



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 28, 2009
Report Date: September 18, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09004070.1

CLIENT JOB INFORMATION

Project: MCK
Shipment ID:
P.O. Number
Number of Samples: 79

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: Rob McLeod
Adrian Fleming

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	79	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	79	Dry at 60C			VAN
1DX15	79	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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	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
MCK 60316	Soil																							
MCK 60317	Soil																							
MCK 60318	Soil																							
MCK 60319	Soil																							
MCK 60320	Soil																							
MCK 60321	Soil																							
MCK 60322	Soil																							
MCK 60323	Soil																							
MCK 60324	Soil																							
MCK 60325	Soil																							
MCK 60326	Soil																							
MCK 60327	Soil																							
MCK 60328	Soil																							
MCK 60329	Soil																							
MCK 60330	Soil																							
MCK 60331	Soil																							
MCK 60332	Soil																							
MCK 60333	Soil																							
MCK 60334	Soil																							
MCK 60335	Soil																							
MCK 60336	Soil																							
MCK 60337	Soil																							
MCK 60338	Soil																							
MCK 60339	Soil																							
MCK 60340	Soil																							
MCK 60341	Soil																							
MCK 60342	Soil																							
MCK 60343	Soil																							
MCK 60344	Soil																							
MCK 60346	Soil																							



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Page: 2 of 4 **Part** 2

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
MCK 60316	Soil	6	44	1.57	324	0.124	2	1.91	0.021	0.29	<0.1	0.02	5.5	0.2	<0.05	6	<0.5
MCK 60317	Soil	9	34	1.42	271	0.134	2	2.15	0.022	0.30	<0.1	0.02	4.3	0.1	<0.05	6	<0.5
MCK 60318	Soil	11	39	0.80	387	0.102	2	1.61	0.023	0.11	0.1	0.05	5.5	<0.1	<0.05	5	0.5
MCK 60319	Soil	8	49	0.79	382	0.087	2	1.23	0.023	0.15	0.1	0.04	4.0	<0.1	<0.05	4	<0.5
MCK 60320	Soil	8	95	1.74	962	0.256	1	2.43	0.015	1.02	0.1	0.01	6.0	0.3	<0.05	9	<0.5
MCK 60321	Soil	12	35	0.87	602	0.126	2	1.63	0.025	0.25	0.2	0.04	4.9	0.1	<0.05	5	<0.5
MCK 60322	Soil	11	43	0.87	567	0.123	1	1.55	0.023	0.14	0.2	0.02	3.9	<0.1	<0.05	5	<0.5
MCK 60323	Soil	9	43	0.76	315	0.094	2	1.36	0.028	0.07	0.1	0.04	4.5	<0.1	<0.05	5	0.8
MCK 60324	Soil	5	34	0.63	236	0.091	1	1.27	0.025	0.07	0.1	0.02	3.1	<0.1	<0.05	4	<0.5
MCK 60325	Soil	3	13	1.66	539	0.225	1	2.35	0.030	1.15	<0.1	0.03	7.9	0.4	<0.05	7	<0.5
MCK 60326	Soil	4	68	0.89	204	0.077	2	1.37	0.026	0.15	<0.1	0.07	7.9	0.1	<0.05	5	<0.5
MCK 60327	Soil	10	30	0.69	435	0.096	2	1.47	0.032	0.13	<0.1	0.04	5.2	<0.1	<0.05	5	<0.5
MCK 60328	Soil	8	33	0.68	274	0.095	2	1.19	0.033	0.10	0.2	0.02	3.6	<0.1	<0.05	4	<0.5
MCK 60329	Soil	10	37	0.78	365	0.093	1	1.59	0.034	0.06	0.1	0.02	4.8	<0.1	<0.05	5	<0.5
MCK 60330	Soil	6	45	0.64	168	0.060	<1	1.27	0.018	0.03	0.1	0.04	3.3	<0.1	<0.05	4	<0.5
MCK 60331	Soil	8	41	0.71	298	0.068	2	1.27	0.022	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5
MCK 60332	Soil	9	35	0.70	381	0.079	2	1.41	0.019	0.05	0.2	0.04	4.0	<0.1	<0.05	5	<0.5
MCK 60333	Soil	9	30	0.66	422	0.077	1	1.37	0.023	0.06	0.1	0.04	4.2	<0.1	<0.05	5	<0.5
MCK 60334	Soil	10	52	0.87	320	0.085	2	1.54	0.027	0.08	0.1	0.07	6.0	0.1	<0.05	5	0.6
MCK 60335	Soil	11	30	0.66	471	0.082	2	1.49	0.027	0.06	0.2	0.05	4.8	<0.1	<0.05	5	0.6
MCK 60336	Soil	8	26	0.67	474	0.070	2	1.38	0.028	0.07	0.1	0.07	5.0	<0.1	<0.05	5	<0.5
MCK 60337	Soil	24	63	0.90	341	0.096	2	2.00	0.017	0.11	0.2	0.03	6.4	0.1	<0.05	7	0.6
MCK 60338	Soil	24	116	1.61	817	0.186	1	2.49	0.014	0.44	0.2	<0.01	7.2	0.3	<0.05	9	0.7
MCK 60339	Soil	29	52	0.88	754	0.119	1	2.16	0.017	0.11	0.2	0.02	5.5	0.2	<0.05	6	0.7
MCK 60340	Soil	9	26	0.69	473	0.076	2	1.43	0.026	0.08	0.1	0.05	5.3	<0.1	<0.05	5	<0.5
MCK 60341	Soil	20	63	1.25	488	0.134	2	2.06	0.009	0.42	0.8	<0.01	6.8	0.3	<0.05	8	<0.5
MCK 60342	Soil	19	40	0.78	179	0.116	2	2.35	0.014	0.16	0.1	0.02	3.7	0.2	<0.05	6	0.8
MCK 60343	Soil	21	37	0.68	140	0.107	1	1.95	0.011	0.12	0.1	0.02	3.1	0.2	<0.05	7	<0.5
MCK 60344	Soil	48	48	0.98	185	0.151	1	2.48	0.013	0.44	0.1	0.02	4.0	0.3	<0.05	9	<0.5
MCK 60346	Soil	67	42	1.01	195	0.160	1	2.26	0.013	0.50	<0.1	<0.01	3.3	0.3	<0.05	7	0.5



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			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
MCK 60347	Soil	0.9	28.9	9.6	69	<0.1	32.3	18.0	524	3.34	4.8	1.3	0.6	8.2	17	<0.1	0.2	0.2	72	0.24	0.068	
MCK 60350	Soil	0.9	29.7	8.2	75	<0.1	33.9	14.1	334	3.33	5.8	1.4	2.2	9.2	19	<0.1	0.3	0.2	63	0.27	0.070	
MCK 60353	Soil	1.5	39.2	12.3	78	<0.1	40.2	17.2	366	4.31	7.4	1.2	<0.5	7.8	18	<0.1	0.4	0.2	84	0.21	0.064	
MCK 60354	Soil	1.5	44.3	13.2	82	<0.1	41.1	21.5	638	4.13	6.7	1.0	1.2	9.8	15	0.1	0.4	0.3	76	0.17	0.029	
MCK 60355	Soil	0.7	34.1	9.3	50	<0.1	28.4	11.1	234	2.89	8.0	1.2	4.6	6.9	21	<0.1	0.3	0.2	57	0.29	0.039	
MCK 60359	Soil	0.4	46.2	3.6	49	<0.1	16.0	12.4	251	2.88	3.3	0.4	3.7	1.8	18	<0.1	0.2	<0.1	89	0.31	0.044	
MCK 60364	Soil	0.8	16.1	6.1	48	<0.1	30.8	7.7	135	2.00	2.7	1.5	4.2	3.6	14	<0.1	0.1	0.1	43	0.24	0.054	
MCK 60365	Soil	0.8	14.6	6.7	46	<0.1	36.2	8.4	167	2.12	3.2	1.2	5.2	4.2	13	0.1	0.1	0.1	41	0.23	0.055	
MCK 60434	Soil	1.8	26.4	8.0	61	<0.1	28.7	10.1	148	2.89	3.4	1.2	1.6	7.4	11	<0.1	0.1	0.2	59	0.18	0.037	
MCK 60435	Soil	1.2	35.4	8.8	66	<0.1	39.1	15.4	313	3.29	5.3	1.7	2.3	10.1	14	<0.1	0.2	0.2	61	0.23	0.048	
MCK 60436	Soil	1.5	33.3	9.3	69	<0.1	48.5	18.3	301	3.63	5.0	1.9	1.1	8.6	14	<0.1	0.2	0.2	70	0.24	0.066	
MCK 60437	Soil	0.7	25.5	5.5	58	<0.1	35.7	15.1	212	2.99	3.9	0.9	1.1	10.4	11	<0.1	0.2	0.2	52	0.21	0.053	
MCK 60438	Soil	1.1	34.9	9.2	72	<0.1	21.7	10.3	184	3.82	2.4	1.7	1.0	11.1	27	<0.1	0.1	0.2	46	0.10	0.042	
MCK 60439	Soil	1.5	30.7	10.7	71	<0.1	19.4	10.2	275	3.25	4.3	1.5	1.1	8.8	16	<0.1	0.2	0.2	55	0.12	0.045	
MCK 60440	Soil	0.6	28.8	8.7	54	<0.1	28.6	12.3	239	2.81	6.9	0.8	3.2	6.6	18	<0.1	0.4	0.2	60	0.24	0.029	
MCK 60441	Soil	0.6	27.3	8.3	57	<0.1	37.4	13.8	230	3.23	6.1	1.2	1.8	10.4	12	<0.1	0.3	0.2	55	0.15	0.037	
MCK 60442	Soil	1.0	54.1	12.8	92	<0.1	48.4	18.7	554	4.38	0.6	2.1	1.2	14.5	26	<0.1	<0.1	0.3	72	0.46	0.084	
MCK 60443	Soil	0.8	24.2	8.1	55	<0.1	30.4	12.9	241	2.92	5.9	1.4	2.4	7.9	17	<0.1	0.3	0.2	61	0.26	0.057	
MCK 60444	Soil	0.8	24.9	8.3	55	<0.1	29.6	13.2	254	3.03	6.3	1.4	2.0	8.0	16	<0.1	0.3	0.2	63	0.26	0.056	
MCK 60445	Soil	1.1	28.2	7.1	71	<0.1	46.3	18.7	252	3.52	2.6	1.8	1.4	12.9	12	<0.1	<0.1	0.2	52	0.26	0.072	
MCK 60446	Soil	1.2	29.0	8.6	69	<0.1	31.9	14.5	238	3.22	4.1	2.0	2.2	9.6	17	<0.1	0.2	0.2	58	0.22	0.055	
MCK 60447	Soil	0.9	33.7	6.4	58	<0.1	54.1	18.9	375	3.55	3.2	0.9	1.3	5.5	17	<0.1	0.1	0.1	73	0.52	0.173	
MCK 60448	Soil	1.7	23.6	11.8	54	0.2	24.0	19.2	654	2.88	5.2	1.3	2.2	5.3	14	<0.1	0.2	0.2	65	0.20	0.053	
MCK 60450	Soil	0.8	21.7	7.2	54	<0.1	29.3	11.4	197	2.66	3.7	1.3	1.4	7.4	14	<0.1	0.2	0.1	49	0.27	0.054	
MCK 60451	Soil	1.6	19.9	9.6	56	0.1	38.2	14.7	250	3.09	4.6	1.2	1.0	5.7	14	<0.1	0.2	0.2	69	0.23	0.061	
MCK 60452	Soil	1.3	23.6	7.9	48	0.1	26.3	11.5	221	2.88	4.8	1.4	2.6	6.8	18	<0.1	0.2	0.2	62	0.22	0.047	
MCK 60453	Soil	2.4	33.9	4.0	37	<0.1	64.2	21.5	253	3.04	1.7	0.6	1.1	3.2	24	<0.1	<0.1	<0.1	82	0.63	0.214	
MCK 60454	Soil	1.0	19.9	8.4	51	0.1	27.6	10.0	175	2.89	5.1	1.0	1.3	6.5	14	<0.1	0.2	0.2	57	0.19	0.034	
MCK 60455	Soil	1.2	25.0	8.6	48	<0.1	40.1	14.1	205	2.90	5.0	1.1	2.1	5.4	19	0.1	0.2	0.1	67	0.34	0.068	
MCK 60456	Soil	2.2	26.5	6.7	48	0.1	36.0	17.4	479	3.16	3.3	1.1	1.5	4.8	20	<0.1	0.2	0.1	76	0.38	0.113	



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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
MCK 60347	Soil	31	41	1.06	173	0.160	1	2.21	0.013	0.40	<0.1	0.01	3.4	0.2	<0.05	8	<0.5
MCK 60350	Soil	30	44	1.01	146	0.123	<1	2.22	0.016	0.28	<0.1	0.02	3.3	0.3	<0.05	7	<0.5
MCK 60353	Soil	26	63	1.17	183	0.161	1	2.81	0.013	0.32	0.1	0.02	4.5	0.3	<0.05	9	<0.5
MCK 60354	Soil	14	53	1.11	181	0.147	1	2.97	0.013	0.26	0.1	<0.01	4.7	0.3	<0.05	8	<0.5
MCK 60355	Soil	24	36	0.77	215	0.093	<1	1.95	0.013	0.06	0.1	0.03	3.7	0.2	<0.05	6	<0.5
MCK 60359	Soil	6	35	1.11	282	0.148	<1	1.92	0.019	0.29	0.1	<0.01	3.6	0.2	<0.05	6	<0.5
MCK 60364	Soil	19	42	0.53	139	0.100	<1	1.38	0.009	0.13	0.1	0.02	2.7	0.1	<0.05	5	<0.5
MCK 60365	Soil	17	50	0.51	122	0.100	2	1.37	0.008	0.13	0.1	0.01	2.3	0.2	<0.05	5	<0.5
MCK 60434	Soil	20	34	0.87	106	0.141	1	1.79	0.009	0.33	<0.1	0.01	2.4	0.3	<0.05	7	<0.5
MCK 60435	Soil	59	43	0.94	194	0.129	2	2.30	0.010	0.31	0.1	0.02	3.8	0.3	<0.05	6	<0.5
MCK 60436	Soil	50	48	1.11	181	0.142	<1	2.38	0.012	0.52	0.1	0.01	4.1	0.4	<0.05	8	<0.5
MCK 60437	Soil	26	39	1.02	164	0.149	2	2.13	0.011	0.49	<0.1	0.02	3.2	0.4	<0.05	7	<0.5
MCK 60438	Soil	39	40	1.02	166	0.143	1	2.19	0.024	0.68	<0.1	<0.01	3.6	0.5	0.32	7	<0.5
MCK 60439	Soil	20	38	0.95	170	0.137	<1	2.18	0.012	0.51	<0.1	0.01	3.6	0.4	0.09	8	<0.5
MCK 60440	Soil	21	35	0.58	207	0.104	<1	1.92	0.010	0.10	<0.1	0.02	3.7	0.2	<0.05	5	<0.5
MCK 60441	Soil	31	39	0.86	171	0.149	2	2.34	0.008	0.31	0.1	0.01	3.4	0.3	<0.05	7	<0.5
MCK 60442	Soil	52	66	1.66	421	0.194	<1	2.93	0.011	0.97	<0.1	<0.01	6.1	0.6	<0.05	11	0.9
MCK 60443	Soil	25	35	0.82	190	0.107	1	1.93	0.010	0.21	0.1	0.02	3.5	0.2	<0.05	6	<0.5
MCK 60444	Soil	26	37	0.85	203	0.109	2	1.98	0.010	0.22	0.2	0.02	3.8	0.2	<0.05	7	<0.5
MCK 60445	Soil	35	46	1.29	160	0.194	1	2.48	0.011	0.88	<0.1	<0.01	3.5	0.6	<0.05	8	0.6
MCK 60446	Soil	35	41	1.05	159	0.144	2	2.23	0.015	0.45	0.1	0.01	3.5	0.4	<0.05	7	<0.5
MCK 60447	Soil	26	91	1.76	312	0.188	<1	2.66	0.012	0.64	<0.1	<0.01	3.5	0.3	<0.05	9	<0.5
MCK 60448	Soil	25	37	0.60	139	0.099	<1	1.70	0.009	0.11	0.2	0.01	3.1	0.1	<0.05	8	<0.5
MCK 60450	Soil	29	36	0.85	140	0.125	1	1.71	0.010	0.30	0.1	0.01	3.1	0.3	<0.05	6	<0.5
MCK 60451	Soil	16	44	1.07	161	0.158	2	2.04	0.010	0.47	<0.1	<0.01	3.6	0.3	<0.05	8	<0.5
MCK 60452	Soil	31	40	0.85	160	0.137	1	1.76	0.011	0.26	<0.1	0.02	3.3	0.2	<0.05	7	<0.5
MCK 60453	Soil	26	111	1.75	146	0.231	<1	2.28	0.014	0.57	<0.1	<0.01	2.3	0.2	<0.05	7	<0.5
MCK 60454	Soil	20	34	0.64	125	0.128	<1	1.83	0.009	0.21	<0.1	0.02	2.6	0.3	<0.05	6	<0.5
MCK 60455	Soil	27	60	1.11	159	0.151	1	2.01	0.013	0.25	<0.1	0.02	3.8	0.2	<0.05	7	0.6
MCK 60456	Soil	21	42	1.17	155	0.185	<1	1.98	0.012	0.51	0.1	0.02	3.3	0.3	<0.05	7	<0.5



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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	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
MCK 60457	Soil	1.1	29.7	7.9	65	<0.1	33.0	13.0	296	3.00	4.4	1.9	2.8	10.2	18	<0.1	0.3	0.1	51	0.35	0.062
MCK 60458	Soil	1.5	25.4	9.6	54	0.2	25.9	10.0	146	2.99	4.7	1.2	0.5	6.8	14	<0.1	0.3	0.2	65	0.15	0.025
MCK 60459	Soil	1.6	37.2	8.8	73	<0.1	50.1	19.9	398	3.73	3.9	1.4	0.8	8.2	18	<0.1	0.2	0.2	72	0.25	0.045
MCK 60460	Soil	0.9	24.6	8.6	61	<0.1	29.1	12.4	195	3.31	4.6	1.5	1.3	9.1	13	<0.1	0.3	0.2	51	0.15	0.033
MCK 60461	Soil	1.1	28.7	7.4	57	<0.1	31.4	12.0	255	2.79	4.1	1.6	2.9	5.9	23	<0.1	0.3	0.1	58	0.35	0.070
MCK 60462	Soil	1.2	20.2	8.3	56	0.1	30.9	14.0	201	2.83	7.2	1.0	1.7	6.4	13	<0.1	0.4	0.1	54	0.16	0.032
MCK 60463	Soil	1.4	30.3	10.2	51	0.1	32.8	12.3	273	3.00	5.2	1.2	2.5	6.3	18	<0.1	0.3	0.2	57	0.27	0.042
MCK 60464	Soil	0.7	19.1	6.7	45	<0.1	24.7	9.6	221	2.42	4.1	1.1	3.0	5.5	18	<0.1	0.2	0.1	54	0.32	0.064
MCK 60465	Soil	0.7	26.2	7.5	53	<0.1	30.1	13.1	258	2.86	5.7	1.3	2.7	7.3	17	<0.1	0.3	0.1	59	0.30	0.064
MCK 60466	Soil	1.1	35.4	8.5	60	<0.1	36.9	14.6	261	3.17	3.4	1.1	1.6	7.6	12	<0.1	0.2	0.2	59	0.25	0.062
MCK 60467	Soil	0.8	35.2	8.4	61	<0.1	37.5	14.6	257	3.24	3.3	1.1	2.1	7.6	12	<0.1	0.1	0.2	59	0.22	0.057
MCK 67001	Soil	1.0	21.8	7.2	50	<0.1	26.6	11.9	214	2.72	4.5	1.2	1.6	7.0	16	<0.1	0.2	0.1	51	0.23	0.038
MCK 67002	Soil	2.0	35.9	6.5	74	<0.1	33.5	14.9	200	3.49	1.8	2.0	0.8	12.8	21	<0.1	0.1	0.3	56	0.21	0.066
MCK 67003	Soil	1.1	19.8	6.6	51	<0.1	24.0	9.9	179	2.68	4.8	1.1	1.2	5.7	16	<0.1	0.3	0.1	54	0.26	0.045
MCK 67004	Soil	1.6	33.1	7.8	79	<0.1	37.6	14.9	415	3.65	1.8	1.9	0.9	10.7	18	<0.1	<0.1	0.2	60	0.40	0.091
MCK 67005	Soil	1.3	23.4	6.6	62	<0.1	31.6	12.5	277	2.91	3.5	1.3	<0.5	7.9	13	<0.1	0.1	0.2	53	0.27	0.081
MCK 67006	Soil	1.1	20.0	8.7	57	<0.1	27.1	9.9	199	2.74	3.8	0.8	1.6	4.1	15	<0.1	0.2	0.2	67	0.22	0.036
MCK 67012	Soil	1.4	38.0	11.9	103	0.2	31.7	15.0	815	3.49	3.8	2.3	1.7	13.7	23	0.2	0.2	0.3	66	0.40	0.053
MCK 67013	Soil	0.7	27.7	11.3	79	<0.1	40.0	13.9	362	3.79	3.6	1.3	1.0	9.9	14	<0.1	0.2	0.2	56	0.21	0.029



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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
MCK 60457	Soil	36	39	1.00	188	0.124	<1	1.89	0.011	0.24	<0.1	0.02	4.6	0.2	<0.05	7	<0.5
MCK 60458	Soil	30	34	0.80	151	0.130	<1	2.04	0.012	0.21	<0.1	0.02	2.9	0.2	<0.05	8	<0.5
MCK 60459	Soil	25	49	1.16	224	0.147	1	2.63	0.014	0.44	0.1	0.01	4.7	0.3	<0.05	8	0.5
MCK 60460	Soil	24	34	0.89	138	0.166	<1	2.23	0.009	0.39	0.1	0.01	3.3	0.3	<0.05	7	<0.5
MCK 60461	Soil	27	44	0.92	158	0.122	<1	1.77	0.012	0.22	0.1	0.01	4.0	0.2	<0.05	6	<0.5
MCK 60462	Soil	12	35	0.66	140	0.110	1	2.08	0.016	0.19	<0.1	0.02	2.6	0.2	<0.05	6	0.6
MCK 60463	Soil	26	35	0.83	150	0.124	2	1.93	0.010	0.14	0.1	0.02	3.5	0.2	<0.05	6	0.5
MCK 60464	Soil	20	35	0.67	145	0.104	2	1.52	0.011	0.13	0.1	0.02	3.1	0.1	<0.05	5	<0.5
MCK 60465	Soil	29	37	0.74	178	0.113	<1	1.88	0.011	0.18	<0.1	0.03	3.6	0.2	<0.05	6	<0.5
MCK 60466	Soil	22	47	1.09	143	0.123	<1	2.11	0.010	0.33	0.1	0.01	3.9	0.3	<0.05	8	<0.5
MCK 60467	Soil	22	47	1.08	143	0.125	<1	2.08	0.009	0.35	0.1	<0.01	3.9	0.3	<0.05	8	0.6
MCK 67001	Soil	24	37	0.79	131	0.126	<1	1.76	0.010	0.26	0.1	0.02	3.0	0.2	<0.05	6	<0.5
MCK 67002	Soil	43	49	1.29	164	0.193	<1	2.28	0.014	0.93	<0.1	<0.01	3.9	0.6	0.07	8	<0.5
MCK 67003	Soil	21	35	0.73	137	0.118	<1	1.67	0.010	0.13	0.1	0.01	2.8	0.1	<0.05	5	<0.5
MCK 67004	Soil	32	54	1.56	296	0.195	<1	2.50	0.011	0.86	<0.1	<0.01	4.0	0.5	<0.05	9	<0.5
MCK 67005	Soil	19	42	0.96	120	0.118	2	1.75	0.010	0.34	0.1	0.01	3.0	0.2	<0.05	7	<0.5
MCK 67006	Soil	16	40	0.73	139	0.158	1	1.61	0.011	0.19	<0.1	0.01	2.4	0.2	<0.05	8	<0.5
MCK 67012	Soil	42	43	1.10	394	0.110	3	2.13	0.014	0.26	0.1	0.01	4.7	0.2	<0.05	8	0.7
MCK 67013	Soil	21	43	1.08	133	0.187	2	2.36	0.009	0.64	0.1	<0.01	3.6	0.4	<0.05	8	<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	0.1	2	0.01
Pulp Duplicates																					
MCK 60332	Soil	0.7	32.6	6.1	61	<0.1	23.5	12.5	391	2.58	4.5	0.6	0.7	1.9	31	0.2	0.3	0.1	69	0.59	0.058
REP MCK 60332	QC	0.7	34.7	5.5	61	<0.1	23.6	13.0	397	2.62	4.9	0.6	5.3	2.0	30	0.2	0.3	0.1	71	0.60	0.057
MCK 60347	Soil	0.9	28.9	9.6	69	<0.1	32.3	18.0	524	3.34	4.8	1.3	0.6	8.2	17	<0.1	0.2	0.2	72	0.24	0.068
REP MCK 60347	QC	0.9	29.4	9.6	70	<0.1	30.9	19.0	520	3.34	4.6	1.3	<0.5	8.2	16	<0.1	0.2	0.2	72	0.24	0.066
MCK 60435	Soil	1.2	35.4	8.8	66	<0.1	39.1	15.4	313	3.29	5.3	1.7	2.3	10.1	14	<0.1	0.2	0.2	61	0.23	0.048
REP MCK 60435	QC	1.2	34.0	9.0	67	<0.1	39.3	15.6	330	3.34	5.6	1.7	0.7	10.3	14	<0.1	0.2	0.2	60	0.23	0.046
MCK 60459	Soil	1.6	37.2	8.8	73	<0.1	50.1	19.9	398	3.73	3.9	1.4	0.8	8.2	18	<0.1	0.2	0.2	72	0.25	0.045
REP MCK 60459	QC	1.7	35.6	9.0	71	<0.1	48.0	20.2	393	3.70	4.1	1.4	1.6	8.4	18	<0.1	0.2	0.2	70	0.25	0.046
MCK 67004	Soil	1.6	33.1	7.8	79	<0.1	37.6	14.9	415	3.65	1.8	1.9	0.9	10.7	18	<0.1	<0.1	0.2	60	0.40	0.091
REP MCK 67004	QC	1.5	33.1	7.8	76	<0.1	37.4	14.8	419	3.66	2.0	1.8	1.3	10.5	18	<0.1	0.1	0.2	61	0.41	0.091
Reference Materials																					
STD DS7	Standard	19.9	116.1	77.5	406	0.8	56.9	9.5	621	2.40	53.4	5.3	69.6	4.8	79	6.1	6.2	4.9	82	0.96	0.074
STD DS7	Standard	21.4	111.1	72.0	405	0.9	58.0	9.4	615	2.37	49.8	4.5	77.8	4.1	62	6.2	5.3	4.4	87	0.93	0.077
STD DS7	Standard	21.3	104.7	74.0	376	0.8	55.4	9.2	569	2.24	46.9	4.7	114.3	4.3	61	5.8	5.0	4.2	80	0.91	0.075
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	<0.1	<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	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																	
MCK 60332	Soil	9	35	0.70	381	0.079	2	1.41	0.019	0.05	0.2	0.04	4.0	<0.1	<0.05	5	<0.5
REP MCK 60332	QC	9	36	0.69	391	0.079	2	1.46	0.018	0.05	0.2	0.03	4.0	<0.1	<0.05	5	<0.5
MCK 60347	Soil	31	41	1.06	173	0.160	1	2.21	0.013	0.40	<0.1	0.01	3.4	0.2	<0.05	8	<0.5
REP MCK 60347	QC	31	42	1.01	173	0.161	<1	2.18	0.015	0.39	<0.1	0.01	3.2	0.3	<0.05	8	<0.5
MCK 60435	Soil	59	43	0.94	194	0.129	2	2.30	0.010	0.31	0.1	0.02	3.8	0.3	<0.05	6	<0.5
REP MCK 60435	QC	61	42	0.95	193	0.129	2	2.25	0.012	0.32	0.1	0.03	3.8	0.3	<0.05	7	<0.5
MCK 60459	Soil	25	49	1.16	224	0.147	1	2.63	0.014	0.44	0.1	0.01	4.7	0.3	<0.05	8	0.5
REP MCK 60459	QC	25	49	1.16	222	0.147	<1	2.59	0.016	0.43	0.1	0.01	4.7	0.3	<0.05	8	1.0
MCK 67004	Soil	32	54	1.56	296	0.195	<1	2.50	0.011	0.86	<0.1	<0.01	4.0	0.5	<0.05	9	<0.5
REP MCK 67004	QC	32	53	1.59	295	0.200	<1	2.51	0.011	0.87	0.1	<0.01	3.9	0.5	<0.05	9	0.5
Reference Materials																	
STD DS7	Standard	13	169	1.05	392	0.125	40	0.96	0.095	0.43	3.7	0.18	2.5	4.1	0.20	4	4.1
STD DS7	Standard	12	183	1.01	394	0.118	37	0.95	0.087	0.42	4.2	0.19	2.2	4.5	0.20	5	3.7
STD DS7	Standard	12	174	1.00	376	0.119	41	0.97	0.084	0.43	4.2	0.20	2.4	4.3	0.21	4	3.0
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