	<0.01	<10	10	16	<10
X842274		68	<20	<0.01	<10	10	9	<10
X842275		32	<20	<0.01	<10	<10	10	<10
X842276		43	20	<0.01	<10	<10	6	<10
X842277		14	20	<0.01	<10	<10	3	<10
X842278		21	20	<0.01	<10	<10	6	<10
X842279		9	20	<0.01	<10	<10	1	<10
X842280		76	<20	0.14	<10	<10	96	<10
X842281		14	20	<0.01	<10	<10	2	<10
X842282		16	30	<0.01	<10	<10	4	<10
X842283		11	20	<0.01	<10	<10	2	<10
X842284		11	20	<0.01	<10	<10	2	<10
X842285		56	20	<0.01	<10	<10	4	<10
X842286		142	<20	<0.01	<10	<10	22	<10
X842287		282	20	<0.01	<10	<10	13	<10
X842288		361	<20	<0.01	<10	10	25	<10
X842289		434	<20	<0.01	<10	10	15	<10
X842290		89	<20	0.15	<10	<10	97	<10
X842291		104	20	<0.01	<10	10	7	<10
X842292		207	<20	<0.01	<10	20	25	<10
X842293		79	<20	<0.01	<10	<10	60	<10
X842294		73	<20	<0.01	<10	10	87	<10
X842295		45	20	<0.01	<10	<10	51	<10



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



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**CERTIFICATE OF ANALYSIS WH18150072**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	BAG-01	CRU-31	CRU-QC
	LOG-23	PUL-32m	PUL-QC
	WEI-21		
			LOG-21
			SPL-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA13	Au-ICP21	ME-ICP41