



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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

Submitted By: Jodie Gibson
Receiving Lab: Canada-Vancouver
Received: August 24, 2009
Report Date: September 11, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09003882.1

CLIENT JOB INFORMATION

Project: WHITE
Shipment ID: UW09-05
P.O. Number
Number of Samples: 85

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: Adrian Fleming
Rob McLeod

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	85	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	85	Dry at 60C			VAN
1DX15	85	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

CERTIFICATE OF ANALYSIS

VAN09003882.1

		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
MH-101	Soil	16.7	106.1	19.6	130	0.1	96.0	27.3	1339	5.62	17.1	1.3	6.6	4.0	12	0.4	0.8	0.3	170	0.10	0.076	
MH-102	Soil	1.1	20.7	12.1	57	0.2	22.1	9.8	294	3.06	9.4	1.1	4.6	4.4	19	0.1	0.6	0.2	71	0.17	0.031	
MH-103	Soil	1.8	47.3	12.5	94	0.2	70.3	17.1	339	3.73	7.9	1.1	5.4	6.3	19	0.1	0.5	0.2	104	0.16	0.042	
MH-104	Soil	1.5	40.9	11.3	89	0.1	41.6	14.3	554	3.44	12.1	0.7	3.6	4.8	34	0.3	0.8	0.4	82	0.36	0.053	
MH-105	Soil	2.0	74.9	10.4	110	<0.1	68.3	19.1	802	4.13	7.3	2.6	7.7	8.8	28	0.2	0.6	0.2	130	0.37	0.078	
MH-106	Soil	2.2	57.0	6.2	111	<0.1	274.0	25.5	573	4.82	6.3	0.7	1.8	4.4	20	0.1	0.3	0.1	144	0.25	0.048	
MH-107	Soil	2.8	120.6	8.6	130	<0.1	137.3	27.2	1111	5.63	3.7	1.7	3.0	7.2	24	0.1	0.3	0.2	178	0.33	0.091	
MH-108	Soil	1.6	49.0	13.7	75	<0.1	65.9	18.1	461	4.18	8.3	0.8	0.6	4.0	17	0.2	0.6	0.2	112	0.18	0.044	
MH-109	Soil	1.3	57.8	7.4	63	<0.1	99.6	20.3	354	4.07	6.9	1.2	1.9	4.5	29	0.1	0.5	0.1	93	0.32	0.056	
MH-110	Soil	1.9	32.6	11.7	60	0.1	40.8	14.3	316	3.28	8.7	0.7	1.4	4.0	21	0.1	0.7	0.2	83	0.19	0.032	
MH-111	Soil	1.8	44.9	10.1	91	0.2	107.4	18.5	461	4.31	10.4	0.8	0.7	4.1	18	0.2	0.6	0.2	127	0.25	0.068	
MH-112	Soil	1.9	25.0	11.1	62	0.3	29.3	11.4	410	3.16	10.9	0.5	<0.5	2.5	13	0.2	0.7	0.2	80	0.12	0.053	
MH-113	Soil	2.1	51.6	18.5	132	0.3	87.6	17.5	1358	3.85	8.9	0.5	0.8	3.3	25	1.1	0.6	0.2	99	0.30	0.137	
MH-114	Soil	1.3	43.8	10.3	89	0.3	48.2	16.1	612	3.83	9.1	0.5	1.1	3.8	20	0.3	0.5	0.2	108	0.23	0.074	
MH-115	Soil	1.3	37.9	9.9	103	0.3	34.9	12.5	959	3.65	5.4	0.5	2.8	3.4	59	0.4	0.3	0.2	114	0.76	0.120	
MH-116	Soil	2.4	45.5	12.6	74	0.3	35.6	15.1	538	3.82	10.5	0.5	1.7	3.4	19	0.2	0.5	0.2	101	0.18	0.057	
MH-117	Soil	2.0	50.4	43.0	67	0.1	42.7	12.9	335	3.38	10.2	1.0	6.1	4.5	24	0.2	0.7	0.3	82	0.25	0.033	
MH-118	Soil	4.2	165.6	11.9	208	<0.1	211.1	39.5	1635	7.61	129.0	1.3	1.7	7.7	18	0.5	1.4	0.1	217	0.36	0.147	
MH-119	Soil	1.3	26.2	10.2	60	0.2	34.3	11.8	369	3.26	9.5	0.5	<0.5	3.6	23	0.2	0.7	0.2	82	0.27	0.038	
MH-120	Soil	1.4	31.0	7.3	65	0.3	37.0	13.8	523	3.09	8.4	0.4	0.6	1.7	18	0.4	0.4	0.2	73	0.22	0.085	
MH-121	Soil	0.9	357.9	2.6	21	0.2	234.0	33.0	123	2.50	15.9	0.2	<0.5	0.8	8	0.1	0.4	<0.1	36	0.13	0.024	
MH-122	Soil	1.4	40.2	7.0	69	<0.1	41.1	12.4	326	3.37	9.2	0.4	1.2	3.5	21	<0.1	0.5	0.1	101	0.29	0.038	
MH-123	Soil	0.9	59.8	5.3	69	<0.1	41.5	18.4	564	3.84	6.0	0.6	3.2	4.1	26	<0.1	0.3	<0.1	84	0.73	0.164	
MH-124	Soil	0.9	24.1	5.1	82	<0.1	15.7	21.0	550	5.38	5.5	0.4	1.0	1.4	99	<0.1	0.3	<0.1	138	0.36	0.062	
MH-125	Soil	0.6	60.6	10.8	63	0.1	29.8	16.7	567	3.44	6.7	1.0	2.9	12.4	23	<0.1	0.4	0.2	80	0.47	0.045	
MH-126	Soil	3.1	99.2	12.6	133	0.2	93.0	26.0	1598	5.73	4.9	1.0	1.3	6.7	26	0.3	0.2	0.2	139	0.58	0.158	
MH-127	Soil	1.4	33.2	15.9	71	0.3	47.8	18.6	499	4.41	8.0	1.3	10.7	6.5	20	<0.1	0.5	0.2	93	0.20	0.024	
MH-128	Soil	2.2	77.0	11.7	145	<0.1	109.3	21.0	645	4.88	19.1	0.9	1.4	3.8	22	0.2	0.7	0.2	127	0.17	0.048	
MH-129	Soil	2.3	127.9	9.1	141	<0.1	164.2	29.6	1371	6.64	5.9	1.4	2.7	4.5	21	0.2	0.3	0.2	175	0.29	0.054	
MH-130	Soil	1.1	14.0	9.4	36	0.1	16.6	5.8	200	2.23	7.7	0.4	1.6	1.6	13	0.1	0.3	0.2	60	0.13	0.032	



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VAN09003882.1

	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
MH-101	Soil	12	165	1.17	260	0.158	<1	2.65	0.010	0.16	0.2	0.01	7.3	0.3	<0.05	12	1.1
MH-102	Soil	15	39	0.46	262	0.080	<1	1.99	0.011	0.04	0.1	0.02	4.9	0.1	<0.05	6	0.6
MH-103	Soil	16	69	0.91	304	0.106	<1	2.88	0.010	0.14	<0.1	0.02	4.6	0.2	<0.05	8	0.5
MH-104	Soil	11	61	0.74	551	0.126	2	2.37	0.013	0.13	0.1	0.01	3.2	0.1	<0.05	6	0.6
MH-105	Soil	26	94	1.23	475	0.209	<1	2.46	0.012	0.49	0.2	0.03	11.0	0.4	<0.05	9	1.2
MH-106	Soil	18	336	3.15	1080	0.292	<1	4.47	0.013	0.99	<0.1	<0.01	7.5	0.6	<0.05	13	0.7
MH-107	Soil	25	172	1.75	1370	0.284	<1	3.06	0.013	1.07	<0.1	0.01	10.8	0.5	<0.05	11	1.0
MH-108	Soil	13	102	1.10	620	0.176	<1	2.71	0.011	0.33	0.1	0.02	6.0	0.2	<0.05	9	<0.5
MH-109	Soil	16	177	1.54	733	0.194	<1	2.71	0.016	0.32	<0.1	0.02	3.8	0.2	<0.05	7	1.1
MH-110	Soil	12	55	0.62	495	0.099	<1	2.48	0.010	0.09	<0.1	0.02	4.0	0.1	<0.05	7	<0.5
MH-111	Soil	9	167	1.62	629	0.216	<1	3.36	0.011	0.33	0.1	0.01	6.3	0.2	<0.05	10	0.8
MH-112	Soil	10	44	0.54	327	0.085	<1	2.11	0.010	0.09	0.2	0.02	3.0	0.1	<0.05	7	<0.5
MH-113	Soil	10	62	0.80	548	0.071	<1	2.28	0.009	0.10	0.2	0.02	3.6	0.1	<0.05	8	1.1
MH-114	Soil	10	65	0.85	645	0.129	<1	2.32	0.011	0.33	0.1	0.01	4.8	0.2	<0.05	8	0.6
MH-115	Soil	13	72	0.96	1028	0.197	1	1.90	0.013	0.38	<0.1	<0.01	4.8	0.2	<0.05	9	<0.5
MH-116	Soil	11	53	0.60	335	0.098	<1	2.34	0.010	0.14	0.1	0.02	4.0	0.1	<0.05	8	0.8
MH-117	Soil	15	55	0.53	378	0.096	<1	1.76	0.013	0.07	0.1	<0.01	4.9	<0.1	<0.05	5	0.7
MH-118	Soil	29	247	2.33	729	0.147	<1	3.69	0.007	0.40	<0.1	0.01	15.0	0.2	<0.05	15	1.0
MH-119	Soil	10	54	0.68	400	0.127	<1	1.83	0.012	0.20	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
MH-120	Soil	7	49	0.57	519	0.053	2	1.84	0.014	0.08	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
MH-121	Soil	2	149	0.59	84	0.043	<1	0.93	0.004	0.02	0.1	<0.01	2.5	<0.1	<0.05	3	0.7
MH-122	Soil	9	64	0.80	437	0.097	1	1.99	0.010	0.36	0.1	<0.01	4.3	0.1	<0.05	6	<0.5
MH-123	Soil	12	39	1.38	296	0.103	1	1.97	0.016	0.32	0.1	0.01	5.9	0.2	<0.05	7	<0.5
MH-124	Soil	4	27	1.55	301	0.165	<1	3.47	0.016	0.55	0.1	<0.01	8.2	0.4	<0.05	10	<0.5
MH-125	Soil	25	66	0.88	246	0.056	1	1.66	0.017	0.10	0.2	0.03	11.7	0.2	<0.05	5	0.8
MH-126	Soil	10	100	0.95	609	0.122	1	1.71	0.007	0.66	<0.1	0.02	12.4	0.4	<0.05	9	1.6
MH-127	Soil	24	69	0.67	487	0.094	2	1.94	0.010	0.35	<0.1	0.04	9.0	0.2	<0.05	7	0.8
MH-128	Soil	13	101	0.45	403	0.041	1	1.14	0.006	0.15	<0.1	0.03	11.8	0.1	<0.05	5	1.1
MH-129	Soil	17	226	2.16	687	0.189	1	3.22	0.010	0.86	<0.1	0.01	16.9	0.6	<0.05	12	1.7
MH-130	Soil	11	28	0.27	214	0.055	1	1.28	0.009	0.04	<0.1	0.01	2.4	0.1	<0.05	6	<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			
					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
MH-131	Soil																							
MH-132	Soil																							
MH-133	Soil																							
MH-134	Soil																							
MH-135	Soil																							
MH-136	Soil																							
MH-137	Soil																							
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MC-101	Soil																							
MC-102	Soil																							
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		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
MH-131	Soil	10	60	0.49	283	0.058	<1	1.75	0.009	0.06	0.2	0.02	3.5	<0.1	<0.05	6	<0.5
MH-132	Soil	10	47	0.51	254	0.058	1	2.28	0.010	0.07	<0.1	0.02	3.5	0.1	<0.05	6	<0.5
MH-133	Soil	15	89	0.79	579	0.147	<1	1.99	0.009	0.35	0.1	0.03	7.8	0.2	<0.05	7	1.1
MH-134	Soil	10	22	1.37	177	0.047	<1	1.20	0.020	0.03	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5
MH-135	Soil	7	34	0.66	244	0.108	<1	2.57	0.013	0.29	0.1	<0.01	2.4	0.2	<0.05	6	<0.5
MH-136	Soil	11	42	2.23	192	0.091	3	1.88	0.021	0.07	0.1	0.03	4.1	0.1	<0.05	6	<0.5
MH-137	Soil	25	21	2.77	159	0.048	3	1.70	0.010	0.05	0.1	0.02	3.6	0.1	<0.05	5	<0.5
MH-138	Soil	25	64	1.28	253	0.150	<1	2.71	0.013	0.43	0.1	<0.01	7.2	0.2	<0.05	9	<0.5
MH-139	Soil	10	31	0.62	154	0.124	<1	1.70	0.012	0.22	0.1	<0.01	2.9	0.1	<0.05	9	<0.5
MH-140	Soil	27	41	0.78	332	0.097	1	2.35	0.018	0.21	0.2	0.02	5.1	0.2	<0.05	6	<0.5
MH-141	Soil	22	37	0.70	314	0.089	<1	2.02	0.016	0.17	0.1	0.02	4.5	0.2	<0.05	6	<0.5
MH-142	Soil	41	66	1.16	289	0.185	<1	2.57	0.012	0.77	<0.1	0.01	5.9	0.4	<0.05	11	0.7
MH-143	Soil	18	69	1.09	399	0.185	1	2.16	0.018	0.46	0.1	<0.01	5.1	0.3	<0.05	8	0.6
MH-144	Soil	18	92	0.87	567	0.125	1	2.09	0.011	0.24	0.1	0.03	4.6	0.2	<0.05	7	<0.5
MC-101	Soil	9	43	0.47	256	0.059	<1	1.59	0.009	0.06	0.1	0.01	2.3	<0.1	<0.05	6	<0.5
MC-102	Soil	12	40	0.51	532	0.060	<1	1.89	0.010	0.07	0.2	<0.01	3.4	<0.1	<0.05	6	<0.5
MC-103	Soil	12	36	0.46	322	0.058	<1	1.74	0.009	0.09	0.2	0.02	3.1	0.1	<0.05	6	<0.5
MC-104	Soil	14	38	0.49	253	0.080	<1	1.84	0.010	0.21	0.1	0.03	3.2	0.1	<0.05	7	<0.5
MC-105	Soil	8	99	1.20	387	0.137	<1	2.28	0.011	0.32	<0.1	<0.01	4.2	0.2	<0.05	9	<0.5
MC-106	Soil	14	55	0.86	318	0.133	2	2.06	0.012	0.13	0.1	<0.01	5.3	0.1	<0.05	6	0.6
MC-107	Soil	11	35	0.45	267	0.063	<1	1.87	0.010	0.05	0.1	0.01	2.8	<0.1	<0.05	6	<0.5
MC-108	Soil	14	43	0.59	296	0.075	<1	2.23	0.009	0.15	0.1	0.02	3.7	0.1	<0.05	6	0.5
MC-109	Soil	11	58	0.68	401	0.098	<1	2.10	0.010	0.19	0.1	<0.01	4.3	0.1	<0.05	7	<0.5
MC-110	Soil	8	74	0.75	409	0.100	1	2.23	0.011	0.10	0.1	<0.01	3.5	<0.1	<0.05	7	<0.5
MC-111	Soil	12	43	0.60	455	0.083	1	2.01	0.010	0.17	<0.1	0.01	4.1	0.1	<0.05	7	<0.5
MC-112	Soil	19	250	1.96	1568	0.217	<1	2.72	0.010	0.67	<0.1	<0.01	5.9	0.3	<0.05	9	0.7
MC-113	Soil	5	62	1.09	549	0.155	<1	2.42	0.011	0.35	<0.1	<0.01	4.8	0.2	<0.05	7	<0.5
MC-114	Soil	7	54	0.53	650	0.080	<1	1.95	0.006	0.12	0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
MC-115	Soil	11	142	1.35	1155	0.172	<1	2.62	0.008	0.72	<0.1	<0.01	5.8	0.3	<0.05	9	1.2
MC-116	Soil	9	48	0.41	351	0.055	<1	1.92	0.006	0.07	0.1	0.02	3.0	0.1	<0.05	6	0.9



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CERTIFICATE OF ANALYSIS

VAN09003882.1

	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 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	% 0.001
MC-117	Soil	1.6	27.4	8.9	54	0.2	18.7	5.9	219	2.79	7.1	0.4	13.5	2.2	10	0.1	0.4	0.2	89	0.12	0.054
MC-118	Soil	1.5	30.1	6.2	112	0.2	38.5	14.6	640	3.27	12.5	0.4	3.1	3.6	13	0.5	0.7	0.1	99	0.20	0.060
MC-119	Soil	1.2	26.5	8.7	53	0.2	26.3	9.7	194	2.87	10.7	0.6	2.0	3.4	13	<0.1	0.6	0.1	74	0.13	0.029
MC-120	Soil	1.6	70.5	9.4	123	<0.1	137.2	23.7	753	4.65	14.6	0.6	1.8	4.3	18	0.3	0.4	0.1	145	0.34	0.077
MC-121	Soil	1.6	75.9	9.7	129	<0.1	152.1	24.9	769	4.77	15.6	0.6	2.6	4.5	19	0.3	0.5	0.1	153	0.32	0.076
MC-122	Soil	1.2	20.0	7.9	67	0.1	39.9	10.5	489	2.88	8.5	0.6	1.9	2.8	23	0.2	0.5	0.1	68	0.39	0.040
MC-123	Soil	0.8	27.3	8.5	80	0.2	55.0	15.1	685	3.27	8.6	0.7	1.8	3.7	17	0.2	0.5	0.2	85	0.24	0.041
MC-124	Soil	1.8	76.1	8.9	111	0.2	71.9	16.9	629	3.99	7.5	0.8	0.9	6.7	23	0.2	0.4	0.2	120	0.39	0.079
MC-125	Soil	0.9	38.1	8.9	68	0.2	38.2	16.7	320	2.90	9.1	0.5	1.2	3.2	14	0.1	0.6	0.2	71	0.17	0.036
MC-126	Soil	1.4	22.1	8.9	47	0.1	26.4	10.6	583	2.79	9.9	0.4	0.6	2.4	10	0.2	0.4	0.2	68	0.13	0.056
MC-127	Soil	1.4	33.0	8.5	86	0.1	25.4	13.0	1627	3.28	7.9	0.4	<0.5	2.5	28	0.2	0.4	0.2	76	0.39	0.066
MC-128	Soil	1.4	123.5	4.2	94	<0.1	110.0	28.3	730	6.26	6.5	0.5	1.5	3.2	13	0.1	0.2	<0.1	165	0.39	0.121
MC-129	Soil	0.9	26.8	7.8	86	0.2	41.4	17.6	412	3.21	6.2	0.4	1.3	2.3	13	0.3	0.4	0.1	94	0.18	0.058
MC-130	Soil	1.5	105.7	4.7	105	0.2	71.5	16.5	1229	4.12	4.0	0.3	1.3	3.7	20	0.2	0.3	<0.1	113	0.28	0.116
MC-131	Soil	1.0	16.5	7.4	63	0.1	25.2	15.7	808	2.56	6.1	0.3	0.8	2.1	16	0.2	0.4	0.1	67	0.23	0.053
MC-132	Soil	1.7	59.5	6.1	104	0.4	84.9	16.7	490	4.08	6.3	0.6	2.5	2.5	21	0.3	0.3	<0.1	144	0.39	0.095
MC-133	Soil	1.1	27.7	6.5	95	0.3	29.7	14.9	463	3.39	6.5	0.4	1.3	2.3	16	0.2	0.4	0.1	107	0.22	0.052
MC-134	Soil	0.8	12.9	5.9	61	<0.1	17.2	15.5	427	3.10	3.2	0.2	1.2	1.9	20	<0.1	0.3	<0.1	73	0.27	0.031
MC-135	Soil	1.6	46.9	5.9	78	0.2	63.7	16.3	431	3.43	6.2	0.4	0.5	3.0	20	0.2	0.4	0.1	110	0.32	0.067
MC-136	Soil	1.0	18.3	8.1	62	0.3	28.9	10.8	353	2.84	8.5	0.4	0.9	3.4	20	0.2	0.5	0.1	68	0.24	0.038
MC-137	Soil	1.0	44.3	6.3	78	<0.1	75.5	13.1	337	3.33	7.4	0.6	1.2	3.6	16	0.1	0.4	0.1	100	0.22	0.054
MC-138	Soil	1.1	23.2	9.8	64	0.1	37.5	12.1	429	2.97	8.8	0.5	0.6	3.0	16	0.2	0.5	0.1	77	0.21	0.037
MC-139	Soil	1.1	84.2	20.1	114	<0.1	99.1	22.9	1141	5.23	6.9	1.6	5.0	9.5	37	0.3	0.5	0.1	116	0.51	0.098
MC-140	Soil	0.6	101.6	5.4	42	0.1	153.3	22.9	324	2.81	5.5	0.6	3.5	2.7	20	<0.1	0.3	<0.1	53	0.35	0.036
MC-141	Soil	0.6	99.6	5.6	43	<0.1	143.0	22.2	349	2.64	5.3	0.7	2.7	3.1	20	0.1	0.3	<0.1	57	0.36	0.038



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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
MC-117	Soil	10	49	0.38	437	0.058	<1	1.61	0.006	0.15	0.2	0.02	2.4	0.1	<0.05	6	<0.5
MC-118	Soil	13	54	0.45	472	0.053	<1	1.61	0.005	0.08	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5
MC-119	Soil	10	51	0.42	411	0.069	<1	2.00	0.007	0.10	0.2	0.01	3.4	0.1	<0.05	5	<0.5
MC-120	Soil	17	190	1.90	801	0.140	1	2.99	0.007	0.50	<0.1	<0.01	8.4	0.4	<0.05	9	<0.5
MC-121	Soil	19	204	1.93	854	0.143	3	3.08	0.007	0.54	<0.1	<0.01	9.0	0.3	<0.05	10	1.0
MC-122	Soil	8	60	0.71	549	0.096	1	1.77	0.011	0.17	0.1	<0.01	2.5	0.1	<0.05	5	<0.5
MC-123	Soil	9	84	0.92	688	0.132	1	1.99	0.009	0.35	0.1	0.01	4.6	0.1	<0.05	6	<0.5
MC-124	Soil	16	84	1.15	725	0.133	<1	2.55	0.008	0.62	<0.1	<0.01	5.1	0.3	<0.05	9	<0.5
MC-125	Soil	10	45	0.43	217	0.081	<1	1.91	0.007	0.08	0.1	0.02	3.2	<0.1	<0.05	5	<0.5
MC-126	Soil	9	36	0.36	244	0.061	1	1.75	0.007	0.07	0.1	<0.01	2.1	<0.1	<0.05	6	<0.5
MC-127	Soil	8	34	0.42	425	0.085	1	1.86	0.009	0.21	<0.1	<0.01	2.4	0.1	<0.05	7	<0.5
MC-128	Soil	17	145	2.35	269	0.175	<1	2.95	0.007	0.32	0.1	<0.01	7.2	0.3	<0.05	13	<0.5
MC-129	Soil	8	66	0.81	439	0.092	<1	2.10	0.007	0.19	0.1	<0.01	3.3	0.1	<0.05	8	0.6
MC-130	Soil	10	95	1.37	517	0.161	<1	2.28	0.007	0.61	<0.1	<0.01	5.5	0.3	<0.05	10	0.5
MC-131	Soil	8	39	0.40	580	0.067	<1	1.58	0.007	0.08	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5
MC-132	Soil	11	135	1.39	954	0.135	<1	2.31	0.010	0.65	<0.1	0.01	8.7	0.3	<0.05	9	1.2
MC-133	Soil	9	56	0.81	494	0.120	1	2.19	0.007	0.28	0.2	0.01	4.3	0.1	<0.05	8	<0.5
MC-134	Soil	7	29	0.74	353	0.102	<1	2.04	0.010	0.21	<0.1	<0.01	2.7	0.1	<0.05	6	<0.5
MC-135	Soil	11	94	1.01	706	0.124	1	2.02	0.008	0.43	<0.1	<0.01	4.8	0.2	<0.05	7	0.7
MC-136	Soil	10	40	0.44	496	0.077	<1	1.71	0.008	0.14	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5
MC-137	Soil	14	105	1.15	708	0.141	<1	1.97	0.008	0.50	0.1	<0.01	4.6	0.2	<0.05	6	<0.5
MC-138	Soil	9	55	0.73	501	0.100	<1	1.80	0.009	0.21	0.1	<0.01	2.8	0.1	<0.05	6	<0.5
MC-139	Soil	25	118	1.54	696	0.133	<1	3.03	0.007	0.55	<0.1	0.01	7.9	0.3	<0.05	10	<0.5
MC-140	Soil	10	159	1.18	255	0.078	<1	1.49	0.008	0.10	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5
MC-141	Soil	12	151	1.11	262	0.083	<1	1.50	0.009	0.10	0.1	0.02	4.3	<0.1	<0.05	5	0.5



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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	2	0.01	0.001
Pulp Duplicates																					
MH-115	Soil	1.3	37.9	9.9	103	0.3	34.9	12.5	959	3.65	5.4	0.5	2.8	3.4	59	0.4	0.3	0.2	114	0.76	0.120
REP MH-115	QC	1.3	39.4	10.0	106	0.3	34.0	12.1	1012	3.69	5.5	0.5	1.2	3.5	58	0.5	0.3	0.2	115	0.76	0.127
MH-133	Soil	2.0	89.7	5.6	92	0.1	56.6	19.7	712	4.51	5.9	0.7	1.4	4.0	16	0.2	0.3	<0.1	155	0.22	0.072
REP MH-133	QC	2.0	87.6	5.5	90	<0.1	54.7	19.7	695	4.32	5.9	0.7	0.9	3.8	16	0.2	0.3	<0.1	151	0.21	0.071
MC-110	Soil	1.0	22.8	7.4	105	0.1	50.0	19.5	494	3.09	5.8	0.4	0.7	2.4	20	0.4	0.4	0.2	70	0.27	0.053
REP MC-110	QC	1.0	24.0	7.8	112	0.1	52.1	20.0	513	3.15	5.9	0.4	3.1	2.5	20	0.4	0.5	0.1	73	0.28	0.051
MC-123	Soil	0.8	27.3	8.5	80	0.2	55.0	15.1	685	3.27	8.6	0.7	1.8	3.7	17	0.2	0.5	0.2	85	0.24	0.041
REP MC-123	QC	0.8	28.8	8.4	82	0.2	52.8	14.4	644	3.18	8.3	0.6	1.2	3.6	17	0.2	0.5	0.1	79	0.23	0.043
MC-129	Soil	0.9	26.8	7.8	86	0.2	41.4	17.6	412	3.21	6.2	0.4	1.3	2.3	13	0.3	0.4	0.1	94	0.18	0.058
REP MC-129	QC	1.0	24.7	7.3	81	0.2	39.1	17.0	402	3.06	5.7	0.3	0.6	2.3	13	0.2	0.4	0.1	90	0.18	0.058
Reference Materials																					
STD DS7	Standard	19.8	108.5	64.3	400	0.7	58.9	9.5	590	2.35	46.9	4.0	59.7	3.9	59	5.7	4.9	4.0	83	0.89	0.070
STD DS7	Standard	20.2	107.5	62.4	395	0.8	55.5	9.5	619	2.36	52.7	4.5	71.3	4.0	72	6.5	5.6	4.5	83	0.96	0.074
STD DS7	Standard	21.8	118.9	77.3	422	0.8	61.5	10.2	625	2.50	52.6	5.2	69.4	5.0	88	6.5	6.6	5.3	92	1.02	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
BLK	Blank	<0.1	0.7	<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	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
Pulp Duplicates																	
MH-115	Soil	13	72	0.96	1028	0.197	1	1.90	0.013	0.38	<0.1	<0.01	4.8	0.2	<0.05	9	<0.5
REP MH-115	QC	13	75	0.94	1027	0.200	1	1.87	0.013	0.38	<0.1	0.01	4.8	0.2	<0.05	10	0.7
MH-133	Soil	15	89	0.79	579	0.147	<1	1.99	0.009	0.35	0.1	0.03	7.8	0.2	<0.05	7	1.1
REP MH-133	QC	15	86	0.78	530	0.142	<1	1.91	0.010	0.34	0.1	0.02	7.7	0.2	<0.05	7	1.2
MC-110	Soil	8	74	0.75	409	0.100	1	2.23	0.011	0.10	0.1	<0.01	3.5	<0.1	<0.05	7	<0.5
REP MC-110	QC	9	77	0.75	418	0.105	1	2.21	0.012	0.10	0.1	<0.01	3.4	<0.1	<0.05	8	<0.5
MC-123	Soil	9	84	0.92	688	0.132	1	1.99	0.009	0.35	0.1	0.01	4.6	0.1	<0.05	6	<0.5
REP MC-123	QC	9	77	0.91	669	0.128	<1	2.00	0.008	0.33	0.2	0.01	4.5	0.2	<0.05	6	<0.5
MC-129	Soil	8	66	0.81	439	0.092	<1	2.10	0.007	0.19	0.1	<0.01	3.3	0.1	<0.05	8	0.6
REP MC-129	QC	8	62	0.76	420	0.093	<1	2.00	0.007	0.19	0.1	<0.01	3.0	0.1	<0.05	7	<0.5
Reference Materials																	
STD DS7	Standard	11	179	0.98	380	0.115	37	0.92	0.082	0.41	3.8	0.18	1.9	4.0	0.16	4	3.4
STD DS7	Standard	12	181	0.93	388	0.115	40	0.92	0.087	0.42	3.7	0.18	2.5	4.4	0.20	5	3.6
STD DS7	Standard	14	196	1.06	419	0.147	40	1.03	0.095	0.45	4.1	0.18	2.7	4.3	0.21	5	4.0
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
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