



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Shawn Ryan
Receiving Lab: Canada-Vancouver
Received: November 04, 2009
Report Date: November 23, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09005484.1

CLIENT JOB INFORMATION

Project: WHS
Shipment ID: WHS 1
P.O. Number
Number of Samples: 69

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	69	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	69	Dry at 60C			VAN
1DX15	69	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	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. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 4 **Part** 1

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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
WHS 61717	Soil	0.6	16.5	5.3	54	<0.1	26.2	16.1	433	2.72	5.3	0.4	0.8	2.2	28	<0.1	0.4	<0.1	72	0.37	0.045	
WHS 61718	Soil	0.7	39.0	3.5	39	<0.1	71.0	20.4	295	2.48	4.5	0.5	1.0	2.2	21	<0.1	0.3	<0.1	54	0.37	0.051	
WHS 61719	Soil	1.0	26.4	5.6	73	0.1	33.9	13.1	392	2.80	4.7	0.6	2.7	4.2	23	0.1	0.3	<0.1	65	0.35	0.072	
WHS 61720	Soil	2.2	53.5	7.8	123	0.1	47.9	13.6	619	3.56	5.1	1.6	1.0	5.6	21	0.3	0.3	0.1	96	0.29	0.096	
WHS 61721	Soil	1.5	39.1	3.8	118	<0.1	45.1	14.3	493	3.55	2.8	1.6	<0.5	6.0	28	0.2	0.2	0.1	103	0.51	0.136	
WHS 61722	Soil	0.8	14.4	13.6	51	<0.1	10.0	4.1	160	1.82	3.7	3.5	3.5	12.9	12	<0.1	0.3	0.2	31	0.13	0.014	
WHS 61723	Soil	1.0	18.2	5.9	66	<0.1	18.4	8.1	273	2.46	6.0	0.6	<0.5	3.0	18	<0.1	0.4	<0.1	42	0.23	0.045	
WHS 61724	Soil	1.4	35.2	8.8	87	0.2	30.4	10.4	360	2.78	10.7	1.3	2.4	4.1	24	0.2	0.9	0.2	67	0.35	0.069	
WHS 61725	Soil	0.6	51.7	8.1	73	0.1	56.9	16.1	374	2.82	9.3	0.8	3.5	3.4	28	0.1	0.6	0.1	64	0.55	0.110	
WHS 61726	Soil	1.2	51.8	4.1	131	0.1	55.8	12.4	421	3.65	3.7	0.9	0.5	4.1	20	0.3	0.2	1.1	110	0.38	0.100	
WHS 61727	Soil	1.2	50.9	5.1	72	0.2	39.8	13.8	364	2.79	6.0	0.6	3.4	3.1	53	0.1	0.4	0.1	61	1.78	0.088	
WHS 61728	Soil	1.2	30.2	7.1	77	<0.1	33.0	12.5	304	3.06	7.5	0.9	1.2	4.8	21	0.1	0.5	0.1	68	0.33	0.042	
WHS 61729	Soil	1.3	45.3	11.0	113	0.1	37.3	13.0	437	3.45	9.6	0.8	1.9	3.7	19	0.3	0.6	0.7	105	0.31	0.084	
WHS 61730	Soil	1.2	18.2	6.5	65	<0.1	22.5	10.8	642	2.63	7.3	0.4	6.6	2.1	18	0.1	0.5	0.1	59	0.27	0.065	
WHS 61731	Soil	1.6	32.2	8.1	90	0.1	55.7	10.9	255	2.95	12.6	1.0	3.3	3.4	23	0.2	0.7	0.2	65	0.30	0.051	
WHS 61732	Soil	1.3	20.0	7.7	68	<0.1	18.8	9.1	352	2.81	6.8	0.7	0.8	4.3	19	0.1	0.5	0.1	49	0.22	0.033	
WHS 61733	Soil	1.0	21.1	9.9	41	<0.1	17.8	5.5	139	1.85	5.4	1.3	2.4	7.4	10	0.1	0.5	0.2	35	0.10	0.014	
WHS 61734	Soil	1.6	71.8	5.7	127	<0.1	114.4	16.6	440	3.28	3.1	1.4	1.8	5.7	25	0.4	0.4	0.2	111	0.50	0.141	
WHS 61735	Soil	1.1	41.8	8.8	98	<0.1	62.5	12.7	340	3.41	12.0	1.1	1.2	11.2	21	0.2	0.5	0.2	78	0.32	0.076	
WHS 61736	Soil	0.8	30.3	6.5	56	<0.1	34.2	13.2	274	2.72	9.5	0.7	3.9	4.4	25	0.1	0.6	0.1	68	0.32	0.048	
WHS 61737	Soil	0.5	20.9	4.9	46	<0.1	28.0	13.7	376	2.53	4.8	0.4	<0.5	2.2	28	<0.1	0.4	<0.1	68	0.49	0.068	
WHS 61738	Soil	0.6	13.7	4.8	47	<0.1	24.8	14.4	371	2.21	4.4	0.4	<0.5	2.6	32	<0.1	0.4	<0.1	57	0.34	0.044	
WHS 61740	Soil	0.6	13.1	5.1	46	<0.1	22.4	13.8	354	2.09	4.7	0.4	2.8	2.8	29	<0.1	0.4	<0.1	56	0.31	0.040	
WHS 65894	Soil	0.2	84.7	7.1	84	<0.1	38.5	22.3	565	4.22	0.9	0.4	0.5	1.1	67	0.3	0.4	<0.1	100	0.94	0.105	
WHS 65895	Soil	0.2	72.9	2.5	96	<0.1	53.6	26.5	779	4.49	1.3	0.4	<0.5	1.0	38	0.1	0.2	<0.1	134	0.82	0.093	
WHS 65896	Soil	0.6	44.0	4.3	60	<0.1	39.1	18.8	387	3.18	5.6	0.4	2.3	2.0	21	0.1	0.4	<0.1	87	0.33	0.060	
WHS 65897	Soil	0.6	32.9	5.2	44	<0.1	41.9	14.7	362	2.65	6.0	1.1	1.6	2.9	23	<0.1	0.4	<0.1	67	0.37	0.053	
WHS 65898	Soil	1.2	31.1	3.9	71	<0.1	47.4	15.3	403	3.16	3.6	0.9	0.8	3.6	23	<0.1	0.2	<0.1	82	0.45	0.094	
WHS 65899	Soil	1.5	55.1	3.6	116	<0.1	79.6	19.2	532	3.83	1.0	1.9	1.1	9.1	27	0.2	<0.1	<0.1	94	0.52	0.175	
WHS 65900	Soil	1.1	40.7	4.5	111	<0.1	42.6	13.9	375	3.30	2.2	1.3	0.9	8.7	16	0.1	0.2	<0.1	66	0.26	0.091	



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VAN09005484.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
WHS 61717	Soil	7	53	0.73	252	0.078	2	1.78	0.011	0.09	0.1	0.01	4.9	<0.1	<0.05	5	<0.5
WHS 61718	Soil	7	133	1.19	253	0.081	<1	1.62	0.012	0.11	<0.1	0.02	4.0	0.1	<0.05	4	<0.5
WHS 61719	Soil	11	47	0.80	428	0.110	<1	1.73	0.010	0.43	<0.1	<0.01	2.6	0.2	<0.05	6	<0.5
WHS 61720	Soil	17	72	1.00	436	0.128	1	2.00	0.008	0.62	0.1	0.01	3.7	0.3	<0.05	7	0.8
WHS 61721	Soil	22	88	1.34	979	0.177	<1	2.19	0.009	0.91	0.2	<0.01	3.9	0.3	<0.05	8	0.8
WHS 61722	Soil	64	17	0.19	174	0.062	<1	0.83	0.007	0.13	0.1	0.01	2.8	0.2	<0.05	4	0.6
WHS 61723	Soil	10	24	0.43	249	0.084	<1	1.22	0.008	0.18	0.1	0.02	2.3	<0.1	<0.05	5	<0.5
WHS 61724	Soil	21	44	0.56	476	0.076	<1	1.44	0.011	0.29	<0.1	0.02	3.1	0.2	<0.05	5	0.6
WHS 61725	Soil	15	57	0.73	426	0.092	1	1.39	0.016	0.19	0.1	0.04	4.0	0.1	<0.05	5	<0.5
WHS 61726	Soil	17	120	1.29	609	0.138	<1	2.14	0.009	0.72	0.2	<0.01	3.8	0.3	<0.05	8	0.7
WHS 61727	Soil	15	36	0.77	637	0.110	1	1.32	0.018	0.37	0.1	0.04	3.7	0.2	0.09	5	0.9
WHS 61728	Soil	16	42	0.64	412	0.115	1	1.64	0.012	0.32	0.2	0.02	5.2	0.1	<0.05	5	0.7
WHS 61729	Soil	15	75	0.86	501	0.078	<1	1.78	0.009	0.35	0.2	0.02	4.0	0.2	<0.05	8	0.7
WHS 61730	Soil	8	33	0.50	349	0.074	<1	1.52	0.011	0.12	0.1	0.01	2.4	<0.1	<0.05	5	<0.5
WHS 61731	Soil	18	103	0.66	384	0.070	<1	1.62	0.009	0.13	<0.1	0.03	3.4	0.1	<0.05	5	0.7
WHS 61732	Soil	13	26	0.44	307	0.071	<1	1.44	0.009	0.22	0.1	0.02	2.8	0.1	<0.05	6	<0.5
WHS 61733	Soil	10	22	0.28	123	0.045	<1	1.00	0.006	0.09	0.1	0.01	2.4	<0.1	<0.05	4	0.6
WHS 61734	Soil	19	98	1.21	774	0.128	<1	1.97	0.010	0.63	0.2	0.01	5.1	0.4	<0.05	7	1.1
WHS 61735	Soil	34	66	0.88	424	0.094	<1	1.80	0.009	0.51	<0.1	0.01	4.3	0.2	<0.05	8	0.8
WHS 61736	Soil	11	50	0.56	325	0.090	1	1.62	0.012	0.09	0.1	0.02	4.8	<0.1	<0.05	5	<0.5
WHS 61737	Soil	8	66	0.77	294	0.092	<1	1.60	0.013	0.11	0.1	0.01	5.5	<0.1	<0.05	5	<0.5
WHS 61738	Soil	9	46	0.70	318	0.087	<1	1.54	0.007	0.07	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5
WHS 61740	Soil	9	43	0.67	328	0.077	<1	1.47	0.011	0.08	0.1	0.01	3.3	<0.1	<0.05	4	<0.5
WHS 65894	Soil	4	88	1.47	199	0.127	<1	2.08	0.027	0.02	<0.1	0.02	7.1	<0.1	<0.05	8	<0.5
WHS 65895	Soil	9	124	1.78	183	0.132	<1	2.26	0.016	0.04	0.1	0.01	11.3	<0.1	<0.05	9	<0.5
WHS 65896	Soil	7	83	1.12	150	0.112	<1	2.01	0.012	0.04	0.1	0.02	4.5	<0.1	<0.05	6	<0.5
WHS 65897	Soil	14	68	0.91	295	0.060	2	1.82	0.013	0.06	0.1	0.04	6.9	0.1	<0.05	5	<0.5
WHS 65898	Soil	10	122	1.36	597	0.154	<1	2.09	0.014	0.60	0.1	0.02	3.9	0.3	<0.05	7	<0.5
WHS 65899	Soil	28	112	1.55	690	0.217	<1	2.36	0.009	1.29	<0.1	<0.01	3.5	0.5	<0.05	7	0.7
WHS 65900	Soil	18	65	1.06	419	0.167	<1	2.00	0.008	0.81	<0.1	0.01	2.1	0.4	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
WHS 65901	Soil	1.0	16.1	12.5	54	<0.1	17.0	5.9	185	2.05	3.7	0.6	1.6	3.8	13	<0.1	0.3	0.2	54	0.18
WHS 65902	Soil	0.7	23.3	7.1	74	<0.1	25.3	11.4	428	2.81	7.7	1.2	2.4	4.3	27	<0.1	0.5	0.1	57	0.38
WHS 65903	Soil	0.7	22.3	8.6	69	0.2	24.9	11.9	504	2.72	5.5	0.5	3.8	3.2	30	0.2	0.4	0.1	53	0.49
WHS 65904	Soil	3.7	70.6	7.0	159	0.6	89.6	30.2	717	3.96	5.0	1.6	6.3	5.8	32	0.5	0.5	0.2	118	0.61
WHS 65905	Soil	8.3	47.5	174.4	92	0.7	40.9	14.2	374	3.24	7.3	1.2	4.5	6.2	27	0.2	0.5	1.5	79	0.41
WHS 65906	Soil	1.9	33.9	17.2	89	0.2	27.0	15.0	1079	3.59	8.3	1.1	2.1	5.9	32	0.2	0.6	0.3	54	0.60
WHS 65907	Soil	1.1	19.5	8.6	47	<0.1	20.2	6.4	214	2.56	10.3	0.9	5.3	5.1	27	<0.1	0.6	0.2	50	0.33
WHS 65908	Soil	1.0	16.7	8.0	55	<0.1	21.3	8.6	359	2.52	9.8	0.6	0.8	3.3	24	0.1	0.5	0.2	55	0.29
WHS 65909	Soil	1.3	55.6	4.8	126	<0.1	76.7	19.1	484	4.26	3.3	1.6	1.6	9.2	25	0.3	0.2	<0.1	114	0.52
WHS 65910	Soil	1.3	53.5	6.5	134	<0.1	62.1	16.8	416	3.74	1.0	1.7	0.6	11.0	23	0.2	<0.1	<0.1	108	0.50
WHS 65911	Soil	1.0	45.0	3.1	95	<0.1	55.6	17.2	577	4.30	2.8	0.5	0.5	3.0	21	<0.1	0.1	<0.1	93	0.51
WHS 65912	Soil	0.8	30.4	7.1	99	<0.1	38.7	14.1	664	3.95	59.2	0.7	0.8	6.2	21	0.2	0.6	0.1	89	0.30
WHS 65913	Soil	0.7	21.0	4.5	39	<0.1	34.4	13.9	484	2.47	6.2	0.3	<0.5	1.4	29	<0.1	0.4	<0.1	59	0.38
WHS 65914	Soil	0.6	33.8	5.6	48	<0.1	27.5	17.6	347	3.26	7.5	0.5	3.0	3.0	23	<0.1	0.4	0.1	72	0.39
WHS 65915	Soil	0.4	23.9	4.3	49	<0.1	27.1	16.0	320	2.93	6.0	0.6	2.8	2.5	30	<0.1	0.3	<0.1	56	0.45
WHS 65916	Soil	0.2	37.4	2.3	40	<0.1	60.4	19.9	495	2.60	2.4	0.2	<0.5	1.7	16	<0.1	<0.1	<0.1	44	0.34
WHS 68390	Soil	0.4	12.0	2.4	53	<0.1	112.5	16.8	453	2.76	1.8	0.4	<0.5	4.9	19	<0.1	<0.1	<0.1	53	0.32
WHS 68391	Soil	1.0	18.6	6.5	50	<0.1	22.0	11.1	371	2.91	8.9	0.3	0.7	1.9	21	<0.1	0.5	0.1	64	0.32
WHS 68392	Soil	0.6	30.0	3.3	37	<0.1	31.2	10.8	197	2.13	4.7	0.3	<0.5	1.7	14	<0.1	0.3	<0.1	43	0.26
WHS 68393	Soil	0.6	41.3	4.1	83	<0.1	43.4	16.6	444	3.52	4.1	0.8	1.5	6.1	28	<0.1	0.3	<0.1	79	0.51
WHS 68394	Soil	0.8	33.4	7.5	75	<0.1	37.9	13.5	332	3.27	6.8	0.8	1.7	5.5	25	0.2	0.3	<0.1	65	0.39
WHS 68395	Soil	1.7	22.5	7.6	63	<0.1	25.2	9.7	503	2.71	10.8	0.5	2.8	2.3	25	0.3	0.6	0.2	60	0.31
WHS 68396	Soil	1.4	31.5	4.6	111	<0.1	53.5	15.8	514	4.07	2.8	0.5	<0.5	3.8	27	0.2	0.2	<0.1	61	0.50
WHS 68397	Soil	0.9	10.9	6.9	54	<0.1	17.5	8.4	569	2.30	4.4	0.4	<0.5	3.9	23	0.1	0.4	0.1	47	0.30
WHS 68398	Soil	0.8	28.8	8.3	59	<0.1	27.7	10.6	483	2.84	8.7	0.6	<0.5	6.6	31	0.1	0.5	0.2	52	0.46
WHS 68399	Soil	0.7	30.2	7.3	65	<0.1	24.4	10.0	886	2.62	5.4	0.5	1.1	2.0	116	0.4	0.5	0.1	41	3.20
WHS 68400	Soil	4.8	25.4	49.5	100	0.2	19.7	11.6	1108	3.11	5.1	0.9	1.2	5.0	36	0.5	0.4	0.5	52	0.61
WHS 68401	Soil	2.8	59.5	37.8	177	0.3	63.9	24.9	954	4.40	18.5	1.3	6.7	5.0	28	0.6	0.6	0.2	109	0.52
WHS 68402	Soil	1.2	17.9	5.8	101	<0.1	15.8	8.9	517	3.81	4.2	0.9	1.1	7.6	32	0.1	0.3	<0.1	39	0.57
WHS 68403	Soil	1.4	20.7	7.4	56	<0.1	23.1	11.6	526	3.10	7.1	0.4	4.9	3.2	28	0.1	0.5	0.1	65	0.41



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
WHS 65901	Soil	9	36	0.42	175	0.090	<1	1.26	0.007	0.09	<0.1	0.01	2.2	0.1	<0.05	6	<0.5
WHS 65902	Soil	23	32	0.52	662	0.112	1	1.57	0.017	0.31	0.1	0.02	4.3	0.2	<0.05	6	<0.5
WHS 65903	Soil	17	29	0.51	508	0.098	2	1.59	0.017	0.38	0.1	0.02	3.7	0.1	<0.05	5	<0.5
WHS 65904	Soil	35	123	1.43	1008	0.137	2	2.20	0.012	0.93	0.2	0.04	5.1	0.4	0.11	9	1.2
WHS 65905	Soil	34	55	0.83	741	0.116	2	1.79	0.017	0.45	0.2	0.04	5.0	0.2	0.11	6	1.1
WHS 65906	Soil	58	30	0.57	1043	0.085	4	2.13	0.022	0.34	0.1	0.02	7.5	0.1	0.07	6	<0.5
WHS 65907	Soil	26	33	0.51	448	0.079	2	1.55	0.012	0.12	0.1	0.05	4.3	<0.1	<0.05	4	<0.5
WHS 65908	Soil	9	33	0.53	368	0.066	2	1.59	0.013	0.10	0.1	0.01	3.4	<0.1	<0.05	4	<0.5
WHS 65909	Soil	18	90	1.41	851	0.129	<1	2.75	0.011	0.70	<0.1	0.01	7.3	0.3	<0.05	9	0.6
WHS 65910	Soil	25	82	1.37	708	0.142	1	2.31	0.012	0.63	<0.1	0.01	5.5	0.2	<0.05	10	<0.5
WHS 65911	Soil	7	113	2.10	815	0.249	1	2.85	0.011	1.27	0.2	<0.01	3.3	0.4	<0.05	7	<0.5
WHS 65912	Soil	9	90	1.29	277	0.054	<1	2.53	0.011	0.10	0.1	0.02	4.5	<0.1	<0.05	10	0.5
WHS 65913	Soil	5	58	1.00	179	0.092	2	1.97	0.015	0.04	0.1	<0.01	3.4	<0.1	<0.05	5	<0.5
WHS 65914	Soil	10	61	0.91	245	0.087	<1	2.06	0.016	0.06	0.2	<0.01	6.3	<0.1	<0.05	5	<0.5
WHS 65915	Soil	10	57	1.17	390	0.082	2	1.91	0.014	0.11	<0.1	0.02	6.6	0.1	<0.05	4	<0.5
WHS 65916	Soil	5	116	1.35	390	0.154	<1	2.01	0.012	0.55	<0.1	<0.01	1.4	0.2	<0.05	5	<0.5
WHS 68390	Soil	30	286	2.01	471	0.188	<1	2.63	0.008	0.70	<0.1	<0.01	1.6	0.3	<0.05	7	<0.5
WHS 68391	Soil	6	38	0.60	397	0.088	<1	1.89	0.012	0.07	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
WHS 68392	Soil	5	61	0.72	197	0.119	<1	1.42	0.011	0.15	0.1	<0.01	1.8	0.1	<0.05	4	<0.5
WHS 68393	Soil	20	99	1.44	653	0.151	1	2.40	0.014	0.51	<0.1	<0.01	5.0	0.3	<0.05	7	<0.5
WHS 68394	Soil	17	58	1.00	387	0.161	<1	1.94	0.012	0.52	0.1	0.03	3.0	0.3	<0.05	5	0.6
WHS 68395	Soil	10	33	0.52	374	0.062	1	1.62	0.014	0.08	0.1	0.02	2.8	<0.1	<0.05	5	<0.5
WHS 68396	Soil	9	71	1.15	597	0.186	2	2.40	0.014	0.88	0.1	0.01	2.5	0.3	<0.05	7	<0.5
WHS 68397	Soil	16	26	0.36	616	0.054	<1	1.38	0.011	0.10	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5
WHS 68398	Soil	30	30	0.53	378	0.082	2	1.53	0.022	0.27	0.1	0.03	5.0	<0.1	<0.05	5	<0.5
WHS 68399	Soil	17	25	0.56	909	0.070	7	1.33	0.022	0.38	0.1	0.01	3.3	<0.1	0.06	4	0.8
WHS 68400	Soil	29	28	0.52	1198	0.068	2	2.04	0.016	0.17	0.1	0.01	5.5	0.1	<0.05	6	<0.5
WHS 68401	Soil	29	94	1.43	666	0.145	1	2.75	0.013	0.84	0.1	0.02	5.2	0.3	<0.05	8	0.9
WHS 68402	Soil	42	19	0.65	440	0.111	2	1.97	0.016	0.48	<0.1	0.05	4.3	0.2	<0.05	9	<0.5
WHS 68403	Soil	14	43	0.58	435	0.067	3	1.90	0.017	0.16	0.1	0.01	5.8	0.1	<0.05	5	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
WHS 68404	Soil	1.9	42.3	8.0	104	0.2	53.9	18.0	631	3.58	8.3	1.0	1.2	2.7	27	0.5	0.6	0.2	78	0.34	0.093
WHS 68405	Soil	1.3	17.5	8.9	75	<0.1	16.1	8.2	449	3.23	5.3	0.7	0.8	1.5	20	0.2	0.4	0.1	48	0.26	0.078
WHS 68406	Soil	0.8	32.5	6.2	57	<0.1	28.4	10.8	361	2.72	9.0	0.7	2.7	3.8	35	0.2	0.5	0.1	63	0.47	0.083
WHS 68407	Soil	1.6	48.6	6.5	115	<0.1	42.2	12.5	486	3.49	6.4	1.0	1.7	4.2	26	0.3	0.5	0.1	93	0.40	0.083
WHS 68408	Soil	0.8	16.6	6.3	50	<0.1	30.3	14.0	402	2.47	5.4	0.3	<0.5	1.9	19	0.1	0.4	0.1	52	0.24	0.031
WHS 68409	Soil	0.6	21.8	4.1	58	<0.1	26.1	15.6	431	3.29	4.8	0.3	0.5	2.5	21	<0.1	0.3	<0.1	48	0.35	0.085
WHS 68410	Soil	0.6	14.2	4.1	51	<0.1	19.6	11.9	276	2.13	4.1	0.2	<0.5	1.2	21	<0.1	0.3	<0.1	48	0.31	0.041
WHS 68411	Soil	0.8	15.7	6.3	42	<0.1	19.7	10.7	498	2.43	6.6	0.4	0.6	2.7	27	<0.1	0.4	0.1	52	0.36	0.046
WHS 68412	Soil	1.5	38.6	6.8	101	0.1	36.9	10.9	502	3.17	6.9	0.7	1.4	3.1	23	0.2	0.4	0.1	86	0.30	0.068



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
WHS 68404	Soil	16	54	0.63	645	0.068	2	2.09	0.014	0.24	0.1	0.02	5.0	0.1	<0.05	7	<0.5
WHS 68405	Soil	17	24	0.41	434	0.045	2	1.65	0.013	0.26	0.1	0.01	2.9	<0.1	<0.05	7	<0.5
WHS 68406	Soil	16	40	0.65	349	0.088	<1	1.55	0.021	0.08	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5
WHS 68407	Soil	15	70	1.04	386	0.125	1	2.22	0.012	0.35	0.1	0.01	4.7	0.2	<0.05	7	0.8
WHS 68408	Soil	8	48	0.61	416	0.070	<1	1.64	0.012	0.08	0.1	0.01	3.0	<0.1	<0.05	4	<0.5
WHS 68409	Soil	5	53	1.19	441	0.183	2	2.29	0.011	0.76	0.1	<0.01	2.1	0.3	<0.05	5	<0.5
WHS 68410	Soil	5	47	0.58	380	0.067	<1	1.57	0.013	0.06	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5
WHS 68411	Soil	8	33	0.56	440	0.089	1	1.50	0.016	0.17	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5
WHS 68412	Soil	12	60	0.87	338	0.104	2	2.07	0.015	0.26	0.1	0.01	3.9	0.2	<0.05	7	0.8



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
WHS 61717	Soil	0.6	16.5	5.3	54	<0.1	26.2	16.1	433	2.72	5.3	0.4	0.8	2.2	28	<0.1	0.4	<0.1	72	0.37	0.045
REP WHS 61717	QC	0.8	16.8	5.2	55	<0.1	28.7	16.0	451	2.82	5.3	0.4	4.3	2.3	29	<0.1	0.4	<0.1	71	0.37	0.046
WHS 61735	Soil	1.1	41.8	8.8	98	<0.1	62.5	12.7	340	3.41	12.0	1.1	1.2	11.2	21	0.2	0.5	0.2	78	0.32	0.076
REP WHS 61735	QC	1.1	42.5	9.2	100	<0.1	61.6	13.2	352	3.35	11.6	1.1	1.0	11.2	21	0.2	0.6	0.1	77	0.31	0.077
WHS 68391	Soil	1.0	18.6	6.5	50	<0.1	22.0	11.1	371	2.91	8.9	0.3	0.7	1.9	21	<0.1	0.5	0.1	64	0.32	0.073
REP WHS 68391	QC	1.0	17.3	6.4	52	<0.1	20.1	10.8	339	2.72	9.4	0.3	0.7	1.8	21	<0.1	0.5	0.1	62	0.30	0.072
WHS 68410	Soil	0.6	14.2	4.1	51	<0.1	19.6	11.9	276	2.13	4.1	0.2	<0.5	1.2	21	<0.1	0.3	<0.1	48	0.31	0.041
REP WHS 68410	QC	0.6	14.4	4.2	50	<0.1	18.6	11.7	263	1.97	3.8	0.2	<0.5	1.2	22	<0.1	0.3	<0.1	48	0.31	0.045
Reference Materials																					
STD DS7	Standard	21.9	112.2	68.2	413	0.8	59.9	9.5	618	2.45	54.7	4.5	71.3	4.2	77	6.4	6.1	4.7	84	1.01	0.089
STD DS7	Standard	20.1	102.3	63.1	379	0.8	56.2	9.3	539	2.09	45.0	4.5	72.0	4.0	72	5.8	5.8	4.3	77	0.94	0.080
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
WHS 61717	Soil	7	53	0.73	252	0.078	2	1.78	0.011	0.09	0.1	0.01	4.9	<0.1	<0.05	5	<0.5
REP WHS 61717	QC	7	53	0.79	254	0.081	<1	1.79	0.012	0.08	<0.1	0.01	4.9	<0.1	0.06	5	<0.5
WHS 61735	Soil	34	66	0.88	424	0.094	<1	1.80	0.009	0.51	<0.1	0.01	4.3	0.2	<0.05	8	0.8
REP WHS 61735	QC	33	67	0.89	426	0.091	<1	1.76	0.012	0.46	0.1	0.01	4.1	0.2	<0.05	8	<0.5
WHS 68391	Soil	6	38	0.60	397	0.088	<1	1.89	0.012	0.07	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
REP WHS 68391	QC	6	37	0.64	408	0.082	1	1.87	0.009	0.07	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5
WHS 68410	Soil	5	47	0.58	380	0.067	<1	1.57	0.013	0.06	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5
REP WHS 68410	QC	5	46	0.59	365	0.070	<1	1.64	0.013	0.06	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5
Reference Materials																	
STD DS7	Standard	13	190	1.05	402	0.124	41	1.11	0.102	0.43	4.1	0.19	2.6	4.1	0.25	5	3.6
STD DS7	Standard	12	195	0.92	350	0.112	39	0.91	0.095	0.40	3.6	0.19	2.2	4.1	0.24	4	3.4
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5