



ALS Canada Ltd.

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

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Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

CERTIFICATE WH18230708

Project: COFFEE

P.O. No.: KGC-18-1544

This report is for 128 Drill Core samples submitted to our lab in Whitehorse, YT,
Canada on 17-SEP-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 WH18230708

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
Y017072		1.68	<0.001		<0.2	0.82	52	<10	140	<0.5	<2	0.23	<0.5	5	7	5
Y017073		1.40	<0.001		<0.2	0.90	40	<10	130	<0.5	<2	0.27	<0.5	6	8	6
Y017074		2.19	<0.001		<0.2	1.28	41	<10	210	0.5	<2	0.30	<0.5	8	10	10
Y017075		2.26	<0.001		<0.2	1.90	78	<10	330	0.8	2	0.46	<0.5	11	39	14
Y017076		2.10	0.007		<0.2	2.04	302	<10	400	0.9	<2	0.47	<0.5	14	9	4
Y017077		1.46	0.402	0.37	<0.2	0.61	4060	10	660	0.7	<2	0.18	<0.5	4	4	9
Y017078		1.25	1.215	1.31	<0.2	0.54	2180	10	360	0.5	<2	0.14	<0.5	5	4	8
Y017079		1.48	8.27	8.22	0.4	0.62	2590	10	250	1.3	<2	0.16	<0.5	17	11	13
Y017080		0.06	<0.001		<0.2	1.79	5	<10	150	<0.5	<2	1.05	<0.5	10	25	98
Y017081		1.39	3.56	3.78	1.0	0.59	4650	<10	230	1.7	<2	0.25	<0.5	14	24	24
Y017082		1.95	2.48	2.47	0.3	0.80	8170	10	350	2.1	<2	0.35	<0.5	14	56	61
Y017083		1.67	0.969	0.99	<0.2	0.78	5000	10	300	2.0	<2	0.29	<0.5	20	37	37
Y017084		0.79	0.093		<0.2	1.30	1440	10	460	2.1	<2	0.49	<0.5	37	168	34
Y017085		1.32	0.016		<0.2	1.28	281	<10	300	1.1	<2	0.23	<0.5	11	6	10
Y017086		1.81	0.031		<0.2	2.81	225	<10	450	1.3	2	0.69	<0.5	23	170	27
Y017087		1.90	0.043		<0.2	2.94	57	<10	430	0.8	<2	0.77	<0.5	24	173	61
Y017088		2.08	0.008		<0.2	3.50	32	<10	470	0.5	<2	0.62	<0.5	27	19	54
Y017089		2.08	0.005		<0.2	2.75	37	<10	710	0.5	2	0.86	<0.5	22	2	42
Y017090		0.06	0.799	0.64	0.2	2.86	6	<10	100	<0.5	<2	2.11	<0.5	16	105	170
Y017091		2.15	0.005		<0.2	2.46	32	<10	490	0.8	2	0.71	<0.5	18	13	21
Y017092		1.99	0.002		<0.2	2.78	29	<10	350	0.6	<2	0.74	<0.5	19	48	20
Y017093		1.76	0.005		<0.2	2.42	143	<10	420	1.0	<2	0.64	<0.5	21	11	43
Y017094		1.43	0.012		<0.2	1.35	690	<10	310	1.1	2	0.39	<0.5	25	3	38
Y017095		0.75	0.075		<0.2	1.05	859	<10	780	1.0	2	0.32	<0.5	46	3	32
Y017096		2.18	0.087		<0.2	1.03	1450	<10	390	1.1	<2	0.22	<0.5	28	8	34
Y017097		2.14	0.018		<0.2	1.22	1610	<10	170	1.4	<2	0.20	<0.5	9	9	20
Y017098		1.99	0.013		<0.2	1.16	1190	<10	380	1.4	<2	0.30	<0.5	33	7	41
Y017099		1.82	0.004		<0.2	1.11	714	<10	270	1.6	2	0.29	<0.5	28	7	29
Y017100		0.06	<0.001		<0.2	1.77	2	<10	140	<0.5	<2	1.04	<0.5	10	24	97
Y017101		1.98	0.030		0.7	1.12	358	<10	1640	1.6	5	1.32	<0.5	32	133	122
Y017102		0.79	0.011		<0.2	1.58	596	<10	280	2.1	2	0.60	<0.5	34	304	55
Y017103		2.19	0.024		<0.2	2.77	78	<10	1930	0.9	<2	0.86	<0.5	14	132	26
Y017104		0.74	0.006		<0.2	2.22	131	<10	580	0.8	2	0.45	<0.5	11	27	6
Y017105		2.43	0.004		<0.2	2.60	74	<10	580	0.8	2	0.40	<0.5	14	21	3
Y017106		1.09	0.007		<0.2	2.29	23	<10	2140	0.9	2	0.29	<0.5	13	18	3
Y017107		1.95	0.004		<0.2	1.31	126	<10	3140	0.8	2	0.44	<0.5	8	15	1
Y017108		1.64	0.221		<0.2	0.87	3790	10	2180	1.0	<2	0.29	<0.5	12	21	2
Y017109		2.01	1.745	1.57	0.2	0.54	5610	10	1380	1.2	<2	0.32	<0.5	9	10	5
Y017110		0.06	3.15	3.05	0.7	2.62	170	<10	180	<0.5	<2	1.89	<0.5	30	447	86
Y017111		0.98	0.265		<0.2	0.82	2890	10	1180	1.4	<2	4.07	<0.5	24	41	15



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CERTIFICATE OF ANALYSIS WH18230708

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
Y017072		1.41	<10	<1	0.51	40	0.38	155	<1	0.04	3	460	3	0.01	<2	1
Y017073		1.48	<10	<1	0.51	40	0.42	162	<1	0.05	3	420	2	<0.01	<2	1
Y017074		2.16	<10	<1	0.83	50	0.73	208	<1	0.04	5	670	5	<0.01	2	2
Y017075		3.02	10	<1	1.21	50	1.18	316	<1	0.04	11	950	12	<0.01	<2	4
Y017076		3.39	10	<1	1.29	40	1.22	618	1	0.04	6	1150	6	0.01	<2	5
Y017077		2.95	<10	3	0.36	70	0.04	114	2	0.01	4	380	14	0.21	17	5
Y017078		2.70	<10	3	0.38	60	0.03	218	4	0.01	4	290	9	0.23	20	4
Y017079		3.77	<10	8	0.20	40	0.05	569	3	<0.01	17	320	12	0.01	111	6
Y017080		3.46	10	<1	0.24	10	0.82	476	5	0.21	13	580	3	0.01	<2	3
Y017081		6.70	<10	5	0.20	30	0.09	197	4	0.01	74	560	10	0.06	77	7
Y017082		9.03	<10	5	0.36	10	0.12	408	3	<0.01	64	630	16	0.03	63	23
Y017083		4.63	<10	4	0.33	30	0.09	541	1	<0.01	49	440	10	<0.01	36	17
Y017084		3.88	<10	1	0.47	40	0.39	998	1	<0.01	140	1710	12	0.01	27	22
Y017085		2.42	<10	<1	0.53	60	0.36	329	<1	<0.01	19	670	9	<0.01	10	3
Y017086		3.87	10	<1	0.94	30	1.77	615	<1	0.02	83	1130	6	<0.01	6	12
Y017087		3.93	10	<1	0.76	20	2.33	612	<1	0.03	80	1220	7	<0.01	5	13
Y017088		4.69	10	<1	0.81	10	2.74	824	<1	0.02	24	1030	10	<0.01	3	20
Y017089		4.29	10	<1	0.84	20	1.93	840	<1	0.03	11	1190	11	0.01	5	15
Y017090		2.68	10	<1	0.19	10	1.52	474	3	0.32	155	400	11	0.07	<2	3
Y017091		3.87	10	<1	0.95	20	1.54	900	<1	0.03	18	1570	11	<0.01	6	11
Y017092		4.10	10	<1	0.80	20	1.97	799	<1	0.03	35	1740	10	<0.01	4	10
Y017093		3.65	10	<1	0.81	20	1.36	710	<1	0.01	16	1280	16	<0.01	5	14
Y017094		4.10	<10	1	0.36	20	0.29	868	<1	0.01	13	1250	14	<0.01	22	19
Y017095		2.89	<10	1	0.13	20	0.11	3110	<1	<0.01	23	950	11	<0.01	34	13
Y017096		3.64	<10	1	0.14	10	0.10	1440	<1	<0.01	23	650	11	0.01	48	16
Y017097		4.63	<10	1	0.15	10	0.09	154	<1	<0.01	17	570	15	0.04	47	13
Y017098		5.33	<10	<1	0.15	10	0.08	1345	<1	<0.01	25	1150	14	0.04	55	22
Y017099		5.24	<10	1	0.15	10	0.07	1085	<1	<0.01	24	1080	16	0.01	27	24
Y017100		3.38	10	<1	0.23	10	0.80	466	5	0.20	12	570	4	0.01	<2	3
Y017101		4.66	<10	<1	0.15	10	0.16	925	<1	<0.01	92	1460	56	0.12	25	24
Y017102		4.49	10	<1	0.43	20	0.49	1015	<1	<0.01	137	2090	19	<0.01	17	31
Y017103		3.38	10	<1	1.14	20	1.95	453	<1	0.03	49	990	40	0.03	2	7
Y017104		3.22	10	<1	1.11	60	1.39	383	<1	0.03	11	900	15	<0.01	<2	5
Y017105		3.60	10	<1	1.40	50	2.01	553	<1	0.04	5	780	6	<0.01	<2	8
Y017106		2.98	10	<1	1.53	30	1.69	484	<1	0.03	6	630	6	0.04	2	6
Y017107		1.96	<10	<1	0.58	50	0.55	291	<1	0.03	6	500	6	0.08	4	4
Y017108		2.18	<10	2	0.29	30	0.12	248	<1	<0.01	9	440	12	0.11	11	5
Y017109		4.38	<10	2	0.29	40	0.06	183	1	0.01	13	340	19	0.14	73	4
Y017110		5.20	10	<1	0.55	10	2.27	876	5	0.18	252	380	21	0.37	2	5
Y017111		4.53	<10	2	0.28	30	0.47	1015	1	<0.01	41	1010	55	0.15	11	13



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CERTIFICATE OF ANALYSIS WH18230708

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
Y017072		22	30	0.07	<10	<10	9	<10
Y017073		26	30	0.07	<10	<10	12	<10
Y017074		22	30	0.11	<10	<10	18	<10
Y017075		35	20	0.17	<10	<10	31	<10
Y017076		43	20	0.19	<10	<10	64	<10
Y017077		78	20	<0.01	<10	10	9	<10
Y017078		94	20	<0.01	<10	<10	6	<10
Y017079		41	<20	<0.01	10	20	17	<10
Y017080		85	<20	0.16	<10	<10	100	<10
Y017081		33	<20	<0.01	10	40	48	<10
Y017082		54	<20	<0.01	<10	50	67	<10
Y017083		42	<20	<0.01	10	40	41	<10
Y017084		43	20	0.01	<10	10	75	<10
Y017085		21	30	0.03	<10	<10	17	<10
Y017086		34	20	0.07	<10	<10	76	<10
Y017087		37	<20	0.08	<10	<10	87	<10
Y017088		35	<20	0.04	<10	<10	139	<10
Y017089		32	<20	0.05	<10	<10	114	<10
Y017090		81	<20	0.10	<10	<10	70	<10
Y017091		24	<20	0.06	<10	<10	76	<10
Y017092		46	<20	0.06	<10	<10	72	<10
Y017093		28	<20	0.03	<10	<10	94	<10
Y017094		11	<20	0.02	<10	<10	133	<10
Y017095		13	<20	<0.01	<10	<10	78	<10
Y017096		13	<20	<0.01	<10	<10	87	<10
Y017097		25	<20	<0.01	<10	<10	77	<10
Y017098		19	<20	<0.01	<10	<10	137	<10
Y017099		19	<20	<0.01	<10	<10	154	<10
Y017100		83	<20	0.15	<10	<10	98	<10
Y017101		33	<20	<0.01	<10	<10	139	<10
Y017102		15	<20	0.03	<10	<10	148	<10
Y017103		71	<20	0.14	<10	<10	62	<10
Y017104		28	20	0.10	<10	<10	33	<10
Y017105		26	20	0.12	<10	<10	79	<10
Y017106		46	20	0.13	<10	<10	64	<10
Y017107		119	30	0.04	<10	<10	26	<10
Y017108		75	20	<0.01	<10	10	18	<10
Y017109		156	20	<0.01	<10	10	21	<10
Y017110		97	<20	0.11	<10	<10	77	<10
Y017111		65	<20	<0.01	<10	<10	66	<10



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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
Y017112		0.95	0.429	0.40	<0.2	0.83	3390	10	1620	1.4	<2	4.23	<0.5	28	47	16
Y017113		1.76	0.276		<0.2	0.87	4120	10	810	1.3	<2	1.84	<0.5	15	7	4
Y017114		2.07	0.004		<0.2	2.75	232	<10	2970	1.2	2	2.37	<0.5	18	23	6
Y017115		1.93	0.004		<0.2	1.59	116	<10	320	0.7	2	0.40	<0.5	9	16	1
Y017116		2.03	0.003		<0.2	1.08	38	<10	180	<0.5	<2	0.46	<0.5	7	6	1
Y017117		2.12	0.004		<0.2	1.17	41	<10	150	<0.5	<2	0.35	<0.5	9	5	2
Y017118		2.24	0.003		<0.2	2.21	37	<10	570	0.6	<2	1.13	<0.5	15	22	5
Y017119		2.33	0.018		<0.2	2.37	56	<10	390	0.8	<2	0.45	<0.5	14	19	5
Y017120		0.06	0.001		<0.2	1.88	2	<10	150	<0.5	<2	1.10	<0.5	10	25	101
Y017121		2.22	0.001		<0.2	1.29	14	<10	190	0.5	2	0.33	<0.5	6	5	6
Y017122		2.31	0.002		<0.2	0.97	13	<10	170	0.6	2	0.68	<0.5	5	5	12
Y017123		2.32	0.001		<0.2	0.98	10	<10	220	0.7	<2	0.88	<0.5	4	4	6
Y017124		2.19	<0.001		<0.2	0.84	20	<10	160	0.6	3	0.47	<0.5	5	4	6
Y017125		1.62	0.001		<0.2	0.71	23	<10	810	<0.5	4	0.38	<0.5	3	5	11
Y017126		1.44	0.001		0.2	0.81	14	<10	1490	0.7	9	3.30	<0.5	5	6	6
Y017127		2.34	0.001		<0.2	1.40	45	<10	220	1.1	<2	2.68	<0.5	9	23	4
Y017128		1.76	0.002		<0.2	1.86	111	<10	290	1.3	<2	4.35	<0.5	26	89	7
Y017129		1.34	<0.001		<0.2	2.27	54	<10	570	0.9	<2	2.45	<0.5	15	114	5
Y017130		0.06	6.28	5.52	1.1	2.37	491	10	100	<0.5	2	1.92	0.5	42	777	92
Y017131		2.24	<0.001		<0.2	1.80	9	<10	1420	0.7	<2	2.89	<0.5	12	121	6
Y017132		2.34	<0.001		<0.2	3.02	5	<10	990	0.7	<2	2.35	<0.5	19	95	10
Y017133		2.12	<0.001		<0.2	1.68	8	<10	420	<0.5	2	0.48	<0.5	8	15	2
Y017134		2.56	<0.001		<0.2	2.30	8	<10	450	0.6	3	0.96	<0.5	13	105	1
Y017135		2.19	<0.001		<0.2	0.94	4	<10	150	<0.5	<2	0.93	<0.5	5	5	1
Y017136		2.22	<0.001		<0.2	1.06	4	<10	140	<0.5	<2	0.59	<0.5	7	7	1
Y017137		2.42	<0.001		<0.2	1.51	5	<10	190	<0.5	<2	0.74	<0.5	9	10	2
Y017138		1.96	<0.001		<0.2	2.04	8	<10	250	0.7	<2	0.98	<0.5	12	30	7
Y017139		2.41	<0.001		<0.2	1.16	4	<10	90	<0.5	3	0.32	<0.5	6	8	14
Y017140		0.06	<0.001		<0.2	1.79	<2	<10	150	<0.5	<2	1.02	<0.5	10	25	99
Y017141		1.98	<0.001		<0.2	1.02	3	<10	120	<0.5	2	1.20	<0.5	5	22	9
Y017142		2.35	<0.001		<0.2	0.74	2	<10	50	<0.5	3	0.64	<0.5	4	6	22
Y017143		2.22	<0.001		<0.2	1.28	2	<10	140	0.5	<2	0.84	<0.5	6	7	5
Y017144		2.14	<0.001		<0.2	1.23	<2	<10	120	0.5	2	0.59	<0.5	6	7	4
Y017145		1.88	<0.001		<0.2	0.87	2	<10	90	<0.5	<2	0.71	<0.5	4	7	7
Y017146		2.01	<0.001		<0.2	0.70	<2	<10	80	<0.5	2	0.97	<0.5	4	4	7
Y017147		2.21	<0.001		<0.2	1.13	<2	<10	140	0.5	2	1.12	<0.5	7	11	6
Y017148		2.13	<0.001		<0.2	1.10	<2	<10	130	0.5	<2	1.31	<0.5	5	8	6
Y017149		2.24	<0.001		<0.2	0.85	2	<10	820	0.5	<2	0.72	<0.5	4	6	8
Y017150		0.06	0.143		<0.2	0.77	81	10	290	0.6	<2	14.2	0.8	5	18	10
Y017151		2.27	<0.001		<0.2	1.00	<2	<10	70	<0.5	<2	0.81	<0.5	4	5	9



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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
Y017112		4.57	<10	2	0.29	30	0.49	1095	1	<0.01	45	980	54	0.16	11	13
Y017113		2.98	<10	2	0.40	50	0.20	476	1	<0.01	7	600	20	0.05	6	5
Y017114		3.98	10	<1	2.01	40	2.07	715	<1	0.02	5	830	8	0.06	4	10
Y017115		2.34	10	<1	1.18	50	1.08	302	<1	0.05	7	570	3	<0.01	2	3
Y017116		1.64	<10	<1	0.76	60	0.69	217	<1	0.05	4	440	4	<0.01	<2	2
Y017117		1.97	<10	<1	0.73	60	0.76	237	<1	0.05	4	490	2	<0.01	<2	2
Y017118		2.97	10	<1	1.57	40	1.86	456	<1	0.05	5	640	4	0.01	<2	5
Y017119		2.90	10	<1	1.62	50	2.18	372	<1	0.05	7	650	4	<0.01	<2	6
Y017120		3.54	10	<1	0.25	10	0.84	493	5	0.22	13	600	3	0.01	2	3
Y017121		1.87	<10	<1	0.94	70	0.84	223	<1	0.05	3	430	4	<0.01	2	2
Y017122		1.55	<10	<1	0.65	60	0.52	201	1	0.04	3	360	6	0.02	2	2
Y017123		1.59	<10	<1	0.68	60	0.55	217	1	0.03	2	350	5	0.01	<2	1
Y017124		1.24	<10	<1	0.55	60	0.44	193	1	0.04	2	360	14	<0.01	<2	1
Y017125		1.13	<10	<1	0.38	50	0.36	169	<1	0.04	3	440	12	0.07	2	2
Y017126		1.43	<10	<1	0.24	30	0.60	355	1	0.02	4	590	15	0.04	3	3
Y017127		2.55	10	<1	0.69	40	1.03	389	1	0.01	12	510	14	0.06	4	5
Y017128		3.23	10	<1	0.78	40	0.91	856	2	<0.01	39	930	41	0.02	6	13
Y017129		2.83	10	<1	1.11	20	2.08	445	1	0.02	43	800	16	0.08	2	11
Y017130		6.99	10	1	0.58	10	2.60	1230	5	0.06	457	450	19	0.90	<2	6
Y017131		2.83	10	<1	1.11	10	1.89	497	1	0.04	41	670	8	0.18	2	10
Y017132		4.12	10	<1	2.24	30	2.84	718	1	0.06	32	910	10	0.13	2	9
Y017133		2.28	10	1	1.23	50	1.24	328	<1	0.05	5	520	3	0.03	<2	4
Y017134		2.87	10	<1	1.81	40	2.00	481	<1	0.05	15	550	5	0.02	<2	7
Y017135		1.37	<10	<1	0.62	50	0.53	222	<1	0.05	4	400	4	0.02	<2	1
Y017136		1.42	<10	<1	0.71	50	0.68	224	<1	0.05	5	430	2	0.02	<2	1
Y017137		2.23	10	1	0.97	50	1.17	314	<1	0.05	3	550	3	0.03	<2	2
Y017138		2.76	10	<1	1.35	50	1.85	425	1	0.05	8	550	4	0.05	2	4
Y017139		1.71	<10	<1	0.65	50	0.92	279	1	0.05	3	460	6	0.07	<2	2
Y017140		3.49	10	<1	0.24	10	0.80	463	5	0.21	13	580	5	0.03	<2	3
Y017141		1.45	<10	1	0.71	50	0.64	378	1	0.04	9	380	7	0.09	<2	1
Y017142		1.26	<10	<1	0.44	60	0.39	200	3	0.06	3	310	4	0.23	<2	1
Y017143		1.97	<10	1	0.88	60	0.85	317	1	0.06	3	470	3	0.09	2	2
Y017144		1.87	<10	<1	0.82	60	0.84	251	1	0.06	4	450	4	0.11	<2	2
Y017145		1.51	<10	<1	0.58	60	0.48	222	2	0.05	2	320	3	0.13	<2	1
Y017146		1.05	<10	1	0.47	60	0.36	223	2	0.04	2	250	2	0.11	<2	1
Y017147		1.66	<10	<1	0.80	50	0.83	272	1	0.05	4	350	4	0.18	<2	2
Y017148		1.66	<10	<1	0.70	30	0.77	310	2	0.04	3	450	3	0.09	<2	1
Y017149		1.43	<10	<1	0.36	50	0.58	170	4	0.06	2	310	4	0.18	<2	1
Y017150		1.12	<10	1	0.40	10	3.72	233	4	0.04	22	300	11	0.06	24	3
Y017151		1.64	<10	<1	0.44	60	0.68	162	3	0.05	3	370	6	0.21	<2	1



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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
Y017112		72	<20	<0.01	<10	<10	68	<10
Y017113		49	20	<0.01	<10	<10	19	<10
Y017114		90	20	0.17	<10	<10	103	<10
Y017115		18	30	0.12	<10	<10	25	<10
Y017116		24	30	0.07	<10	<10	9	<10
Y017117		19	30	0.08	<10	<10	11	<10
Y017118		49	20	0.18	<10	<10	58	<10
Y017119		33	20	0.16	<10	<10	54	<10
Y017120		89	<20	0.16	<10	<10	102	<10
Y017121		22	30	0.09	<10	<10	10	<10
Y017122		20	30	0.05	<10	<10	7	<10
Y017123		24	30	0.05	<10	<10	6	<10
Y017124		16	30	0.03	<10	<10	5	<10
Y017125		42	30	0.03	<10	<10	6	<10
Y017126		70	20	0.01	<10	<10	12	<10
Y017127		37	20	0.05	<10	<10	29	<10
Y017128		47	<20	0.05	<10	<10	64	<10
Y017129		48	<20	0.08	<10	<10	56	<10
Y017130		63	<20	0.09	<10	<10	77	<10
Y017131		78	<20	0.09	<10	<10	51	<10
Y017132		54	<20	0.23	<10	<10	95	<10
Y017133		27	20	0.13	<10	<10	30	<10
Y017134		30	20	0.16	<10	<10	42	<10
Y017135		39	30	0.07	<10	<10	7	<10
Y017136		34	20	0.09	<10	<10	8	<10
Y017137		33	20	0.14	<10	<10	29	<10
Y017138		36	20	0.16	<10	<10	50	<10
Y017139		19	30	0.09	<10	<10	18	<10
Y017140		85	<20	0.16	<10	<10	99	<10
Y017141		37	30	0.06	<10	<10	7	<10
Y017142		28	30	0.04	<10	<10	4	<10
Y017143		33	30	0.11	<10	<10	24	<10
Y017144		34	20	0.11	<10	<10	18	<10
Y017145		31	30	0.06	<10	<10	6	<10
Y017146		29	30	0.04	<10	<10	3	<10
Y017147		34	30	0.07	<10	<10	15	<10
Y017148		34	20	0.07	<10	<10	21	<10
Y017149		40	30	0.03	<10	<10	8	<10
Y017150		167	<20	0.02	<10	<10	55	20
Y017151		27	30	0.04	<10	<10	8	<10



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	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	ME-ICP41 Cu ppm 1
Y017152		2.21	<0.001		<0.2	1.07	5	<10	130	0.5	<2	0.96	<0.5	7	6	11
Y017153		2.27	<0.001		<0.2	1.52	4	<10	120	0.5	<2	1.76	<0.5	10	29	7
Y017154		2.25	<0.001		<0.2	1.95	3	<10	170	0.5	<2	1.38	<0.5	12	36	14
Y017155		2.38	<0.001		<0.2	1.39	<2	<10	90	<0.5	<2	1.05	<0.5	8	23	7
Y017156		2.25	<0.001		<0.2	1.29	6	<10	280	0.7	2	1.40	<0.5	7	45	8
Y017157		2.38	<0.001		<0.2	1.04	5	<10	210	0.5	<2	0.94	<0.5	6	6	5
Y017158		2.08	<0.001		<0.2	3.10	8	<10	460	1.4	2	2.43	<0.5	19	12	3
Y017159		2.31	<0.001		<0.2	0.81	2	<10	60	<0.5	2	0.87	<0.5	5	8	19
Y017160		0.06	<0.001		<0.2	1.75	2	<10	140	<0.5	<2	0.99	<0.5	9	24	98
Y017161		2.00	<0.001		<0.2	2.35	3	<10	190	1.1	<2	2.92	<0.5	19	72	15
Y017162		2.62	<0.001		<0.2	0.93	4	<10	50	<0.5	2	1.13	<0.5	7	16	15
Y017163		2.35	<0.001		<0.2	2.27	3	<10	410	0.9	6	2.26	<0.5	18	57	21
Y017164		2.17	<0.001		<0.2	0.47	5	<10	60	<0.5	2	0.70	<0.5	3	5	11
Y017165		2.38	0.019		<0.2	0.65	6	<10	130	<0.5	3	1.11	<0.5	5	5	14
Y017166		2.28	<0.001		0.2	0.69	8	<10	140	<0.5	2	1.41	<0.5	8	6	17
Y017167		2.25	<0.001		0.2	0.64	11	<10	360	<0.5	4	1.04	<0.5	8	5	12
Y017168		2.45	0.001		<0.2	0.62	21	<10	210	0.5	2	1.55	<0.5	5	3	10
Y017169		2.71	<0.001		<0.2	0.62	17	<10	410	<0.5	2	1.11	<0.5	4	5	7
Y017170		0.06	0.772	0.61	0.2	2.60	6	<10	90	<0.5	2	1.92	<0.5	14	97	163
Y017171		2.21	0.012		<0.2	0.54	15	<10	150	<0.5	2	0.79	<0.5	5	4	4
Y017172		2.13	0.001		<0.2	0.86	6	<10	60	0.6	<2	1.13	<0.5	5	5	10
Y017173		2.17	0.005		<0.2	0.80	4	<10	50	<0.5	2	0.64	<0.5	5	6	9
Y017174		2.38	<0.001		<0.2	1.05	10	<10	70	0.6	2	0.63	<0.5	7	12	8
Y017175		2.19	<0.001		<0.2	0.42	4	<10	330	0.9	<2	1.52	<0.5	4	7	1
Y017176		2.25	0.002		<0.2	0.50	6	<10	170	0.6	2	1.18	<0.5	4	7	5
Y017177		2.19	0.004		<0.2	0.60	9	<10	240	0.6	3	1.28	<0.5	4	6	9
Y017178		2.09	<0.001		<0.2	0.75	5	<10	1300	0.6	<2	1.57	<0.5	5	7	3
Y017179		2.23	<0.001		<0.2	0.91	4	<10	70	0.5	2	1.15	<0.5	4	7	2
Y017180		0.06	0.001		<0.2	1.70	<2	10	140	<0.5	2	0.97	<0.5	8	23	96
Y017181		2.10	<0.001		<0.2	0.96	6	<10	70	0.5	<2	0.85	<0.5	4	7	2
Y017182		2.18	<0.001		<0.2	0.83	3	<10	60	<0.5	2	1.08	<0.5	4	8	6
Y017183		1.99	0.002		<0.2	0.79	8	<10	80	<0.5	<2	1.24	<0.5	4	11	2
Y017184		2.18	<0.001		<0.2	1.45	3	<10	110	0.5	<2	0.89	<0.5	7	21	5
Y017185		2.31	<0.001		<0.2	0.84	10	<10	80	<0.5	<2	0.76	<0.5	3	6	1
Y017186		2.26	<0.001		<0.2	1.49	12	<10	230	0.5	<2	1.79	<0.5	8	30	4
Y017187		1.03	<0.001		<0.2	2.05	<2	<10	870	0.9	<2	2.81	<0.5	14	26	2
Y017188		1.02	<0.001		<0.2	2.25	2	<10	890	1.0	<2	2.51	<0.5	14	21	2
Y017189		2.31	0.003		<0.2	0.91	38	<10	440	0.6	<2	1.83	<0.5	6	8	2
Y017190		0.06	6.33	5.53	0.9	2.40	508	<10	110	<0.5	<2	1.95	<0.5	42	790	97
Y017191		2.23	0.004		<0.2	0.59	19	<10	320	0.5	<2	2.32	<0.5	4	5	1



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		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
Y017152		2.26	<10	1	0.71	70	0.68	219	2	0.06	4	580	4	0.35	<2	3
Y017153		2.64	10	<1	0.51	60	1.25	380	2	0.05	8	650	5	0.35	3	4
Y017154		2.96	10	<1	0.74	40	1.85	369	2	0.05	9	720	4	0.37	<2	5
Y017155		2.44	10	<1	0.56	60	1.06	299	1	0.05	9	610	3	0.27	<2	3
Y017156		2.15	<10	1	0.89	60	1.01	303	3	0.05	14	540	11	0.17	<2	4
Y017157		1.85	<10	1	0.72	50	0.73	254	4	0.04	4	550	17	0.26	<2	2
Y017158		5.65	10	1	2.63	40	2.65	977	1	0.05	3	1630	6	0.54	<2	8
Y017159		1.89	<10	<1	0.37	50	0.54	221	1	0.05	3	450	3	0.32	<2	2
Y017160		3.43	10	<1	0.23	10	0.79	447	5	0.21	13	570	4	0.02	2	3
Y017161		3.54	10	<1	1.34	20	2.28	679	7	0.04	24	620	4	0.04	4	8
Y017162		1.99	10	<1	0.17	50	0.64	261	2	0.04	5	480	7	0.33	<2	3
Y017163		3.55	10	<1	1.46	40	2.15	772	2	0.04	13	740	8	0.29	<2	5
Y017164		0.96	<10	<1	0.20	40	0.27	133	3	0.04	1	210	56	0.22	3	1
Y017165		1.52	<10	1	0.16	50	0.47	223	13	0.05	2	330	8	0.52	2	1
Y017166		1.89	<10	<1	0.17	50	0.83	304	12	0.04	2	290	18	0.75	<2	1
Y017167		1.78	<10	<1	0.36	50	0.67	280	7	0.04	3	420	13	0.58	2	2
Y017168		1.76	<10	<1	0.31	40	0.61	238	1	0.02	3	300	7	0.74	3	1
Y017169		1.30	<10	<1	0.21	40	0.39	207	1	0.01	2	70	6	0.32	4	1
Y017170		2.52	10	1	0.17	10	1.36	427	3	0.29	140	360	11	0.05	<2	2
Y017171		1.77	<10	<1	0.14	40	0.31	275	1	0.01	3	120	6	0.40	2	2
Y017172		1.99	<10	1	0.32	60	0.59	267	1	0.02	3	340	4	0.36	2	2
Y017173		1.85	<10	<1	0.39	60	0.50	190	<1	0.04	4	320	4	0.66	2	2
Y017174		1.85	<10	<1	0.66	60	0.68	245	1	0.03	5	400	2	0.31	2	2
Y017175		1.62	<10	<1	0.33	20	0.43	525	<1	0.01	2	330	5	0.04	<2	3
Y017176		1.64	<10	1	0.37	30	0.50	347	1	0.02	3	320	12	0.33	3	3
Y017177		1.78	<10	1	0.41	50	0.59	297	1	0.02	3	320	4	0.46	3	3
Y017178		1.82	10	<1	0.43	40	0.57	405	<1	0.02	3	360	5	0.15	2	3
Y017179		2.15	<10	<1	0.63	60	0.82	377	1	0.04	4	320	3	0.34	<2	3
Y017180		3.30	<10	<1	0.22	10	0.76	438	5	0.20	12	550	5	<0.01	<2	3
Y017181		2.11	<10	<1	0.68	60	0.73	371	1	0.05	5	320	3	0.20	<2	2
Y017182		1.97	10	1	0.52	60	0.62	360	1	0.04	6	340	4	0.18	<2	2
Y017183		2.07	<10	1	0.44	40	0.72	311	<1	0.03	6	420	6	0.39	<2	3
Y017184		2.17	10	<1	1.10	50	1.16	405	2	0.04	8	420	6	0.13	2	3
Y017185		1.42	<10	1	0.56	60	0.47	261	1	0.04	5	320	2	0.06	2	1
Y017186		2.25	10	<1	1.17	50	1.21	449	1	0.04	10	480	7	0.07	<2	5
Y017187		3.65	10	<1	1.82	30	1.70	795	2	0.03	6	710	3	0.13	<2	8
Y017188		4.14	10	<1	1.95	30	1.82	743	1	0.03	6	920	4	0.16	<2	8
Y017189		1.84	<10	1	0.50	40	0.70	423	<1	0.01	7	440	8	0.17	<2	3
Y017190		7.19	10	1	0.59	10	2.64	1225	6	0.07	463	450	20	0.93	4	6
Y017191		1.40	<10	1	0.33	50	0.47	382	1	0.02	6	380	4	0.13	3	1



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Project: COFFEE

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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
Y017152		36	30	0.08	<10	<10	14	<10
Y017153		51	20	0.05	<10	<10	31	<10
Y017154		64	20	0.10	<10	<10	40	<10
Y017155		38	20	0.06	<10	<10	20	<10
Y017156		39	30	0.08	<10	<10	27	<10
Y017157		36	30	0.08	<10	<10	17	<10
Y017158		76	<20	0.27	<10	<10	151	<10
Y017159		46	20	0.04	<10	<10	14	<10
Y017160		83	<20	0.15	<10	<10	97	<10
Y017161		109	<20	0.09	<10	<10	71	<10
Y017162		62	30	0.01	<10	<10	17	<10
Y017163		71	20	0.16	<10	<10	86	<10
Y017164		21	30	0.01	<10	<10	3	<10
Y017165		44	30	<0.01	<10	10	7	<10
Y017166		35	30	0.01	<10	<10	8	<10
Y017167		43	20	0.02	<10	<10	8	<10
Y017168		46	20	0.02	<10	<10	6	<10
Y017169		56	20	<0.01	<10	<10	4	<10
Y017170		75	<20	0.09	<10	<10	66	<10
Y017171		40	30	<0.01	<10	10	8	<10
Y017172		34	30	0.02	<10	<10	11	<10
Y017173		42	30	0.04	<10	<10	9	<10
Y017174		31	30	0.06	<10	<10	17	<10
Y017175		158	20	0.03	<10	<10	86	<10
Y017176		62	30	0.03	<10	<10	47	<10
Y017177		57	20	0.03	<10	<10	22	<10
Y017178		345	40	0.04	<10	<10	52	<10
Y017179		37	30	0.06	<10	<10	14	<10
Y017180		82	<20	0.15	<10	<10	94	<10
Y017181		36	30	0.07	<10	<10	13	<10
Y017182		41	30	0.06	<10	<10	13	<10
Y017183		49	20	0.03	<10	<10	19	<10
Y017184		34	20	0.11	<10	<10	24	<10
Y017185		29	30	0.05	<10	<10	5	<10
Y017186		38	20	0.11	<10	<10	33	<10
Y017187		74	<20	0.20	<10	<10	72	<10
Y017188		74	<20	0.23	<10	<10	83	<10
Y017189		58	20	0.03	<10	<10	17	<10
Y017190		68	<20	0.09	<10	<10	79	<10
Y017191		61	20	0.01	<10	<10	5	<10



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CERTIFICATE OF ANALYSIS WH18230708

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-AA13	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.001	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
Y017192		2.22	<0.001		<0.2	0.66	5	<10	170	<0.5	2	1.03	<0.5	4	5	2
Y017193		2.26	0.003		<0.2	0.69	9	<10	140	<0.5	<2	1.36	<0.5	5	5	1
Y017194		2.41	0.015		<0.2	0.54	30	<10	150	0.5	<2	1.79	<0.5	5	16	3
Y017195		1.99	<0.001		<0.2	0.41	15	<10	40	<0.5	<2	1.39	<0.5	4	4	2
Y017196		2.09	0.081		<0.2	0.50	38	<10	50	<0.5	2	2.27	<0.5	5	3	7
Y017197		2.18	0.010		<0.2	1.54	16	<10	350	0.9	<2	3.60	<0.5	17	23	7
Y017198		2.37	<0.001		<0.2	2.54	2	<10	1090	1.0	<2	2.79	<0.5	28	103	18
Y017199		1.26	<0.001		<0.2	2.60	2	<10	1140	1.2	<2	2.87	<0.5	24	79	9



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CERTIFICATE OF ANALYSIS WH18230708

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
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
Y017192		1.50	<10	1	0.35	60	0.44	317	1	0.04	4	340	2	0.06	2
Y017193		1.38	<10	<1	0.42	60	0.44	340	1	0.03	4	350	3	0.12	<2
Y017194		1.70	<10	<1	0.31	50	0.62	391	<1	0.03	8	370	4	0.22	<2
Y017195		1.20	<10	<1	0.24	50	0.37	308	2	0.03	4	290	4	0.19	2
Y017196		1.52	<10	<1	0.25	40	0.59	376	3	0.02	4	310	7	0.51	<2
Y017197		3.89	10	<1	0.37	40	1.65	824	1	0.03	15	1100	9	0.29	2
Y017198		3.97	10	<1	0.80	10	2.74	780	<1	0.05	41	1010	6	0.10	<2
Y017199		4.20	10	<1	0.63	20	2.88	807	1	0.04	43	1070	3	0.22	3



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CERTIFICATE OF ANALYSIS WH18230708

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
Y017192		38	30	0.02	<10	<10	7	<10	17
Y017193		43	30	0.02	<10	<10	6	<10	17
Y017194		52	30	0.01	<10	<10	8	<10	19
Y017195		40	30	<0.01	<10	<10	4	<10	12
Y017196		51	30	<0.01	<10	<10	4	<10	13
Y017197		144	<20	0.03	<10	10	59	<10	55
Y017198		1120	<20	0.28	<10	<10	95	<10	63
Y017199		237	<20	0.16	<10	<10	85	<10	65



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CERTIFICATE OF ANALYSIS WH18230708

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