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MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby British Columbia V5B 2C4 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 22, 2017
Report Date: September 25, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000660.1

CLIENT JOB INFORMATION

Project: Catalyst
Shipment ID:
P.O. Number
Number of Samples: 13

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.
6970 Napier Street
Burnaby British Columbia V5B 2C4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	13	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA330	13	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	13	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	13	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	13	Per sample shipping charges for branch shipments			VAN
BAT01	13	Batch charge of <20 samples			WHI

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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Project: Catalyst
Report Date: September 25, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000660.1

	Method	WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
116946	Rock	1.23	2	7	8	2	64	3	53	<0.3	9	5	158	1.23	3	<2	3	<0.5	<3	<3	43
116947	Rock	0.95	3	<3	<2	<1	10	27	25	0.3	12	5	250	1.03	<2	<2	31	<0.5	<3	<3	7
116948	Rock	0.65	5	4	7	20	57	11	68	0.3	13	3	190	4.08	40	<2	29	<0.5	5	<3	64
116949	Rock	0.05	3	<3	5	61	82	11	80	0.5	33	5	150	13.03	81	<2	104	<0.5	4	<3	219
116950	Rock	1.26	3	3	7	7	39	7	171	0.8	30	3	404	4.50	<2	<2	112	<0.5	<3	<3	175
K736001	Rock	1.22	<2	3	9	6	46	7	174	0.5	16	4	217	3.58	<2	<2	48	1.6	<3	<3	69
K736002	Rock	0.74	<2	<3	<2	<1	23	6	22	<0.3	6	2	196	1.11	7	3	25	<0.5	<3	<3	28
K736003	Rock	0.89	<2	7	10	9	32	10	43	<0.3	9	3	114	2.37	<2	<2	18	<0.5	<3	<3	57
K736004	Rock	0.98	<2	36	25	<1	127	<3	31	<0.3	40	40	502	5.36	<2	<2	164	<0.5	<3	<3	272
K736005	Rock	1.07	<2	20	38	<1	70	<3	6	<0.3	11	4	81	0.91	<2	<2	97	<0.5	<3	<3	28
K736006	Rock	1.71	<2	22	30	<1	92	<3	10	<0.3	20	10	170	1.51	<2	<2	95	<0.5	<3	<3	52
K736007	Rock	1.06	3	3	4	<1	38	<3	27	<0.3	3	5	305	2.67	<2	<2	350	<0.5	<3	<3	79
K736008	Rock	1.20	4	10	11	<1	154	<3	25	0.3	8	9	309	3.11	<2	<2	514	<0.5	<3	<3	81



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CERTIFICATE OF ANALYSIS

WHI17000660.1

	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Ca	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
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
116946	Rock	0.08	0.016	7	11	0.33	45	0.047	<20	0.36	<0.01	0.11	<2	0.06	<1	<5	<5	<5
116947	Rock	1.15	0.008	<1	7	0.47	24	0.016	<20	0.48	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
116948	Rock	0.24	0.024	2	27	0.38	84	0.134	<20	0.66	0.02	0.10	<2	0.39	<1	<5	<5	<5
116949	Rock	0.45	0.031	4	16	0.32	81	0.092	<20	0.61	0.04	0.17	<2	7.99	<1	<5	6	<5
116950	Rock	1.02	0.094	7	54	0.70	242	0.199	<20	1.80	0.02	0.14	<2	0.12	<1	<5	7	9
K736001	Rock	0.37	0.090	4	21	0.41	147	0.077	<20	0.76	0.02	0.16	<2	0.14	<1	<5	<5	<5
K736002	Rock	0.18	0.041	8	8	0.22	32	0.046	<20	0.32	0.12	0.02	<2	0.16	<1	<5	<5	<5
K736003	Rock	0.34	0.097	5	12	0.10	135	0.122	<20	0.37	<0.01	0.21	<2	0.24	<1	<5	<5	<5
K736004	Rock	2.45	0.274	2	58	3.12	106	0.268	<20	2.75	0.36	1.07	<2	<0.05	<1	<5	5	25
K736005	Rock	0.59	0.062	3	40	0.32	187	0.107	<20	0.39	0.06	0.17	<2	0.06	<1	<5	<5	<5
K736006	Rock	0.86	0.127	4	69	0.88	58	0.132	<20	0.70	0.10	0.29	<2	<0.05	<1	<5	<5	<5
K736007	Rock	1.32	0.329	13	6	0.30	368	0.165	<20	0.66	0.13	0.30	<2	0.81	<1	<5	<5	<5
K736008	Rock	2.04	0.587	8	8	1.02	57	0.176	<20	1.41	0.03	0.19	<2	0.46	<1	<5	<5	<5



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Project: Catalyst

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QUALITY CONTROL REPORT

WHI17000660.1

	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	
Pulp Duplicates																						
116946	Rock	1.23	2	7	8	2	64	3	53	<0.3	9	5	158	1.23	3	<2	3	<0.5	<3	<3	43	
REP 116946	QC						2	65	<3	53	<0.3	9	5	159	1.25	2	<2	3	<0.5	<3	<3	43
REP K736005	QC	<2			18	29																
Core Reject Duplicates																						
K736005	Rock	1.07	<2	20	38	<1	70	<3	6	<0.3	11	4	81	0.91	<2	<2	97	<0.5	<3	<3	28	
DUP K736005	QC	<2			20	32	<1	69	<3	6	<0.3	12	4	87	0.98	<2	<2	106	<0.5	<3	<3	29
Reference Materials																						
STD CDN-PGMS-19	Standard	203			103	455																
STD CDN-PGMS-23	Standard	536			487	2246																
STD DS11	Standard						13	147	137	345	1.7	77	13	1046	3.04	43	5	65	2.3	6	10	49
STD OREAS45EA	Standard						2	730	12	30	0.4	392	55	434	24.44	5	7	4	<0.5	<3	<3	313
STD OREAS45EA Expected							1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303
STD DS11 Expected							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
STD CDN-PGMS-19 Expected		230			108	476																
STD CDN-PGMS-23 Expected		496			456	2032																
BLK	Blank						<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1
BLK	Blank	<2			<3	2																
BLK	Blank	<2			<3	<2																
Prep Wash																						
ROCK-WHI	Prep Blank	<2			<3	<2	<1	2	<3	34	<0.3	1	4	565	1.76	<2	<2	23	<0.5	<3	<3	22



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6970 Napier Street

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Project: Catalyst

Report Date: September 25, 2017

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Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000660.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Ca	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	0.01	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																	
116946	Rock	0.08	0.016	7	11	0.33	45	0.047	<20	0.36	<0.01	0.11	<2	0.06	<1	<5	<5
REP 116946	QC	0.08	0.016	7	11	0.34	46	0.048	<20	0.37	<0.01	0.11	<2	0.06	<1	<5	<5
REP K736005	QC																
Core Reject Duplicates																	
K736005	Rock	0.59	0.062	3	40	0.32	187	0.107	<20	0.39	0.06	0.17	<2	0.06	<1	<5	<5
DUP K736005	QC	0.64	0.060	3	42	0.34	201	0.111	<20	0.41	0.06	0.17	<2	0.07	<1	<5	<5
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD DS11	Standard	1.03	0.070	17	59	0.86	428	0.089	<20	1.11	0.07	0.40	3	0.28	<1	6	<5
STD OREAS45EA	Standard	0.04	0.032	8	897	0.10	155	0.103	<20	3.44	0.02	0.06	<2	<0.05	<1	<5	85
STD OREAS45EA Expected		0.036	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036		12.4	78
STD DS11 Expected		1.063	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	3.1
STD CDN-PGMS-19 Expected																	
STD CDN-PGMS-23 Expected																	
BLK	Blank	<0.01	<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																
Prep Wash																	
ROCK-WHI	Prep Blank	0.58	0.039	6	3	0.48	59	0.074	<20	0.87	0.08	0.09	<2	<0.05	<1	<5	<5



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Client: Longford Exploration Services Ltd.

6970 Napier Street

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Submitted By: James Rogers

Receiving Lab: Canada-Whitehorse

Received: August 14, 2017

Report Date: September 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000581.1

CLIENT JOB INFORMATION

Project: ULTRA

Shipment ID:

P.O. Number

Number of Samples: 66

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps

PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	66	Dry at 60C			WHI
SS80	66	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	66	Save all or part of Soil Reject			WHI
FA330	66	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	66	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	66	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	66	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

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Project: ULTRA
Report Date: September 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000581.1

	Method Analyte Unit MDL	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897085	Soil	4	<3	<2	2	51	8	77	<0.3	31	13	529	2.89	11	<2	28	<0.5	<3	<3	58	0.54
K897086	Soil	5	<3	3	2	32	6	87	<0.3	27	13	456	3.03	13	<2	30	<0.5	<3	<3	65	0.61
K897087	Soil	7	16	19	<1	80	<3	64	<0.3	35	22	491	3.81	10	<2	34	<0.5	<3	<3	90	0.68
K897088	Soil	6	<3	5	1	44	5	65	<0.3	32	13	472	2.85	11	<2	51	<0.5	<3	<3	57	1.42
K897089	Soil	5	<3	3	<1	46	<3	49	<0.3	39	11	378	2.92	11	<2	41	<0.5	<3	<3	57	1.31
K897090	Soil	7	<3	<2	1	53	7	57	<0.3	32	13	449	2.89	11	<2	103	<0.5	<3	<3	58	3.20
K897091	Soil	7	<3	2	1	49	5	61	<0.3	35	13	422	3.34	13	<2	33	<0.5	<3	<3	66	0.67
K897092	Soil	5	<3	<2	1	47	5	65	<0.3	35	15	462	3.27	11	<2	29	<0.5	<3	<3	66	0.55
K897093	Soil	8	<3	4	2	46	5	73	<0.3	36	15	449	3.35	12	<2	26	<0.5	<3	<3	67	0.48
K897094	Soil	6	<3	4	1	50	5	71	<0.3	40	14	403	3.39	15	<2	34	<0.5	<3	<3	64	0.64
K897095	Soil	7	<3	7	<1	77	4	67	<0.3	51	18	536	3.03	14	<2	139	<0.5	<3	<3	58	6.26
K897096	Soil	8	5	9	<1	89	5	62	<0.3	44	16	468	2.63	12	<2	157	0.6	<3	<3	52	9.27
K897097	Soil	4	5	4	2	55	4	76	<0.3	39	15	607	2.99	12	<2	33	<0.5	<3	<3	58	0.68
K897098	Soil	4	<3	4	1	41	7	70	<0.3	36	15	468	3.39	14	<2	32	<0.5	<3	<3	62	0.57
K897099	Soil	6	<3	5	1	39	<3	106	<0.3	33	12	431	2.75	11	<2	35	0.5	<3	<3	51	0.79
K897100	Soil	5	<3	3	2	35	4	121	<0.3	33	13	516	2.81	10	<2	37	0.7	<3	<3	52	0.91
K897201	Soil	10	<3	3	2	50	4	63	<0.3	33	13	427	3.35	16	<2	25	<0.5	<3	<3	64	0.39
K897202	Soil	5	<3	4	1	41	4	77	<0.3	33	15	528	3.48	14	<2	33	<0.5	<3	<3	68	0.66
K897203	Soil	8	4	6	2	59	6	70	<0.3	34	14	415	3.52	20	<2	27	<0.5	<3	<3	64	0.48
K897204	Soil	5	<3	<2	1	47	7	74	<0.3	37	15	468	3.39	12	<2	38	<0.5	<3	<3	68	0.69
K897205	Soil	5	6	2	7	44	5	491	<0.3	76	15	476	3.20	12	<2	29	0.8	<3	<3	64	0.58
K897206	Soil	4	<3	<2	1	41	<3	76	<0.3	42	17	503	3.74	13	<2	28	<0.5	<3	<3	88	0.56
K897207	Soil	6	<3	3	<1	44	3	62	<0.3	30	12	382	3.15	12	<2	40	<0.5	<3	<3	64	0.80
K897208	Soil	10	4	11	2	29	4	55	<0.3	29	12	277	3.19	13	<2	24	<0.5	<3	<3	66	0.37
K897209	Soil	6	<3	14	2	345	5	80	<0.3	40	22	515	3.92	16	<2	29	<0.5	<3	<3	80	0.49
K897210	Soil	6	<3	11	2	428	4	83	<0.3	39	24	488	3.55	14	<2	26	<0.5	<3	<3	72	0.41
K897211	Soil	3	<3	8	1	87	<3	64	<0.3	39	19	486	3.52	13	<2	37	<0.5	<3	<3	74	0.71
K897212	Soil	5	<3	5	2	46	7	83	<0.3	35	20	825	3.80	17	<2	37	<0.5	<3	<3	74	0.65
K897213	Soil	6	<3	4	2	40	7	64	<0.3	30	16	610	3.30	17	<2	49	<0.5	<3	<3	67	0.85
K897214	Soil	7	<3	5	3	54	8	94	<0.3	40	19	603	4.09	24	<2	37	<0.5	<3	<3	69	0.57



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Project: ULTRA
Report Date: September 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000581.1

Method Analyte Unit MDL		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
K897085	Soil	0.092	9	34	0.63	165	0.034	<20	1.41	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K897086	Soil	0.056	8	38	0.69	163	0.031	<20	1.64	0.01	0.04	<2	<0.05	<1	<5	<5	<5
K897087	Soil	0.038	10	32	0.88	110	0.091	<20	1.51	0.03	0.07	<2	<0.05	<1	<5	<5	7
K897088	Soil	0.036	11	33	0.73	153	0.051	<20	1.36	0.03	0.06	<2	<0.05	<1	<5	<5	<5
K897089	Soil	0.026	11	65	1.03	145	0.057	<20	1.46	0.03	0.07	<2	<0.05	<1	<5	<5	6
K897090	Soil	0.047	9	36	1.11	140	0.062	<20	1.33	0.04	0.07	<2	<0.05	<1	<5	<5	5
K897091	Soil	0.020	9	40	0.80	125	0.058	<20	1.57	0.02	0.05	<2	<0.05	<1	<5	<5	6
K897092	Soil	0.026	8	43	0.84	142	0.050	<20	1.70	0.02	0.05	<2	<0.05	<1	<5	<5	5
K897093	Soil	0.028	10	44	0.79	184	0.048	<20	1.66	0.02	0.06	<2	<0.05	<1	<5	<5	5
K897094	Soil	0.031	11	41	0.78	104	0.047	<20	1.48	0.02	0.07	<2	<0.05	<1	<5	<5	5
K897095	Soil	0.036	9	41	0.89	121	0.050	<20	1.46	0.03	0.09	<2	<0.05	<1	<5	<5	<5
K897096	Soil	0.047	8	38	0.86	206	0.042	<20	1.29	0.02	0.10	<2	0.05	<1	<5	<5	<5
K897097	Soil	0.083	10	42	0.69	168	0.031	<20	1.52	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K897098	Soil	0.044	10	46	0.79	174	0.046	<20	1.51	0.02	0.05	<2	<0.05	<1	<5	<5	<5
K897099	Soil	0.101	8	38	0.68	107	0.039	<20	1.21	0.02	0.07	<2	<0.05	<1	<5	<5	<5
K897100	Soil	0.110	9	40	0.71	127	0.034	<20	1.30	0.02	0.06	<2	0.05	<1	<5	<5	<5
K897201	Soil	0.033	10	37	0.70	142	0.040	<20	1.57	0.03	0.05	<2	<0.05	<1	<5	<5	7
K897202	Soil	0.060	8	37	0.82	208	0.051	<20	1.62	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K897203	Soil	0.041	11	44	0.69	204	0.030	<20	1.58	0.02	0.04	<2	<0.05	<1	<5	<5	6
K897204	Soil	0.046	10	40	0.84	129	0.065	<20	1.61	0.04	0.06	<2	<0.05	<1	<5	<5	6
K897205	Soil	0.056	9	41	0.76	142	0.041	<20	1.76	0.02	0.06	<2	<0.05	<1	<5	<5	<5
K897206	Soil	0.044	10	55	1.17	164	0.059	<20	2.14	0.02	0.04	<2	<0.05	<1	<5	<5	7
K897207	Soil	0.032	10	37	0.75	124	0.052	<20	1.54	0.03	0.06	<2	<0.05	<1	<5	<5	5
K897208	Soil	0.041	9	40	0.75	189	0.038	<20	1.90	0.01	0.06	<2	<0.05	<1	<5	<5	<5
K897209	Soil	0.060	14	48	1.17	222	0.071	<20	2.06	0.01	0.10	<2	<0.05	<1	<5	<5	6
K897210	Soil	0.044	14	47	0.98	243	0.068	<20	2.04	0.01	0.08	<2	<0.05	<1	<5	<5	6
K897211	Soil	0.031	9	45	0.95	145	0.045	<20	1.80	0.02	0.07	<2	<0.05	<1	<5	<5	6
K897212	Soil	0.074	11	47	0.74	350	0.035	<20	1.86	0.02	0.05	<2	<0.05	<1	<5	<5	5
K897213	Soil	0.083	10	42	0.68	355	0.027	<20	1.65	0.02	0.05	<2	<0.05	<1	<5	<5	<5
K897214	Soil	0.058	11	45	0.74	315	0.027	<20	1.64	0.02	0.05	<2	<0.05	<1	<5	<5	6



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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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897215	Soil	8	<3	2	2	40	6	59	<0.3	24	13	408	3.33	15	<2	32	<0.5	<3	<3	66	0.47
K897216	Soil	5	3	6	1	105	6	101	<0.3	37	17	613	3.36	13	<2	41	<0.5	<3	<3	61	0.74
K897217	Soil	9	<3	5	4	45	6	85	<0.3	34	17	559	3.71	24	<2	31	<0.5	<3	<3	61	0.49
K897218	Soil	7	4	4	2	47	5	74	<0.3	26	17	615	3.38	16	<2	46	<0.5	<3	<3	59	0.79
K897219	Soil	8	<3	3	3	58	7	78	<0.3	33	20	605	4.06	22	<2	47	<0.5	<3	<3	60	0.80
K897220	Soil	7	<3	3	1	51	6	99	<0.3	33	18	407	2.84	10	<2	51	<0.5	<3	<3	55	0.94
K897221	Soil	7	<3	2	2	37	4	67	<0.3	29	14	452	3.01	14	<2	27	<0.5	<3	<3	51	0.36
K897222	Soil	8	<3	6	3	64	7	77	0.3	38	17	528	3.47	21	<2	46	<0.5	<3	<3	60	0.67
K897223	Soil	7	<3	5	2	61	6	101	<0.3	44	16	494	3.38	17	<2	39	<0.5	<3	<3	54	0.52
K897224	Soil	7	<3	5	2	46	8	80	<0.3	35	15	310	3.06	15	<2	58	<0.5	<3	<3	57	0.77
K897225	Soil	10	<3	6	2	76	10	113	0.4	42	18	559	3.39	15	<2	81	<0.5	<3	<3	58	1.14
K897226	Soil	6	<3	6	2	55	8	77	<0.3	35	16	554	3.48	18	<2	46	<0.5	<3	<3	59	0.53
K897227	Soil	6	<3	2	3	49	8	108	0.3	33	27	1031	4.04	17	<2	44	<0.5	<3	<3	74	0.61
K897228	Soil	6	<3	4	3	45	9	75	<0.3	30	15	473	3.68	19	<2	49	<0.5	<3	<3	64	0.46
K897229	Soil	7	3	7	2	124	9	115	<0.3	52	19	763	3.84	19	<2	40	<0.5	<3	<3	62	0.64
K897230	Soil	7	3	8	2	92	8	124	<0.3	51	20	834	3.77	17	<2	49	<0.5	<3	<3	62	0.78
K897231	Soil	<2	11	36	<1	125	4	64	<0.3	93	35	593	4.82	6	<2	30	<0.5	<3	<3	144	0.65
K897232	Soil	6	<3	5	2	62	10	79	<0.3	38	15	342	3.82	19	<2	47	<0.5	<3	<3	72	0.76
K897233	Soil	8	<3	6	1	55	5	74	<0.3	34	13	484	3.15	14	<2	37	<0.5	<3	<3	60	0.77
K897234	Soil	7	<3	8	1	59	5	140	<0.3	58	18	544	3.29	13	<2	33	<0.5	<3	<3	63	0.74
K897235	Soil	18	<3	3	1	44	7	325	<0.3	107	16	1115	3.37	14	<2	35	7.7	<3	<3	64	0.52
K897236	Soil	6	<3	8	2	64	10	85	<0.3	41	18	535	3.80	23	<2	45	<0.5	<3	<3	67	0.76
K897237	Soil	9	<3	5	1	69	11	92	0.3	44	17	646	3.47	16	<2	44	<0.5	<3	<3	64	0.94
K897238	Soil	6	<3	5	2	35	9	72	<0.3	33	16	655	3.55	16	<2	36	<0.5	<3	<3	68	0.75
K897239	Soil	5	<3	3	2	53	7	70	<0.3	35	16	478	3.56	17	<2	25	<0.5	<3	<3	71	0.44
K897240	Soil	6	<3	4	2	65	9	80	<0.3	31	12	430	3.26	14	<2	32	<0.5	<3	<3	85	0.47
K897241	Soil	4	<3	5	2	30	6	60	<0.3	32	13	346	3.47	14	<2	29	<0.5	<3	<3	70	0.48
K897242	Soil	7	<3	4	2	39	6	64	<0.3	30	13	338	3.49	15	<2	26	<0.5	<3	<3	74	0.52
K897243	Soil	16	<3	3	2	32	10	71	<0.3	29	13	328	3.51	16	<2	26	<0.5	<3	<3	77	0.45
K897244	Soil	5	<3	12	2	29	6	63	<0.3	31	15	383	3.45	15	<2	27	<0.5	<3	<3	72	0.44



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		Method Analyte Unit MDL	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
K897215	Soil	0.083	9	40	0.62	236	0.024	<20	1.61	0.01	0.04	<2	<0.05	<1	<5	<5	<5	
K897216	Soil	0.084	10	40	0.82	283	0.047	<20	1.52	0.02	0.09	<2	<0.05	<1	<5	<5	<5	
K897217	Soil	0.058	9	41	0.72	201	0.034	<20	1.42	0.01	0.05	<2	<0.05	<1	<5	<5	<5	
K897218	Soil	0.132	11	40	0.68	296	0.018	<20	1.63	0.02	0.04	<2	0.06	<1	<5	<5	<5	
K897219	Soil	0.091	11	39	0.70	323	0.020	<20	1.48	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897220	Soil	0.083	9	38	0.71	303	0.020	<20	1.41	0.01	0.05	<2	<0.05	<1	<5	<5	<5	
K897221	Soil	0.042	8	37	0.70	172	0.037	<20	1.25	0.01	0.05	<2	<0.05	<1	<5	<5	<5	
K897222	Soil	0.079	11	41	0.66	267	0.019	<20	1.55	0.01	0.05	<2	<0.05	<1	<5	<5	5	
K897223	Soil	0.093	10	38	0.75	198	0.056	<20	1.17	0.02	0.08	<2	<0.05	<1	<5	<5	5	
K897224	Soil	0.104	10	39	0.73	255	0.028	<20	1.41	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897225	Soil	0.118	13	41	0.71	432	0.022	<20	1.65	0.02	0.04	<2	0.05	<1	<5	<5	<5	
K897226	Soil	0.071	11	40	0.76	251	0.034	<20	1.44	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897227	Soil	0.108	11	47	0.76	278	0.027	<20	2.03	0.01	0.03	<2	<0.05	<1	<5	<5	<5	
K897228	Soil	0.038	9	44	0.75	374	0.028	<20	1.66	0.01	0.04	<2	<0.05	<1	<5	<5	<5	
K897229	Soil	0.068	13	45	0.76	417	0.036	<20	1.60	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897230	Soil	0.095	13	46	0.76	473	0.033	<20	1.66	0.02	0.06	<2	<0.05	<1	<5	<5	5	
K897231	Soil	0.021	4	202	3.12	335	0.169	<20	3.25	0.02	0.81	<2	<0.05	<1	<5	6	5	
K897232	Soil	0.051	11	48	0.89	432	0.034	<20	2.02	0.02	0.09	<2	<0.05	<1	<5	<5	5	
K897233	Soil	0.017	9	37	0.77	135	0.058	<20	1.39	0.03	0.07	<2	<0.05	<1	<5	<5	6	
K897234	Soil	0.031	11	42	0.83	148	0.055	<20	1.71	0.03	0.08	<2	<0.05	<1	<5	<5	6	
K897235	Soil	0.039	10	47	0.82	122	0.066	<20	1.55	0.03	0.08	<2	<0.05	<1	<5	<5	6	
K897236	Soil	0.045	13	45	0.81	221	0.037	<20	1.63	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897237	Soil	0.072	11	42	0.81	258	0.037	<20	1.70	0.02	0.04	<2	<0.05	<1	<5	<5	<5	
K897238	Soil	0.078	10	43	0.81	288	0.031	<20	1.84	0.02	0.04	<2	<0.05	<1	<5	<5	<5	
K897239	Soil	0.025	9	46	0.82	167	0.047	<20	1.86	0.01	0.05	<2	<0.05	<1	<5	<5	5	
K897240	Soil	0.027	9	44	0.84	134	0.048	<20	1.88	0.03	0.05	<2	<0.05	<1	<5	<5	6	
K897241	Soil	0.037	8	42	0.83	209	0.039	<20	1.86	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897242	Soil	0.039	10	45	0.81	150	0.045	<20	2.03	0.01	0.04	<2	<0.05	<1	<5	<5	5	
K897243	Soil	0.024	8	44	0.84	129	0.053	<20	2.05	0.01	0.04	<2	<0.05	<1	<5	<5	<5	
K897244	Soil	0.031	7	43	0.80	89	0.067	<20	1.66	0.02	0.06	<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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897245	Soil	5	4	8	2	48	9	62	<0.3	45	17	627	3.15	12	<2	44	<0.5	<3	<3	59	0.99
K897246	Soil	4	4	4	2	47	7	78	<0.3	40	17	525	3.58	15	<2	28	<0.5	<3	<3	62	0.44
K897247	Soil	9	<3	5	2	52	10	96	<0.3	42	16	590	3.48	15	<2	32	<0.5	<3	<3	61	0.59
K897248	Soil	6	<3	4	1	41	5	75	<0.3	50	15	535	3.36	12	<2	31	<0.5	<3	<3	63	0.59
K897249	Soil	8	<3	7	2	70	12	102	<0.3	61	18	568	4.01	15	<2	35	<0.5	<3	<3	66	0.66
K897250	Soil	7	<3	9	2	90	11	104	0.4	59	18	588	4.05	16	<2	37	<0.5	<3	<3	66	0.75



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	Method Analyte Unit MDL	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
K897245	Soil	0.101	10	45	0.74	216	0.035	<20	1.52	0.02	0.05	<2	<0.05	<1	<5	<5	<5
K897246	Soil	0.063	10	50	0.86	150	0.045	<20	1.57	0.01	0.05	<2	<0.05	<1	<5	<5	<5
K897247	Soil	0.092	10	47	0.82	162	0.048	<20	1.57	0.02	0.06	<2	<0.05	<1	<5	<5	5
K897248	Soil	0.060	9	54	0.88	173	0.063	<20	1.51	0.03	0.06	<2	<0.05	<1	<5	<5	5
K897249	Soil	0.098	13	59	0.85	251	0.049	<20	1.81	0.02	0.07	<2	<0.05	<1	<5	<5	6
K897250	Soil	0.106	14	65	0.87	261	0.043	<20	1.84	0.02	0.06	<2	<0.05	<1	<5	<5	6



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QUALITY CONTROL REPORT

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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	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	%
		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																					
K897100	Soil	5	<3	3	2	35	4	121	<0.3	33	13	516	2.81	10	<2	37	0.7	<3	<3	52	0.91
REP K897100	QC	11	10	8																	
K897210	Soil	6	<3	11	2	428	4	83	<0.3	39	24	488	3.55	14	<2	26	<0.5	<3	<3	72	0.41
REP K897210	QC				2	443	6	84	<0.3	40	24	498	3.67	14	<2	27	<0.5	<3	<3	72	0.41
K897234	Soil	7	<3	8	1	59	5	140	<0.3	58	18	544	3.29	13	<2	33	<0.5	<3	<3	63	0.74
REP K897234	QC	8	<3	5																	
K897246	Soil	4	4	4	2	47	7	78	<0.3	40	17	525	3.58	15	<2	28	<0.5	<3	<3	62	0.44
REP K897246	QC				2	47	10	77	<0.3	40	17	520	3.52	15	<2	28	<0.5	<3	<3	62	0.44
Reference Materials																					
STD CDN-PGMS-19	Standard	264	97	475																	
STD CDN-PGMS-19	Standard	217	105	497																	
STD CDN-PGMS-23	Standard	541	468	2106																	
STD DS11	Standard				12	143	131	334	1.8	76	13	1000	3.08	42	6	63	1.8	6	9	47	1.00
STD DS11	Standard				12	140	125	312	1.6	75	13	963	2.98	39	6	61	2.0	7	9	47	0.97
STD OREAS45EA	Standard				2	699	7	31	0.4	388	53	416	23.80	11	8	4	<0.5	<3	<3	299	0.03
STD OREAS45EA	Standard				2	688	10	31	0.4	395	53	409	24.00	14	8	4	<0.5	<3	<3	302	0.03
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
STD DS11 Expected					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 CDN-PGMS-19 Expected		230	108	476																	
STD CDN-PGMS-23 Expected		496	456	2032																	
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	<3	3																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	



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Project: ULTRA
Report Date: September 05, 2017

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QUALITY CONTROL REPORT

WHI17000581.1

Method Analyte Unit MDL		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
Pulp Duplicates																	
K897100	Soil	0.110	9	40	0.71	127	0.034	<20	1.30	0.02	0.06	<2	0.05	<1	<5	<5	<5
REP K897100	QC																
K897210	Soil	0.044	14	47	0.98	243	0.068	<20	2.04	0.01	0.08	<2	<0.05	<1	<5	<5	6
REP K897210	QC	0.045	14	48	0.99	251	0.067	<20	2.07	0.01	0.08	<2	<0.05	<1	<5	<5	6
K897234	Soil	0.031	11	42	0.83	148	0.055	<20	1.71	0.03	0.08	<2	<0.05	<1	<5	<5	6
REP K897234	QC																
K897246	Soil	0.063	10	50	0.86	150	0.045	<20	1.57	0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP K897246	QC	0.060	10	49	0.85	151	0.047	<20	1.56	0.01	0.05	<2	<0.05	<1	<5	<5	<5
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD DS11	Standard	0.069	16	55	0.83	423	0.084	<20	1.08	0.07	0.38	3	0.28	<1	<5	<5	<5
STD DS11	Standard	0.068	16	54	0.80	402	0.082	<20	1.04	0.07	0.36	2	0.27	<1	<5	<5	<5
STD OREAS45EA	Standard	0.030	7	873	0.10	143	0.099	<20	3.28	0.02	0.06	<2	<0.05	<1	8	<5	84
STD OREAS45EA	Standard	0.030	7	877	0.10	141	0.099	<20	3.26	0.02	0.05	<2	<0.05	<1	9	<5	83
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
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 CDN-PGMS-19 Expected																	
STD CDN-PGMS-23 Expected																	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<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	<5
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																



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Client: Longford Exploration Services Ltd.
6970 Napier Street
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Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 14, 2017
Report Date: September 25, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI17000580.1

CLIENT JOB INFORMATION

Project: ULTRA
Shipment ID:
P.O. Number
Number of Samples: 320

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.
6970 Napier Street
Burnaby British Columbia V5B 2C4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	318	Dry at 60C			WHI
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	318	Save all or part of Soil Reject			WHI
FA330	318	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	318	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	318	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	318	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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Project: ULTRA
Report Date: September 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000580.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au ppb 2	Pt ppb 3	Pd ppb 2	Mo ppm 1	Cu ppm 1	Pb ppm 3	Zn ppm 1	Ag ppm 0.3	Ni ppm 1	Co ppm 1	Mn ppm 2	Fe % 0.01	As ppm 2	Th ppm 2	Sr ppm 1	Cd ppm 0.5	Sb ppm 3	Bi ppm 3	V ppm 1	Ca % 0.01
K896201	Soil	6	<3	2	2	40	<3	82	<0.3	42	15	460	3.42	13	<2	28	<0.5	<3	<3	64	0.40
K896202	Soil	4	<3	<2	1	36	<3	66	<0.3	32	12	421	3.10	11	<2	22	<0.5	<3	<3	62	0.29
K896203	Soil	3	12	<2	3	45	10	144	<0.3	51	18	452	3.91	13	2	40	1.2	<3	<3	75	0.74
K896204	Soil	8	12	7	2	79	<3	501	<0.3	106	24	1286	3.91	15	3	25	3.0	<3	<3	72	0.38
K896205	Soil	6	<3	5	3	42	9	143	<0.3	45	16	457	3.64	13	2	33	<0.5	<3	<3	70	0.61
K896206	Soil	6	4	3	3	73	9	417	0.3	104	18	955	3.30	11	<2	56	5.0	<3	<3	63	1.13
K896207	Soil	9	<3	6	2	34	4	190	<0.3	30	11	410	2.28	9	<2	40	1.5	<3	<3	50	1.16
K896208	Soil	4	3	2	3	50	6	238	<0.3	43	19	551	3.04	9	<2	35	1.4	<3	<3	57	0.63
K896209	Soil	6	7	<2	3	82	7	418	<0.3	96	36	1398	3.44	12	<2	30	3.8	<3	<3	68	0.35
K896210	Soil	5	4	<2	3	78	6	415	<0.3	88	35	1459	3.54	11	2	35	3.2	<3	<3	70	0.34
K896211	Soil	5	3	<2	2	73	5	233	<0.3	61	21	669	3.60	12	3	32	1.7	<3	<3	68	0.36
K896212	Soil	8	4	<2	3	63	8	319	<0.3	78	20	822	3.37	14	<2	36	2.4	<3	<3	69	0.62
K896213	Soil	4	<3	3	2	55	6	104	<0.3	39	15	812	3.33	14	<2	38	<0.5	<3	<3	64	0.75
K896214	Soil	8	4	2	2	43	7	74	<0.3	34	15	620	3.15	13	<2	49	<0.5	<3	<3	62	1.12
K896215	Soil	8	12	7	1	34	5	76	<0.3	30	15	593	2.75	10	<2	55	0.9	<3	<3	56	1.38
K896216	Soil	23	<3	6	2	41	6	97	<0.3	33	12	446	2.87	11	2	33	<0.5	<3	<3	57	0.60
K896217	Soil	6	6	2	2	52	10	91	<0.3	34	19	703	3.70	17	<2	39	<0.5	<3	<3	64	0.76
K896218	Soil	8	5	<2	2	40	<3	120	<0.3	36	16	631	3.22	13	<2	33	0.6	<3	<3	63	0.70
K896219	Soil	6	4	<2	2	43	6	184	<0.3	38	16	677	3.12	11	<2	38	0.7	<3	<3	61	0.62
K896220	Soil	4	5	3	2	43	4	191	<0.3	38	15	705	3.07	12	<2	38	0.9	<3	<3	62	0.62
K896221	Soil	5	7	4	1	190	10	102	0.3	56	14	297	2.56	11	<2	53	1.5	<3	<3	58	1.00
K896222	Soil	<2	6	3	3	44	4	146	<0.3	41	17	575	3.20	13	<2	43	1.0	<3	<3	68	0.75
K896223	Soil	5	9	<2	3	53	9	128	<0.3	43	15	320	3.23	11	<2	45	1.5	<3	<3	58	1.04
K896224	Soil	4	<3	<2	2	53	7	110	<0.3	39	13	648	2.48	9	<2	48	1.2	<3	<3	53	1.23
K896225	Soil	6	11	5	2	90	6	230	0.3	57	16	431	2.60	9	<2	47	5.0	<3	<3	63	1.19
K896226	Soil	4	<3	<2	5	37	6	110	0.3	44	16	544	3.07	12	<2	36	1.3	<3	<3	62	0.73
K896227	Soil	6	13	8	4	66	8	188	<0.3	53	18	795	3.03	11	<2	44	1.3	<3	<3	58	1.06
K896228	Soil	11	15	4	2	74	6	273	<0.3	73	16	600	3.03	10	<2	38	0.9	<3	<3	59	0.71
K896229	Soil	3	12	3	2	48	7	100	<0.3	45	16	516	3.11	11	<2	33	1.0	<3	<3	62	0.92
K896230	Soil	10	19	39	2	46	5	106	<0.3	46	16	483	3.12	12	<2	32	1.0	<3	<3	63	0.87



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Project: ULTRA
Report Date: September 25, 2017

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000580.1

	Method	Analyte	Unit	MDL	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
K896201	Soil																			
K896202	Soil																			
K896203	Soil																			
K896204	Soil																			
K896205	Soil																			
K896206	Soil																			
K896207	Soil																			
K896208	Soil																			
K896209	Soil																			
K896210	Soil																			
K896211	Soil																			
K896212	Soil																			
K896213	Soil																			
K896214	Soil																			
K896215	Soil																			
K896216	Soil																			
K896217	Soil																			
K896218	Soil																			
K896219	Soil																			
K896220	Soil																			
K896221	Soil																			
K896222	Soil																			
K896223	Soil																			
K896224	Soil																			
K896225	Soil																			
K896226	Soil																			
K896227	Soil																			
K896228	Soil																			
K896229	Soil																			
K896230	Soil																			



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CERTIFICATE OF ANALYSIS

WHI17000580.1

	Method Analyte Unit MDL	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K896231	Soil	5	10	<2	3	42	6	230	<0.3	58	15	557	3.31	11	<2	35	<0.5	<3	<3	61	0.72
K896232	Soil	4	5	<2	1	42	6	63	<0.3	32	13	443	3.17	10	<2	30	<0.5	<3	<3	68	0.48
K896233	Soil	5	4	2	1	50	6	68	<0.3	39	14	521	3.16	11	<2	38	<0.5	<3	<3	63	0.68
K896234	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.
K896235	Soil	3	4	2	1	40	5	80	<0.3	40	15	605	3.17	11	<2	25	<0.5	<3	<3	71	0.53
K896236	Soil	81	<3	4	2	70	5	82	<0.3	52	16	498	3.35	12	<2	24	<0.5	<3	<3	64	0.43
K896237	Soil	7	<3	8	2	63	5	83	<0.3	46	18	591	3.51	14	<2	32	<0.5	<3	<3	65	0.63
K896238	Soil	8	8	13	2	52	9	83	<0.3	40	18	500	3.71	17	<2	33	<0.5	<3	<3	64	0.68
K896239	Soil	8	13	37	1	101	<3	69	<0.3	36	15	528	3.00	13	<2	24	<0.5	<3	<3	60	0.67
K896240	Soil	4	11	35	1	93	7	80	<0.3	39	17	566	3.34	14	<2	24	<0.5	<3	<3	68	0.62
K896241	Soil	12	<3	14	2	42	4	75	<0.3	35	15	546	3.33	13	<2	33	<0.5	<3	<3	63	0.63
K896242	Soil	5	<3	4	3	61	10	132	0.3	50	20	801	3.53	12	2	36	0.9	<3	<3	71	0.81
K896243	Soil	7	<3	10	4	67	8	130	0.5	60	19	735	2.60	9	<2	48	1.3	<3	<3	48	1.65
K896244	Soil	5	<3	2	1	30	7	76	<0.3	25	12	696	2.09	7	<2	51	0.9	<3	<3	41	1.44
K896245	Soil	11	<3	5	2	50	5	121	<0.3	39	14	519	3.02	13	<2	25	0.5	<3	<3	60	0.47
K896246	Soil	7	<3	7	3	49	8	118	<0.3	45	18	718	3.51	14	2	30	0.5	<3	<3	66	0.62
K896247	Soil	11	<3	9	2	51	7	85	<0.3	43	16	516	3.26	12	2	31	<0.5	<3	<3	61	0.61
K896248	Soil	22	<3	6	3	37	5	282	<0.3	49	22	665	3.28	11	<2	28	0.8	<3	<3	60	0.53
K896249	Soil	9	<3	7	3	63	3	165	0.3	48	16	825	3.91	18	<2	31	0.9	<3	<3	64	0.61
K896250	Soil	6	5	4	3	51	6	158	<0.3	43	14	593	3.35	14	2	28	0.9	<3	<3	59	0.50
K896251	Soil	6	3	6	2	59	5	199	0.3	57	20	870	3.46	11	2	41	1.6	<3	<3	65	0.82
K896252	Soil	9	8	11	2	51	6	110	<0.3	43	17	510	3.42	13	2	33	<0.5	<3	<3	64	0.64
K896253	Soil	9	<3	12	2	55	6	99	<0.3	42	16	711	3.06	12	<2	39	0.7	<3	<3	62	0.87
K896255	Soil	9	<3	4	2	60	9	117	<0.3	42	18	620	3.44	16	<2	37	1.1	<3	<3	60	0.82
K896256	Soil	8	<3	4	2	38	4	102	<0.3	33	15	486	3.28	16	<2	23	<0.5	<3	<3	60	0.39
K896257	Soil	13	<3	3	2	64	7	101	<0.3	47	16	555	3.55	18	<2	28	<0.5	<3	<3	65	0.51
K896258	Soil	6	<3	4	2	40	6	104	<0.3	33	15	476	3.46	16	<2	30	<0.5	<3	<3	67	0.60
K896259	Soil	13	<3	8	1	57	6	84	<0.3	41	16	462	3.45	13	<2	38	<0.5	<3	<3	66	0.80
K896260	Soil	5	<3	4	<1	81	5	90	<0.3	57	15	577	2.76	7	<2	49	0.5	<3	<3	51	1.21
K896261	Soil	5	<3	4	2	48	6	86	<0.3	36	15	536	3.15	14	<2	40	0.6	<3	<3	60	0.80



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Method	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
K896231	Soil	0.071	9	44	0.82	105	0.040	<20	1.79	0.02	0.07	<2	0.08	<1	<5	<5
K896232	Soil	0.045	11	45	0.75	147	0.058	<20	1.70	0.02	0.05	<2	<0.05	<1	<5	6
K896233	Soil	0.048	11	46	0.74	143	0.056	<20	1.53	0.02	0.06	<2	<0.05	<1	<5	6
K896234	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.
K896235	Soil	0.064	8	49	0.88	194	0.054	<20	1.72	0.01	0.06	<2	<0.05	<1	<5	5
K896236	Soil	0.046	10	57	0.83	149	0.039	<20	1.61	0.01	0.04	<2	<0.05	<1	<5	5
K896237	Soil	0.079	12	53	0.81	198	0.030	<20	1.69	0.01	0.05	<2	<0.05	<1	<5	5
K896238	Soil	0.102	13	51	0.85	267	0.031	<20	1.65	0.01	0.06	<2	<0.05	<1	<5	5
K896239	Soil	0.077	10	43	0.71	155	0.042	<20	1.57	0.02	0.04	<2	<0.05	<1	<5	<5
K896240	Soil	0.078	12	50	0.81	180	0.045	<20	1.82	0.02	0.04	<2	<0.05	<1	<5	<5
K896241	Soil	0.034	11	41	0.74	160	0.053	<20	1.49	0.02	0.06	<2	<0.05	<1	<5	6
K896242	Soil	0.083	13	45	0.73	247	0.047	<20	1.82	0.02	0.04	<2	<0.05	<1	<5	5
K896243	Soil	0.086	12	35	0.53	137	0.032	<20	1.38	0.02	0.05	<2	0.10	<1	<5	<5
K896244	Soil	0.097	7	27	0.52	132	0.030	<20	1.04	0.02	0.04	<2	0.10	<1	<5	<5
K896245	Soil	0.056	7	37	0.67	123	0.055	<20	1.34	0.02	0.04	<2	<0.05	<1	<5	<5
K896246	Soil	0.064	11	44	0.78	169	0.051	<20	1.57	0.02	0.05	<2	<0.05	<1	<5	5
K896247	Soil	0.059	11	43	0.77	168	0.050	<20	1.56	0.02	0.05	<2	<0.05	<1	<5	5
K896248	Soil	0.081	9	44	0.80	141	0.039	<20	1.74	0.01	0.05	<2	<0.05	<1	<5	<5
K896249	Soil	0.099	11	42	0.73	149	0.050	<20	1.48	0.02	0.07	<2	<0.05	<1	<5	6
K896250	Soil	0.089	9	39	0.72	122	0.061	<20	1.35	0.02	0.07	<2	<0.05	<1	<5	6
K896251	Soil	0.100	10	45	0.80	163	0.049	<20	1.45	0.02	0.07	<2	<0.05	<1	<5	<5
K896252	Soil	0.097	11	44	0.82	144	0.067	<20	1.46	0.02	0.07	<2	<0.05	<1	<5	6
K896253	Soil	0.098	11	41	0.71	183	0.034	<20	1.57	0.01	0.05	<2	0.05	<1	<5	<5
K896255	Soil	0.088	9	46	0.76	179	0.027	<20	1.50	0.01	0.06	<2	<0.05	<1	<5	5
K896256	Soil	0.035	7	40	0.72	126	0.051	<20	1.36	0.01	0.05	<2	<0.05	<1	<5	<5
K896257	Soil	0.042	11	44	0.78	193	0.044	<20	1.70	0.01	0.05	<2	<0.05	<1	<5	7
K896258	Soil	0.069	9	45	0.79	154	0.032	<20	1.67	0.01	0.05	<2	<0.05	<1	<5	<5
K896259	Soil	0.059	11	44	0.80	195	0.048	<20	1.59	0.02	0.05	<2	<0.05	<1	<5	5
K896260	Soil	0.076	12	39	0.67	291	0.034	<20	1.52	0.02	0.04	<2	<0.05	<1	<5	<5
K896261	Soil	0.070	10	37	0.66	155	0.043	<20	1.34	0.02	0.07	<2	<0.05	<1	<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
	Analyte	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
K896262	Soil	6	<3	5	2	57	6	96	<0.3	41	15	512	3.34	12	<2	47	0.6	<3	<3	62	1.10
K896263	Soil	8	<3	9	2	56	8	82	<0.3	41	16	896	3.21	13	<2	47	0.5	<3	<3	64	1.01
K896264	Soil	7	<3	5	2	59	6	98	<0.3	39	15	589	3.50	15	<2	45	<0.5	<3	<3	65	1.04
K896265	Soil	9	3	9	2	41	4	88	<0.3	30	16	487	3.24	13	<2	49	0.6	<3	<3	59	1.16
K896266	Soil	9	12	10	<1	28	<3	54	<0.3	23	10	578	2.13	6	<2	74	0.9	<3	<3	37	2.05
K896267	Soil	10	3	43	2	41	7	65	<0.3	22	15	626	2.87	12	<2	48	0.7	<3	<3	60	1.06
K896268	Soil	7	<3	6	2	43	4	78	<0.3	36	18	630	3.32	14	<2	46	0.7	<3	<3	61	0.94
K896269	Soil	7	<3	3	1	48	6	83	<0.3	37	16	496	3.37	15	<2	43	<0.5	<3	<3	60	0.98
K896270	Soil	10	<3	4	2	55	7	87	<0.3	39	16	626	3.31	15	<2	45	<0.5	<3	<3	58	1.02
K896271	Soil	10	<3	10	2	72	6	115	<0.3	41	17	578	3.63	17	3	38	0.9	<3	<3	63	0.78
K896272	Soil	5	<3	5	1	61	6	85	<0.3	44	17	554	3.58	13	<2	38	<0.5	<3	<3	67	0.76
K896273	Soil	20	<3	9	1	103	4	63	<0.3	33	17	531	2.59	10	<2	46	<0.5	<3	<3	58	0.98
K896274	Soil	22	<3	6	2	39	6	69	<0.3	33	17	494	3.51	15	<2	37	<0.5	<3	<3	67	0.68
K896275	Soil	8	<3	4	1	51	8	100	<0.3	34	14	463	3.24	13	<2	34	<0.5	<3	<3	61	0.67
K896276	Soil	17	<3	28	1	2547	5	82	<0.3	47	31	346	3.04	11	<2	41	<0.5	<3	<3	50	0.90
K896277	Soil	5	<3	5	2	41	7	81	<0.3	33	13	553	3.23	14	<2	52	<0.5	<3	<3	59	1.19
K896278	Soil	7	<3	2	1	39	4	75	<0.3	31	14	523	2.86	12	<2	51	<0.5	<3	<3	52	1.23
K896279	Soil	10	13	10	1	179	8	98	<0.3	44	17	648	3.12	14	<2	52	<0.5	<3	<3	51	1.25
K896280	Soil	8	<3	12	2	195	8	102	<0.3	48	17	687	3.18	15	<2	50	0.6	<3	<3	51	1.21
K896281	Soil	6	<3	3	1	50	8	136	<0.3	42	16	499	2.99	12	<2	43	<0.5	<3	<3	56	0.95
K896282	Soil	5	4	5	2	47	10	74	<0.3	36	14	463	3.26	12	<2	32	<0.5	<3	<3	58	0.62
K896283	Soil	5	<3	4	1	43	5	89	<0.3	37	15	674	3.36	14	<2	34	<0.5	<3	<3	61	0.63
K896284	Soil	10	7	8	2	69	7	104	<0.3	43	16	716	3.53	16	<2	34	<0.5	<3	<3	61	0.65
K896285	Soil	4	<3	5	3	43	5	127	<0.3	33	13	462	3.48	21	<2	20	<0.5	<3	<3	55	0.34
K896286	Soil	9	<3	6	4	84	5	196	<0.3	47	14	526	4.35	32	<2	24	0.5	<3	<3	54	0.55
K896287	Soil	7	4	5	2	62	6	166	<0.3	45	18	772	3.24	19	<2	42	0.9	<3	<3	50	1.01
K896288	Soil	6	<3	4	3	87	4	360	<0.3	67	20	715	4.00	21	<2	34	1.8	<3	<3	52	0.85
K896289	Soil	6	5	5	5	102	5	245	0.4	59	20	770	4.71	39	<2	29	2.1	<3	<3	55	0.82
K896290	Soil	12	6	11	5	106	9	266	0.4	62	22	771	4.85	42	<2	29	2.6	<3	<3	56	0.87
K896301	Soil	9	<3	<2	3	45	6	235	<0.3	48	17	1032	3.29	14	<2	38	1.2	<3	<3	60	0.80



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	Method	Analyte	Unit	MDL	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
K896262	Soil	0.083	11	41	0.73	228	0.034	<20	1.67	0.02	0.04	<2	0.05	<1	<5	<5	<5			
K896263	Soil	0.092	11	42	0.72	230	0.029	<20	1.64	0.02	0.05	<2	0.06	<1	<5	<5	<5			
K896264	Soil	0.096	12	41	0.75	191	0.031	<20	1.63	0.02	0.06	<2	0.05	<1	<5	<5	5			
K896265	Soil	0.115	10	34	0.67	178	0.034	<20	1.26	0.02	0.06	<2	0.06	<1	<5	<5	<5			
K896266	Soil	0.138	9	28	0.57	185	0.026	<20	1.10	0.02	0.03	<2	0.15	<1	<5	<5	<5			
K896267	Soil	0.109	8	35	0.66	200	0.029	<20	1.39	0.02	0.05	<2	0.07	<1	<5	<5	<5			
K896268	Soil	0.072	9	43	0.76	199	0.035	<20	1.52	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K896269	Soil	0.063	9	42	0.74	185	0.037	<20	1.48	0.02	0.06	<2	<0.05	<1	<5	<5	<5			
K896270	Soil	0.066	9	41	0.75	154	0.040	<20	1.36	0.02	0.06	<2	<0.05	<1	<5	<5	5			
K896271	Soil	0.085	10	41	0.80	124	0.059	<20	1.42	0.02	0.12	<2	<0.05	<1	<5	<5	7			
K896272	Soil	0.054	12	53	0.88	220	0.054	<20	1.65	0.02	0.08	<2	<0.05	<1	<5	<5	6			
K896273	Soil	0.106	7	55	0.80	182	0.041	<20	1.23	0.02	0.07	<2	<0.05	<1	<5	<5	<5			
K896274	Soil	0.060	9	43	0.77	192	0.044	<20	1.60	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K896275	Soil	0.069	10	41	0.76	164	0.034	<20	1.63	0.01	0.04	<2	<0.05	<1	<5	<5	<5			
K896276	Soil	0.077	13	36	0.63	115	0.037	<20	1.55	0.02	0.06	<2	<0.05	<1	<5	<5	6			
K896277	Soil	0.085	8	37	0.79	201	0.033	<20	1.48	0.02	0.04	<2	0.06	<1	<5	<5	<5			
K896278	Soil	0.073	8	32	0.64	159	0.030	<20	1.26	0.02	0.04	<2	0.05	<1	<5	<5	<5			
K896279	Soil	0.098	9	43	0.73	149	0.027	<20	1.33	0.02	0.06	<2	0.06	<1	<5	<5	<5			
K896280	Soil	0.096	8	45	0.75	150	0.029	<20	1.32	0.02	0.07	<2	0.06	<1	<5	<5	<5			
K896281	Soil	0.080	10	38	0.69	192	0.031	<20	1.52	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K896282	Soil	0.076	11	38	0.67	177	0.027	<20	1.62	0.02	0.03	<2	<0.05	<1	<5	<5	<5			
K896283	Soil	0.056	9	35	0.65	157	0.041	<20	1.44	0.02	0.03	<2	<0.05	<1	<5	<5	<5			
K896284	Soil	0.078	11	40	0.71	196	0.030	<20	1.58	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K896285	Soil	0.037	6	38	0.69	126	0.034	<20	1.30	0.01	0.04	<2	<0.05	<1	<5	<5	<5			
K896286	Soil	0.050	6	43	0.73	107	0.031	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	5			
K896287	Soil	0.084	9	33	0.60	177	0.022	<20	1.31	0.01	0.04	<2	0.07	<1	<5	<5	<5			
K896288	Soil	0.056	7	37	0.64	137	0.034	<20	1.43	0.01	0.04	<2	0.05	<1	<5	<5	<5			
K896289	Soil	0.073	6	37	0.66	103	0.038	<20	1.02	0.01	0.07	<2	0.15	<1	<5	<5	7			
K896290	Soil	0.076	6	38	0.66	96	0.039	<20	1.02	0.01	0.07	<2	0.13	<1	<5	<5	8			
K896301	Soil	0.095	8	35	0.68	165	0.053	<20	1.25	0.02	0.06	<2	0.06	<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	AQ300	AQ300
		Au ppb 2	Pt ppb 3	Pd ppb 2	Mo ppm 1	Cu ppm 1	Pb ppm 3	Zn ppm 1	Ag ppm 0.3	Ni ppm 1	Co ppm 1	Mn ppm 2	Fe % 0.01	As ppm 2	Th ppm 2	Sr ppm 1	Cd ppm 0.5	Sb ppm 3	Bi ppm 3	V ppm 1	Ca % 0.01
K896302	Soil	10	<3	4	3	63	8	306	<0.3	73	21	1800	3.34	15	<2	42	1.6	<3	<3	55	0.89
K896303	Soil	9	<3	5	2	46	7	95	<0.3	32	17	876	3.59	16	<2	38	<0.5	<3	<3	61	0.76
K896304	Soil	7	<3	4	2	32	<3	90	<0.3	27	13	595	2.82	12	<2	40	<0.5	<3	<3	53	0.99
K896305	Soil	9	5	7	4	92	5	245	0.3	62	19	738	4.24	30	<2	37	1.8	<3	<3	58	1.12
K896306	Soil	6	<3	5	1	44	8	72	<0.3	29	10	502	2.60	13	<2	51	<0.5	<3	<3	57	1.30
K896307	Soil	7	<3	21	2	62	10	90	<0.3	43	17	627	3.69	16	<2	34	<0.5	<3	<3	65	0.60
K896308	Soil	5	<3	6	2	37	8	105	<0.3	34	16	544	3.61	14	<2	31	<0.5	<3	<3	64	0.51
K896309	Soil	10	<3	5	1	45	7	81	<0.3	36	15	359	3.44	14	<2	40	<0.5	<3	<3	66	0.81
K896310	Soil	4	<3	3	2	50	7	85	<0.3	36	16	508	3.68	14	<2	35	<0.5	<3	<3	66	0.70
K896311	Soil	6	<3	5	1	52	7	118	<0.3	37	17	580	3.10	15	<2	47	0.6	<3	<3	59	1.18
K896312	Soil	6	<3	6	1	85	8	85	<0.3	48	17	460	3.51	16	<2	50	<0.5	<3	<3	61	0.87
K896313	Soil	9	<3	5	1	43	8	87	<0.3	33	15	576	3.22	15	<2	49	<0.5	<3	<3	58	1.07
K896314	Soil	7	<3	5	2	51	7	75	<0.3	35	15	711	3.22	14	<2	48	<0.5	<3	<3	59	1.04
K896315	Soil	8	<3	6	1	55	8	96	0.3	46	19	737	4.01	19	<2	42	<0.5	<3	<3	65	0.86
K896316	Soil	6	<3	2	1	62	8	90	<0.3	40	16	674	3.61	17	<2	41	<0.5	<3	<3	61	0.90
K896317	Soil	8	<3	5	2	45	8	94	<0.3	34	14	544	3.41	14	<2	38	<0.5	<3	<3	58	0.76
K896318	Soil	15	<3	3	2	37	9	71	<0.3	32	14	688	3.32	15	<2	40	<0.5	<3	<3	59	0.82
K896319	Soil	8	<3	8	2	62	9	116	<0.3	40	16	567	3.62	20	<2	39	<0.5	<3	<3	58	0.85
K896320	Soil	9	<3	4	2	60	8	98	<0.3	39	15	506	3.48	17	<2	42	<0.5	<3	<3	55	0.98
K896321	Soil	4	<3	3	<1	54	10	93	<0.3	44	16	628	3.67	12	<2	41	<0.5	<3	<3	70	0.72
K896322	Soil	6	<3	4	1	49	5	89	<0.3	39	14	529	3.59	14	<2	32	<0.5	<3	<3	70	0.58
K896323	Soil	3	<3	<2	1	34	<3	76	<0.3	32	13	542	3.04	10	<2	53	<0.5	<3	<3	59	1.20
K896324	Soil	4	<3	5	2	69	5	76	<0.3	42	16	751	3.38	12	<2	43	<0.5	<3	<3	65	0.90
K896325	Soil	4	<3	5	<1	42	9	80	0.3	32	13	534	2.74	10	<2	77	0.9	<3	<3	49	2.10
K896326	Soil	5	<3	5	2	90	6	83	<0.3	40	14	507	3.53	14	<2	34	<0.5	<3	<3	64	0.62
K896327	Soil	6	4	17	2	263	7	65	0.4	46	19	961	3.55	11	<2	69	<0.5	<3	<3	70	1.01
K896328	Soil	5	<3	7	1	67	7	65	<0.3	35	12	254	3.36	13	<2	24	<0.5	<3	<3	69	0.45
K896329	Soil	18	<3	3	<1	45	7	66	<0.3	34	10	343	3.15	9	<2	26	<0.5	<3	<3	61	0.42
K896330	Soil	5	<3	3	<1	53	4	59	<0.3	32	7	254	3.03	10	<2	25	<0.5	<3	<3	58	0.40
K896331	Soil	<2	<3	5	2	66	6	66	<0.3	41	14	299	3.48	15	<2	28	<0.5	<3	<3	68	0.50



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	Method	Analyte	Unit	MDL	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
K896302	Soil	0.093	14	32	0.66	189	0.040	<20	1.39	0.02	0.05	<2	0.08	<1	<5	<5	<5			
K896303	Soil	0.084	10	37	0.66	144	0.040	<20	1.37	0.02	0.07	<2	<0.05	<1	<5	<5	6			
K896304	Soil	0.076	6	30	0.58	124	0.041	<20	1.09	0.02	0.06	<2	0.05	<1	<5	<5	<5			
K896305	Soil	0.075	8	41	0.77	151	0.034	<20	1.25	0.02	0.08	<2	0.08	<1	<5	<5	7			
K896306	Soil	0.125	10	34	0.63	191	0.024	<20	1.42	0.02	0.04	<2	0.09	<1	<5	<5	<5			
K896307	Soil	0.056	13	47	0.82	173	0.038	<20	1.73	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K896308	Soil	0.037	9	41	0.73	131	0.043	<20	1.69	0.02	0.04	<2	<0.05	<1	<5	<5	5			
K896309	Soil	0.059	14	43	0.76	170	0.036	<20	1.67	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K896310	Soil	0.047	11	41	0.77	188	0.039	<20	1.65	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K896311	Soil	0.079	9	37	0.66	231	0.026	<20	1.42	0.02	0.04	<2	0.06	<1	<5	<5	<5			
K896312	Soil	0.076	14	42	0.76	197	0.033	<20	1.66	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K896313	Soil	0.084	10	38	0.71	167	0.033	<20	1.46	0.02	0.05	<2	0.06	<1	<5	<5	<5			
K896314	Soil	0.075	10	39	0.73	197	0.035	<20	1.50	0.02	0.05	<2	0.05	<1	<5	<5	<5			
K896315	Soil	0.056	10	41	0.80	189	0.056	<20	1.56	0.02	0.06	<2	<0.05	<1	<5	<5	6			
K896316	Soil	0.061	11	39	0.74	185	0.038	<20	1.52	0.02	0.06	<2	<0.05	<1	<5	<5	5			
K896317	Soil	0.064	9	36	0.70	129	0.051	<20	1.36	0.03	0.08	<2	<0.05	<1	<5	<5	5			
K896318	Soil	0.081	8	37	0.69	130	0.044	<20	1.27	0.02	0.07	<2	<0.05	<1	<5	<5	<5			
K896319	Soil	0.062	9	39	0.72	128	0.038	<20	1.40	0.02	0.07	<2	<0.05	<1	<5	<5	6			
K896320	Soil	0.066	9	38	0.71	131	0.035	<20	1.38	0.02	0.07	<2	<0.05	<1	<5	<5	6			
K896321	Soil	0.041	12	43	0.80	178	0.060	<20	1.65	0.03	0.05	<2	<0.05	<1	<5	<5	6			
K896322	Soil	0.028	11	48	0.87	160	0.077	<20	1.66	0.03	0.06	<2	<0.05	<1	<5	<5	6			
K896323	Soil	0.060	8	36	0.70	188	0.046	<20	1.42	0.02	0.05	<2	0.05	<1	<5	<5	<5			
K896324	Soil	0.073	12	39	0.78	170	0.057	<20	1.53	0.03	0.05	<2	<0.05	<1	<5	<5	5			
K896325	Soil	0.089	8	30	0.72	168	0.045	<20	1.20	0.03	0.09	<2	0.07	<1	<5	<5	<5			
K896326	Soil	0.057	8	40	0.68	137	0.067	<20	1.34	0.03	0.06	<2	<0.05	<1	<5	<5	7			
K896327	Soil	0.083	9	56	0.85	158	0.067	<20	1.68	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K896328	Soil	0.022	8	37	0.65	64	0.065	<20	1.75	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K896329	Soil	0.036	9	35	0.64	123	0.058	<20	1.60	0.02	0.05	<2	<0.05	<1	<5	<5	5			
K896330	Soil	0.032	10	33	0.60	113	0.058	<20	1.45	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K896331	Soil	0.032	6	40	0.67	87	0.056	<20	1.66	0.02	0.06	<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			
					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	%
					2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K896332	Soil		5	<3	5	<1	55	6	84	<0.3	39	13	463	3.60	12	<2	30	<0.5	<3	<3	69	0.53		
K896333	Soil		7	<3	<2	2	60	6	99	<0.3	39	16	448	3.87	19	<2	20	<0.5	<3	<3	73	0.30		
K896334	Soil		5	<3	5	2	39	6	115	<0.3	28	11	500	2.82	11	<2	39	0.8	<3	<3	60	0.86		
K896335	Soil		7	<3	5	2	111	8	90	<0.3	45	14	585	3.13	11	<2	51	<0.5	<3	<3	60	1.11		
K896336	Soil		10	<3	7	1	45	9	89	<0.3	36	15	697	3.30	12	<2	47	0.5	<3	<3	64	0.89		
K896337	Soil		5	<3	3	<1	42	7	69	<0.3	28	10	436	2.88	12	<2	49	<0.5	<3	<3	53	1.41		
K896338	Soil		6	<3	5	1	48	10	113	<0.3	38	15	561	3.51	13	<2	39	0.5	<3	<3	65	0.85		
K896339	Soil		7	<3	7	3	45	7	105	<0.3	35	13	612	3.11	14	<2	40	<0.5	<3	<3	62	0.86		
K896340	Soil		4	<3	3	2	30	5	99	<0.3	33	12	461	3.18	12	<2	31	<0.5	<3	<3	59	0.59		
K897101	Soil		5	<3	6	2	44	10	83	<0.3	36	16	629	3.83	15	<2	33	<0.5	<3	<3	75	0.56		
K897102	Soil		4	4	28	1	29	4	85	<0.3	40	15	474	3.30	9	<2	26	<0.5	<3	<3	61	0.48		
K897103	Soil		3	<3	5	2	40	4	75	<0.3	43	16	599	3.04	11	<2	36	<0.5	<3	<3	53	0.83		
K897104	Soil		4	7	5	2	47	8	163	<0.3	58	18	545	3.17	18	<2	53	0.7	<3	<3	60	1.31		
K897105	Soil		3	3	7	2	53	7	222	<0.3	74	20	514	3.41	12	<2	45	0.7	<3	<3	59	0.90		
K897106	Soil		7	<3	7	2	44	5	73	<0.3	38	15	637	3.41	12	<2	38	<0.5	<3	<3	67	0.92		
K897107	Soil		7	<3	5	3	60	7	377	<0.3	113	23	944	3.35	10	<2	42	3.6	<3	<3	64	0.91		
K897108	Soil		4	<3	8	4	60	8	362	<0.3	85	30	1939	3.44	14	<2	30	3.5	<3	<3	66	0.43		
K897109	Soil		4	<3	6	2	43	5	242	<0.3	50	19	1064	3.55	12	<2	40	1.8	<3	<3	64	0.70		
K897110	Soil		5	7	8	2	44	5	197	<0.3	51	14	395	3.03	12	<2	49	1.7	<3	<3	56	0.92		
K897111	Soil		12	9	8	2	62	4	190	<0.3	92	13	319	3.16	13	<2	49	4.2	<3	<3	54	0.72		
K897112	Soil		3	<3	5	2	56	5	86	<0.3	42	15	504	3.49	14	<2	33	<0.5	<3	<3	64	0.53		
K897113	Soil		7	<3	6	2	65	7	123	<0.3	51	18	695	3.62	14	<2	33	<0.5	<3	<3	65	0.59		
K897114	Soil		7	<3	3	2	60	7	90	<0.3	53	18	693	3.69	15	<2	28	<0.5	<3	<3	64	0.46		
K897115	Soil		6	<3	3	2	51	6	108	<0.3	52	16	602	3.46	14	<2	30	<0.5	<3	<3	62	0.51		
K897116	Soil		7	<3	4	2	59	4	90	<0.3	45	16	657	3.35	13	<2	34	<0.5	<3	<3	60	0.58		
K897117	Soil		7	<3	4	2	54	5	90	<0.3	44	15	444	3.33	13	3	33	<0.5	<3	<3	63	0.59		
K897118	Soil		5	<3	4	2	46	3	83	<0.3	32	15	525	3.11	12	<2	38	0.6	<3	<3	61	0.62		
K897119	Soil		12	<3	3	2	85	<3	89	<0.3	35	16	743	3.22	12	<2	68	<0.5	<3	<3	62	0.88		
K897120	Soil		12	<3	7	2	78	4	83	<0.3	32	15	621	3.04	10	<2	61	0.5	<3	<3	60	0.81		
K897121	Soil		7	<3	2	2	50	4	88	<0.3	33	15	491	3.24	12	2	37	<0.5	<3	<3	63	0.54		



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		Method Analyte Unit MDL	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
K896332	Soil	0.034	12	41	0.74	151	0.057	<20	1.81	0.02	0.05	<2	<0.05	<1	<5	<5	6	
K896333	Soil	0.020	7	35	0.66	48	0.077	<20	1.56	0.02	0.06	<2	<0.05	<1	<5	<5	5	
K896334	Soil	0.098	8	36	0.66	138	0.042	<20	1.48	0.02	0.04	<2	0.06	<1	<5	<5	<5	
K896335	Soil	0.100	16	34	0.63	160	0.044	<20	1.42	0.03	0.05	<2	<0.05	<1	<5	<5	6	
K896336	Soil	0.051	11	38	0.70	140	0.056	<20	1.62	0.03	0.05	<2	<0.05	<1	<5	<5	<5	
K896337	Soil	0.054	10	28	0.62	75	0.064	<20	1.14	0.04	0.06	<2	<0.05	<1	<5	<5	5	
K896338	Soil	0.043	10	42	0.73	184	0.049	<20	1.64	0.02	0.04	<2	<0.05	<1	<5	<5	<5	
K896339	Soil	0.093	12	34	0.63	162	0.039	<20	1.46	0.02	0.04	<2	0.06	<1	<5	<5	<5	
K896340	Soil	0.067	7	33	0.66	123	0.057	<20	1.37	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897101	Soil	0.042	11	50	0.86	228	0.052	<20	2.03	0.02	0.05	<2	<0.05	<1	<5	<5	6	
K897102	Soil	0.029	7	34	0.99	115	0.083	<20	1.71	0.01	0.09	<2	<0.05	<1	<5	5	<5	
K897103	Soil	0.065	10	33	0.83	85	0.052	<20	1.51	0.02	0.08	<2	0.07	<1	<5	<5	<5	
K897104	Soil	0.056	10	37	0.72	174	0.048	<20	1.64	0.02	0.07	<2	0.08	<1	<5	<5	<5	
K897105	Soil	0.076	9	39	0.78	125	0.037	<20	1.86	0.02	0.06	<2	0.07	<1	<5	<5	<5	
K897106	Soil	0.029	12	43	0.85	179	0.069	<20	1.51	0.03	0.06	<2	<0.05	<1	<5	<5	6	
K897107	Soil	0.064	12	40	0.87	144	0.058	<20	1.72	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897108	Soil	0.088	12	40	0.70	145	0.045	<20	1.90	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897109	Soil	0.095	10	38	0.67	211	0.040	<20	1.58	0.02	0.04	<2	0.07	<1	<5	<5	<5	
K897110	Soil	0.083	10	38	0.69	216	0.038	<20	1.41	0.02	0.05	<2	0.08	<1	<5	<5	<5	
K897111	Soil	0.093	10	38	0.69	171	0.038	<20	1.51	0.02	0.05	<2	0.12	<1	<5	<5	<5	
K897112	Soil	0.067	10	47	0.81	160	0.057	<20	1.54	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897113	Soil	0.069	8	50	0.83	180	0.048	<20	1.53	0.02	0.05	<2	<0.05	<1	<5	<5	5	
K897114	Soil	0.043	9	56	0.85	175	0.039	<20	1.54	0.01	0.05	<2	<0.05	<1	<5	<5	5	
K897115	Soil	0.062	7	54	0.89	147	0.063	<20	1.40	0.02	0.06	<2	<0.05	<1	<5	<5	<5	
K897116	Soil	0.085	10	47	0.79	143	0.050	<20	1.40	0.02	0.06	<2	<0.05	<1	<5	<5	6	
K897117	Soil	0.079	10	48	0.83	146	0.064	<20	1.37	0.02	0.07	<2	<0.05	<1	<5	<5	5	
K897118	Soil	0.075	9	43	0.75	232	0.037	<20	1.46	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897119	Soil	0.090	10	43	0.78	257	0.040	<20	1.42	0.02	0.06	<2	<0.05	<1	<5	<5	<5	
K897120	Soil	0.084	9	41	0.74	220	0.042	<20	1.32	0.02	0.05	<2	<0.05	<1	<5	<5	<5	
K897121	Soil	0.073	8	44	0.78	180	0.065	<20	1.30	0.02	0.06	<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	AQ300	AQ300
		Au ppb 2	Pt ppb 3	Pd ppb 2	Mo ppm 1	Cu ppm 1	Pb ppm 3	Zn ppm 1	Ag ppm 0.3	Ni ppm 1	Co ppm 1	Mn ppm 2	Fe % 0.01	As ppm 2	Th ppm 2	Sr ppm 1	Cd ppm 0.5	Sb ppm 3	Bi ppm 3	V ppm 1	Ca % 0.01
K897122	Soil	10	<3	5	2	74	9	96	<0.3	50	18	722	3.70	15	2	42	0.6	<3	<3	69	0.87
K897123	Soil	6	<3	5	2	64	6	82	<0.3	44	17	1136	3.29	13	<2	51	0.9	<3	<3	62	1.22
K897124	Soil	8	6	3	2	56	7	85	<0.3	37	15	539	3.35	14	<2	39	0.7	<3	<3	59	0.87
K897125	Soil	7	<3	5	2	68	6	92	<0.3	45	17	603	3.40	15	2	40	0.9	<3	<3	61	0.94
K897126	Soil	12	<3	5	2	49	6	72	<0.3	34	15	689	3.19	13	<2	40	<0.5	<3	<3	65	0.80
K897127	Soil	14	<3	<2	2	59	4	86	<0.3	44	18	812	3.61	16	2	37	<0.5	<3	<3	66	0.63
K897128	Soil	7	<3	4	2	58	7	99	<0.3	43	16	481	3.60	15	<2	36	0.6	<3	<3	70	0.67
K897129	Soil	9	4	3	2	59	6	89	<0.3	40	16	575	3.71	16	3	33	<0.5	<3	<3	67	0.54
K897130	Soil	9	<3	5	2	58	4	88	<0.3	40	15	508	3.60	16	<2	33	<0.5	<3	<3	65	0.53
K897131	Soil	11	<3	5	3	55	7	171	0.3	46	17	691	3.24	12	<2	56	1.1	<3	<3	67	1.01
K897132	Soil	6	<3	<2	4	62	5	296	0.3	80	17	669	3.49	11	<2	36	2.7	<3	<3	63	0.47
K897133	Soil	8	4	4	3	75	8	551	0.4	128	21	655	3.06	10	<2	39	3.4	<3	<3	57	0.60
K897134	Soil	7	<3	6	3	57	5	1186	<0.3	131	41	1320	3.62	13	3	50	3.2	<3	<3	67	0.98
K897135	Soil	7	<3	8	5	354	7	406	<0.3	63	16	517	4.13	11	<2	23	1.5	<3	<3	68	0.24
K897136	Soil	5	<3	3	2	46	8	178	<0.3	44	19	725	3.42	12	<2	45	1.3	<3	<3	72	0.99
K897137	Soil	4	<3	5	3	25	3	84	<0.3	29	9	1917	2.41	6	<2	77	1.0	<3	<3	24	6.28
K897138	Soil	6	<3	16	1	59	5	151	<0.3	56	16	607	3.41	10	3	39	<0.5	<3	<3	68	0.68
K897139	Soil	5	<3	5	2	44	9	90	<0.3	36	18	690	3.72	12	3	34	<0.5	<3	<3	78	0.63
K897140	Soil	5	<3	4	2	42	6	94	<0.3	37	18	645	3.72	13	2	34	0.5	<3	<3	79	0.61
K897141	Soil	6	5	6	2	46	5	74	<0.3	31	15	482	3.09	11	<2	40	0.7	<3	<3	61	0.80
K897142	Soil	15	<3	6	1	53	6	98	<0.3	38	13	358	3.11	10	<2	58	0.7	<3	<3	59	1.51
K897143	Soil	8	<3	6	1	56	5	72	<0.3	44	14	411	3.01	13	<2	59	0.5	<3	<3	56	2.26
K897144	Soil	5	<3	2	1	30	6	118	<0.3	39	13	488	3.48	10	<2	36	<0.5	<3	<3	71	0.71
K897145	Soil	9	4	10	2	98	6	171	0.3	70	20	695	3.96	15	<2	47	1.9	<3	<3	66	1.04
K897146	Soil	6	<3	3	3	66	7	216	<0.3	49	23	731	3.46	12	<2	52	2.1	<3	<3	65	1.12
K897147	Soil	6	<3	6	<1	64	7	108	<0.3	46	15	481	3.09	11	<2	57	1.3	<3	<3	58	1.42
K897148	Soil	8	<3	2	4	30	5	248	<0.3	40	24	791	3.35	9	<2	40	1.3	<3	<3	65	0.75
K897149	Soil	7	3	8	2	33	5	107	<0.3	27	13	343	3.17	7	<2	61	1.4	<3	<3	54	1.44
K897150	Soil	6	<3	4	1	32	8	117	<0.3	27	14	434	2.69	7	<2	57	1.0	<3	<3	52	1.32
K897151	Soil	18	6	6	2	58	9	85	<0.3	40	16	688	3.25	13	<2	55	0.6	<3	<3	61	2.00



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Method	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
K897122	Soil	0.056	11	51	0.86	187	0.053	<20	1.67	0.02	0.07	<2	<0.05	<1	<5	<5
K897123	Soil	0.093	9	43	0.73	252	0.028	<20	1.51	0.02	0.04	<2	0.07	<1	<5	<5
K897124	Soil	0.094	10	43	0.73	183	0.035	<20	1.44	0.02	0.05	<2	0.05	<1	<5	<5
K897125	Soil	0.094	11	46	0.91	137	0.061	<20	1.38	0.02	0.09	<2	<0.05	<1	<5	<5
K897126	Soil	0.104	12	44	0.71	242	0.029	<20	1.75	0.02	0.04	<2	0.07	<1	<5	<5
K897127	Soil	0.057	11	48	0.81	200	0.055	<20	1.58	0.02	0.07	<2	<0.05	<1	<5	<5
K897128	Soil	0.073	11	47	0.81	209	0.034	<20	1.83	0.01	0.05	<2	<0.05	<1	<5	<5
K897129	Soil	0.086	12	49	0.83	161	0.055	<20	1.53	0.01	0.06	<2	<0.05	<1	<5	<5
K897130	Soil	0.086	12	47	0.80	140	0.063	<20	1.41	0.02	0.06	<2	<0.05	<1	<5	<5
K897131	Soil	0.094	10	38	0.69	206	0.042	<20	1.47	0.02	0.05	<2	0.14	<1	<5	<5
K897132	Soil	0.100	12	39	0.70	129	0.042	<20	1.77	0.01	0.05	<2	0.15	<1	<5	<5
K897133	Soil	0.105	16	38	0.70	159	0.043	<20	1.77	0.02	0.06	<2	0.10	<1	<5	<5
K897134	Soil	0.089	11	44	0.84	198	0.051	<20	1.58	0.02	0.07	<2	0.10	<1	<5	<5
K897135	Soil	0.097	12	48	0.75	144	0.042	<20	2.27	0.01	0.05	<2	0.13	<1	<5	7
K897136	Soil	0.043	12	45	0.81	184	0.048	<20	1.83	0.02	0.04	<2	<0.05	<1	<5	<5
K897137	Soil	0.049	5	15	0.43	89	0.018	<20	0.80	0.03	0.03	<2	0.07	<1	<5	<5
K897138	Soil	0.034	13	43	0.83	154	0.065	<20	1.96	0.02	0.08	<2	<0.05	<1	<5	<5
K897139	Soil	0.049	13	51	0.89	216	0.058	<20	2.15	0.02	0.05	<2	<0.05	<1	<5	<5
K897140	Soil	0.052	13	52	0.90	213	0.056	<20	2.20	0.02	0.05	<2	<0.05	<1	<5	5
K897141	Soil	0.101	11	43	0.77	190	0.039	<20	1.52	0.02	0.05	<2	0.05	<1	<5	<5
K897142	Soil	0.105	11	42	0.76	265	0.044	<20	1.55	0.03	0.06	<2	0.09	<1	<5	<5
K897143	Soil	0.069	9	44	0.83	119	0.048	<20	1.26	0.03	0.09	<2	<0.05	<1	<5	5
K897144	Soil	0.044	11	55	0.96	159	0.068	<20	1.77	0.02	0.05	<2	<0.05	<1	<5	6
K897145	Soil	0.107	19	50	0.89	258	0.034	<20	2.16	0.02	0.04	<2	<0.05	<1	<5	5
K897146	Soil	0.091	12	43	0.80	209	0.047	<20	1.69	0.02	0.06	<2	0.06	<1	<5	<5
K897147	Soil	0.087	14	43	0.74	240	0.042	<20	1.55	0.02	0.06	<2	0.09	<1	<5	5
K897148	Soil	0.074	7	36	0.64	125	0.055	<20	1.31	0.02	0.06	<2	0.06	<1	<5	<5
K897149	Soil	0.101	9	36	0.71	186	0.040	<20	1.30	0.02	0.05	<2	0.11	<1	<5	<5
K897150	Soil	0.095	9	37	0.74	162	0.043	<20	1.32	0.02	0.05	<2	0.10	<1	<5	<5
K897151	Soil	0.088	9	39	0.94	145	0.051	<20	1.35	0.03	0.08	<2	0.06	<1	<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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897152	Soil	4	<3	5	2	46	5	127	<0.3	39	14	607	2.97	9	<2	41	1.0	<3	<3	57	0.96
K897153	Soil	6	<3	4	2	48	<3	140	<0.3	36	13	460	2.98	12	<2	36	0.8	<3	<3	55	0.78
K897154	Soil	6	<3	6	2	51	<3	146	<0.3	37	18	1061	3.89	20	<2	44	<0.5	<3	<3	65	1.00
K897155	Soil	8	<3	3	3	62	<3	83	<0.3	39	15	603	2.64	10	<2	58	1.4	<3	<3	50	1.50
K897156	Soil	6	6	4	3	57	<3	113	<0.3	32	16	1052	2.99	14	<2	39	0.9	<3	<3	61	0.81
K897157	Soil	8	11	4	1	68	<3	155	<0.3	49	12	347	2.84	11	<2	77	1.3	<3	<3	59	1.33
K897158	Soil	7	7	3	2	68	<3	133	<0.3	51	17	337	2.92	11	<2	158	1.3	<3	<3	55	1.15
K897159	Soil	14	<3	3	2	48	<3	108	<0.3	41	17	269	3.30	16	<2	207	<0.5	<3	<3	60	1.00
K897160	Soil	6	<3	6	2	46	<3	101	<0.3	40	17	454	3.41	17	<2	218	0.8	<3	<3	56	1.11
K897161	Soil	9	3	8	1	63	<3	115	<0.3	51	21	500	2.91	14	2	125	0.6	<3	<3	61	1.58
K897162	Soil	9	<3	<2	3	66	<3	136	<0.3	57	26	1195	3.53	16	<2	196	1.0	<3	<3	61	2.15
K897163	Soil	17	<3	2	2	57	<3	128	<0.3	53	24	967	5.49	19	2	255	0.8	<3	<3	55	1.18
K897164	Soil	12	<3	6	2	59	<3	221	<0.3	55	34	684	3.43	12	2	49	1.3	<3	<3	65	0.65
K897165	Soil	8	5	6	3	55	<3	192	<0.3	43	14	379	3.24	12	<2	50	2.3	<3	<3	66	0.76
K897166	Soil	8	<3	<2	1	68	3	271	<0.3	40	17	1534	4.10	13	2	100	5.4	<3	<3	56	1.89
K897167	Soil	7	<3	4	1	52	3	212	<0.3	42	14	325	2.81	12	2	41	1.8	<3	<3	61	0.80
K897168	Soil	7	3	22	1	54	4	217	<0.3	41	19	891	3.07	14	<2	68	2.8	<3	<3	58	1.36
K897169	Soil	8	5	13	2	70	<3	237	<0.3	47	16	552	4.13	28	<2	57	1.6	<3	<3	74	1.02
K897170	Soil	10	4	7	<1	49	4	216	<0.3	37	13	593	2.63	10	<2	56	1.7	<3	<3	61	1.02
K897171	Soil	9	8	4	1	55	<3	146	<0.3	41	13	417	3.50	14	<2	39	1.0	<3	<3	63	0.81
K897172	Soil	5	<3	5	<1	42	<3	75	<0.3	33	13	481	2.99	12	<2	41	<0.5	<3	<3	60	0.82
K897173	Soil	8	5	4	2	51	<3	80	0.3	37	16	588	3.39	14	2	40	<0.5	<3	4	62	0.97
K897174	Soil	29	5	6	2	56	<3	212	<0.3	45	14	865	3.21	16	<2	44	1.7	<3	<3	61	1.03
K897175	Soil	6	3	13	2	62	<3	225	<0.3	43	15	1078	3.23	20	<2	47	1.5	<3	<3	60	1.15
K897176	Soil	31	<3	5	2	50	<3	178	<0.3	41	15	742	3.10	11	<2	50	1.1	<3	<3	62	1.21
K897177	Soil	15	<3	6	1	52	<3	173	<0.3	41	15	886	3.29	17	<2	49	1.2	<3	<3	66	1.18
K897178	Soil	17	<3	4	2	65	<3	120	<0.3	57	18	783	3.80	9	3	53	0.9	<3	<3	80	1.02
K897179	Soil	19	5	8	3	102	5	303	<0.3	74	20	864	3.86	13	2	48	5.4	<3	<3	78	0.96
K897180	Soil	14	3	<2	2	87	<3	303	<0.3	75	19	906	3.49	9	2	47	5.6	<3	<3	69	1.01
K897181	Soil	4	4	<2	1	48	<3	229	<0.3	109	36	438	2.73	10	<2	26	16.0	<3	3	54	0.39



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		Method Analyte Unit MDL	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
K897152	Soil	0.084	10	39	0.72	148	0.047	<20	1.37	0.02	0.06	<2	0.05	<1	<5	<5	<5	
K897153	Soil	0.095	10	39	0.72	150	0.037	<20	1.38	0.02	0.05	<2	0.05	<1	<5	<5	<5	
K897154	Soil	0.107	11	41	0.72	161	0.036	<20	1.43	0.02	0.06	<2	0.06	<1	<5	<5	<5	
K897155	Soil	0.110	10	33	0.59	184	0.030	<20	1.21	0.02	0.04	<2	0.12	<1	<5	<5	<5	
K897156	Soil	0.113	11	39	0.67	174	0.029	<20	1.41	0.02	0.04	<2	0.07	<1	<5	<5	<5	
K897157	Soil	0.098	11	34	0.69	135	0.046	<20	1.29	0.03	0.05	<2	0.11	<1	<5	<5	<5	
K897158	Soil	0.083	9	36	0.71	131	0.049	<20	1.22	0.03	0.08	<2	0.11	<1	<5	<5	<5	
K897159	Soil	0.076	11	40	0.75	153	0.055	<20	1.46	0.02	0.06	<2	0.07	<1	<5	<5	5	
K897160	Soil	0.082	10	37	0.71	145	0.053	<20	1.33	0.02	0.06	<2	0.08	<1	<5	<5	<5	
K897161	Soil	0.087	10	38	0.79	111	0.063	<20	1.22	0.03	0.10	<2	<0.05	<1	<5	<5	6	
K897162	Soil	0.087	9	39	0.82	167	0.064	<20	1.20	0.02	0.11	<2	<0.05	<1	<5	<5	6	
K897163	Soil	0.090	10	39	0.70	174	0.055	<20	1.26	0.02	0.08	<2	0.10	1	<5	<5	5	
K897164	Soil	0.097	11	40	0.73	201	0.052	<20	1.44	0.03	0.06	<2	0.07	<1	<5	<5	6	
K897165	Soil	0.098	10	42	0.79	191	0.051	<20	1.50	0.02	0.07	<2	0.07	<1	<5	<5	6	
K897166	Soil	0.111	10	35	0.76	248	0.031	<20	1.28	0.03	0.07	<2	0.22	<1	<5	<5	5	
K897167	Soil	0.097	9	42	0.78	196	0.043	<20	1.49	0.03	0.07	<2	0.10	<1	<5	<5	6	
K897168	Soil	0.093	9	34	0.73	195	0.040	<20	1.26	0.03	0.07	<2	0.15	<1	<5	<5	<5	
K897169	Soil	0.127	11	44	0.86	189	0.042	<20	1.73	0.03	0.07	<2	0.07	<1	<5	<5	5	
K897170	Soil	0.096	10	37	0.76	213	0.045	<20	1.45	0.02	0.06	<2	0.07	<1	<5	<5	<5	
K897171	Soil	0.098	10	37	0.71	135	0.049	<20	1.35	0.03	0.08	<2	<0.05	<1	<5	<5	6	
K897172	Soil	0.064	10	39	0.72	169	0.043	<20	1.46	0.02	0.05	<2	0.06	<1	<5	<5	<5	
K897173	Soil	0.084	11	41	0.77	209	0.043	<20	1.50	0.02	0.06	<2	0.05	<1	<5	<5	5	
K897174	Soil	0.119	9	38	0.75	143	0.041	<20	1.46	0.02	0.07	<2	0.06	<1	<5	<5	<5	
K897175	Soil	0.149	11	36	0.72	147	0.033	<20	1.49	0.02	0.07	<2	0.09	<1	<5	<5	<5	
K897176	Soil	0.098	8	43	0.89	135	0.053	<20	1.58	0.03	0.11	<2	0.07	<1	<5	<5	<5	
K897177	Soil	0.140	9	45	0.92	165	0.044	<20	1.71	0.03	0.09	<2	0.08	<1	<5	<5	<5	
K897178	Soil	0.094	10	56	1.28	158	0.093	<20	2.09	0.04	0.16	<2	<0.05	<1	<5	5	7	
K897179	Soil	0.093	10	58	1.21	168	0.076	<20	2.07	0.03	0.12	<2	<0.05	<1	<5	5	6	
K897180	Soil	0.092	10	54	1.06	180	0.061	<20	1.92	0.03	0.10	<2	0.05	<1	<5	5	6	
K897181	Soil	0.102	10	33	0.57	165	0.036	<20	1.97	0.02	0.04	<2	0.10	<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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897182	Soil	5	<3	<2	1	36	<3	119	<0.3	39	15	499	3.49	14	2	25	0.5	<3	<3	75	0.52
K896351	Soil	8	<3	2	3	55	<3	264	<0.3	50	15	528	3.42	14	<2	30	1.7	<3	<3	60	0.52
K896352	Soil	11	<3	4	2	51	<3	169	<0.3	44	18	574	3.18	11	<2	41	0.6	<3	<3	64	0.84
K896353	Soil	6	3	3	2	39	<3	94	<0.3	34	12	456	3.00	11	<2	26	<0.5	<3	<3	59	0.41
K896354	Soil	5	<3	4	<1	60	<3	60	<0.3	38	13	401	3.63	13	<2	48	<0.5	<3	<3	72	0.71
K896355	Soil	8	<3	4	2	44	<3	61	<0.3	34	12	475	3.36	15	<2	30	<0.5	<3	<3	63	0.49
K896356	Soil	7	<3	6	1	48	<3	92	0.3	42	15	775	3.15	13	2	48	0.7	<3	<3	62	1.12
K896357	Soil	11	<3	4	2	50	6	77	<0.3	41	16	653	3.83	16	<2	37	<0.5	<3	<3	69	0.71
K896358	Soil	5	<3	5	2	41	8	81	<0.3	37	18	522	3.69	14	<2	48	<0.5	<3	<3	68	0.95
K896359	Soil	6	<3	3	2	39	6	83	<0.3	37	19	599	3.86	15	<2	39	<0.5	<3	<3	73	0.73
K896360	Soil	7	<3	<2	2	46	8	72	<0.3	39	16	641	3.62	15	<2	43	<0.5	<3	<3	71	0.86
K896361	Soil	5	<3	3	1	39	7	82	<0.3	35	14	517	3.50	13	<2	35	<0.5	<3	<3	66	0.65
K896362	Soil	8	<3	4	2	50	5	77	<0.3	44	18	707	3.88	16	<2	35	<0.5	<3	<3	69	0.65
K896363	Soil	7	<3	6	1	55	6	78	<0.3	41	17	627	3.57	15	<2	41	<0.5	<3	<3	65	1.11
K896364	Soil	12	<3	4	2	51	3	84	<0.3	41	16	625	3.51	13	<2	30	<0.5	<3	<3	62	0.49
K896365	Soil	6	<3	5	2	55	7	77	0.4	41	18	511	3.53	13	<2	47	<0.5	<3	<3	65	0.87
K896366	Soil	8	<3	5	2	30	8	85	<0.3	34	16	551	3.53	13	<2	46	<0.5	<3	<3	66	0.82
K896367	Soil	6	<3	4	2	54	5	90	<0.3	41	15	518	3.94	17	<2	30	<0.5	<3	<3	70	0.51
K896368	Soil	6	<3	6	2	60	9	90	<0.3	47	19	607	3.95	17	<2	41	<0.5	<3	<3	68	0.77
K896369	Soil	6	<3	4	2	40	7	77	<0.3	46	19	763	3.85	16	<2	32	<0.5	<3	<3	69	0.54
K896370	Soil	5	<3	3	2	40	6	78	<0.3	38	18	717	3.82	15	<2	32	<0.5	<3	<3	68	0.56
K896371	Soil	10	12	39	2	64	5	113	<0.3	47	18	611	3.99	19	<2	49	<0.5	<3	<3	67	0.68
K896372	Soil	12	<3	8	3	86	10	132	<0.3	54	21	1163	4.32	25	<2	32	0.5	<3	<3	61	0.65
K896373	Soil	6	<3	5	2	46	9	75	<0.3	35	17	621	3.55	13	<2	41	<0.5	<3	<3	67	0.88
K896374	Soil	4	<3	2	2	32	<3	85	<0.3	29	15	482	3.37	14	<2	27	<0.5	<3	<3	58	0.50
K896375	Soil	8	<3	5	<1	59	6	59	<0.3	36	12	912	2.54	10	<2	57	1.3	<3	<3	46	1.45
K896376	Soil	7	<3	6	4	55	8	93	0.3	33	20	1569	3.76	18	<2	38	<0.5	<3	<3	55	0.86
K896377	Soil	4	<3	4	4	55	4	296	<0.3	65	22	1030	3.58	9	<2	33	0.7	<3	<3	65	0.59
K896378	Soil	5	<3	6	1	31	7	81	<0.3	24	13	674	2.30	8	<2	58	0.8	<3	<3	47	1.40
K897001	Soil	20	<3	5	1	50	6	82	<0.3	42	20	546	3.66	11	<2	42	<0.5	<3	<3	71	0.73



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	Method	Analyte	Unit	MDL	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
K897182	Soil																			
K896351	Soil																			
K896352	Soil																			
K896353	Soil																			
K896354	Soil																			
K896355	Soil																			
K896356	Soil																			
K896357	Soil																			
K896358	Soil																			
K896359	Soil																			
K896360	Soil																			
K896361	Soil																			
K896362	Soil																			
K896363	Soil																			
K896364	Soil																			
K896365	Soil																			
K896366	Soil																			
K896367	Soil																			
K896368	Soil																			
K896369	Soil																			
K896370	Soil																			
K896371	Soil																			
K896372	Soil																			
K896373	Soil																			
K896374	Soil																			
K896375	Soil																			
K896376	Soil																			
K896377	Soil																			
K896378	Soil																			
K897001	Soil																			



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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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897002	Soil	6	<3	3	1	63	6	97	<0.3	46	16	676	3.54	11	<2	37	<0.5	<3	<3	73	0.83
K897003	Soil	5	<3	<2	<1	34	5	47	<0.3	30	11	396	2.57	8	<2	36	<0.5	<3	<3	52	0.95
K897004	Soil	3	5	2	5	36	4	246	<0.3	63	16	567	3.40	8	<2	39	<0.5	<3	<3	86	0.60
K897005	Soil	5	<3	2	3	48	8	141	<0.3	39	16	567	3.11	9	<2	33	<0.5	<3	<3	60	0.74
K897006	Soil	5	<3	2	4	52	7	188	<0.3	47	16	680	3.24	9	<2	40	1.2	<3	<3	65	0.74
K897007	Soil	6	3	4	2	69	8	116	<0.3	45	17	700	3.14	11	<2	35	<0.5	<3	<3	63	0.69
K897008	Soil	9	<3	3	3	61	<3	207	<0.3	43	29	626	3.29	8	<2	40	0.9	<3	<3	57	0.57
K897009	Soil	6	<3	6	5	129	8	539	<0.3	108	48	738	3.98	13	<2	43	<0.5	<3	<3	67	0.67
K897010	Soil	4	<3	5	4	102	7	331	<0.3	77	40	826	3.79	13	<2	44	<0.5	<3	<3	67	0.77
K897011	Soil	6	<3	4	2	58	7	109	<0.3	44	15	426	3.20	14	<2	44	<0.5	<3	<3	58	0.87
K897012	Soil	4	<3	4	2	88	4	91	<0.3	43	16	860	2.88	10	<2	55	0.6	<3	<3	53	1.25
K897013	Soil	11	<3	<2	2	41	6	89	<0.3	29	15	556	2.80	13	<2	41	<0.5	<3	<3	58	0.84
K897014	Soil	24	<3	4	<1	38	3	73	<0.3	31	12	428	2.68	9	<2	32	<0.5	<3	<3	52	0.60
K897015	Soil	8	<3	3	2	32	6	111	<0.3	30	14	589	3.14	13	<2	37	<0.5	<3	<3	57	0.67
K897016	Soil	2	<3	<2	1	47	6	78	<0.3	39	13	361	3.45	16	<2	28	<0.5	<3	<3	65	0.34
K897017	Soil	8	<3	4	2	25	6	55	<0.3	30	16	523	3.09	12	<2	32	<0.5	<3	<3	68	0.48
K897018	Soil	3	<3	2	1	29	6	69	<0.3	30	13	456	3.19	14	<2	33	<0.5	<3	<3	66	0.50
K897019	Soil	6	<3	3	<1	48	5	67	<0.3	34	11	296	2.78	11	<2	52	<0.5	<3	<3	52	0.91
K897020	Soil	7	<3	3	<1	52	4	71	<0.3	35	12	366	2.92	12	<2	51	<0.5	<3	<3	55	0.86
K897021	Soil	7	<3	2	<1	44	5	75	<0.3	35	13	364	2.70	12	<2	245	<0.5	<3	<3	51	1.18
K897022	Soil	21	4	4	2	48	6	100	<0.3	37	15	1154	4.63	16	<2	293	<0.5	<3	<3	49	1.17
K897023	Soil	5	<3	2	<1	46	4	122	<0.3	39	18	266	3.92	17	<2	288	0.8	<3	<3	56	1.07
K897024	Soil	6	<3	3	2	46	5	127	<0.3	37	15	395	3.13	13	<2	68	1.3	<3	<3	52	1.01
K897025	Soil	4	<3	<2	2	53	7	124	<0.3	53	20	1226	2.62	11	<2	73	1.1	<3	<3	55	0.89
K897026	Soil	3	<3	4	1	61	8	121	<0.3	48	14	765	3.14	12	<2	110	1.2	<3	<3	57	1.12
K897027	Soil	4	<3	3	2	56	9	145	<0.3	51	19	1062	3.55	14	<2	40	<0.5	<3	<3	64	0.71
K897028	Soil	8	<3	4	2	53	6	98	<0.3	39	17	1118	3.51	16	<2	41	0.8	<3	<3	62	0.82
K897029	Soil	4	<3	4	<1	49	6	107	<0.3	33	10	382	1.99	6	<2	59	0.9	<3	<3	38	1.51
K897030	Soil	4	<3	5	1	56	4	142	<0.3	38	11	413	2.12	8	<2	62	1.1	<3	<3	39	1.60
K897031	Soil	9	<3	3	3	67	8	126	<0.3	49	16	602	3.83	16	<2	40	1.0	<3	<3	63	0.71



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Method	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
K897002	Soil	0.062	14	46	0.74	207	0.040	<20	1.98	0.02	0.04	<2	<0.05	<1	<5	<5
K897003	Soil	0.068	8	33	0.57	146	0.036	<20	1.24	0.02	0.04	<2	0.06	<1	<5	<5
K897004	Soil	0.045	6	44	0.76	115	0.051	<20	1.83	0.04	0.05	<2	0.05	<1	<5	<5
K897005	Soil	0.061	9	37	0.65	125	0.040	<20	1.55	0.02	0.04	<2	<0.05	<1	<5	<5
K897006	Soil	0.091	9	38	0.69	137	0.048	<20	1.39	0.02	0.06	<2	0.07	<1	<5	<5
K897007	Soil	0.097	11	43	0.69	173	0.034	<20	1.61	0.02	0.04	<2	0.06	<1	<5	<5
K897008	Soil	0.098	9	35	0.60	115	0.037	<20	1.57	0.01	0.05	<2	0.07	<1	<5	<5
K897009	Soil	0.111	18	41	0.76	172	0.038	<20	1.95	0.02	0.05	<2	0.05	<1	<5	6
K897010	Soil	0.111	13	40	0.70	171	0.037	<20	1.70	0.02	0.05	<2	0.06	<1	<5	<5
K897011	Soil	0.082	8	39	0.68	114	0.057	<20	1.19	0.02	0.06	<2	<0.05	<1	<5	<5
K897012	Soil	0.111	9	38	0.66	197	0.031	<20	1.37	0.02	0.05	<2	0.08	<1	<5	<5
K897013	Soil	0.093	6	35	0.65	158	0.030	<20	1.30	0.01	0.04	<2	0.08	<1	<5	<5
K897014	Soil	0.077	8	32	0.57	102	0.043	<20	1.04	0.02	0.05	<2	<0.05	<1	<5	<5
K897015	Soil	0.085	9	38	0.70	128	0.033	<20	1.40	0.02	0.05	<2	<0.05	<1	<5	<5
K897016	Soil	0.043	9	43	0.73	103	0.051	<20	1.65	0.02	0.07	<2	<0.05	<1	<5	<5
K897017	Soil	0.061	6	42	0.72	142	0.051	<20	1.52	0.01	0.05	<2	<0.05	<1	<5	<5
K897018	Soil	0.042	8	40	0.70	148	0.049	<20	1.64	0.02	0.05	<2	<0.05	<1	<5	<5
K897019	Soil	0.080	10	32	0.63	108	0.052	<20	1.15	0.03	0.07	<2	<0.05	<1	<5	<5
K897020	Soil	0.084	10	33	0.65	111	0.057	<20	1.19	0.03	0.08	<2	<0.05	<1	<5	<5
K897021	Soil	0.082	9	36	0.66	89	0.052	<20	1.18	0.02	0.08	<2	0.09	<1	<5	<5
K897022	Soil	0.096	8	37	0.69	55	0.051	<20	1.24	0.02	0.10	<2	0.08	<1	<5	<5
K897023	Soil	0.091	9	37	0.69	86	0.043	<20	1.32	0.02	0.08	<2	0.14	<1	<5	<5
K897024	Soil	0.081	9	39	0.70	162	0.034	<20	1.27	0.02	0.05	<2	0.11	<1	<5	<5
K897025	Soil	0.091	10	41	0.75	178	0.042	<20	1.42	0.02	0.06	<2	0.08	<1	<5	5
K897026	Soil	0.108	10	41	0.71	205	0.031	<20	1.48	0.02	0.05	<2	0.08	<1	<5	<5
K897027	Soil	0.094	9	43	0.75	212	0.041	<20	1.51	0.02	0.05	<2	<0.05	<1	<5	<5
K897028	Soil	0.094	10	41	0.73	167	0.037	<20	1.51	0.02	0.05	<2	0.05	<1	<5	<5
K897029	Soil	0.081	6	24	0.49	150	0.033	<20	0.98	0.02	0.04	<2	0.10	<1	<5	<5
K897030	Soil	0.087	6	25	0.51	151	0.030	<20	1.02	0.02	0.04	<2	0.11	<1	<5	<5
K897031	Soil	0.091	9	38	0.73	115	0.058	<20	1.18	0.03	0.07	<2	<0.05	<1	<5	6



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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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897032	Soil	4	<3	<2	3	45	8	187	<0.3	45	19	786	3.82	14	<2	37	0.7	<3	<3	69	0.68
K897033	Soil	6	<3	3	3	41	5	127	<0.3	35	15	517	3.25	10	<2	41	0.7	<3	<3	61	0.92
K897034	Soil	4	<3	4	2	38	6	126	<0.3	41	16	705	3.29	12	<2	43	1.5	<3	<3	58	0.97
K897035	Soil	4	<3	4	3	34	6	165	<0.3	35	15	814	3.03	11	<2	49	1.6	<3	<3	53	1.19
K897036	Soil	3	<3	2	2	33	5	96	<0.3	31	14	440	3.19	13	<2	35	<0.5	<3	<3	61	0.73
K897037	Soil	6	7	17	1	40	7	140	<0.3	34	14	502	3.09	13	<2	36	<0.5	<3	<3	56	0.82
K897038	Soil	7	<3	3	2	62	6	106	<0.3	46	16	673	3.64	17	<2	41	<0.5	<3	<3	61	0.91
K897039	Soil	<2	<3	5	1	45	6	91	<0.3	30	13	595	2.60	8	<2	39	<0.5	<3	<3	57	0.84
K897040	Soil	5	<3	3	2	53	7	173	<0.3	40	17	604	2.84	10	<2	35	0.6	<3	<3	55	0.78
K897041	Soil	9	<3	3	<1	40	5	67	<0.3	33	14	557	3.00	12	<2	47	<0.5	<3	<3	55	1.17
K897042	Soil	4	<3	3	<1	39	8	53	<0.3	32	14	418	3.28	11	<2	30	<0.5	<3	3	62	0.57
K897043	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.
K897044	Soil	9	5	5	<1	64	9	66	<0.3	46	18	668	3.68	13	<2	47	<0.5	<3	<3	66	1.07
K897045	Soil	3	<3	4	1	33	8	63	<0.3	29	12	412	3.05	12	<2	27	<0.5	<3	<3	59	0.46
K897046	Soil	7	<3	3	1	59	6	84	<0.3	34	15	544	3.30	12	<2	28	<0.5	<3	<3	65	0.52
K897051	Soil	193	<3	<2	1	49	3	110	<0.3	50	14	584	3.18	12	<2	62	<0.5	<3	<3	60	2.62
K897052	Soil	21	<3	2	2	57	6	169	<0.3	57	17	604	3.64	12	<2	38	<0.5	<3	<3	64	0.73
K897053	Soil	3	<3	5	2	33	6	69	<0.3	33	13	472	3.09	12	<2	39	<0.5	<3	<3	60	0.87
K897054	Soil	7	<3	3	1	61	4	74	<0.3	44	17	585	3.44	13	<2	63	<0.5	<3	<3	64	2.39
K897055	Soil	6	<3	2	2	63	4	106	<0.3	48	17	684	3.59	16	<2	41	0.5	<3	<3	65	1.08
K897056	Soil	7	<3	4	2	57	7	106	<0.3	43	17	554	3.23	12	<2	48	0.6	<3	<3	63	1.04
K897057	Soil	5	<3	3	2	58	5	105	<0.3	45	17	457	3.45	14	<2	63	<0.5	<3	<3	72	0.87
K897058	Soil	5	4	6	2	132	6	97	0.3	44	21	651	3.28	10	<2	37	0.6	<3	<3	68	0.77
K897059	Soil	6	<3	3	2	51	7	60	<0.3	32	12	409	3.10	12	<2	49	<0.5	<3	<3	64	0.95
K897060	Soil	5	4	6	2	83	5	84	<0.3	49	21	622	3.61	13	<2	48	<0.5	<3	<3	68	0.89
K897061	Soil	4	<3	3	1	60	5	62	<0.3	30	13	382	2.69	9	<2	50	<0.5	<3	<3	57	0.67
K897062	Soil	7	<3	6	3	68	6	83	<0.3	38	19	567	3.72	18	2	40	0.5	<3	<3	69	0.57
K897063	Soil	11	5	9	2	106	7	81	0.4	43	20	839	3.51	16	<2	43	0.6	<3	<3	65	0.68
K897064	Soil	5	4	4	2	95	4	77	<0.3	39	17	598	3.41	15	2	48	0.6	<3	<3	65	0.87
K897065	Soil	5	4	4	2	52	8	92	<0.3	32	16	605	3.24	15	<2	46	<0.5	<3	<3	59	0.85



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	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
K897032	Soil	0.067	8	41	0.78	133	0.050	<20	1.50	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K897033	Soil	0.078	8	38	0.74	141	0.045	<20	1.35	0.01	0.06	<2	0.06	<1	<5	<5	<5			
K897034	Soil	0.077	9	38	0.76	144	0.050	<20	1.35	0.02	0.07	<2	0.06	<1	<5	<5	<5			
K897035	Soil	0.098	8	35	0.68	158	0.034	<20	1.29	0.02	0.06	<2	0.10	<1	<5	<5	<5			
K897036	Soil	0.070	8	40	0.71	152	0.040	<20	1.43	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K897037	Soil	0.095	9	39	0.71	139	0.038	<20	1.36	0.02	0.06	<2	<0.05	<1	<5	<5	<5			
K897038	Soil	0.098	9	35	0.66	126	0.048	<20	1.09	0.03	0.05	<2	0.06	<1	<5	<5	6			
K897039	Soil	0.076	9	33	0.57	175	0.041	<20	1.41	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K897040	Soil	0.073	10	35	0.61	155	0.039	<20	1.50	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K897041	Soil	0.071	10	37	0.65	224	0.029	<20	1.52	0.02	0.03	<2	<0.05	<1	<5	<5	<5			
K897042	Soil	0.046	9	39	0.69	127	0.037	<20	1.63	0.02	0.04	<2	<0.05	<1	<5	<5	<5			
K897043	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.			
K897044	Soil	0.104	14	44	0.78	297	0.030	<20	1.93	0.02	0.03	<2	<0.05	<1	<5	<5	<5			
K897045	Soil	0.051	8	39	0.74	139	0.044	<20	1.55	0.01	0.04	<2	<0.05	<1	<5	<5	<5			
K897046	Soil	0.088	12	42	0.74	180	0.034	<20	1.87	0.01	0.04	<2	<0.05	<1	<5	<5	<5			
K897051	Soil	0.072	10	38	0.87	121	0.065	<20	1.40	0.03	0.11	<2	<0.05	<1	<5	<5	6			
K897052	Soil	0.078	11	39	0.81	142	0.061	<20	1.63	0.03	0.16	<2	<0.05	<1	<5	<5	6			
K897053	Soil	0.058	8	40	0.75	181	0.035	<20	1.59	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K897054	Soil	0.053	9	42	0.94	156	0.070	<20	1.50	0.04	0.07	<2	<0.05	<1	<5	<5	6			
K897055	Soil	0.075	10	44	0.83	193	0.048	<20	1.48	0.02	0.08	<2	<0.05	<1	<5	<5	6			
K897056	Soil	0.091	13	41	0.67	294	0.029	<20	1.63	0.02	0.04	<2	0.05	<1	<5	<5	<5			
K897057	Soil	0.058	11	46	0.77	345	0.042	<20	1.69	0.02	0.05	<2	<0.05	<1	<5	<5	6			
K897058	Soil	0.071	12	60	0.95	227	0.048	<20	1.81	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K897059	Soil	0.129	11	41	0.65	407	0.023	<20	1.66	0.01	0.04	<2	0.09	<1	<5	<5	<5			
K897060	Soil	0.091	14	46	0.72	366	0.030	<20	1.78	0.02	0.05	<2	<0.05	<1	<5	<5	5			
K897061	Soil	0.081	8	37	0.66	226	0.040	<20	1.30	0.02	0.05	<2	<0.05	<1	<5	<5	<5			
K897062	Soil	0.076	12	50	0.79	249	0.027	<20	1.72	0.01	0.05	<2	<0.05	<1	<5	<5	5			
K897063	Soil	0.109	11	60	0.78	282	0.025	<20	1.65	0.01	0.05	<2	0.06	<1	<5	<5	<5			
K897064	Soil	0.082	12	45	0.80	212	0.039	<20	1.48	0.02	0.06	<2	0.05	<1	<5	<5	<5			
K897065	Soil	0.101	10	42	0.76	182	0.031	<20	1.45	0.02	0.06	<2	0.06	<1	<5	<5	<5			



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CERTIFICATE OF ANALYSIS

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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	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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897066	Soil	3	<3	<2	2	37	3	68	<0.3	32	14	476	3.04	12	2	28	<0.5	<3	<3	56	0.40
K897067	Soil	4	<3	2	2	36	<3	85	<0.3	28	16	617	3.10	13	<2	44	<0.5	<3	<3	57	0.81
K897068	Soil	10	<3	2	3	38	7	86	<0.3	29	18	765	3.57	18	<2	39	<0.5	<3	<3	62	0.66
K897069	Soil	6	10	<2	2	72	<3	86	0.3	43	19	866	3.38	12	<2	48	0.6	<3	<3	57	0.87
K897070	Soil	4	<3	3	2	63	3	94	<0.3	39	17	538	3.63	17	2	42	<0.5	<3	<3	59	0.71
K897071	Soil	7	<3	3	2	75	7	76	<0.3	44	16	765	3.17	13	<2	175	0.7	<3	<3	55	1.22
K897072	Soil	8	3	13	2	75	6	82	<0.3	37	14	240	2.82	13	<2	226	0.7	<3	<3	59	0.99
K897073	Soil	5	13	5	2	63	6	93	<0.3	32	16	584	3.44	15	<2	68	<0.5	<3	<3	61	0.86
K897074	Soil	12	<3	<2	2	53	5	83	<0.3	27	13	447	2.87	11	<2	46	<0.5	<3	<3	55	0.68
K897075	Soil	6	<3	5	2	55	4	88	<0.3	32	17	750	3.26	13	2	39	<0.5	<3	<3	61	0.71
K897076	Soil	6	4	<2	1	45	3	89	<0.3	29	14	617	2.83	11	<2	53	<0.5	<3	<3	54	1.17
K897077	Soil	4	<3	4	1	41	5	70	<0.3	44	19	600	3.50	10	<2	33	<0.5	<3	<3	90	0.72
K897078	Soil	7	4	9	1	41	5	70	<0.3	32	15	624	2.94	12	<2	46	<0.5	<3	<3	52	1.04
K897079	Soil	5	<3	4	2	45	7	81	<0.3	35	16	537	3.19	13	<2	45	<0.5	<3	<3	58	0.99
K897080	Soil	6	<3	4	2	62	3	87	<0.3	44	17	593	3.39	14	3	37	<0.5	<3	<3	61	0.82
K897081	Soil	7	<3	<2	1	41	<3	71	<0.3	28	13	494	2.85	10	<2	36	<0.5	<3	<3	58	0.51
K897082	Soil	6	<3	4	2	82	6	82	<0.3	41	20	558	3.56	12	2	50	<0.5	<3	<3	68	0.78
K897083	Soil	17	<3	4	2	45	6	77	<0.3	34	16	647	3.18	13	<2	49	<0.5	<3	<3	62	0.89
K897084	Soil	9	3	6	2	44	6	65	<0.3	29	13	479	3.10	11	<2	30	<0.5	<3	<3	68	0.52
K896254	Soil	6	<3	4	2	34	7	97	<0.3	29	14	412	3.09	14	<2	23	<0.5	<3	<3	60	0.41



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Method Analyte Unit MDL		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
K897066	Soil	0.063	8	41	0.78	100	0.064	<20	1.27	0.02	0.05	<2	<0.05	<1	<5	<5	<5
K897067	Soil	0.111	9	38	0.65	199	0.025	<20	1.41	0.01	0.05	<2	0.06	<1	<5	<5	<5
K897068	Soil	0.092	8	42	0.71	226	0.024	<20	1.51	0.01	0.05	<2	<0.05	<1	<5	<5	<5
K897069	Soil	0.110	11	39	0.68	251	0.030	<20	1.50	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K897070	Soil	0.088	11	42	0.75	221	0.034	<20	1.44	0.02	0.05	<2	<0.05	<1	<5	<5	5
K897071	Soil	0.101	11	38	0.63	295	0.025	<20	1.43	0.02	0.04	<2	0.11	<1	<5	<5	<5
K897072	Soil	0.109	11	42	0.69	294	0.028	<20	1.49	0.02	0.05	<2	0.11	<1	<5	<5	<5
K897073	Soil	0.097	9	42	0.77	265	0.030	<20	1.44	0.02	0.05	<2	0.07	<1	<5	<5	<5
K897074	Soil	0.085	9	38	0.71	180	0.038	<20	1.27	0.01	0.05	<2	<0.05	<1	<5	<5	<5
K897075	Soil	0.082	10	43	0.75	193	0.036	<20	1.40	0.02	0.06	<2	<0.05	<1	<5	<5	<5
K897076	Soil	0.087	8	36	0.71	128	0.039	<20	1.24	0.02	0.08	<2	0.07	<1	<5	<5	<5
K897077	Soil	0.042	7	94	1.40	211	0.108	<20	1.69	0.02	0.13	<2	<0.05	<1	<5	<5	<5
K897078	Soil	0.074	9	36	0.64	158	0.040	<20	1.20	0.02	0.06	<2	0.06	<1	<5	<5	<5
K897079	Soil	0.074	10	42	0.77	140	0.045	<20	1.35	0.02	0.07	<2	<0.05	<1	<5	<5	<5
K897080	Soil	0.075	11	45	0.87	152	0.059	<20	1.38	0.02	0.08	<2	<0.05	<1	<5	<5	6
K897081	Soil	0.051	8	34	0.62	147	0.043	<20	1.27	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K897082	Soil	0.085	9	50	0.93	191	0.053	<20	1.61	0.02	0.07	<2	<0.05	<1	<5	<5	<5
K897083	Soil	0.075	9	40	0.73	210	0.036	<20	1.52	0.02	0.05	<2	0.06	<1	<5	<5	<5
K897084	Soil	0.089	10	38	0.66	215	0.036	<20	1.55	0.02	0.04	<2	<0.05	<1	<5	<5	<5
K896254	Soil	0.053	6	36	0.64	112	0.049	<20	1.24	0.02	0.04	<2	<0.05	<1	<5	<5	<5



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QUALITY CONTROL REPORT

WHI17000580.1

	Method Analyte Unit MDL	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	%
		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																					
	Soil	23	<3	6	2	41	6	97	<0.3	33	12	446	2.87	11	2	33	<0.5	<3	<3	57	0.60
	QC	11	5	<2																	
	Soil	6	11	5	2	90	6	230	0.3	57	16	431	2.60	9	<2	47	5.0	<3	<3	63	1.19
	QC				2	87	8	222	0.4	55	16	420	2.51	8	<2	46	5.0	<3	<3	63	1.11
	Soil	9	8	11	2	51	6	110	<0.3	43	17	510	3.42	13	2	33	<0.5	<3	<3	64	0.64
	QC	7	<3	10																	
	Soil	8	<3	9	2	56	8	82	<0.3	41	16	896	3.21	13	<2	47	0.5	<3	<3	64	1.01
	QC				2	56	6	82	<0.3	41	16	880	3.21	14	<2	46	<0.5	<3	<3	64	1.02
	Soil	6	<3	4	3	87	4	360	<0.3	67	20	715	4.00	21	<2	34	1.8	<3	<3	52	0.85
	QC	6	4	5																	
	Soil	10	<3	5	1	45	7	81	<0.3	36	15	359	3.44	14	<2	40	<0.5	<3	<3	66	0.81
	QC				1	44	7	79	<0.3	35	14	346	3.30	14	<2	38	<0.5	<3	<3	63	0.78
	Soil	7	<3	<2	2	60	6	99	<0.3	39	16	448	3.87	19	<2	20	<0.5	<3	<3	73	0.30
	QC	6	<3	2																	
	Soil	3	3	7	2	53	7	222	<0.3	74	20	514	3.41	12	<2	45	0.7	<3	<3	59	0.90
	QC				2	53	8	225	0.3	75	20	510	3.43	12	<2	45	0.8	<3	<3	59	0.88
	Soil	7	<3	4	2	58	7	99	<0.3	43	16	481	3.60	15	<2	36	0.6	<3	<3	70	0.67
	QC	7	<3	5																	
	Soil	6	5	6	2	46	5	74	<0.3	31	15	482	3.09	11	<2	40	0.7	<3	<3	61	0.80
	QC				1	45	4	73	<0.3	31	14	480	3.10	12	<2	40	0.6	<3	<3	60	0.81
	Soil	17	<3	2	2	57	<3	128	<0.3	53	24	967	5.49	19	2	255	0.8	<3	<3	55	1.18
	QC	10	<3	8																	
	Soil	15	<3	6	1	52	<3	173	<0.3	41	15	886	3.29	17	<2	49	1.2	<3	<3	66	1.18
	QC				2	52	3	174	<0.3	42	15	881	3.29	16	<2	48	1.2	<3	4	66	1.18
	Soil	8	<3	5	2	30	8	85	<0.3	34	16	551	3.53	13	<2	46	<0.5	<3	<3	66	0.82
	QC	5	<3	6																	
	Soil	5	<3	<2	<1	34	5	47	<0.3	30	11	396	2.57	8	<2	36	<0.5	<3	<3	52	0.95
	QC				<1	36	6	49	<0.3	31	12	411	2.69	9	<2	37	<0.5	<3	<3	55	0.98



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Method Analyte Unit MDL		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
Pulp Duplicates																	
K896216	Soil	0.085	9	37	0.66	113	0.048	<20	1.22	0.02	0.06	<2	<0.05	<1	<5	<5	<5
REP K896216	QC																
K896225	Soil	0.080	12	40	0.78	161	0.058	<20	1.33	0.02	0.06	<2	0.12	<1	<5	<5	<5
REP K896225	QC	0.080	12	39	0.76	158	0.055	<20	1.30	0.02	0.06	<2	0.12	<1	<5	<5	<5
K896252	Soil	0.097	11	44	0.82	144	0.067	<20	1.46	0.02	0.07	<2	<0.05	<1	<5	<5	6
REP K896252	QC																
K896263	Soil	0.092	11	42	0.72	230	0.029	<20	1.64	0.02	0.05	<2	0.06	<1	<5	<5	<5
REP K896263	QC	0.091	11	41	0.71	226	0.029	<20	1.60	0.02	0.05	<2	0.06	<1	<5	<5	<5
K896288	Soil	0.056	7	37	0.64	137	0.034	<20	1.43	0.01	0.04	<2	0.05	<1	<5	<5	<5
REP K896288	QC																
K896309	Soil	0.059	14	43	0.76	170	0.036	<20	1.67	0.02	0.05	<2	<0.05	<1	<5	<5	6
REP K896309	QC	0.056	13	41	0.73	163	0.034	<20	1.60	0.02	0.05	<2	<0.05	<1	<5	<5	6
K896333	Soil	0.020	7	35	0.66	48	0.077	<20	1.56	0.02	0.06	<2	<0.05	<1	<5	<5	5
REP K896333	QC																
K897105	Soil	0.076	9	39	0.78	125	0.037	<20	1.86	0.02	0.06	<2	0.07	<1	<5	<5	<5
REP K897105	QC	0.077	9	41	0.78	126	0.038	<20	1.83	0.02	0.06	<2	0.07	<1	<5	<5	<5
K897128	Soil	0.073	11	47	0.81	209	0.034	<20	1.83	0.01	0.05	<2	<0.05	<1	<5	<5	5
REP K897128	QC																
K897141	Soil	0.101	11	43	0.77	190	0.039	<20	1.52	0.02	0.05	<2	0.05	<1	<5	<5	<5
REP K897141	QC	0.101	10	42	0.76	187	0.039	<20	1.48	0.02	0.05	<2	<0.05	<1	<5	<5	<5
K897163	Soil	0.090	10	39	0.70	174	0.055	<20	1.26	0.02	0.08	<2	0.10	1	<5	<5	5
REP K897163	QC																
K897177	Soil	0.140	9	45	0.92	165	0.044	<20	1.71	0.03	0.09	<2	0.08	<1	<5	<5	<5
REP K897177	QC	0.140	9	45	0.91	163	0.043	<20	1.71	0.03	0.09	<2	0.08	<1	<5	<5	<5
K896366	Soil	0.061	10	47	0.85	210	0.038	<20	1.82	0.02	0.04	<2	<0.05	<1	<5	<5	<5
REP K896366	QC																
K897003	Soil	0.068	8	33	0.57	146	0.036	<20	1.24	0.02	0.04	<2	0.06	<1	<5	<5	<5
REP K897003	QC	0.071	8	35	0.60	153	0.037	<20	1.29	0.02	0.04	<2	0.06	<1	<5	<5	<5



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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	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
K897023	Soil	5	<3	2	<1	46	4	122	<0.3	39	18	266	3.92	17	<2	288	0.8	<3	<3	56	1.07
REP K897023	QC	6	3	3																	
K897039	Soil	<2	<3	5	1	45	6	91	<0.3	30	13	595	2.60	8	<2	39	<0.5	<3	<3	57	0.84
REP K897039	QC				1	45	4	92	<0.3	30	13	601	2.66	8	<2	38	<0.5	<3	<3	58	0.85
K897063	Soil	11	5	9	2	106	7	81	0.4	43	20	839	3.51	16	<2	43	0.6	<3	<3	65	0.68
REP K897063	QC	8	<3	6																	
K897076	Soil	6	4	<2	1	45	3	89	<0.3	29	14	617	2.83	11	<2	53	<0.5	<3	<3	54	1.17
REP K897076	QC				1	46	5	90	<0.3	30	14	621	2.86	12	<2	54	0.5	<3	<3	55	1.17
K897084	Soil	9	3	6	2	44	6	65	<0.3	29	13	479	3.10	11	<2	30	<0.5	<3	<3	68	0.52
REP K897084	QC	5	6	3																	
Reference Materials																					
STD CDN-PGMS-19	Standard	229	103	459																	
STD CDN-PGMS-23	Standard	505	467	2044																	
STD CDN-PGMS-19	Standard	228	102	472																	
STD CDN-PGMS-23	Standard	549	477	2137																	
STD CDN-PGMS-19	Standard	211	108	481																	
STD CDN-PGMS-23	Standard	584	526	2196																	
STD CDN-PGMS-19	Standard	200	94	452																	
STD CDN-PGMS-23	Standard	484	464	2065																	
STD CDN-PGMS-19	Standard	262	108	517																	
STD CDN-PGMS-23	Standard	550	466	2100																	
STD CDN-PGMS-19	Standard	281	99	472																	
STD CDN-PGMS-19	Standard	193	111	494																	
STD CDN-PGMS-19	Standard	197	91	458																	
STD CDN-PGMS-23	Standard	516	448	2074																	
STD CDN-PGMS-19	Standard	184	87	425																	
STD CDN-PGMS-23	Standard	489	435	2018																	
STD CDN-PGMS-19	Standard	224	110	494																	
STD DS11	Standard				13	153	134	341	1.7	80	13	1035	3.07	44	8	63	2.3	8	10	50	1.04



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		AQ300 P %	AQ300 La ppm	AQ300 Cr ppm	AQ300 Mg %	AQ300 Ba ppm	AQ300 Ti %	AQ300 B ppm	AQ300 Al %	AQ300 Na %	AQ300 K %	AQ300 W ppm	AQ300 S %	AQ300 Hg ppm	AQ300 Tl ppm	AQ300 Ga ppm	AQ300 Sc ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
K897023	Soil	0.091	9	37	0.69	86	0.043	<20	1.32	0.02	0.08	<2	0.14	<1	<5	<5	<5
REP K897023	QC																
K897039	Soil	0.076	9	33	0.57	175	0.041	<20	1.41	0.02	0.04	<2	<0.05	<1	<5	<5	<5
REP K897039	QC	0.078	9	33	0.57	177	0.040	<20	1.39	0.02	0.03	<2	<0.05	<1	<5	<5	<5
K897063	Soil	0.109	11	60	0.78	282	0.025	<20	1.65	0.01	0.05	<2	0.06	<1	<5	<5	<5
REP K897063	QC																
K897076	Soil	0.087	8	36	0.71	128	0.039	<20	1.24	0.02	0.08	<2	0.07	<1	<5	<5	<5
REP K897076	QC	0.088	8	36	0.72	128	0.038	<20	1.25	0.02	0.08	<2	0.07	<1	<5	<5	<5
K897084	Soil	0.089	10	38	0.66	215	0.036	<20	1.55	0.02	0.04	<2	<0.05	<1	<5	<5	<5
REP K897084	QC																
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
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STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD DS11	Standard	0.072	18	61	0.87	431	0.089	<20	1.12	0.07	0.40	3	0.29	<1	<5	<5	<5



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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	%
		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 DS11	Standard				14	144	140	330	1.7	76	13	993	3.04	41	7	62	2.2	7	13	48	1.03
STD DS11	Standard				13	149	135	343	1.9	80	13	1009	3.11	41	9	62	2.5	7	11	50	1.04
STD DS11	Standard				14	149	141	338	1.7	80	13	1041	3.24	43	7	66	1.9	7	13	49	1.06
STD DS11	Standard				13	144	137	322	2.2	76	13	1009	3.17	43	7	64	2.2	6	12	47	1.01
STD DS11	Standard				12	138	133	318	2.4	75	13	976	2.98	43	6	59	1.9	5	10	46	0.97
STD DS11	Standard				15	150	127	341	1.8	79	11	1073	3.04	44	9	64	2.1	8	11	49	1.03
STD DS11	Standard				13	140	123	341	1.7	76	10	1059	3.11	40	6	65	2.1	7	9	48	1.04
STD DS11	Standard				15	150	136	341	1.8	79	13	1029	3.15	44	8	65	2.3	7	13	50	1.05
STD OREAS45EA	Standard				2	692	14	31	0.7	369	53	411	21.34	11	12	4	1.2	<3	5	304	0.03
STD OREAS45EA	Standard				2	696	13	31	0.6	373	54	418	21.74	11	11	4	<0.5	<3	5	304	0.03
STD OREAS45EA	Standard				2	694	13	32	0.6	372	54	412	21.63	11	12	4	1.2	<3	5	304	0.03
STD OREAS45EA	Standard				2	718	11	30	0.4	407	53	421	23.83	11	8	4	<0.5	<3	<3	308	0.03
STD OREAS45EA	Standard				2	713	12	30	0.4	403	53	420	24.46	14	8	4	<0.5	<3	<3	309	0.03
STD OREAS45EA	Standard				2	704	11	30	<0.3	402	54	416	24.68	15	8	4	<0.5	<3	<3	309	0.03
STD OREAS45EA	Standard				1	733	13	32	<0.3	383	50	432	22.76	11	10	4	<0.5	<3	3	318	0.03
STD OREAS45EA	Standard				1	718	18	31	<0.3	386	47	425	23.51	10	10	3	0.9	<3	<3	300	0.03
STD OREAS45EA	Standard				2	713	8	32	0.6	377	55	420	23.31	12	12	4	0.8	<3	<3	308	0.03
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
STD DS11 Expected					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 CDN-PGMS-23 Expected		496	456	2032																	
STD CDN-PGMS-19 Expected		230	108	476																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	5	5																	
BLK	Blank	<2	<3	3																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<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



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		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	Standard	0.069	17	59	0.84	421	0.086	<20	1.09	0.07	0.39	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.070	17	60	0.86	427	0.089	<20	1.11	0.07	0.39	<2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.072	17	57	0.86	434	0.091	<20	1.15	0.07	0.40	2	0.29	<1	<5	<5	<5
STD DS11	Standard	0.071	16	55	0.84	420	0.086	<20	1.11	0.07	0.39	2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.068	15	54	0.80	402	0.081	<20	1.02	0.06	0.37	<2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.071	17	58	0.83	429	0.087	<20	1.11	0.07	0.40	2	0.28	<1	<5	<5	<5
STD DS11	Standard	0.068	17	56	0.83	430	0.089	<20	1.12	0.07	0.38	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.071	17	62	0.87	439	0.088	<20	1.14	0.07	0.40	3	0.30	<1	<5	<5	<5
STD OREAS45EA	Standard	0.030	8	907	0.09	144	0.099	<20	3.26	0.02	0.05	<2	<0.05	<1	<5	11	85
STD OREAS45EA	Standard	0.030	8	917	0.10	144	0.102	<20	3.31	0.02	0.06	<2	<0.05	<1	<5	11	86
STD OREAS45EA	Standard	0.031	8	906	0.10	144	0.103	<20	3.26	0.02	0.05	<2	<0.05	<1	<5	10	85
STD OREAS45EA	Standard	0.031	7	906	0.09	145	0.104	<20	3.38	0.02	0.06	<2	<0.05	<1	8	17	87
STD OREAS45EA	Standard	0.031	7	893	0.10	145	0.102	<20	3.39	0.02	0.06	<2	<0.05	<1	10	9	88
STD OREAS45EA	Standard	0.031	7	889	0.10	146	0.102	<20	3.36	0.02	0.06	<2	<0.05	<1	7	12	86
STD OREAS45EA	Standard	0.032	8	867	0.10	144	0.102	<20	3.37	0.03	0.06	<2	<0.05	<1	<5	25	87
STD OREAS45EA	Standard	0.030	8	875	0.10	144	0.102	<20	3.36	0.02	0.05	<2	<0.05	<1	<5	10	87
STD OREAS45EA	Standard	0.031	8	925	0.10	148	0.102	<20	3.42	0.02	0.06	<2	<0.05	<1	<5	11	87
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
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 CDN-PGMS-23 Expected																	
STD CDN-PGMS-19 Expected																	
BLK	Blank																
BLK	Blank																
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	<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	<5



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		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
		ppb	ppb	ppb	ppm	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
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				<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	<3	<2																	
BLK	Blank	6	<3	4																	
BLK	Blank	2	<3	2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	<2	4	<2																	
BLK	Blank	<2	4	<2																	
BLK	Blank	4	6	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	<2	<3	3																	
BLK	Blank	<2	<3	5																	
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	<3	<2																	



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Project: ULTRA
Report Date: September 25, 2017

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WHI17000580.1

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