



ALS Canada Ltd.

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

Page: 1
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

CERTIFICATE VA18245531

Project: Coffee

P.O. No.: KGC-18-1614

This report is for 91 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1-OCT-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
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
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 VA18245531

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.05	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
Y420101		2.32	1.785		1.91	<0.2	0.31	331	<10	80	0.6	<2	0.04	<0.5	1	6
Y420102		2.48	3.24		3.24	<0.2	0.32	196	<10	60	0.7	<2	0.04	<0.5	2	6
Y420103		2.34	3.56		3.52	<0.2	0.33	215	<10	90	0.8	<2	0.05	<0.5	2	7
Y420104		1.46	6.97		7.39	<0.2	0.34	187	<10	40	0.7	<2	0.07	<0.5	8	5
Y420105		2.06	7.87		7.94	<0.2	0.39	255	<10	60	0.9	<2	0.08	<0.5	2	6
Y420106		1.92	>10.0	12.65	13.20	<0.2	0.40	252	<10	50	0.9	<2	0.08	<0.5	2	6
Y420107		2.20	>10.0	10.40	10.15	0.2	0.37	274	<10	50	1.0	<2	0.07	<0.5	1	5
Y420108		2.18	2.00		2.08	0.2	0.43	230	<10	100	1.1	<2	0.05	<0.5	2	5
Y420109		2.50	0.048			0.2	0.56	187	<10	130	0.8	<2	0.04	<0.5	2	7
Y420110		0.10	8.19		4.70	8.0	1.94	41	<10	180	<0.5	<2	1.15	3.4	15	33
Y420111		1.98	0.031			<0.2	0.83	502	<10	180	2.4	<2	0.15	<0.5	21	35
Y420112		2.26	0.072			0.2	0.68	1330	<10	260	2.1	<2	0.15	<0.5	15	23
Y420113		2.02	0.297			0.3	0.42	1170	<10	160	1.9	2	0.15	<0.5	16	31
Y420114		2.00	0.039			<0.2	0.28	335	<10	70	0.6	<2	0.07	<0.5	7	10
Y420115		1.78	0.162			<0.2	0.22	553	<10	60	0.8	<2	0.07	<0.5	7	22
Y420116		1.34	0.109			<0.2	0.19	357	<10	100	0.5	<2	0.09	<0.5	3	12
Y420117		1.36	0.717		0.72	<0.2	1.11	641	<10	270	2.0	<2	0.26	<0.5	17	42
Y420118		1.16	0.025			<0.2	1.78	84	<10	910	2.4	<2	3.17	<0.5	29	54
Y420119		2.60	0.002			<0.2	1.12	36	<10	570	1.7	<2	4.79	<0.5	13	60
Y420120		0.12	0.003			<0.2	1.83	<2	<10	150	<0.5	<2	1.04	<0.5	9	24
Y420121		2.18	<0.001			<0.2	1.07	64	<10	100	1.2	<2	0.19	<0.5	9	36
Y420122		2.42	<0.001			<0.2	1.82	313	<10	320	2.5	<2	0.37	<0.5	25	80
Y420123		2.30	<0.001			<0.2	1.01	209	<10	230	1.8	<2	0.29	<0.5	14	22
Y420124		2.30	<0.001			<0.2	1.15	126	<10	160	2.2	<2	0.29	<0.5	20	33
Y420125		2.46	<0.001			<0.2	2.53	28	<10	600	1.5	<2	2.90	<0.5	20	76
Y420126		2.04	<0.001			<0.2	1.73	211	<10	340	2.0	<2	0.48	<0.5	27	65
Y420127		2.40	<0.001			<0.2	1.02	132	<10	210	2.3	<2	0.21	<0.5	23	34
Y420128		1.76	<0.001			<0.2	1.51	204	<10	410	2.0	<2	0.37	<0.5	24	34
Y420129		2.68	<0.001			<0.2	1.22	643	<10	430	2.3	<2	0.22	<0.5	24	24
Y420130		0.10	0.906		0.96	3.2	3.00	10	<10	100	<0.5	<2	2.15	0.7	17	115
Y420131		2.16	0.014			<0.2	0.55	712	<10	220	1.2	<2	0.13	<0.5	12	16
Y420132		2.64	>10.0	20.00	20.4	0.3	0.58	1545	<10	240	1.7	<2	0.21	<0.5	14	29
Y420133		2.32	>10.0	12.95	13.05	0.3	0.42	596	<10	120	0.8	<2	0.07	<0.5	8	11
Y420134		2.52	>10.0	13.55	14.25	0.6	0.36	710	<10	170	1.2	5	0.07	<0.5	7	23
Y420135		1.68	1.120		1.12	<0.2	0.46	1665	<10	280	2.0	<2	0.16	<0.5	13	27
Y420136		1.82	0.108			<0.2	0.42	155	<10	90	0.7	<2	0.04	<0.5	2	5
Y420137		2.38	0.117			<0.2	0.33	104	<10	40	0.6	<2	0.03	<0.5	1	7
Y420138		2.30	0.026			<0.2	0.52	194	<10	50	0.7	<2	0.04	<0.5	2	5
Y420139		1.98	0.032			0.3	0.59	289	<10	50	0.5	<2	0.02	<0.5	2	4
Y420140		0.10	0.001			<0.2	1.84	3	<10	150	<0.5	<2	1.06	<0.5	10	25



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CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	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
		Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S
		ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
		1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01
Y420101		3	0.65	<10	<1	0.22	20	0.02	197	1	<0.01	3	60	12	<0.01
Y420102		4	0.81	<10	<1	0.21	20	0.02	170	<1	<0.01	3	70	15	<0.01
Y420103		3	1.03	<10	<1	0.20	20	0.03	288	<1	<0.01	6	100	24	<0.01
Y420104		4	0.65	<10	<1	0.19	20	0.03	79	1	<0.01	3	50	9	<0.01
Y420105		3	0.69	<10	<1	0.21	20	0.03	139	2	<0.01	4	60	14	<0.01
Y420106		3	0.75	<10	<1	0.20	20	0.03	133	1	<0.01	4	60	12	<0.01
Y420107		2	0.77	<10	<1	0.21	20	0.03	131	3	<0.01	3	60	18	<0.01
Y420108		6	0.87	<10	<1	0.22	20	0.03	331	2	<0.01	7	80	20	<0.01
Y420109		5	1.04	<10	<1	0.11	30	0.02	412	1	<0.01	10	130	15	<0.01
Y420110		1830	3.94	10	1	0.25	10	0.97	637	27	0.22	181	610	330	0.47
Y420111		8	4.46	<10	<1	0.27	40	0.07	806	1	<0.01	55	630	32	<0.01
Y420112		2	2.91	<10	<1	0.26	30	0.06	1115	1	<0.01	67	460	99	<0.01
Y420113		2	2.71	<10	1	0.25	30	0.04	710	1	<0.01	93	420	80	<0.01
Y420114		3	1.20	<10	1	0.20	30	0.02	141	1	<0.01	5	240	21	<0.01
Y420115		3	1.50	<10	<1	0.21	20	0.01	69	<1	<0.01	7	250	20	<0.01
Y420116		2	1.00	<10	<1	0.20	10	0.01	180	1	<0.01	4	390	16	<0.01
Y420117		40	3.45	<10	1	0.47	40	0.37	1005	1	<0.01	46	570	15	<0.01
Y420118		125	5.12	10	<1	0.93	130	0.77	882	2	<0.01	62	630	18	0.02
Y420119		20	2.52	<10	<1	0.40	20	0.38	510	3	<0.01	51	400	4	0.02
Y420120		97	3.49	10	<1	0.24	10	0.81	471	5	0.20	13	610	3	0.01
Y420121		23	1.77	<10	<1	0.27	20	0.24	323	1	<0.01	30	300	5	<0.01
Y420122		96	4.95	10	<1	0.67	20	0.89	1190	1	<0.01	71	1140	9	<0.01
Y420123		25	3.22	<10	<1	0.45	30	0.16	827	1	<0.01	39	1070	12	<0.01
Y420124		82	3.72	<10	<1	0.25	20	0.14	720	1	<0.01	43	950	14	<0.01
Y420125		13	4.48	10	<1	0.33	30	1.85	698	1	0.01	92	860	6	0.01
Y420126		15	4.38	<10	<1	0.54	20	0.86	1060	4	<0.01	132	970	7	<0.01
Y420127		49	3.89	<10	<1	0.40	20	0.13	863	2	<0.01	84	780	12	<0.01
Y420128		34	4.76	<10	<1	0.53	20	0.36	1285	1	0.01	72	1080	6	<0.01
Y420129		29	4.38	<10	1	0.37	20	0.15	1530	1	<0.01	53	820	8	<0.01
Y420130		241	3.35	10	<1	0.19	10	1.73	608	5	0.31	166	410	211	0.11
Y420131		13	2.55	<10	<1	0.33	40	0.05	541	1	<0.01	23	460	14	<0.01
Y420132		27	3.16	<10	1	0.36	20	0.07	528	2	<0.01	39	760	12	<0.01
Y420133		12	1.35	<10	1	0.28	20	0.04	334	1	<0.01	20	250	38	<0.01
Y420134		8	1.68	<10	<1	0.21	20	0.03	668	1	<0.01	37	260	124	<0.01
Y420135		27	3.73	<10	1	0.27	20	0.05	1110	2	<0.01	43	600	46	<0.01
Y420136		16	0.83	<10	<1	0.27	20	0.02	296	1	<0.01	8	80	34	<0.01
Y420137		2	0.55	<10	<1	0.23	20	0.02	77	1	<0.01	2	50	18	<0.01
Y420138		16	0.79	<10	<1	0.18	20	0.02	158	1	<0.01	2	70	45	<0.01
Y420139		19	1.06	<10	<1	0.16	20	0.01	160	1	<0.01	2	80	33	<0.01
Y420140		100	3.49	<10	<1	0.24	10	0.81	473	5	0.20	13	610	3	0.01



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Page: 2 - C
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CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sc	Sr	Th	Ti	Ti	U	V	W	
		ppm 1	ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	Zn ppm 2
Y420101		<1	9	30	<0.01	<10	10	4	<10	7
Y420102		<1	9	30	<0.01	<10	10	4	<10	3
Y420103		<1	16	30	<0.01	<10	10	7	<10	5
Y420104		<1	8	30	<0.01	<10	<10	3	<10	2
Y420105		<1	19	40	<0.01	<10	10	3	<10	6
Y420106		<1	14	40	<0.01	<10	10	3	<10	5
Y420107		<1	12	30	<0.01	<10	10	3	<10	4
Y420108		<1	11	40	<0.01	<10	10	3	<10	9
Y420109		<1	10	40	<0.01	<10	10	4	<10	15
Y420110		3	89	<20	0.15	<10	<10	100	<10	643
Y420111		5	29	20	<0.01	<10	20	34	<10	73
Y420112		4	27	<20	<0.01	<10	30	28	<10	65
Y420113		3	21	30	<0.01	<10	20	20	<10	56
Y420114		1	19	30	<0.01	<10	<10	8	<10	8
Y420115		1	18	20	<0.01	<10	10	13	<10	8
Y420116		1	28	50	<0.01	<10	<10	9	<10	5
Y420117		7	31	30	0.02	<10	10	50	<10	38
Y420118		7	41	20	0.08	<10	10	52	<10	54
Y420119		10	41	20	0.03	<10	10	61	<10	22
Y420120		3	88	<20	0.16	<10	<10	100	<10	37
Y420121		4	14	30	0.01	<10	<10	27	<10	16
Y420122		12	24	<20	0.04	<10	<10	89	<10	52
Y420123		5	26	20	0.01	<10	10	33	<10	42
Y420124		8	34	<20	0.01	<10	10	60	<10	57
Y420125		10	101	<20	0.02	<10	<10	78	<10	47
Y420126		10	45	<20	0.03	<10	<10	62	<10	65
Y420127		8	49	<20	0.01	<10	<10	40	<10	51
Y420128		9	57	<20	0.02	<10	<10	55	<10	53
Y420129		7	64	<20	0.01	<10	10	55	<10	59
Y420130		3	89	<20	0.11	<10	<10	73	<10	146
Y420131		3	39	20	<0.01	<10	10	26	<10	33
Y420132		4	41	<20	<0.01	<10	30	53	<10	37
Y420133		1	44	20	<0.01	<10	10	18	<10	20
Y420134		1	67	40	<0.01	<10	20	21	<10	43
Y420135		4	48	20	<0.01	<10	40	34	<10	105
Y420136		<1	15	40	<0.01	<10	<10	4	<10	8
Y420137		<1	15	30	<0.01	<10	<10	3	<10	2
Y420138		<1	20	40	<0.01	<10	10	3	<10	6
Y420139		<1	13	40	<0.01	<10	10	2	<10	6
Y420140		3	91	<20	0.16	<10	<10	100	<10	38



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au ppm	Au-ICP21 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
		0.02	0.001	0.05	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
Y420141		2.46	0.020			0.2	0.59	278	<10	60	0.5	<2	0.03	<0.5	6	7
Y420142		2.04	0.021			0.3	0.63	350	<10	110	0.8	<2	0.05	<0.5	6	7
Y420143		1.90	0.007			<0.2	1.75	259	<10	210	2.7	<2	0.37	<0.5	18	51
Y420144		0.98	0.018			0.3	2.53	103	<10	260	1.7	2	2.95	<0.5	27	428
Y420145		1.30	<0.001			1.0	2.14	45	<10	220	1.4	2	4.94	<0.5	37	488
Y420146		1.04	0.004			0.9	1.41	31	<10	170	1.4	2	4.62	<0.5	18	139
Y420147		1.00	0.007			0.9	1.29	30	<10	130	1.2	<2	4.58	0.5	20	162
Y420148		2.14	0.006			0.9	0.41	15	<10	100	0.7	2	3.55	<0.5	10	32
Y420149		1.62	0.009			0.4	0.42	110	<10	140	0.6	2	0.53	<0.5	14	34
Y420150		0.10	6.42		6.07	0.9	2.63	539	<10	110	<0.5	2	2.07	<0.5	45	860
Y420151		2.34	0.009			0.5	1.62	50	<10	80	0.8	2	1.92	<0.5	22	65
Y420152		1.56	0.003			0.5	2.36	12	<10	110	0.9	3	6.67	0.5	24	128
Y420153		1.48	0.001			0.4	1.43	9	<10	420	0.9	<2	4.22	<0.5	15	83
Y420154		1.48	<0.001			0.8	0.31	8	<10	60	0.5	<2	2.43	<0.5	4	21
Y420155		2.04	0.004			<0.2	0.29	41	<10	30	<0.5	<2	0.17	<0.5	3	5
Y420156		1.74	0.006			<0.2	0.27	41	<10	30	<0.5	<2	0.03	<0.5	3	8
Y420157		2.16	0.002			<0.2	0.30	33	<10	20	<0.5	<2	0.03	<0.5	2	8
Y420158		2.30	0.004			<0.2	0.44	36	<10	70	0.5	<2	0.09	<0.5	2	5
Y420159		2.34	<0.001			<0.2	0.24	49	<10	20	<0.5	<2	0.40	<0.5	2	6
Y420160		0.10	<0.001			<0.2	1.80	3	<10	150	<0.5	<2	1.02	<0.5	11	25
Y420161		1.50	<0.001			<0.2	0.27	20	<10	30	0.5	<2	0.43	<0.5	2	11
Y420162		1.92	<0.001			0.5	0.35	19	<10	20	0.8	2	2.93	0.5	8	40
Y420163		1.24	0.025			1.6	1.99	48	<10	90	1.9	4	2.01	1.0	30	65
Y420164		1.24	0.002			0.3	2.69	10	<10	110	2.1	<2	3.27	0.8	26	28
Y420165		2.28	0.001			0.5	1.37	6	<10	80	0.9	<2	1.33	0.5	16	19
Y420166		2.38	<0.001			0.3	0.27	50	<10	50	0.6	<2	1.69	<0.5	5	13
Y420167		2.38	<0.001			<0.2	1.04	32	<10	70	1.1	3	2.47	<0.5	8	59
Y420168		2.44	<0.001			<0.2	2.09	2	<10	90	1.3	<2	2.64	<0.5	20	80
Y420169		2.40	<0.001			<0.2	0.24	5	<10	10	<0.5	<2	0.23	<0.5	<1	6
Y420170		0.10	0.728		0.64	<0.2	2.79	3	<10	100	<0.5	<2	2.06	<0.5	14	104
Y420171		2.18	<0.001			<0.2	1.20	<2	<10	40	0.6	2	1.90	<0.5	10	52
Y420172		2.42	<0.001			<0.2	1.37	<2	<10	70	0.5	2	1.77	<0.5	13	57
Y420173		2.16	<0.001			<0.2	1.60	<2	<10	150	0.5	<2	2.22	<0.5	13	68
Y420174		2.30	<0.001			<0.2	1.87	<2	<10	150	0.6	<2	1.82	<0.5	15	67
Y420175		2.20	<0.001			<0.2	0.25	2	<10	10	<0.5	<2	0.61	<0.5	<1	6
Y420176		2.46	<0.001			<0.2	1.91	2	<10	530	1.2	2	1.61	<0.5	19	38
Y420177		2.28	<0.001			<0.2	1.62	<2	<10	370	1.1	<2	1.03	<0.5	16	43
Y420178		2.62	<0.001			<0.2	3.20	<2	<10	440	1.7	<2	2.72	<0.5	27	49
Y420179		2.50	<0.001			<0.2	2.40	4	<10	210	1.5	<2	2.53	<0.5	22	53
Y420180		0.12	<0.001			<0.2	1.87	<2	<10	150	<0.5	<2	1.07	<0.5	9	25



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Page: 3 - B
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2
Y420141		14	1.09	<10	<1	0.15	20	0.02	137	1	<0.01	2	90	20	<0.01	5
Y420142		162	1.63	<10	1	0.24	20	0.03	377	1	<0.01	7	160	17	<0.01	25
Y420143		17	4.52	10	<1	0.27	50	0.44	559	1	0.01	55	760	19	<0.01	13
Y420144		14	4.39	10	<1	1.27	30	2.67	1090	1	0.01	444	620	88	<0.01	8
Y420145		1	4.87	10	<1	1.09	30	6.53	1775	2	0.01	662	250	245	0.01	4
Y420146		20	4.10	10	<1	0.71	20	2.35	1260	1	0.02	207	480	137	0.07	3
Y420147		24	4.21	<10	<1	0.64	20	2.58	1290	2	0.01	241	320	135	0.16	2
Y420148		10	2.63	<10	<1	0.18	20	0.21	600	1	0.01	37	2070	98	0.01	3
Y420149		12	2.60	<10	<1	0.20	30	0.08	606	1	<0.01	24	650	58	<0.01	4
Y420150		101	7.76	10	<1	0.63	10	2.86	1365	6	0.06	509	510	20	1.03	5
Y420151		32	5.03	10	<1	0.15	30	1.44	935	1	<0.01	34	1200	115	<0.01	7
Y420152		46	5.77	10	<1	0.24	30	2.35	1560	1	<0.01	56	1960	56	0.51	2
Y420153		20	3.09	10	<1	0.56	30	1.50	828	1	<0.01	34	2050	33	0.42	<2
Y420154		8	1.64	<10	<1	0.19	10	0.21	459	<1	<0.01	10	190	81	0.24	<2
Y420155		2	1.18	<10	<1	0.11	30	0.02	199	1	0.02	2	100	19	<0.01	<2
Y420156		2	1.02	<10	1	0.11	20	0.01	172	1	0.03	2	60	9	<0.01	<2
Y420157		4	0.67	<10	<1	0.12	20	0.01	123	1	0.02	1	70	11	<0.01	<2
Y420158		3	0.60	<10	<1	0.10	20	0.01	160	1	0.01	1	70	8	<0.01	<2
Y420159		4	0.62	<10	<1	0.07	20	0.02	136	1	0.06	4	50	6	0.01	<2
Y420160		101	3.48	10	<1	0.24	10	0.80	468	5	0.21	14	580	4	0.02	<2
Y420161		5	0.70	<10	<1	0.16	30	0.11	113	1	0.03	19	120	3	0.01	<2
Y420162		15	1.67	<10	<1	0.13	20	0.93	515	1	0.05	70	140	64	0.03	<2
Y420163		228	4.49	10	<1	0.79	30	2.00	1190	1	0.02	109	840	253	0.02	5
Y420164		54	4.94	10	<1	1.02	40	2.51	1355	<1	0.03	46	1530	18	0.02	3
Y420165		11	2.96	10	<1	0.52	30	1.20	611	1	0.05	14	820	63	0.02	<2
Y420166		2	1.21	<10	<1	0.13	20	0.13	286	1	0.03	19	230	71	0.01	2
Y420167		8	1.95	10	<1	0.63	20	1.03	484	1	0.03	52	230	22	0.01	<2
Y420168		22	3.62	10	<1	1.77	20	2.19	676	1	0.05	35	900	7	0.16	3
Y420169		12	0.79	<10	1	0.06	20	0.10	109	1	0.10	1	30	5	0.12	<2
Y420170		168	2.71	10	1	0.18	10	1.44	462	3	0.31	145	380	12	0.07	3
Y420171		15	2.12	10	<1	0.79	20	1.08	439	1	0.06	16	350	8	0.09	<2
Y420172		21	2.28	10	<1	1.03	10	1.12	400	1	0.05	23	480	14	0.24	<2
Y420173		16	2.47	10	<1	1.17	10	1.42	455	1	0.08	19	400	3	0.13	<2
Y420174		18	2.55	10	<1	1.37	10	1.60	463	1	0.06	19	540	5	0.08	<2
Y420175		7	0.73	<10	<1	0.07	20	0.15	141	1	0.07	1	40	10	0.01	<2
Y420176		23	3.19	10	1	1.47	20	1.72	583	1	0.07	17	950	3	0.23	<2
Y420177		19	2.77	10	1	1.27	20	1.48	462	1	0.06	21	760	<2	0.22	<2
Y420178		32	5.23	10	<1	2.60	30	2.74	957	<1	0.05	26	1620	3	0.11	<2
Y420179		29	3.99	10	1	1.78	30	2.13	746	1	0.05	26	1140	5	0.22	2
Y420180		100	3.46	10	<1	0.23	10	0.80	468	5	0.22	12	570	3	0.01	<2



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Page: 3 - C
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sc	Sr	Th	Ti	Ti	U	V	W	
		ppm 1	ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	Zn ppm 2
Y420141		<1	13	40	<0.01	<10	10	3	<10	6
Y420142		1	16	40	<0.01	<10	10	6	<10	22
Y420143		8	28	<20	<0.01	<10	10	42	<10	70
Y420144		9	100	<20	0.05	<10	10	49	<10	115
Y420145		12	307	<20	0.04	<10	<10	58	<10	146
Y420146		10	217	<20	0.04	<10	10	79	<10	98
Y420147		8	210	<20	0.04	<10	10	72	<10	102
Y420148		3	129	<20	<0.01	<10	<10	39	<10	30
Y420149		4	40	<20	<0.01	<10	<10	35	<10	32
Y420150		7	72	<20	0.10	<10	<10	85	<10	74
Y420151		9	133	20	0.01	<10	<10	94	<10	62
Y420152		14	442	<20	0.02	<10	<10	134	<10	82
Y420153		8	397	30	0.04	<10	<10	80	<10	45
Y420154		2	128	40	<0.01	<10	<10	22	<10	19
Y420155		1	14	40	<0.01	<10	<10	2	<10	9
Y420156		<1	9	30	<0.01	<10	<10	2	<10	5
Y420157		<1	11	40	<0.01	<10	<10	2	<10	3
Y420158		<1	11	30	<0.01	<10	<10	2	<10	4
Y420159		<1	13	40	<0.01	<10	<10	2	<10	6
Y420160		3	85	<20	0.16	<10	<10	100	<10	37
Y420161		<1	68	40	<0.01	<10	<10	5	<10	9
Y420162		2	128	30	<0.01	<10	<10	21	<10	36
Y420163		9	221	20	0.10	<10	<10	101	10	74
Y420164		10	445	20	0.11	<10	<10	126	<10	90
Y420165		6	115	30	0.07	<10	<10	70	<10	46
Y420166		2	25	30	<0.01	<10	<10	16	<10	14
Y420167		4	101	30	0.08	<10	<10	43	<10	40
Y420168		5	93	<20	0.23	<10	<10	89	<10	58
Y420169		1	10	40	0.01	<10	10	4	<10	6
Y420170		3	81	<20	0.10	<10	<10	70	<10	48
Y420171		3	54	30	0.11	<10	<10	39	<10	32
Y420172		3	50	20	0.17	<10	10	45	<10	34
Y420173		3	51	20	0.18	<10	10	51	<10	31
Y420174		3	33	30	0.17	<10	<10	48	<10	34
Y420175		<1	14	40	0.01	<10	<10	4	<10	5
Y420176		4	63	20	0.22	<10	10	76	<10	49
Y420177		3	46	20	0.21	<10	10	64	<10	40
Y420178		7	86	<20	0.28	<10	<10	142	<10	77
Y420179		7	92	20	0.18	<10	<10	102	<10	55
Y420180		3	91	<20	0.16	<10	<10	100	<10	37



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Page: 4 - A
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	Au-AA13 Au ppm 0.03	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
Y420181		2.40	<0.001			<0.2	3.03	7	<10	250	2.6	<2	3.87	<0.5	32	143
Y420182		2.16	<0.001			<0.2	0.27	7	<10	30	<0.5	2	0.12	<0.5	2	6
Y420183		2.18	<0.001			<0.2	2.39	7	<10	290	0.8	<2	2.19	<0.5	22	92
Y420184		2.38	<0.001			<0.2	2.06	4	<10	210	0.7	<2	1.65	<0.5	16	50
Y420185		1.06	<0.001			<0.2	0.22	<2	<10	10	<0.5	<2	0.34	<0.5	<1	8
Y420186		1.00	<0.001			<0.2	0.17	2	<10	10	<0.5	<2	0.36	<0.5	<1	9
Y420187		2.34	<0.001			<0.2	0.18	<2	<10	10	<0.5	<2	0.43	<0.5	<1	8
Y420188		2.50	<0.001			<0.2	2.20	4	<10	240	0.7	<2	2.41	<0.5	18	85
Y420189		2.30	<0.001			<0.2	1.02	14	<10	110	<0.5	<2	1.03	<0.5	8	39
Y420190		0.12	0.140			<0.2	0.78	81	10	280	0.6	4	13.6	0.7	4	18
Y420191		1.20	<0.001			<0.2	0.24	4	<10	10	<0.5	<2	0.26	<0.5	<1	8



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VANCOUVER BC V6C 2X8

Page: 4 - B
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	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
		Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S
		ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
		1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01
Y420181		30	4.64	10	<1	1.56	10	2.73	968	<1	0.04	55	750	9	0.10
Y420182		7	0.62	<10	<1	0.12	20	0.06	98	1	0.08	2	40	<2	0.01
Y420183		27	3.26	10	<1	1.72	10	2.07	616	1	0.06	30	560	5	0.01
Y420184		23	3.00	10	<1	1.23	20	1.62	549	<1	0.06	18	780	5	<0.01
Y420185		2	0.47	<10	<1	0.08	10	0.07	94	1	0.08	1	30	3	<0.01
Y420186		1	0.48	<10	<1	0.05	10	0.04	102	1	0.08	1	40	2	<0.01
Y420187		1	0.32	<10	1	0.04	10	0.03	85	1	0.09	1	40	2	<0.01
Y420188		20	2.90	10	<1	1.48	10	1.83	565	<1	0.06	24	480	2	0.03
Y420189		13	1.53	<10	1	0.63	10	0.73	301	1	0.07	11	220	14	0.04
Y420190		10	1.09	<10	1	0.38	10	3.56	228	4	0.03	20	270	9	0.03
Y420191		5	0.53	<10	1	0.09	20	0.06	100	1	0.08	<1	40	11	<0.01



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VANCOUVER BC V6C 2X8

Page: 4 - C
Total # Pages: 4 (A - C)
Plus Appendix Pages
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sc	Sr	Th	Ti	Tl	U	V	W	Zn
		ppm 1	ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
Y420181		13	221	<20	0.17	<10	<10	94	<10	69
Y420182		1	8	50	<0.01	<10	<10	4	<10	3
Y420183		3	52	20	0.23	<10	<10	69	<10	42
Y420184		3	77	20	0.17	<10	<10	64	<10	42
Y420185		<1	8	30	0.01	<10	<10	2	<10	2
Y420186		<1	7	30	<0.01	<10	<10	2	<10	2
Y420187		<1	7	40	<0.01	<10	<10	2	<10	<2
Y420188		3	40	<20	0.24	<10	<10	60	<10	39
Y420189		1	25	30	0.11	<10	10	23	<10	17
Y420190		3	158	<20	0.02	<10	<10	54	20	79
Y420191		<1	8	40	<0.01	<10	<10	2	<10	4



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 7-NOV-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18245531

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA13

Au-GRA21

Au-ICP21

BAG-01

CRU-31

CRU-QC

LOG-21

LOG-23

ME-ICP41

PUL-32m

PUL-QC

SPL-21

WEI-21