



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 24, 2018
Report Date: January 24, 2019
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CERTIFICATE OF ANALYSIS

WHI18000742.1

CLIENT JOB INFORMATION

Project: 2018-Ellen
Shipment ID:
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Vedran Pobric

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	99	Dry at 60C			WHI
SS80	99	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	99	Save all or part of Soil Reject			WHI
FA330	93	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	99	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	98	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	99	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319651	Soil	8	3	10	1	122	6	97	<0.3	49	19	722	3.99	12	<2	37	<0.5	<3	<3	73	0.90
1319652	Soil	9	7	14	2	301	4	103	<0.3	98	24	752	3.79	17	<2	53	<0.5	<3	<3	66	1.52
1319653	Soil	8	<3	6	1	73	5	103	<0.3	48	17	605	3.77	14	<2	47	<0.5	<3	<3	66	1.03
1319654	Soil	8	3	8	1	104	3	83	<0.3	54	15	555	3.90	16	2	40	<0.5	<3	<3	71	0.82
1319655	Soil	8	<3	5	1	73	5	82	<0.3	40	16	572	3.60	19	<2	48	<0.5	<3	<3	59	1.12
1319656	Soil	7	3	11	2	102	4	93	<0.3	47	13	489	3.73	15	<2	40	<0.5	<3	<3	58	0.80
1319657	Soil	7	3	7	2	63	7	97	<0.3	40	15	578	3.49	14	<2	43	<0.5	<3	<3	57	0.94
1319658	Soil	8	<3	9	1	101	8	90	<0.3	47	18	743	3.75	14	<2	37	<0.5	<3	<3	64	0.77
1319659	Soil	6	4	7	2	87	6	96	<0.3	39	20	655	3.67	16	<2	40	<0.5	<3	<3	56	0.81
1319660	Soil	8	<3	5	2	77	6	103	<0.3	39	15	602	3.80	16	<2	40	<0.5	<3	<3	59	0.81
1319661	Soil	10	8	18	2	246	<3	128	<0.3	50	26	1085	4.48	17	<2	36	1.1	<3	<3	78	1.32
1319662	Soil	14	3	17	<1	201	4	353	<0.3	72	21	710	3.93	8	<2	36	<0.5	<3	<3	77	1.10
1319663	Soil	15	6	21	<1	244	3	183	<0.3	78	23	781	3.89	7	<2	36	<0.5	<3	<3	73	1.17
1319664	Soil	9	5	8	<1	157	<3	147	<0.3	44	23	798	4.06	6	<2	27	<0.5	<3	<3	81	0.79
1319665	Soil	8	<3	6	2	82	3	219	<0.3	48	23	804	4.25	11	<2	30	0.9	<3	<3	78	0.60
1319666	Soil	6	4	18	<1	319	<3	120	<0.3	67	25	915	4.17	6	<2	36	<0.5	<3	<3	73	1.35
1319667	Soil	5	6	16	1	351	<3	147	<0.3	57	25	821	4.11	8	<2	33	0.7	<3	<3	80	0.96
1319668	Soil	6	5	24	1	195	5	82	<0.3	58	21	731	3.77	7	<2	42	<0.5	<3	<3	72	1.10
1319669	Soil	5	<3	9	2	156	5	82	<0.3	67	18	473	3.87	10	<2	35	<0.5	<3	<3	77	0.76
1319670	Soil	6	4	8	2	148	6	83	<0.3	66	18	472	3.88	10	<2	37	<0.5	<3	<3	80	0.78
1319671	Soil	5	6	20	<1	243	<3	82	<0.3	90	21	906	3.40	6	<2	56	<0.5	<3	<3	63	1.44
1319672	Soil	6	4	21	1	281	<3	96	<0.3	82	24	868	3.98	6	<2	62	<0.5	<3	<3	71	1.57
1319673	Soil	6	5	27	<1	319	4	93	<0.3	72	21	667	3.85	3	<2	57	<0.5	<3	<3	66	1.67
1319674	Soil	75	<3	11	1	126	<3	78	<0.3	61	18	584	3.91	7	2	37	<0.5	<3	<3	76	0.96
1319675	Soil	6	8	29	2	169	6	107	<0.3	63	19	579	3.78	10	<2	49	<0.5	<3	<3	70	1.17
1319676	Soil	6	4	22	3	188	5	96	<0.3	62	21	590	4.14	11	2	42	<0.5	<3	<3	75	0.91
1319677	Soil	9	6	30	<1	366	<3	119	<0.3	68	24	749	4.07	5	<2	65	<0.5	<3	<3	76	1.57
1319678	Soil	6	5	19	3	165	4	131	0.4	53	23	977	4.08	6	<2	43	<0.5	<3	<3	80	1.05
1319679	Soil	7	9	28	2	298	4	148	<0.3	61	27	826	4.95	6	<2	45	<0.5	<3	<3	87	1.03
1319680	Soil	6	5	26	2	292	3	150	<0.3	60	26	812	4.92	6	2	43	<0.5	<3	<3	87	1.02

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1319651	Soil	0.042	6	64	1.25	108	0.161	<20	1.97	<0.01	0.09	<2	<0.05	<1	<5	<5	5
1319652	Soil	0.064	7	91	1.26	158	0.093	<20	1.74	0.01	0.10	<2	0.06	<1	<5	<5	5
1319653	Soil	0.078	8	52	1.12	133	0.113	<20	1.96	0.01	0.11	<2	<0.05	<1	<5	<5	5
1319654	Soil	0.059	9	58	1.18	147	0.133	<20	2.08	0.01	0.09	<2	<0.05	<1	<5	<5	6
1319655	Soil	0.054	9	47	1.00	137	0.082	<20	1.81	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1319656	Soil	0.043	11	48	0.98	200	0.090	<20	1.80	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319657	Soil	0.047	8	47	0.99	130	0.089	<20	1.72	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1319658	Soil	0.072	8	51	1.11	124	0.121	<20	1.89	0.01	0.10	<2	<0.05	<1	<5	<5	5
1319659	Soil	0.061	9	43	0.96	168	0.060	<20	1.73	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319660	Soil	0.053	9	44	1.03	158	0.080	<20	1.82	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1319661	Soil	0.103	7	67	1.53	209	0.109	<20	1.96	<0.01	0.15	<2	0.08	<1	<5	5	<5
1319662	Soil	0.079	6	84	1.40	126	0.104	<20	2.01	0.01	0.07	<2	0.05	<1	<5	6	<5
1319663	Soil	0.079	6	89	1.49	119	0.098	<20	2.05	0.01	0.08	<2	0.05	<1	<5	6	<5
1319664	Soil	0.065	4	77	1.34	73	0.213	<20	1.84	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1319665	Soil	0.062	6	73	1.23	94	0.137	<20	1.88	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1319666	Soil	0.091	6	92	1.53	127	0.074	<20	2.15	0.01	0.08	<2	0.06	<1	<5	5	<5
1319667	Soil	0.063	6	77	1.16	131	0.090	<20	2.03	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1319668	Soil	0.070	5	76	1.30	105	0.109	<20	1.91	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319669	Soil	0.032	6	72	1.11	89	0.155	<20	1.93	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319670	Soil	0.033	6	73	1.10	88	0.172	<20	1.93	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319671	Soil	0.077	6	74	1.23	102	0.105	<20	1.70	0.01	0.08	<2	0.06	<1	<5	<5	<5
1319672	Soil	0.068	5	91	1.47	99	0.096	<20	2.02	0.01	0.07	<2	0.07	<1	<5	<5	<5
1319673	Soil	0.077	5	93	1.51	84	0.107	<20	2.01	0.01	0.09	<2	0.10	<1	<5	<5	<5
1319674	Soil	0.077	6	80	1.34	71	0.172	<20	1.74	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1319675	Soil	0.070	6	77	1.25	119	0.101	<20	1.85	0.01	0.08	<2	0.07	<1	<5	<5	<5
1319676	Soil	0.045	7	81	1.29	128	0.116	<20	2.07	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1319677	Soil	0.070	6	91	1.47	99	0.109	<20	2.11	<0.01	0.07	<2	0.07	<1	<5	6	<5
1319678	Soil	0.068	5	85	1.46	99	0.151	<20	2.11	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319679	Soil	0.061	6	102	1.71	123	0.109	<20	2.48	<0.01	0.07	<2	0.05	<1	<5	<5	<5
1319680	Soil	0.056	6	101	1.70	123	0.120	<20	2.48	<0.01	0.07	<2	<0.05	<1	<5	7	5



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CERTIFICATE OF ANALYSIS

WHI18000742.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319681	Soil	6	6	29	1	416	3	196	<0.3	64	26	1042	4.57	6	<2	41	<0.5	<3	<3	81	1.17
1319682	Soil	6	4	15	<1	289	4	211	<0.3	59	28	1062	4.70	6	<2	31	<0.5	<3	<3	91	0.89
1319683	Soil	I.S.	I.S.	I.S.	<1	200	<3	241	<0.3	54	25	1091	4.28	6	<2	36	<0.5	<3	<3	83	1.24
1319684	Soil	I.S.	I.S.	I.S.	<1	202	<3	139	<0.3	54	22	889	4.01	5	2	37	<0.5	<3	<3	78	1.35
1319685	Soil	5	3	15	<1	206	<3	112	<0.3	57	21	762	4.02	6	3	40	<0.5	<3	<3	75	1.34
1319686	Soil	11	<3	8	2	158	14	110	<0.3	60	36	727	5.19	16	5	60	<0.5	<3	<3	57	1.13
1319687	Soil	10	5	19	3	222	7	103	<0.3	54	37	1194	5.84	24	<2	43	0.8	<3	<3	94	1.26
1319688	Soil	62	13	15	36	99	29	326	2.6	35	9	490	5.59	173	3	30	1.2	15	<3	142	0.42
1319689	Soil	6	4	9	3	120	9	135	<0.3	51	25	1022	4.56	26	<2	35	1.0	<3	<3	75	0.71
1319690	Soil	6	<3	9	3	119	9	137	0.3	52	26	1096	4.78	28	<2	36	1.1	<3	<3	78	0.74
1319691	Soil	10	5	15	5	164	8	236	0.5	123	26	965	4.55	22	<2	37	2.1	<3	<3	76	0.89
1319692	Soil	7	<3	10	10	311	7	945	1.0	106	34	1362	9.22	44	3	28	12.5	5	<3	59	0.37
1319693	Soil	8	4	6	10	65	7	172	0.8	43	13	721	3.65	30	<2	35	1.5	5	<3	46	0.55
1319694	Soil	21	3	14	42	93	22	321	1.8	51	7	819	5.71	125	2	58	5.6	10	<3	44	0.19
1319695	Soil	9	<3	13	7	98	8	176	0.5	62	23	865	4.33	28	<2	30	1.0	<3	<3	66	0.43
1319696	Soil	15	<3	8	23	80	10	425	1.2	51	8	308	5.28	63	3	63	1.8	10	<3	50	0.10
1319697	Soil	9	3	14	10	159	9	371	0.7	83	24	864	5.14	38	<2	33	2.5	5	<3	70	0.44
1319698	Soil	7	5	10	5	121	7	212	0.4	75	27	947	4.31	23	<2	50	2.2	<3	<3	64	1.13
1319699	Soil	7	7	15	4	179	5	263	<0.3	96	33	1096	4.72	20	<2	25	1.9	<3	<3	74	0.57
1319700	Soil	8	10	13	4	176	6	256	<0.3	95	33	1095	4.63	19	<2	24	1.8	<3	<3	74	0.54
1319701	Soil	6	<3	6	1	94	5	95	<0.3	50	16	570	3.22	11	<2	52	0.6	<3	<3	59	1.74
1319702	Soil	5	<3	5	1	91	5	92	<0.3	49	17	636	3.40	10	<2	44	<0.5	<3	<3	62	1.24
1319703	Soil	14	<3	6	2	103	6	107	<0.3	36	19	684	3.40	16	<2	45	<0.5	<3	<3	62	1.13
1319704	Soil	26	<3	7	3	65	5	68	<0.3	31	12	400	3.15	17	<2	45	<0.5	<3	<3	53	1.05
1319705	Soil	7	<3	3	4	98	7	112	0.3	37	23	897	3.98	19	<2	40	0.7	<3	<3	64	0.90
1319706	Soil	6	4	7	3	262	7	115	<0.3	51	22	761	4.09	15	<2	36	<0.5	<3	<3	73	0.62
1319707	Soil	3	3	<2	2	37	8	77	<0.3	29	20	841	3.94	16	<2	37	<0.5	<3	<3	72	0.68
1319708	Soil	5	<3	8	2	56	7	79	<0.3	38	14	608	3.57	14	<2	43	<0.5	<3	<3	65	0.82
1319709	Soil	3	<3	3	2	40	7	76	0.5	95	25	662	4.12	17	3	36	<0.5	<3	<3	76	0.67
1319710	Soil	<2	<3	<2	2	43	7	74	<0.3	124	26	665	3.99	15	<2	35	<0.5	<3	<3	73	0.66



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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.05	1	5	5	5	5
1319681	Soil	0.077	7	96	1.58	130	0.099	<20	2.41	<0.01	0.08	<2	0.06	<1	<5	<5	5
1319682	Soil	0.072	5	97	1.63	137	0.104	<20	2.37	<0.01	0.06	<2	<0.05	<1	<5	6	<5
1319683	Soil	0.075	4	92	1.59	109	0.109	<20	2.23	<0.01	0.06	<2	0.05	<1	<5	6	<5
1319684	Soil	0.073	4	85	1.48	98	0.109	<20	2.06	<0.01	0.08	<2	0.06	<1	<5	<5	<5
1319685	Soil	0.072	5	80	1.40	105	0.090	<20	2.03	<0.01	0.11	<2	0.05	<1	<5	<5	6
1319686	Soil	0.044	21	19	1.20	290	0.003	<20	2.28	<0.01	0.11	<2	<0.05	<1	<5	7	11
1319687	Soil	0.053	13	58	1.99	177	0.069	<20	2.70	<0.01	0.08	<2	<0.05	<1	<5	7	8
1319688	Soil	0.113	10	29	0.56	152	0.084	<20	0.98	<0.01	0.08	<2	0.09	<1	<5	5	7
1319689	Soil	0.043	12	60	1.42	208	0.087	<20	2.41	<0.01	0.08	<2	<0.05	<1	<5	<5	7
1319690	Soil	0.046	12	59	1.47	220	0.089	<20	2.48	<0.01	0.08	<2	<0.05	<1	<5	5	7
1319691	Soil	0.072	16	248	1.91	186	0.037	<20	2.26	<0.01	0.06	<2	0.08	<1	<5	7	7
1319692	Soil	0.130	74	50	0.91	323	0.064	<20	2.10	<0.01	0.08	<2	0.07	<1	<5	<5	8
1319693	Soil	0.107	14	39	0.86	238	0.027	<20	1.23	0.01	0.09	<2	0.10	<1	<5	<5	<5
1319694	Soil	0.127	29	19	0.26	557	0.003	<20	0.65	0.02	0.13	<2	0.30	1	<5	<5	<5
1319695	Soil	0.074	11	97	1.29	193	0.041	<20	2.01	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1319696	Soil	0.131	20	19	0.48	221	0.005	<20	0.72	0.02	0.06	<2	0.15	<1	<5	<5	<5
1319697	Soil	0.060	15	88	1.25	202	0.054	<20	2.02	<0.01	0.09	<2	<0.05	<1	<5	<5	8
1319698	Soil	0.061	9	93	1.28	157	0.058	<20	1.99	<0.01	0.09	<2	0.07	<1	<5	<5	6
1319699	Soil	0.032	10	127	1.70	132	0.102	<20	2.42	<0.01	0.11	<2	<0.05	<1	<5	<5	8
1319700	Soil	0.031	10	127	1.68	129	0.100	<20	2.39	<0.01	0.10	<2	<0.05	<1	<5	<5	8
1319701	Soil	0.066	7	62	1.20	138	0.074	<20	1.77	0.01	0.10	<2	0.11	<1	<5	<5	<5
1319702	Soil	0.060	7	65	1.25	145	0.085	<20	1.92	0.01	0.09	<2	0.06	<1	<5	<5	<5
1319703	Soil	0.074	8	57	0.96	164	0.057	<20	1.66	<0.01	0.07	<2	0.06	<1	<5	<5	<5
1319704	Soil	0.101	8	48	0.87	273	0.032	<20	1.53	<0.01	0.05	<2	0.11	<1	<5	<5	<5
1319705	Soil	0.092	8	50	0.89	225	0.047	<20	1.70	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1319706	Soil	0.100	8	71	1.14	180	0.061	<20	2.18	<0.01	0.07	<2	<0.05	<1	<5	5	<5
1319707	Soil	0.082	8	50	0.98	205	0.090	<20	2.09	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1319708	Soil	0.132	9	51	0.99	189	0.045	<20	2.14	0.01	0.06	<2	0.05	<1	<5	5	<5
1319709	Soil	0.031	7	97	1.41	134	0.164	<20	2.18	0.01	0.13	<2	<0.05	<1	<5	<5	5
1319710	Soil	0.049	8	119	1.49	144	0.117	<20	2.01	0.01	0.10	<2	<0.05	<1	<5	<5	<5



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Method Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
			Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
			ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
			2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319711	Soil		4	<3	13	2	203	7	86	<0.3	128	26	778	3.77	16	<2	44	0.6	<3	<3	64	1.02
1319712	Soil		2	<3	3	1	44	5	68	<0.3	120	27	644	3.88	10	<2	35	<0.5	<3	<3	71	0.91
1319713	Soil		3	<3	<2	2	43	6	137	<0.3	48	22	951	3.98	18	<2	30	1.0	<3	<3	66	0.61
1319714	Soil		5	<3	<2	1	51	6	85	<0.3	86	21	688	3.89	17	<2	36	<0.5	<3	<3	64	0.67
1319715	Soil		6	5	7	1	64	6	65	<0.3	140	22	522	3.44	12	<2	48	0.5	<3	<3	62	1.33
1319716	Soil		4	<3	4	1	60	7	74	<0.3	179	30	685	3.91	15	<2	37	<0.5	<3	<3	66	0.77
1319717	Soil		45	3	5	1	126	5	79	<0.3	198	30	761	4.31	12	2	37	<0.5	<3	<3	72	1.01
1319718	Soil		9	4	12	1	83	9	84	<0.3	102	22	738	3.81	16	<2	39	0.5	<3	<3	70	0.94
1319719	Soil		5	7	7	1	56	5	76	0.3	85	19	588	3.68	14	<2	35	<0.5	<3	<3	67	0.79
1319720	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1319721	Soil		8	<3	6	4	75	7	121	0.3	42	15	647	3.71	20	<2	46	<0.5	<3	<3	54	0.97
1319722	Soil		7	<3	8	4	65	7	157	<0.3	42	17	742	3.62	21	<2	53	1.1	<3	<3	49	1.19
1319723	Soil		18	<3	7	4	107	7	102	<0.3	49	18	980	3.23	18	<2	61	0.9	<3	<3	45	1.40
1319724	Soil		9	5	16	4	61	4	145	<0.3	42	12	554	2.44	12	<2	49	1.2	<3	<3	42	1.57
1319725	Soil		8	<3	16	4	136	5	207	0.4	47	22	850	3.94	26	2	35	2.6	<3	<3	68	0.79
1319726	Soil		9	13	14	3	77	5	130	<0.3	38	8	416	2.84	15	<2	83	1.6	<3	<3	41	2.08
1319727	Soil		6	3	6	2	58	6	120	<0.3	39	16	684	3.48	16	<2	62	0.9	<3	<3	59	1.41
1319728	Soil		6	4	4	3	71	6	141	<0.3	45	19	787	3.60	17	<2	47	1.2	<3	<3	60	1.05
1319729	Soil		7	4	7	2	62	6	103	0.3	42	16	658	3.77	15	<2	42	0.5	<3	<3	70	0.89
1319730	Soil		7	4	8	2	73	7	106	<0.3	47	18	858	3.77	15	<2	45	<0.5	<3	<3	68	1.00
1319731	Soil		I.S.	I.S.	I.S.	1	81	4	89	<0.3	40	11	527	2.19	9	<2	86	1.0	<3	<3	34	2.69
1319732	Soil		5	<3	7	2	78	4	90	<0.3	42	17	675	3.15	12	<2	58	0.6	<3	<3	53	1.54
1319733	Soil		7	6	8	2	61	6	93	<0.3	41	17	1128	3.15	13	<2	48	0.7	<3	<3	54	1.15
1319734	Soil		7	<3	7	2	71	7	98	<0.3	41	17	474	3.43	14	<2	43	0.8	<3	<3	63	0.95
1319735	Soil		6	<3	9	1	69	6	101	<0.3	41	18	653	3.63	14	<2	43	0.6	<3	<3	67	0.95
1319736	Soil		9	<3	5	1	73	5	103	<0.3	37	13	643	2.87	11	<2	65	0.7	<3	<3	49	1.89
1319737	Soil		7	<3	10	1	79	5	83	<0.3	42	15	596	3.59	14	<2	41	<0.5	<3	<3	64	0.96
1319738	Soil		7	5	9	2	120	5	81	<0.3	49	18	713	3.31	14	<2	54	<0.5	<3	<3	55	1.60
1319739	Soil		5	3	9	1	83	5	83	<0.3	44	17	673	3.35	14	<2	58	<0.5	<3	<3	58	1.49
1319740	Soil		6	5	7	1	83	6	78	<0.3	44	17	631	3.45	13	<2	49	<0.5	<3	<3	64	1.14

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.05	1	5	5	5	
1319711	Soil	0.085	8	90	1.25	117	0.077	<20	1.76	0.02	0.16	<2	0.08	<1	<5	<5	<5
1319712	Soil	0.051	5	118	1.75	110	0.121	<20	1.98	0.01	0.14	<2	<0.05	<1	<5	<5	<5
1319713	Soil	0.103	5	62	1.20	96	0.101	<20	1.87	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1319714	Soil	0.044	8	73	1.18	99	0.121	<20	1.90	0.01	0.13	<2	<0.05	<1	<5	<5	<5
1319715	Soil	0.063	7	111	1.46	135	0.088	<20	1.72	0.02	0.08	<2	0.05	<1	<5	<5	<5
1319716	Soil	0.047	8	133	1.63	97	0.125	<20	1.88	0.01	0.13	<2	<0.05	<1	<5	<5	5
1319717	Soil	0.059	8	103	1.69	134	0.150	<20	2.05	0.01	0.13	<2	0.06	<1	<5	<5	<5
1319718	Soil	0.047	12	68	1.21	122	0.133	<20	1.89	0.01	0.13	<2	<0.05	<1	<5	<5	6
1319719	Soil	0.040	8	67	1.18	88	0.148	<20	1.88	0.01	0.12	<2	<0.05	<1	<5	<5	5
1319720	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1319721	Soil	0.073	10	43	0.95	150	0.071	<20	1.69	0.01	0.08	<2	0.08	<1	<5	<5	<5
1319722	Soil	0.074	8	41	0.87	135	0.057	<20	1.45	0.01	0.09	<2	0.09	<1	<5	<5	<5
1319723	Soil	0.077	10	38	0.74	178	0.045	<20	1.40	0.01	0.06	<2	0.12	<1	<5	<5	<5
1319724	Soil	0.072	6	32	0.78	141	0.062	<20	1.24	<0.01	0.07	<2	0.31	<1	<5	<5	<5
1319725	Soil	0.060	10	58	1.32	151	0.106	<20	1.86	<0.01	0.09	<2	0.20	<1	<5	<5	<5
1319726	Soil	0.081	8	32	0.66	153	0.038	<20	1.19	0.01	0.06	<2	0.15	<1	<5	<5	<5
1319727	Soil	0.074	10	48	0.97	149	0.090	<20	1.78	0.01	0.10	<2	0.06	<1	<5	<5	<5
1319728	Soil	0.059	9	48	1.03	132	0.111	<20	1.76	0.01	0.12	<2	0.06	<1	<5	<5	5
1319729	Soil	0.066	10	57	1.13	125	0.128	<20	1.99	0.01	0.13	<2	<0.05	<1	<5	<5	6
1319730	Soil	0.073	10	58	1.07	143	0.110	<20	1.93	0.01	0.13	<2	0.06	<1	<5	<5	6
1319731	Soil	0.088	9	28	0.67	160	0.043	<20	1.12	0.02	0.09	<2	0.16	<1	<5	<5	<5
1319732	Soil	0.085	8	49	0.95	149	0.061	<20	1.58	0.01	0.10	<2	0.08	<1	<5	<5	<5
1319733	Soil	0.085	8	49	0.92	124	0.080	<20	1.51	0.01	0.12	<2	0.06	<1	<5	<5	<5
1319734	Soil	0.083	10	55	1.01	107	0.096	<20	1.72	0.01	0.14	<2	0.05	<1	<5	<5	5
1319735	Soil	0.058	8	57	1.10	117	0.121	<20	1.89	0.01	0.12	<2	<0.05	<1	<5	<5	5
1319736	Soil	0.075	7	42	0.90	118	0.076	<20	1.40	0.01	0.09	<2	0.10	<1	<5	<5	<5
1319737	Soil	0.050	8	59	1.12	112	0.113	<20	1.84	0.01	0.10	<2	<0.05	<1	<5	<5	5
1319738	Soil	0.067	7	55	1.03	158	0.090	<20	1.61	0.01	0.12	<2	0.08	<1	<5	<5	<5
1319739	Soil	0.059	8	52	1.02	134	0.092	<20	1.76	0.01	0.11	<2	0.08	<1	<5	<5	<5
1319740	Soil	0.044	8	56	1.07	127	0.115	<20	1.86	0.01	0.12	<2	<0.05	<1	<5	<5	5



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	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Analyte	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	Unit																				
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319741	Soil	8	7	10	1	83	5	92	<0.3	44	18	787	3.36	13	<2	48	0.8	<3	<3	57	1.44
1319742	Soil	8	<3	9	2	58	5	83	<0.3	31	13	467	2.97	12	<2	55	0.6	<3	<3	51	1.54
1319743	Soil	6	<3	3	1	52	5	88	<0.3	36	13	557	3.20	11	<2	42	0.6	<3	<3	57	0.98
1319744	Soil	8	5	5	1	68	<3	82	<0.3	33	8	478	1.56	9	<2	99	1.3	<3	<3	21	3.51
1319745	Soil	7	<3	10	1	74	6	118	<0.3	42	16	662	3.57	13	2	44	0.9	<3	<3	60	1.03
1319746	Soil	13	5	8	2	53	5	116	<0.3	39	14	473	3.20	12	3	34	0.6	<3	<3	61	0.74
1319747	Soil	5	<3	8	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1319748	Soil	I.S.	I.S.	I.S.	4	82	3	173	<0.3	50	34	1880	3.00	19	<2	107	4.9	<3	<3	27	3.42
1319749	Soil	I.S.	I.S.	I.S.	9	73	<3	163	<0.3	42	80	3628	7.86	43	<2	65	3.3	<3	3	32	2.32
1319750	Soil	I.S.	I.S.	I.S.	6	92	3	142	<0.3	40	49	2610	5.32	29	<2	63	3.3	<3	<3	32	2.18



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
1319741	Soil	0.073	8	54	1.07	110	0.100	<20	1.67	0.01	0.13	<2	<0.05	<1	<5	<5	<5
1319742	Soil	0.056	5	44	0.90	102	0.084	<20	1.44	0.01	0.10	<2	0.07	<1	<5	<5	<5
1319743	Soil	0.043	7	50	0.99	106	0.109	<20	1.65	0.01	0.13	<2	<0.05	<1	<5	<5	<5
1319744	Soil	0.094	4	18	0.47	118	0.020	<20	0.66	0.01	0.06	<2	0.21	<1	<5	<5	<5
1319745	Soil	0.091	9	53	1.05	108	0.095	<20	1.68	0.01	0.15	<2	0.05	<1	<5	<5	5
1319746	Soil	0.071	9	52	1.07	113	0.138	<20	1.82	<0.01	0.15	<2	<0.05	<1	<5	<5	5
1319747	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1319748	Soil	0.103	5	20	0.49	192	0.018	<20	0.74	<0.01	0.04	<2	0.27	<1	<5	<5	<5
1319749	Soil	0.135	6	22	0.48	300	0.021	<20	0.73	0.01	0.05	<2	0.47	<1	5	<5	<5
1319750	Soil	0.118	6	28	0.60	244	0.025	<20	0.92	<0.01	0.05	<2	0.46	<1	<5	<5	<5



QUALITY CONTROL REPORT

WHI18000742.1

Method	Analyte	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
1319669	Soil	5	<3	9	2	156	5	82	<0.3	67	18	473	3.87	10	<2	35	<0.5	<3	<3	77	0.76
REP 1319669	QC	7	4	11																	
1319684	Soil	I.S.	I.S.	I.S.	<1	202	<3	139	<0.3	54	22	889	4.01	5	2	37	<0.5	<3	<3	78	1.35
REP 1319684	QC				<1	204	<3	140	<0.3	53	22	870	3.92	5	2	36	<0.5	<3	<3	78	1.36
1319702	Soil	5	<3	5	1	91	5	92	<0.3	49	17	636	3.40	10	<2	44	<0.5	<3	<3	62	1.24
REP 1319702	QC	7	3	6																	
1319721	Soil	8	<3	6	4	75	7	121	0.3	42	15	647	3.71	20	<2	46	<0.5	<3	<3	54	0.97
REP 1319721	QC				4	74	6	120	0.3	40	15	641	3.75	20	<2	46	0.5	<3	<3	53	0.96
1319747	Soil	5	<3	8	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 1319747	QC	10	<3	14																	
1319748	Soil	I.S.	I.S.	I.S.	4	82	3	173	<0.3	50	34	1880	3.00	19	<2	107	4.9	<3	<3	27	3.42
REP 1319748	QC				4	81	4	170	<0.3	50	35	1886	2.96	19	<2	105	4.8	<3	<3	27	3.32
Reference Materials																					
STD DS11	Standard				13	143	129	333	1.7	74	12	990	3.03	41	8	65	2.2	9	8	48	1.00
STD DS11	Standard				15	151	131	353	1.7	77	14	1053	3.22	46	9	69	2.6	7	13	52	1.11
STD DS11	Standard				16	150	140	360	1.7	78	14	1093	3.31	48	9	69	2.5	8	12	52	1.13
STD OREAS45EA	Standard				2	692	15	33	<0.3	383	49	401	20.82	5	11	4	<0.5	<3	<3	300	0.04
STD OREAS45EA	Standard				3	724	12	31	0.4	395	51	418	24.46	13	11	4	<0.5	<3	<3	317	0.03
STD OREAS45EA	Standard				2	704	12	33	0.4	380	51	406	23.26	13	11	4	<0.5	<3	<3	304	0.03
STD PD05	Standard	521	444	628																	
STD PD05	Standard	486	419	590																	
STD PD05	Standard	499	421	607																	
STD PD05	Standard	519	440	625																	
STD PG04	Standard	948	883	1159																	
STD PG04	Standard	936	869	1153																	
STD PG04	Standard	981	897	1210																	
STD PG04	Standard	973	918	1233																	
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	22.65	11	10.7	4.05				303	0.036



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
Pulp Duplicates																	
1319669	Soil	0.032	6	72	1.11	89	0.155	<20	1.93	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
REP 1319669	QC																
1319684	Soil	0.073	4	85	1.48	98	0.109	<20	2.06	<0.01	0.08	<2	0.06	<1	<5	<5	<5
REP 1319684	QC	0.073	4	86	1.45	99	0.105	<20	2.01	<0.01	0.08	3	0.06	<1	<5	6	<5
1319702	Soil	0.060	7	65	1.25	145	0.085	<20	1.92	0.01	0.09	<2	0.06	<1	<5	<5	<5
REP 1319702	QC																
1319721	Soil	0.073	10	43	0.95	150	0.071	<20	1.69	0.01	0.08	<2	0.08	<1	<5	<5	<5
REP 1319721	QC	0.072	10	42	0.95	148	0.067	<20	1.66	<0.01	0.08	<2	0.09	<1	<5	<5	<5
1319747	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 1319747	QC																
1319748	Soil	0.103	5	20	0.49	192	0.018	<20	0.74	<0.01	0.04	<2	0.27	<1	<5	<5	<5
REP 1319748	QC	0.102	6	21	0.48	190	0.017	<20	0.75	<0.01	0.04	<2	0.26	<1	<5	<5	<5
Reference Materials																	
STD DS11	Standard	0.068	16	57	0.79	377	0.089	<20	1.10	0.07	0.39	3	0.27	<1	5	<5	<5
STD DS11	Standard	0.072	19	64	0.89	421	0.098	<20	1.22	0.08	0.42	2	0.29	<1	6	<5	<5
STD DS11	Standard	0.072	18	65	0.90	394	0.099	<20	1.23	0.08	0.43	2	0.28	<1	7	<5	<5
STD OREAS45EA	Standard	0.030	7	867	0.10	147	0.095	22	3.34	0.02	0.06	<2	<0.05	<1	<5	21	83
STD OREAS45EA	Standard	0.031	8	962	0.10	154	0.107	<20	3.73	0.02	0.06	<2	<0.05	<1	<5	13	89
STD OREAS45EA	Standard	0.031	8	945	0.10	148	0.103	<20	3.63	0.02	0.06	<2	<0.05	<1	<5	13	87
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.32	0.02	0.053		0.036			12.4	78



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	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
STD DS11 Expected	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
STD PD05 Expected	519	430	596	13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063
STD PG04 Expected	1004	903	1196																	
BLK Blank	3	<3	<2																	
BLK Blank	3	<3	<2																	
BLK Blank	<2	<3	<2																	
BLK Blank	6	<3	<2																	
BLK Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK Blank	2	4	<2																	
BLK Blank	5	3	<2																	
BLK Blank	2	<3	3																	
BLK Blank	<2	<3	<2																	



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	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD DS11 Expected	0.0701	18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD PD05 Expected																
STD PG04 Expected																
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank															