



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

Page: 1
Finalized Date: 7-AUG-2012
This copy reported on
6-NOV-2012
Account: KAMGOL

CERTIFICATE WH12168699

Project: Coffee

P.O. No.: KGC-12-1576

This report is for 125 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19-JUL-2012.

The following have access to data associated with this certificate:

TOM BOKENFOHR

JAMES SCOTT

TIM SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG-21	Sample logging - ClientBarCode
WEI-21	Received Sample Weight
SPLIT-Z	Pulp split for send out
LOG-23	Pulp Login - Rcvd with Barcode
SPL-22Y	Split Sample - Boyd Rotary Splitter
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um

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

To: KAMINAK GOLD CORPORATION
ATTN: ALS MINERALS

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.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
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CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	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	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
KAM080071		1.05	0.005	<0.2	0.52	32	<10	50	0.8	<2	0.35	<0.5	3	8	3	1.25
KAM080072		1.24	0.006	<0.2	0.53	22	<10	80	0.7	<2	0.68	<0.5	4	5	3	1.28
KAM080073		1.30	0.011	<0.2	0.47	20	<10	80	0.5	<2	0.52	<0.5	3	6	2	1.38
KAM080074		1.16	0.014	<0.2	0.63	68	<10	100	0.7	<2	0.13	<0.5	5	10	2	1.92
KAM080075		0.99	0.007	<0.2	0.65	45	<10	790	0.7	<2	0.14	<0.5	4	7	3	1.36
KAM080076		1.15	0.018	<0.2	0.65	78	<10	80	0.8	<2	0.10	<0.5	7	7	27	2.42
KAM080077		1.13	0.257	0.3	0.40	476	<10	40	0.8	<2	0.53	<0.5	4	5	2	1.50
KAM080078		1.05	0.003	<0.2	0.46	60	<10	70	0.7	3	0.64	<0.5	14	8	25	2.41
KAM080079		1.11	0.005	<0.2	0.35	32	<10	120	0.8	2	0.96	<0.5	15	6	35	4.34
KAM080080		0.06	0.004	0.5	1.53	3	<10	90	<0.5	<2	0.81	<0.5	9	29	24	2.41
KAM080081		1.09	0.003	<0.2	0.40	12	<10	30	0.6	<2	0.91	<0.5	8	10	15	1.79
KAM080082		1.16	0.002	<0.2	0.45	28	<10	30	0.7	<2	0.77	<0.5	6	8	13	1.64
KAM080083		1.07	0.014	<0.2	0.53	211	<10	120	0.9	<2	1.22	<0.5	4	5	4	1.76
KAM080084		2.21	0.014	0.2	0.29	156	<10	30	<0.5	30	0.98	<0.5	9	4	4	1.69
KAM080085		2.12	0.011	<0.2	0.41	302	<10	40	0.6	2	1.03	<0.5	8	7	6	1.75
KAM080086		2.32	0.003	<0.2	0.60	117	<10	130	0.7	7	0.97	<0.5	5	8	6	1.70
KAM080087		2.28	0.002	<0.2	0.48	31	<10	130	0.7	<2	0.95	<0.5	5	14	11	1.76
KAM080088		0.95	0.012	0.2	0.39	152	<10	40	0.7	<2	0.62	<0.5	3	6	6	1.19
KAM080089		1.15	0.032	<0.2	0.40	159	<10	50	0.5	2	0.36	<0.5	7	9	2	1.80
KAM080090		0.06	2.70	0.6	1.08	9	<10	100	<0.5	<2	0.75	<0.5	8	39	37	2.58
KAM080091		0.78	0.047	<0.2	0.59	432	<10	30	0.7	<2	0.16	<0.5	7	6	1	1.88
KAM080092		1.20	0.177	<0.2	1.27	250	<10	70	1.5	<2	0.26	<0.5	6	8	9	1.92
KAM080093		0.48	0.011	<0.2	1.29	143	<10	50	1.2	<2	0.26	<0.5	4	5	10	1.19
KAM080094		0.84	0.057	<0.2	0.50	314	<10	60	0.8	<2	0.49	<0.5	3	6	10	1.15
KAM080095		1.36	0.061	<0.2	0.40	600	<10	30	0.6	<2	1.10	<0.5	4	4	12	1.44
KAM080096		0.94	0.072	<0.2	0.30	347	<10	50	<0.5	<2	0.85	<0.5	1	3	3	0.82
KAM080097		1.02	0.037	<0.2	0.23	574	<10	50	<0.5	<2	1.05	<0.5	2	3	3	1.46
KAM080098		1.14	0.045	<0.2	0.26	597	<10	440	<0.5	<2	1.87	<0.5	3	2	14	1.40
KAM080099		1.02	0.053	<0.2	0.26	221	<10	60	<0.5	<2	0.87	<0.5	5	1	8	1.16
KAM080100		0.06	0.002	0.2	1.66	5	<10	90	<0.5	<2	0.92	<0.5	9	31	25	2.52
KAM080101		1.21	0.063	<0.2	0.24	429	<10	90	<0.5	<2	0.63	<0.5	2	1	5	0.97
KAM080102		1.03	0.044	<0.2	0.23	518	<10	180	<0.5	<2	1.26	<0.5	3	1	5	1.26
KAM080103		1.17	0.002	<0.2	0.40	51	<10	30	0.5	<2	1.04	<0.5	4	10	10	0.93
KAM080104		1.05	0.003	<0.2	0.59	28	<10	80	0.7	<2	1.73	<0.5	7	6	21	1.18
KAM080105		1.21	0.036	<0.2	0.49	204	<10	20	<0.5	<2	0.36	<0.5	3	6	18	0.79
KAM080106		1.05	0.058	<0.2	0.34	469	<10	470	0.5	<2	1.24	<0.5	5	3	8	1.50
KAM080107		1.36	0.024	<0.2	0.56	535	<10	20	0.8	<2	1.95	<0.5	4	6	16	1.39
KAM080108		2.21	0.003	<0.2	1.86	211	<10	290	2.0	<2	2.56	<0.5	15	70	15	3.12
KAM080109		2.27	0.026	<0.2	0.43	85	<10	40	0.6	<2	1.23	<0.5	4	7	24	1.30
KAM080110		0.06	0.440	0.2	0.76	588	<10	630	<0.5	<2	0.65	<0.5	2	105	11	6.11



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Page: 2 - B
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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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
KAM080071		<10	<1	0.21	30	0.08	104	1	0.04	4	220	4	0.13	<2	2
KAM080072		<10	<1	0.23	30	0.18	137	<1	0.03	4	230	4	0.21	2	1
KAM080073		<10	<1	0.17	30	0.09	145	1	0.03	5	240	4	0.30	<2	1
KAM080074		<10	<1	0.21	20	0.20	119	<1	0.05	4	290	5	0.54	4	2
KAM080075		<10	<1	0.23	40	0.22	138	<1	0.04	4	300	3	0.21	3	2
KAM080076		<10	<1	0.27	30	0.14	77	1	0.04	5	240	5	1.13	2	2
KAM080077		<10	<1	0.18	40	0.17	77	<1	0.03	4	230	8	0.43	<2	2
KAM080078		<10	<1	0.23	40	0.27	129	1	0.06	6	250	5	1.47	3	2
KAM080079		<10	<1	0.18	30	0.36	206	1	0.05	5	170	5	1.23	<2	2
KAM080080		10	<1	0.12	<10	0.74	375	2	0.08	21	570	3	0.07	<2	4
KAM080081		<10	<1	0.19	30	0.39	184	1	0.08	4	210	4	0.89	<2	2
KAM080082		<10	<1	0.22	40	0.29	139	1	0.05	5	270	3	0.67	2	3
KAM080083		<10	<1	0.18	40	0.19	544	1	0.03	4	230	7	0.23	3	1
KAM080084		<10	<1	0.13	20	0.33	157	5	0.05	5	260	8	1.15	<2	1
KAM080085		<10	<1	0.17	30	0.35	162	1	0.06	5	250	5	1.06	2	1
KAM080086		<10	<1	0.34	40	0.46	211	2	0.04	5	290	4	0.66	2	2
KAM080087		<10	<1	0.30	30	0.36	222	1	0.05	5	310	5	0.71	<2	3
KAM080088		<10	<1	0.18	30	0.22	148	<1	0.05	3	240	4	0.24	2	2
KAM080089		<10	<1	0.13	30	0.16	108	<1	0.06	4	210	4	0.74	2	2
KAM080090		<10	<1	0.08	<10	0.54	379	5	0.07	27	480	7	0.16	2	4
KAM080091		<10	<1	0.10	30	0.16	81	<1	0.03	2	240	3	0.03	5	1
KAM080092		<10	<1	0.17	40	0.33	176	<1	0.03	9	260	9	0.01	8	2
KAM080093		<10	<1	0.17	30	0.33	152	<1	0.02	9	270	6	0.01	9	1
KAM080094		<10	<1	0.20	30	0.08	153	<1	0.04	3	220	9	0.05	3	1
KAM080095		<10	<1	0.11	30	0.31	155	<1	0.04	4	190	10	0.73	3	2
KAM080096		<10	<1	0.24	10	0.15	167	<1	0.02	1	190	8	0.23	<2	1
KAM080097		<10	<1	0.21	10	0.06	280	<1	0.02	3	90	18	0.10	3	3
KAM080098		<10	<1	0.24	20	0.06	443	<1	0.02	2	40	36	0.09	7	3
KAM080099		<10	<1	0.23	10	0.09	278	<1	0.02	<1	60	14	0.16	4	2
KAM080100		<10	<1	0.13	<10	0.78	407	1	0.10	23	590	<2	0.06	<2	5
KAM080101		<10	<1	0.24	10	0.18	194	<1	0.01	<1	90	17	0.26	3	2
KAM080102		<10	<1	0.22	10	0.18	378	<1	0.02	1	180	17	0.28	2	2
KAM080103		<10	<1	0.14	20	0.31	147	<1	0.02	3	140	14	0.24	2	3
KAM080104		<10	<1	0.08	30	0.36	133	<1	0.01	3	150	4	0.35	<2	4
KAM080105		<10	<1	0.08	20	0.06	81	1	0.02	1	20	14	0.23	5	1
KAM080106		<10	<1	0.14	20	0.30	325	<1	0.02	2	130	15	0.45	2	2
KAM080107		<10	<1	0.09	30	0.58	229	<1	0.03	3	70	8	0.71	6	2
KAM080108		<10	<1	1.27	20	1.86	651	2	0.04	29	410	4	0.31	3	8
KAM080109		<10	<1	0.12	30	0.39	193	2	0.03	2	90	11	0.57	3	3
KAM080110		<10	11	0.11	20	0.04	11	3	0.05	7	430	5	0.28	35	2



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Page: 2 - C
 Total # Pages: 5 (A - C)
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CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
KAM080071		20	<0.01	<10	<10	6	<10	11
KAM080072		20	0.01	<10	<10	5	<10	11
KAM080073		20	<0.01	<10	<10	5	<10	10
KAM080074		20	0.01	<10	<10	8	<10	9
KAM080075		20	0.01	<10	<10	7	<10	10
KAM080076		20	0.01	<10	<10	6	<10	12
KAM080077		20	<0.01	<10	<10	5	<10	11
KAM080078		20	0.01	<10	<10	9	<10	13
KAM080079		30	<0.01	<10	<10	35	<10	16
KAM080080		<20	0.13	<10	<10	58	10	42
KAM080081		20	0.01	<10	<10	9	<10	13
KAM080082		20	0.01	<10	<10	11	<10	14
KAM080083		20	<0.01	<10	<10	4	<10	11
KAM080084		20	<0.01	<10	<10	2	<10	9
KAM080085		20	<0.01	<10	<10	4	<10	12
KAM080086		20	0.03	<10	<10	9	<10	13
KAM080087		20	0.02	<10	<10	23	<10	14
KAM080088		20	0.01	<10	<10	6	<10	13
KAM080089		20	<0.01	<10	<10	5	<10	9
KAM080090		<20	0.10	<10	<10	50	10	44
KAM080091		20	<0.01	<10	<10	5	<10	12
KAM080092		20	<0.01	<10	<10	6	<10	17
KAM080093		20	<0.01	<10	<10	5	<10	13
KAM080094		20	<0.01	<10	<10	3	<10	8
KAM080095		20	<0.01	<10	<10	4	<10	13
KAM080096		<20	<0.01	<10	<10	2	<10	3
KAM080097		<20	<0.01	<10	<10	9	<10	11
KAM080098		<20	<0.01	<10	10	9	<10	13
KAM080099		<20	<0.01	<10	<10	8	<10	6
KAM080100		<20	0.16	<10	<10	65	10	44
KAM080101		<20	<0.01	<10	<10	6	<10	4
KAM080102		<20	<0.01	<10	<10	9	<10	10
KAM080103		20	<0.01	<10	<10	13	<10	10
KAM080104		20	<0.01	<10	<10	14	<10	10
KAM080105		20	<0.01	<10	<10	1	<10	2
KAM080106		20	<0.01	<10	10	4	<10	11
KAM080107		20	<0.01	<10	10	5	<10	14
KAM080108		20	0.10	<10	10	55	<10	39
KAM080109		20	<0.01	<10	<10	12	<10	20
KAM080110		<20	0.01	<10	<10	94	<10	13



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	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	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
KAM080111		2.17	0.012	<0.2	0.40	326	<10	90	0.7	<2	1.39	<0.5	5	7	9	1.31
KAM080112		2.39	0.005	<0.2	1.01	86	<10	160	0.8	<2	1.18	<0.5	8	18	10	2.07
KAM080113		2.23	0.024	<0.2	0.83	345	<10	210	0.7	<2	1.47	<0.5	6	15	5	1.52
KAM080114		2.23	0.009	0.2	1.09	400	<10	110	0.8	<2	1.40	<0.5	10	41	6	2.17
KAM080115		2.07	0.013	<0.2	0.24	24	<10	10	<0.5	<2	0.60	<0.5	3	8	7	1.00
KAM080116		1.15	0.003	<0.2	0.47	65	<10	10	<0.5	<2	0.40	<0.5	1	3	3	0.72
KAM080117		1.29	0.002	<0.2	0.38	23	<10	10	<0.5	<2	0.57	<0.5	2	5	3	0.79
KAM080118		0.99	0.001	<0.2	0.58	13	<10	10	0.9	<2	1.95	<0.5	3	4	4	1.34
KAM080119		1.22	0.001	<0.2	0.77	15	<10	10	0.8	<2	2.35	<0.5	5	15	5	1.85
KAM080120		0.06	0.001	0.3	1.68	8	<10	90	<0.5	<2	0.91	<0.5	9	31	25	2.50
KAM080121		1.03	0.002	<0.2	0.85	44	<10	30	0.7	<2	1.43	<0.5	6	9	8	1.94
KAM080122		1.19	0.001	<0.2	0.64	17	<10	10	0.6	<2	0.97	<0.5	4	8	5	1.44
KAM080123		1.14	0.002	<0.2	0.78	13	<10	10	0.7	<2	2.67	<0.5	5	12	5	2.74
KAM080124		1.20	0.011	<0.2	0.63	23	<10	30	0.7	<2	2.99	<0.5	5	9	1	2.28
KAM080125		1.17	0.002	<0.2	0.76	9	<10	30	0.6	<2	1.87	<0.5	4	8	2	1.64
KAM080126		1.22	0.002	<0.2	0.78	16	<10	30	0.7	<2	1.64	<0.5	7	14	1	2.35
KAM080127		1.44	0.001	<0.2	1.19	23	<10	40	0.9	<2	1.06	<0.5	5	22	4	1.95
KAM080128		1.14	0.001	<0.2	0.38	30	<10	30	0.5	5	1.28	<0.5	3	5	8	1.19
KAM080129		1.17	0.004	<0.2	0.62	33	<10	20	0.6	3	1.58	<0.5	7	7	3	2.33
KAM080130		0.06	9.45	1.4	1.20	16	<10	50	<0.5	3	0.69	<0.5	11	30	56	3.41
KAM080131		1.02	0.006	<0.2	0.73	21	<10	30	0.7	3	1.61	<0.5	8	18	1	1.98
KAM080132		1.15	0.052	<0.2	0.96	181	<10	70	1.2	5	1.59	<0.5	15	7	70	4.34
KAM080133		1.01	0.028	<0.2	0.64	230	<10	50	0.5	4	0.09	<0.5	7	7	3	2.15
KAM080134		1.03	0.020	<0.2	0.69	480	<10	80	0.8	5	0.10	<0.5	7	7	4	2.22
KAM080135		0.91	0.010	<0.2	0.64	554	<10	210	1.2	4	0.08	<0.5	10	9	19	2.78
KAM080136		1.60	0.054	<0.2	0.78	992	<10	100	0.8	5	0.78	<0.5	11	16	8	3.51
KAM080137		1.30	0.017	<0.2	0.66	458	<10	60	0.8	5	0.11	<0.5	10	18	5	2.52
KAM080138		1.08	0.019	<0.2	0.73	446	<10	60	0.7	4	0.11	<0.5	7	13	4	2.25
KAM080139		1.21	0.017	<0.2	0.57	434	<10	80	0.8	4	0.09	<0.5	7	8	2	2.04
KAM080140		0.06	0.003	0.2	1.54	5	<10	90	<0.5	4	0.81	<0.5	9	28	22	2.35
KAM080141		0.96	0.008	<0.2	1.15	315	<10	110	1.3	4	0.28	<0.5	11	13	7	2.36
KAM080142		1.10	0.004	<0.2	1.01	54	<10	40	0.7	5	0.89	<0.5	12	17	4	1.59
KAM080143		1.11	0.053	<0.2	0.99	162	<10	30	1.1	5	2.63	<0.5	17	52	3	2.01
KAM080144		1.12	0.036	<0.2	1.55	545	<10	70	1.8	4	1.15	<0.5	18	65	17	4.15
KAM080145		1.26	0.060	<0.2	1.11	560	<10	130	1.6	5	0.24	<0.5	15	21	17	3.55
KAM080146		0.95	0.056	<0.2	0.60	552	<10	50	0.7	4	1.59	<0.5	10	12	6	2.10
KAM080147		1.11	0.006	<0.2	0.56	145	<10	60	0.5	3	1.18	<0.5	2	4	9	0.61
KAM080148		1.48	0.020	<0.2	0.41	283	<10	90	0.5	4	1.00	<0.5	2	5	2	0.83
KAM080149		0.92	0.043	<0.2	0.46	528	<10	90	0.7	4	1.02	<0.5	3	6	3	1.43
KAM080150		0.06	1.950	0.4	1.95	7	<10	120	<0.5	3	1.02	<0.5	11	34	35	3.09



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Page: 3 - B
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	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	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
KAM080111		<10	<1	0.14	20	0.44	242	<1	0.03	2	120	8	0.54	2	3	124
KAM080112		<10	<1	0.57	40	0.66	250	<1	0.04	15	220	5	0.65	2	4	63
KAM080113		<10	<1	0.39	30	0.54	270	1	0.03	12	260	3	0.31	<2	3	85
KAM080114		<10	1	0.58	20	0.88	298	4	0.05	28	400	3	0.50	2	5	98
KAM080115		<10	<1	0.07	20	0.16	70	1	0.06	1	10	3	0.76	<2	1	31
KAM080116		<10	1	0.09	20	0.10	55	1	0.01	<1	10	6	0.23	<2	1	18
KAM080117		<10	1	0.08	20	0.17	64	1	0.01	<1	10	4	0.21	<2	1	23
KAM080118		<10	<1	0.08	30	0.34	152	<1	0.02	3	50	5	0.38	<2	3	53
KAM080119		<10	<1	0.09	40	0.71	178	<1	0.02	7	300	3	0.68	<2	5	75
KAM080120		<10	<1	0.13	<10	0.77	404	1	0.10	22	600	<2	0.05	<2	5	44
KAM080121		<10	<1	0.12	40	0.48	125	<1	0.02	7	250	5	0.82	2	3	55
KAM080122		<10	<1	0.08	40	0.28	94	<1	0.01	8	200	3	0.28	<2	3	33
KAM080123		<10	<1	0.08	30	0.93	180	<1	0.02	8	190	9	1.82	<2	3	60
KAM080124		<10	<1	0.12	30	0.60	231	<1	0.01	7	210	4	0.69	3	2	45
KAM080125		<10	<1	0.15	40	0.62	154	<1	0.01	7	230	5	0.76	<2	2	48
KAM080126		<10	1	0.19	40	0.61	140	1	0.03	9	320	4	1.40	<2	3	52
KAM080127		<10	<1	0.36	40	0.54	110	2	0.04	9	340	4	1.13	<2	4	38
KAM080128		<10	<1	0.05	20	0.18	70	2	0.03	1	30	6	0.97	2	1	54
KAM080129		<10	<1	0.10	30	0.49	160	2	0.01	5	370	9	1.07	<2	2	54
KAM080130		<10	3	0.20	10	0.60	359	853	0.08	26	430	8	1.39	29	4	55
KAM080131		<10	<1	0.08	30	0.11	152	2	0.01	10	150	5	0.08	<2	4	32
KAM080132		<10	<1	0.13	40	0.09	367	1	0.01	5	1320	10	0.02	15	8	63
KAM080133		<10	<1	0.09	40	0.04	237	1	0.01	5	230	7	0.01	7	3	26
KAM080134		<10	<1	0.08	40	0.04	383	<1	<0.01	6	150	9	<0.01	33	2	27
KAM080135		<10	<1	0.07	30	0.07	886	<1	0.01	9	160	11	<0.01	70	3	37
KAM080136		<10	<1	0.18	40	0.07	364	<1	0.01	13	300	11	0.01	34	3	31
KAM080137		<10	<1	0.15	40	0.09	190	<1	<0.01	15	300	9	<0.01	20	4	26
KAM080138		<10	<1	0.14	50	0.04	54	<1	0.01	6	340	8	<0.01	17	3	21
KAM080139		<10	<1	0.14	50	0.05	219	<1	<0.01	5	320	6	<0.01	30	1	16
KAM080140		<10	<1	0.12	<10	0.71	373	2	0.07	20	570	2	0.04	<2	5	39
KAM080141		<10	<1	0.18	40	0.29	334	<1	0.01	12	390	7	<0.01	17	4	25
KAM080142		<10	<1	0.17	20	0.29	53	<1	0.01	13	390	7	<0.01	3	3	26
KAM080143		<10	<1	0.14	20	0.16	109	<1	0.01	21	680	5	<0.01	7	12	28
KAM080144		10	<1	0.49	40	0.61	241	<1	0.01	35	700	5	<0.01	26	14	27
KAM080145		<10	<1	0.25	30	0.36	329	<1	0.02	29	370	17	0.01	12	4	25
KAM080146		<10	<1	0.17	30	0.11	238	1	0.01	15	280	23	<0.01	8	2	42
KAM080147		<10	<1	0.17	40	0.03	216	<1	0.01	1	190	10	<0.01	7	<1	35
KAM080148		<10	<1	0.12	30	0.03	331	<1	0.01	1	180	8	<0.01	14	<1	26
KAM080149		<10	<1	0.22	30	0.04	282	<1	0.01	2	220	14	<0.01	22	1	14
KAM080150		10	<1	0.16	<10	0.89	479	3	0.11	24	660	6	0.05	2	6	51



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Page: 3 - C
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	Zn
		ppm	%	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	2
KAM080111		20	0.01	<10	10	7	<10
KAM080112		20	0.05	<10	<10	17	<10
KAM080113		20	0.03	<10	<10	12	<10
KAM080114		<20	0.06	<10	10	31	<10
KAM080115		30	<0.01	<10	<10	2	<10
KAM080116		20	<0.01	<10	<10	1	<10
KAM080117		30	<0.01	<10	<10	1	<10
KAM080118		30	<0.01	<10	<10	7	<10
KAM080119		20	<0.01	<10	<10	17	<10
KAM080120		<20	0.16	<10	<10	65	10
KAM080121		20	<0.01	<10	<10	8	<10
KAM080122		20	<0.01	<10	<10	7	<10
KAM080123		20	<0.01	<10	<10	11	<10
KAM080124		20	<0.01	<10	<10	6	<10
KAM080125		20	<0.01	<10	<10	6	<10
KAM080126		20	<0.01	<10	<10	10	<10
KAM080127		20	0.02	<10	<10	17	<10
KAM080128		30	<0.01	<10	<10	1	<10
KAM080129		30	<0.01	<10	<10	6	<10
KAM080130		<20	0.09	<10	<10	56	20
KAM080131		20	<0.01	<10	<10	12	<10
KAM080132		20	<0.01	<10	<10	90	<10
KAM080133		20	<0.01	<10	<10	8	<10
KAM080134		20	<0.01	<10	<10	7	<10
KAM080135		20	<0.01	<10	<10	11	<10
KAM080136		20	<0.01	<10	<10	14	<10
KAM080137		20	<0.01	<10	<10	17	<10
KAM080138		20	<0.01	<10	<10	11	<10
KAM080139		20	<0.01	<10	<10	6	<10
KAM080140		<20	0.14	<10	<10	59	20
KAM080141		20	<0.01	<10	<10	14	<10
KAM080142		<20	<0.01	<10	<10	16	<10
KAM080143		<20	<0.01	<10	<10	51	<10
KAM080144		<20	0.03	<10	<10	61	<10
KAM080145		<20	0.01	<10	<10	21	<10
KAM080146		20	<0.01	<10	<10	7	<10
KAM080147		30	<0.01	<10	<10	3	<10
KAM080148		30	<0.01	<10	<10	3	<10
KAM080149		30	<0.01	<10	<10	4	<10
KAM080150		<20	0.17	<10	<10	76	20



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Page: 4 - A
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	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	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
KAM080151		1.31	0.076	<0.2	0.65	1610	<10	210	1.4	3	2.37	<0.5	12	23	8	3.35
KAM080152		1.22	0.015	<0.2	0.56	229	<10	50	0.5	4	1.06	<0.5	2	4	4	0.68
KAM080153		1.20	0.025	<0.2	0.43	896	<10	60	0.5	3	1.84	<0.5	8	9	3	1.08
KAM080154		1.15	0.006	<0.2	0.50	129	<10	10	<0.5	4	0.24	<0.5	1	4	2	0.42
KAM080155		1.19	0.012	<0.2	0.35	36	<10	10	<0.5	3	0.30	<0.5	1	5	<1	0.36
KAM080156		1.17	0.007	<0.2	0.41	27	<10	10	<0.5	4	1.03	<0.5	1	3	4	0.43
KAM080157		1.25	0.026	<0.2	0.35	55	<10	20	0.5	3	1.31	<0.5	1	5	<1	0.39
KAM080158		1.12	0.018	<0.2	0.49	85	<10	20	0.5	3	1.45	<0.5	1	4	1	0.39
KAM080159		1.28	0.033	<0.2	0.39	112	<10	10	<0.5	3	0.08	<0.5	1	6	3	0.55
KAM080160		0.06	0.001	0.2	1.72	3	<10	100	<0.5	2	0.92	<0.5	10	32	25	2.63
KAM080161		1.09	0.022	<0.2	0.49	61	<10	10	<0.5	3	0.03	<0.5	1	3	4	0.52
KAM080162		1.26	0.021	<0.2	0.41	46	<10	10	<0.5	3	0.03	<0.5	1	5	1	0.44
KAM080163		1.20	0.070	<0.2	0.51	90	<10	10	<0.5	4	0.64	<0.5	1	3	1	0.57
KAM080164		1.15	0.019	<0.2	0.50	136	<10	10	<0.5	<2	0.27	<0.5	1	5	11	0.49
KAM080165		1.24	0.019	<0.2	0.48	192	<10	10	<0.5	<2	0.48	<0.5	1	4	5	0.64
KAM080166		1.27	0.011	<0.2	0.62	720	<10	20	1.3	<2	2.94	<0.5	10	55	2	1.88
KAM080167		2.42	0.009	<0.2	0.40	275	<10	30	0.8	<2	1.84	<0.5	3	20	2	1.11
KAM080168		2.63	0.021	<0.2	1.35	245	<10	50	1.5	<2	3.89	<0.5	8	34	12	2.17
KAM080169		2.43	0.003	<0.2	3.02	19	<10	70	2.3	<2	4.02	<0.5	20	77	25	3.61
KAM080170		0.06	5.43	1.0	1.60	39	<10	100	<0.5	<2	0.67	<0.5	9	35	83	3.48
KAM080171		2.64	0.009	<0.2	1.78	72	<10	40	1.3	<2	2.08	<0.5	12	49	12	2.24
KAM080172		2.59	0.004	<0.2	0.30	120	<10	10	<0.5	<2	0.86	<0.5	2	5	5	0.77
KAM080173		1.32	0.004	<0.2	0.25	493	<10	10	<0.5	<2	0.80	<0.5	3	6	5	0.73
KAM080174		1.27	0.009	<0.2	0.75	1955	<10	50	1.2	<2	2.63	<0.5	12	28	15	2.09
KAM080175		1.32	0.001	<0.2	2.36	188	<10	490	1.1	<2	3.62	<0.5	20	89	4	3.23
KAM080176		1.22	<0.001	<0.2	1.85	29	<10	350	0.8	<2	3.56	<0.5	15	59	5	3.51
KAM080177		2.60	0.001	<0.2	1.03	83	<10	30	1.0	<2	2.10	<0.5	6	25	8	1.65
KAM080178		2.33	0.001	<0.2	1.98	70	<10	60	1.5	<2	2.70	<0.5	13	51	12	2.87
KAM080179		2.54	0.001	<0.2	0.40	61	<10	10	0.5	<2	0.83	<0.5	2	7	4	0.68
KAM080180		0.06	0.003	<0.2	1.75	4	<10	100	<0.5	<2	0.93	<0.5	9	32	24	2.63
KAM080181		2.76	0.001	<0.2	0.41	84	<10	20	0.5	2	1.21	<0.5	3	5	1	0.91
KAM080182		2.66	<0.001	<0.2	2.74	18	<10	150	1.8	<2	4.07	<0.5	22	108	16	3.46
KAM080183		2.81	<0.001	<0.2	1.48	3	<10	60	1.0	<2	2.11	<0.5	7	34	3	1.75
KAM080184		2.65	<0.001	<0.2	0.52	6	<10	10	0.5	<2	1.69	<0.5	1	11	1	0.73
KAM080185		2.96	<0.001	<0.2	1.80	3	<10	30	1.3	<2	1.60	<0.5	9	40	12	1.97
KAM080186		2.60	<0.001	<0.2	0.34	2	<10	20	<0.5	<2	1.01	<0.5	1	4	5	0.69
KAM080187		2.58	0.002	<0.2	2.42	3	<10	70	1.4	<2	3.47	<0.5	17	79	10	3.34
KAM080188		2.84	0.013	<0.2	0.97	55	<10	60	1.2	<2	2.92	<0.5	7	16	12	1.83
KAM080189		2.52	0.009	<0.2	0.45	48	<10	60	0.6	<2	1.51	<0.5	3	9	4	1.08
KAM080190		0.06	0.818	0.4	1.71	7	<10	150	<0.5	<2	0.93	<0.5	13	37	47	3.25



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Page: 4 - B
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	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	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
KAM080151		<10	<1	0.26	30	0.12	950	1	0.01	18	630	13	0.01	41	4	32
KAM080152		<10	<1	0.15	20	0.03	226	<1	0.01	2	120	14	0.01	3	<1	9
KAM080153		<10	<1	0.12	20	0.06	460	1	0.01	11	230	15	0.08	5	1	22
KAM080154		<10	<1	0.10	20	0.02	52	2	<0.01	<1	50	9	0.02	<2	<1	12
KAM080155		<10	<1	0.12	20	0.01	42	3	<0.01	<1	40	12	0.08	<2	<1	6
KAM080156		<10	<1	0.15	10	0.01	59	4	<0.01	<1	40	12	0.27	<2	<1	31
KAM080157		<10	<1	0.12	10	0.06	89	4	0.01	<1	40	10	0.20	2	<1	54
KAM080158		<10	<1	0.15	20	0.03	86	2	0.01	<1	50	11	0.17	3	<1	55
KAM080159		<10	<1	0.12	20	0.01	20	2	<0.01	<1	40	13	0.13	2	<1	7
KAM080160		10	<1	0.13	<10	0.80	418	2	0.09	22	640	2	0.05	<2	5	45
KAM080161		<10	<1	0.12	20	0.01	19	3	<0.01	1	30	14	0.01	<2	<1	6
KAM080162		<10	<1	0.11	20	0.01	22	5	<0.01	<1	40	13	0.02	<2	<1	8
KAM080163		<10	<1	0.09	10	0.13	96	3	0.01	<1	20	10	0.09	<2	<1	10
KAM080164		<10	<1	0.10	20	0.04	66	3	<0.01	5	30	15	0.02	2	<1	11
KAM080165		<10	<1	0.14	20	0.08	114	3	<0.01	5	30	14	0.08	2	<1	19
KAM080166		<10	<1	0.20	30	0.96	454	4	0.01	40	900	18	0.90	2	3	157
KAM080167		<10	<1	0.16	20	0.45	232	2	0.01	15	270	18	0.71	3	1	108
KAM080168		<10	1	0.66	20	0.70	378	2	0.01	13	180	11	0.18	6	3	88
KAM080169		10	<1	1.92	10	2.51	698	1	0.02	37	640	4	0.07	3	8	93
KAM080170		<10	2	0.15	10	0.69	529	620	0.06	29	550	86	0.79	19	4	45
KAM080171		<10	<1	1.16	20	1.56	410	1	0.04	21	320	4	0.18	<2	4	57
KAM080172		<10	<1	0.11	30	0.30	130	3	0.09	2	60	2	0.24	<2	<1	32
KAM080173		<10	<1	0.10	30	0.30	121	1	0.06	2	70	5	0.36	<2	<1	31
KAM080174		<10	1	0.39	20	1.19	457	4	0.03	21	230	7	1.02	6	4	115
KAM080175		10	1	1.26	20	2.38	753	1	0.03	34	490	5	0.13	<2	7	100
KAM080176		10	2	0.71	30	2.01	778	1	0.05	24	460	4	0.13	<2	8	80
KAM080177		<10	<1	0.55	30	0.92	334	1	0.04	11	290	4	0.17	<2	3	55
KAM080178		<10	1	1.31	20	1.66	519	1	0.04	21	450	4	0.19	2	5	58
KAM080179		<10	1	0.13	20	0.18	132	4	0.06	2	80	5	0.11	<2	<1	28
KAM080180		<10	1	0.13	<10	0.81	425	2	0.08	24	620	<2	0.05	<2	5	44
KAM080181		<10	<1	0.19	20	0.36	193	1	0.05	3	110	12	0.14	<2	<1	38
KAM080182		10	1	1.56	20	2.62	789	1	0.03	27	560	3	0.18	<2	9	95
KAM080183		<10	<1	0.66	20	1.08	398	<1	0.05	12	310	2	0.03	2	3	44
KAM080184		<10	<1	0.17	30	0.26	255	1	0.05	3	170	2	0.04	<2	1	24
KAM080185		<10	1	0.61	20	1.20	374	1	0.03	9	300	3	0.05	4	4	34
KAM080186		<10	1	0.15	30	0.25	140	1	0.04	<1	90	2	0.03	<2	<1	21
KAM080187		10	1	1.12	20	2.17	721	<1	0.03	20	550	3	0.05	4	8	59
KAM080188		<10	<1	0.31	30	0.46	504	<1	0.02	5	470	6	0.04	<2	3	61
KAM080189		<10	<1	0.19	30	0.11	291	<1	0.03	3	190	3	0.01	<2	1	21
KAM080190		<10	<1	0.16	10	0.75	510	7	0.12	30	600	3	0.06	2	6	48



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Page: 4 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 7-AUG-2012
 Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS WH12168699

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	Zn
		ppm	%	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10
KAM080151		30	0.01	<10	<10	18	<10
KAM080152		40	<0.01	<10	<10	2	<10
KAM080153		40	<0.01	<10	<10	2	<10
KAM080154		40	<0.01	<10	<10	<1	<10
KAM080155		40	<0.01	<10	<10	<1	<10
KAM080156		40	<0.01	<10	10	1	<10
KAM080157		40	<0.01	<10	20	1	<10
KAM080158		40	<0.01	<10	10	1	<10
KAM080159		40	<0.01	<10	<10	1	<10
KAM080160		<20	0.15	<10	<10	66	10
KAM080161		40	<0.01	<10	<10	<1	<10
KAM080162		40	<0.01	<10	<10	<1	<10
KAM080163		40	<0.01	<10	<10	<1	<10
KAM080164		40	<0.01	<10	<10	1	<10
KAM080165		40	<0.01	<10	<10	1	<10
KAM080166		40	<0.01	<10	20	15	<10
KAM080167		40	<0.01	<10	20	5	<10
KAM080168		30	0.04	<10	10	22	<10
KAM080169		20	0.13	<10	10	68	<10
KAM080170		<20	0.11	<10	<10	56	10
KAM080171		30	0.08	<10	10	41	<10
KAM080172		40	<0.01	<10	<10	2	<10
KAM080173		40	<0.01	<10	10	2	<10
KAM080174		30	0.01	<10	10	19	<10
KAM080175		20	0.09	<10	10	51	<10
KAM080176		30	0.06	<10	10	50	<10
KAM080177		40	0.03	<10	10	19	<10
KAM080178		30	0.09	<10	10	41	<10
KAM080179		40	<0.01	<10	10	2	<10
KAM080180		<20	0.15	<10	<10	66	20
KAM080181		50	<0.01	<10	10	3	<10
KAM080182		20	0.11	<10	10	67	<10
KAM080183		30	0.04	<10	<10	25	<10
KAM080184		40	<0.01	<10	<10	4	<10
KAM080185		30	0.02	<10	<10	26	<10
KAM080186		40	<0.01	<10	<10	3	<10
KAM080187		20	0.07	<10	10	58	<10
KAM080188		30	0.01	<10	20	19	<10
KAM080189		50	<0.01	<10	<10	5	<10
KAM080190		<20	0.15	<10	<10	67	30



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Page: 5 - A
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

CERTIFICATE OF ANALYSIS WH12168699

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Page: 5 - B
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
Account: KAMGOL

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CERTIFICATE OF ANALYSIS WH12168699

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Page: 5 - C
Total # Pages: 5 (A - C)
Finalized Date: 7-AUG-2012
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
KAM080191		30	0.02	<10	<10	30	<10	27
KAM080192		<20	0.17	10	10	141	<10	86
KAM080193		20	0.11	<10	10	51	<10	41
KAM080194		40	0.01	<10	20	9	<10	15
KAM080195		40	0.01	<10	40	10	<10	18