



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 15, 2009
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CERTIFICATE OF ANALYSIS

VAN09004023.1

CLIENT JOB INFORMATION

Project: MCK
Shipment ID:
P.O. Number
Number of Samples: 300

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	300	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	300	Dry at 60C			VAN
1DX2	300	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	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		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
MCK 51001	Soil	0.6	55.4	4.9	47	<0.1	20.4	11.7	358	2.31	3.8	0.7	5.4	1.8	30	0.1	0.3	0.1	66	0.67
MCK 51002	Soil	0.6	69.5	4.1	49	<0.1	30.6	15.6	251	2.47	3.3	0.5	3.3	1.5	21	0.1	0.2	0.1	76	0.41
MCK 51003	Soil	0.4	75.4	6.8	58	<0.1	63.4	21.4	326	3.08	2.2	0.3	2.2	1.0	21	<0.1	0.2	<0.1	92	0.52
MCK 51004	Soil	0.5	65.3	4.5	48	<0.1	28.1	14.0	264	2.49	4.0	0.4	2.0	1.7	19	<0.1	0.2	0.1	75	0.46
MCK 51005	Soil	0.5	89.4	4.6	50	<0.1	22.8	14.0	245	2.82	3.7	0.4	3.1	1.8	18	<0.1	0.3	0.1	90	0.34
MCK 51006	Soil	0.5	72.5	5.9	83	<0.1	22.0	15.4	450	3.29	4.0	0.8	3.2	3.1	27	0.1	0.4	0.1	91	0.58
MCK 51007	Soil	1.2	30.2	8.3	49	<0.1	26.0	12.1	249	3.38	7.7	1.2	3.4	6.3	18	<0.1	0.4	0.2	77	0.16
MCK 51008	Soil	0.9	25.6	7.7	52	<0.1	25.2	11.3	234	2.96	7.1	1.0	3.1	4.5	22	<0.1	0.4	0.2	63	0.25
MCK 51009	Soil	5.3	23.5	5.0	28	<0.1	4.7	4.5	180	3.55	1.9	3.5	<0.5	16.0	29	<0.1	0.2	0.3	32	0.11
MCK 51010	Soil	0.5	22.9	7.7	57	<0.1	26.6	12.1	242	3.03	3.4	1.4	1.7	11.8	18	<0.1	0.2	0.2	47	0.32
MCK 51012	Soil	1.0	35.3	7.6	65	<0.1	38.0	15.1	360	3.40	4.9	1.6	1.9	9.4	23	<0.1	0.3	0.2	64	0.27
MCK 51013	Soil	1.1	26.4	8.6	58	<0.1	27.8	12.2	269	3.12	8.1	1.2	2.6	5.7	19	<0.1	0.4	0.2	70	0.24
MCK 51014	Soil	0.9	28.3	7.8	57	<0.1	28.2	13.2	308	2.96	6.6	1.2	5.9	8.0	18	<0.1	0.4	0.2	57	0.21
MCK 51015	Soil	1.1	18.2	8.6	45	<0.1	20.0	8.7	163	2.88	7.1	1.0	1.3	4.2	15	<0.1	0.4	0.2	61	0.17
MCK 51016	Soil	0.8	25.9	7.4	52	<0.1	27.9	11.8	244	3.15	6.9	1.1	2.2	4.7	23	<0.1	0.3	0.2	68	0.27
MCK 51017	Soil	1.1	26.6	8.2	44	<0.1	22.1	9.4	172	2.76	5.5	1.7	1.6	2.4	18	0.1	0.3	0.2	60	0.18
MCK 51018	Soil	0.9	26.7	7.5	65	<0.1	34.2	13.1	302	3.45	6.1	1.2	1.8	6.1	20	<0.1	0.3	0.2	73	0.23
MCK 51019	Soil	1.1	49.4	7.6	71	<0.1	49.1	21.3	518	3.85	5.8	1.4	1.8	7.8	21	<0.1	0.3	0.2	98	0.39
MCK 51020	Soil	0.9	25.6	7.3	62	<0.1	36.4	13.3	269	3.39	6.1	0.9	2.8	6.3	16	<0.1	0.3	0.1	65	0.19
MCK 51021	Soil	1.2	14.5	8.8	39	<0.1	15.2	6.3	148	2.55	6.2	0.7	2.8	5.0	12	<0.1	0.3	0.2	71	0.11
MCK 51022	Soil	0.6	26.7	9.1	65	<0.1	33.4	13.3	303	3.13	5.6	1.0	2.2	8.2	16	<0.1	0.3	0.2	58	0.21
MCK 51023	Soil	0.9	31.0	10.9	72	<0.1	29.1	12.4	343	3.26	6.3	1.6	3.8	8.9	20	0.1	0.3	0.3	62	0.25
MCK 51024	Soil	0.9	28.3	13.4	71	0.1	33.1	13.7	414	3.48	7.3	1.5	6.5	6.1	23	<0.1	0.3	0.3	75	0.35
MCK 51025	Soil	1.4	36.3	11.4	81	<0.1	37.8	18.2	628	3.56	6.0	1.4	2.2	6.4	23	0.1	0.3	0.2	75	0.33
MCK 51027	Soil	4.0	45.8	46.4	182	0.1	36.6	11.7	473	2.98	5.3	3.2	1.1	21.6	22	0.4	0.3	0.7	66	0.33
MCK 51028	Soil	2.6	27.3	16.6	72	0.2	26.4	12.1	483	2.87	5.2	2.9	4.6	12.9	34	0.3	0.3	0.3	73	0.69
MCK 51030	Soil	1.6	21.0	11.4	68	0.1	22.6	11.9	566	2.81	4.4	2.4	1.9	9.4	25	0.1	0.3	0.3	55	0.49
MCK 51031	Soil	1.9	21.4	8.3	57	0.1	16.7	10.0	369	2.89	4.7	1.5	2.3	7.5	25	0.1	0.2	0.2	53	0.47
MCK 51032	Soil	1.4	15.4	9.7	61	<0.1	19.1	10.3	659	2.92	7.5	1.1	0.8	9.7	22	0.1	0.4	0.2	65	0.27
MCK 51033	Soil	0.8	26.3	8.5	57	0.2	27.1	13.9	654	2.65	4.2	3.1	4.4	8.4	22	0.1	0.2	0.2	50	0.34



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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 51001	Soil	9	35	0.73	323	0.086	2	1.52	0.021	0.05	0.2	0.04	4.2	<0.1	<0.05	4	<0.5
MCK 51002	Soil	6	57	0.97	213	0.096	2	1.64	0.022	0.06	0.1	0.04	4.6	<0.1	<0.05	5	<0.5
MCK 51003	Soil	5	99	1.62	224	0.123	1	1.88	0.027	0.22	<0.1	0.01	5.1	0.1	<0.05	6	<0.5
MCK 51004	Soil	7	45	0.77	207	0.096	1	1.62	0.017	0.09	0.1	0.02	3.9	<0.1	<0.05	5	<0.5
MCK 51005	Soil	6	45	0.95	186	0.105	1	1.90	0.017	0.09	0.1	0.02	4.7	<0.1	<0.05	6	<0.5
MCK 51006	Soil	13	28	0.94	578	0.116	2	1.80	0.020	0.20	0.2	0.05	6.0	0.2	<0.05	6	<0.5
MCK 51007	Soil	20	45	0.89	167	0.119	2	2.37	0.017	0.25	0.2	0.02	4.4	0.2	<0.05	8	0.7
MCK 51008	Soil	16	35	0.70	184	0.100	1	2.02	0.011	0.13	0.1	0.03	3.8	0.2	<0.05	6	<0.5
MCK 51009	Soil	33	11	0.56	147	0.113	<1	1.69	0.019	0.18	<0.1	0.01	2.4	0.1	0.09	8	1.2
MCK 51010	Soil	27	33	0.77	179	0.180	<1	1.80	0.012	0.51	0.1	<0.01	3.2	0.4	<0.05	6	<0.5
MCK 51012	Soil	30	46	1.10	195	0.153	<1	2.37	0.015	0.38	<0.1	0.01	4.9	0.3	<0.05	7	0.6
MCK 51013	Soil	17	39	0.75	145	0.108	1	2.13	0.018	0.13	0.2	0.03	3.6	0.2	<0.05	7	<0.5
MCK 51014	Soil	16	36	0.78	147	0.115	1	2.13	0.011	0.16	0.2	0.02	3.5	0.2	<0.05	6	0.7
MCK 51015	Soil	15	33	0.61	122	0.093	<1	1.79	0.009	0.08	0.1	0.02	2.8	0.2	<0.05	6	0.7
MCK 51016	Soil	17	38	0.77	191	0.119	2	2.24	0.013	0.15	0.1	0.02	3.9	0.2	<0.05	6	0.6
MCK 51017	Soil	24	35	0.68	145	0.093	<1	1.87	0.015	0.16	<0.1	0.02	2.8	0.2	<0.05	7	0.6
MCK 51018	Soil	21	53	1.00	184	0.164	1	2.24	0.015	0.37	<0.1	0.02	4.0	0.3	<0.05	8	0.6
MCK 51019	Soil	27	59	1.29	269	0.162	1	2.63	0.017	0.50	0.1	0.02	5.6	0.3	<0.05	8	0.8
MCK 51020	Soil	23	47	1.04	145	0.156	<1	2.48	0.012	0.29	0.1	0.02	3.3	0.2	<0.05	7	<0.5
MCK 51021	Soil	14	33	0.51	79	0.135	1	1.59	0.013	0.10	<0.1	0.02	2.4	0.2	<0.05	9	<0.5
MCK 51022	Soil	24	39	0.82	168	0.151	1	2.17	0.011	0.30	0.2	0.02	3.3	0.3	<0.05	7	<0.5
MCK 51023	Soil	37	38	0.77	178	0.137	1	2.19	0.011	0.29	0.1	0.03	3.9	0.3	<0.05	7	0.6
MCK 51024	Soil	27	49	0.81	196	0.116	2	2.34	0.015	0.15	0.1	0.02	4.2	0.2	<0.05	7	<0.5
MCK 51025	Soil	21	52	1.08	268	0.117	2	2.52	0.016	0.15	0.2	0.02	4.5	0.2	<0.05	7	<0.5
MCK 51027	Soil	32	53	0.90	222	0.136	1	2.08	0.015	0.22	0.3	0.02	3.5	0.4	<0.05	8	0.6
MCK 51028	Soil	32	45	0.80	417	0.119	1	2.04	0.014	0.12	0.2	0.03	4.1	0.2	<0.05	8	0.8
MCK 51030	Soil	35	34	0.61	324	0.096	1	2.01	0.013	0.10	0.2	0.03	4.0	0.2	<0.05	7	0.5
MCK 51031	Soil	21	30	0.62	206	0.096	<1	1.50	0.013	0.13	0.2	0.03	3.0	0.1	<0.05	6	0.6
MCK 51032	Soil	15	33	0.57	327	0.071	1	1.84	0.012	0.09	0.2	0.02	3.0	<0.1	<0.05	7	<0.5
MCK 51033	Soil	40	39	0.71	266	0.069	1	1.63	0.012	0.12	0.1	0.04	3.9	0.1	<0.05	6	0.6



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		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
MCK 51034	Soil	1.1	21.9	9.5	50	0.1	23.1	9.3	292	2.64	14.7	0.7	2.9	3.7	20	0.1	0.5	0.2	63	0.29
MCK 51035	Soil	0.8	25.6	7.4	50	<0.1	23.1	10.7	416	2.53	8.6	1.5	2.5	6.5	25	0.1	0.3	0.2	64	0.34
MCK 51036	Soil	0.8	18.3	7.3	51	<0.1	19.3	8.9	296	2.69	7.4	1.8	2.0	6.6	22	<0.1	0.3	0.1	59	0.27
MCK 51037	Soil	1.8	29.1	8.3	50	0.1	18.1	8.7	327	2.95	8.2	1.0	2.0	4.6	22	<0.1	0.4	0.3	64	0.22
MCK 51038	Soil	5.0	22.7	4.7	28	<0.1	5.0	4.5	171	3.48	2.3	3.4	0.7	15.1	25	<0.1	0.2	0.3	31	0.10
MCK 51039	Soil	1.1	14.9	5.0	53	<0.1	15.5	10.1	350	2.97	5.3	1.2	0.9	7.4	32	<0.1	0.3	0.1	55	0.29
MCK 51040	Soil	0.6	22.1	5.9	48	<0.1	21.4	9.8	383	2.89	5.9	1.1	2.4	9.8	23	0.1	0.4	0.2	59	0.28
MCK 51041	Soil	0.7	12.7	5.1	48	<0.1	19.4	9.5	462	2.82	4.3	1.1	3.7	6.1	31	0.1	0.3	0.2	55	0.43
MCK 51042	Soil	0.4	22.0	8.2	61	<0.1	25.7	11.6	242	3.10	4.0	1.5	0.9	12.1	18	<0.1	0.2	0.2	47	0.32
MCK 51043	Soil	1.0	27.3	8.3	66	0.1	25.4	12.7	420	2.61	3.7	1.8	2.0	8.0	32	0.2	0.2	0.2	43	0.65
MCK 51044	Soil	0.8	23.4	6.3	63	0.1	28.2	11.2	203	2.72	2.8	1.8	<0.5	9.7	20	<0.1	0.2	0.2	42	0.31
MCK 51045	Soil	1.2	20.4	6.1	65	<0.1	28.6	11.7	233	2.93	3.6	1.4	4.0	8.7	17	<0.1	0.1	0.2	51	0.32
MCK 51046	Soil	1.0	25.8	8.4	66	0.1	31.7	11.6	189	3.11	4.3	2.5	1.8	10.1	22	0.1	0.2	0.3	54	0.40
MCK 51047	Soil	1.0	21.6	7.6	61	0.2	27.3	9.5	182	2.74	3.7	2.1	2.8	5.6	21	<0.1	0.2	0.2	51	0.28
MCK 51049	Soil	1.1	21.7	6.6	58	<0.1	24.1	9.5	166	2.69	3.9	1.6	6.3	7.0	16	<0.1	0.2	0.2	53	0.25
MCK 51050	Soil	0.7	21.8	7.4	70	<0.1	27.6	11.5	273	2.94	4.2	1.1	1.6	6.8	18	<0.1	0.2	0.2	54	0.27
MCK 51051	Soil	1.7	32.9	11.5	116	<0.1	38.3	13.1	458	3.51	4.2	1.3	1.5	6.9	20	0.1	0.2	0.2	74	0.25
MCK 51052	Soil	1.6	64.2	13.0	142	<0.1	54.8	19.1	714	3.96	3.0	1.8	<0.5	10.4	20	0.2	0.2	0.2	89	0.33
MCK 51053	Soil	2.9	63.2	14.8	169	0.3	42.8	10.9	400	3.83	6.5	1.4	0.9	4.4	30	0.6	0.3	0.2	126	0.23
MCK 51054	Soil	1.9	57.5	11.5	173	0.1	61.4	15.4	352	3.85	3.7	1.8	0.6	5.5	25	0.4	0.2	0.2	101	0.31
MCK 51055	Soil	1.2	27.5	9.1	78	<0.1	29.2	11.9	299	3.31	5.3	1.1	1.7	7.1	20	0.1	0.3	0.2	59	0.27
MCK 51060	Soil	1.5	29.6	6.9	70	0.2	31.3	12.6	383	2.98	3.5	2.6	2.1	8.0	25	0.1	0.1	0.2	55	0.42
MCK 51062	Soil	1.9	96.1	7.2	128	0.1	64.4	21.8	722	4.30	3.9	1.6	<0.5	6.0	24	0.3	0.2	0.2	138	0.79
MCK 51063	Soil	1.3	43.2	9.4	81	<0.1	42.2	16.2	529	4.04	4.1	2.6	1.8	13.2	27	<0.1	0.2	0.3	58	0.51
MCK 51065	Soil	1.2	31.1	8.5	62	0.1	43.0	19.3	773	3.65	5.8	1.3	2.3	7.6	26	<0.1	0.3	0.2	73	0.39
MCK 51066	Soil	3.5	39.5	9.9	93	<0.1	32.3	12.7	225	4.34	6.4	2.8	1.1	13.4	35	<0.1	0.2	0.4	57	0.22
MCK 51067	Soil	1.3	56.3	11.4	68	<0.1	43.1	20.0	1357	4.16	4.2	1.7	2.1	4.7	77	0.2	0.3	0.3	52	1.68
MCK 51071	Soil	1.1	32.7	9.7	96	<0.1	33.9	13.1	283	3.16	4.1	1.4	1.5	7.2	26	0.3	0.3	0.2	63	0.34
MCK 51072	Soil	1.5	28.0	9.5	118	0.2	48.2	13.1	253	3.08	3.6	1.0	1.0	4.8	19	0.4	0.2	0.2	73	0.25
MCK 51073	Soil	1.4	45.7	13.1	149	<0.1	63.2	22.4	450	4.38	2.2	1.3	<0.5	15.9	12	0.2	0.1	0.3	57	0.21



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Project: MCK
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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 51034	Soil	12	34	0.61	329	0.081	1	1.69	0.015	0.06	0.1	0.03	3.0	<0.1	<0.05	5	<0.5
MCK 51035	Soil	21	40	0.66	284	0.100	<1	1.66	0.015	0.07	0.2	0.02	4.3	<0.1	<0.05	6	<0.5
MCK 51036	Soil	32	32	0.59	147	0.087	<1	1.83	0.012	0.06	0.2	0.02	2.9	<0.1	<0.05	5	<0.5
MCK 51037	Soil	13	32	0.53	197	0.075	<1	2.01	0.011	0.05	0.1	0.02	2.7	<0.1	<0.05	6	0.5
MCK 51038	Soil	30	11	0.56	132	0.109	<1	1.60	0.016	0.17	<0.1	<0.01	2.2	0.1	0.10	7	1.5
MCK 51039	Soil	23	34	0.76	221	0.118	<1	1.96	0.012	0.11	0.1	0.02	4.2	<0.1	<0.05	8	<0.5
MCK 51040	Soil	27	41	0.74	237	0.120	1	2.26	0.011	0.10	<0.1	<0.01	4.0	<0.1	<0.05	7	<0.5
MCK 51041	Soil	17	29	0.76	180	0.144	2	1.81	0.011	0.16	0.2	0.02	3.1	0.1	<0.05	7	<0.5
MCK 51042	Soil	26	33	0.77	176	0.169	2	1.90	0.012	0.54	0.1	<0.01	3.2	0.4	<0.05	6	<0.5
MCK 51043	Soil	27	27	0.72	258	0.091	3	1.57	0.017	0.24	0.1	0.02	3.5	0.2	0.07	5	<0.5
MCK 51044	Soil	26	32	0.89	152	0.125	2	1.90	0.014	0.37	0.1	0.02	3.3	0.3	<0.05	6	<0.5
MCK 51045	Soil	25	39	0.97	151	0.139	1	1.94	0.012	0.46	0.1	0.02	3.3	0.3	<0.05	7	<0.5
MCK 51046	Soil	42	41	0.89	184	0.127	2	1.94	0.013	0.41	0.1	0.02	4.2	0.3	<0.05	7	<0.5
MCK 51047	Soil	28	39	0.84	159	0.122	1	1.87	0.015	0.17	0.1	0.03	3.4	0.2	<0.05	7	<0.5
MCK 51049	Soil	27	33	0.77	125	0.132	2	1.83	0.014	0.23	0.1	0.02	3.2	0.2	<0.05	7	<0.5
MCK 51050	Soil	23	34	0.85	130	0.147	<1	1.92	0.012	0.29	0.1	0.01	3.0	0.3	<0.05	6	<0.5
MCK 51051	Soil	24	44	1.32	333	0.138	1	2.47	0.015	0.40	<0.1	<0.01	4.2	0.3	<0.05	8	0.5
MCK 51052	Soil	39	55	1.33	441	0.124	<1	2.56	0.013	0.53	<0.1	<0.01	4.7	0.3	<0.05	8	1.0
MCK 51053	Soil	18	63	1.40	352	0.114	1	2.79	0.012	0.25	0.1	<0.01	4.5	0.2	<0.05	9	0.7
MCK 51054	Soil	25	55	1.22	498	0.108	<1	2.52	0.014	0.43	<0.1	0.01	5.8	0.3	<0.05	8	1.3
MCK 51055	Soil	21	33	0.76	171	0.105	<1	1.95	0.015	0.18	0.1	0.01	3.0	0.2	<0.05	6	<0.5
MCK 51060	Soil	32	40	0.91	218	0.117	<1	1.83	0.015	0.30	0.1	0.03	4.3	0.2	<0.05	7	<0.5
MCK 51062	Soil	19	91	1.63	541	0.201	2	2.75	0.026	0.85	0.1	0.01	7.7	0.4	<0.05	9	1.0
MCK 51063	Soil	41	47	1.26	194	0.189	1	2.40	0.014	0.79	<0.1	0.02	5.0	0.4	<0.05	8	0.5
MCK 51065	Soil	23	50	1.00	290	0.139	1	2.30	0.019	0.45	<0.1	0.02	5.3	0.2	<0.05	8	<0.5
MCK 51066	Soil	44	41	1.29	152	0.140	1	2.56	0.019	0.88	<0.1	0.01	4.6	0.6	0.12	8	0.7
MCK 51067	Soil	35	39	1.16	260	0.119	3	2.03	0.031	0.43	0.1	0.03	5.0	0.3	<0.05	7	0.7
MCK 51071	Soil	27	37	0.75	206	0.123	2	1.80	0.017	0.24	0.2	0.02	3.7	0.2	<0.05	6	<0.5
MCK 51072	Soil	18	42	0.83	200	0.125	1	2.06	0.013	0.24	0.1	0.01	3.2	0.2	<0.05	7	0.6
MCK 51073	Soil	55	47	1.24	219	0.164	<1	2.70	0.008	0.71	<0.1	<0.01	4.4	0.6	<0.05	8	<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
MCK 51074	Soil	1.5	30.8	8.2	103	0.2	37.8	12.3	447	2.94	6.1	1.0	<0.5	4.0	25	0.3	0.4	0.2	81	0.31
MCK 51130	Soil	2.2	80.7	27.5	121	<0.1	67.6	24.3	700	4.52	1.0	3.0	0.9	17.7	24	0.4	<0.1	0.5	72	0.54
MCK 51131	Soil	1.8	71.5	23.7	111	<0.1	60.9	21.2	592	4.30	1.6	2.9	0.6	14.8	22	0.3	0.1	0.5	69	0.46
MCK 51132	Soil	1.1	46.4	10.2	86	<0.1	38.8	15.0	206	3.35	1.3	2.7	<0.5	16.6	20	<0.1	<0.1	0.3	42	0.28
MCK 51133	Soil	1.4	62.5	13.2	119	<0.1	93.2	31.7	521	5.65	1.2	3.4	<0.5	16.7	34	<0.1	<0.1	0.3	111	0.60
MCK 51134	Soil	1.1	24.6	10.7	68	<0.1	27.7	11.4	254	3.28	6.7	1.4	2.7	7.2	17	<0.1	0.3	0.2	64	0.24
MCK 51135	Soil	1.5	30.3	9.2	70	<0.1	33.7	13.3	282	3.34	6.9	2.0	2.5	10.3	16	<0.1	0.3	0.3	63	0.21
MCK 51137	Soil	0.8	25.5	8.6	64	<0.1	30.0	12.9	259	3.14	6.2	1.5	1.8	10.6	15	<0.1	0.3	0.2	57	0.25
MCK 51139	Soil	1.0	29.5	7.1	65	<0.1	38.3	16.5	328	3.44	5.9	1.7	1.1	9.4	20	<0.1	0.2	0.2	68	0.31
MCK 51140	Soil	1.4	46.8	4.2	91	<0.1	38.8	15.4	474	3.37	3.9	1.5	1.6	6.1	26	<0.1	0.2	<0.1	80	0.40
MCK 51141	Soil	1.0	31.7	9.2	64	<0.1	34.4	13.3	388	3.38	6.5	1.7	3.2	9.2	21	<0.1	0.3	0.2	62	0.29
MCK 51143	Soil	0.8	35.0	18.4	80	<0.1	37.0	20.1	592	4.07	3.2	1.7	0.9	13.6	21	<0.1	0.2	0.2	40	0.23
MCK 51144	Soil	1.0	40.9	9.2	83	<0.1	46.8	17.1	268	3.89	2.3	1.2	0.9	11.1	10	<0.1	0.1	0.3	53	0.19
MCK 51145	Soil	0.8	28.5	8.1	61	<0.1	33.1	14.4	392	3.32	6.2	1.1	2.8	6.3	19	<0.1	0.3	0.2	67	0.30
MCK 51146	Soil	1.3	33.5	8.6	71	<0.1	40.5	15.6	444	3.62	5.0	1.1	3.7	7.8	19	<0.1	0.4	0.2	65	0.27
MCK 51147	Soil	0.7	29.1	7.2	57	<0.1	22.9	11.2	326	2.95	5.4	1.0	2.1	8.3	22	<0.1	0.4	0.2	53	0.31
MCK 51148	Soil	0.7	11.5	3.3	50	<0.1	15.5	11.0	486	2.90	2.8	0.7	1.0	5.4	20	<0.1	0.2	0.1	53	0.30
MCK 51149	Soil	0.8	15.7	4.3	43	<0.1	14.9	9.1	508	2.35	3.4	2.3	2.3	5.0	23	<0.1	0.2	0.1	46	0.40
MCK 51150	Soil	0.6	54.6	3.2	46	<0.1	12.1	11.0	313	2.54	2.2	1.2	2.5	3.7	18	<0.1	<0.1	0.1	65	0.34
MCK 51151	Soil	0.9	36.5	6.4	50	0.1	13.6	11.4	406	2.52	4.0	2.3	5.3	3.5	19	0.1	0.2	0.2	58	0.29
MCK 51153	Soil	0.5	80.3	1.7	54	<0.1	12.1	15.0	308	3.19	<0.5	1.4	0.6	2.5	10	<0.1	<0.1	<0.1	107	0.39
MCK 51154	Soil	0.3	87.2	1.8	52	<0.1	12.1	15.1	293	3.05	<0.5	1.3	1.9	2.4	10	<0.1	<0.1	<0.1	103	0.42
MCK 51155	Soil	0.9	46.0	4.7	70	<0.1	37.5	19.0	408	4.21	1.6	2.0	0.9	5.0	21	<0.1	0.1	0.1	123	0.49
MCK 51156	Soil	0.9	16.0	5.9	57	<0.1	43.1	9.6	270	2.47	2.4	2.0	2.0	5.0	17	0.1	0.1	0.2	44	0.26
MCK 51157	Soil	0.9	15.1	5.5	43	0.1	24.0	5.9	125	1.75	2.2	1.5	3.9	2.3	15	0.2	0.1	0.2	31	0.22
MCK 51158	Soil	1.2	16.0	5.6	59	<0.1	18.6	12.2	410	2.83	2.9	1.5	0.8	5.0	15	0.1	0.1	0.2	59	0.20
MCK 51159	Soil	0.8	12.5	5.6	39	0.1	14.1	4.3	124	1.60	1.7	1.2	<0.5	2.4	14	0.1	<0.1	0.1	22	0.17
MCK 51160	Soil	1.0	22.7	5.3	49	<0.1	11.9	7.9	195	2.25	3.1	0.9	<0.5	2.2	13	0.1	<0.1	0.1	62	0.22
MCK 51253	Soil	1.2	27.9	9.6	70	<0.1	48.0	14.4	437	2.93	5.7	1.0	2.6	4.8	18	0.2	0.3	0.2	70	0.28
MCK 51254	Soil	1.5	48.4	14.2	85	0.3	168.7	27.5	1090	3.83	5.9	2.2	6.6	4.7	22	0.2	0.3	0.3	73	0.36



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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 51074	Soil	17	40	0.76	270	0.091	1	2.02	0.013	0.11	0.1	0.01	3.4	0.1	<0.05	6	<0.5
MCK 51130	Soil	54	108	1.60	620	0.137	1	2.76	0.013	0.84	<0.1	0.01	8.4	0.6	<0.05	9	0.9
MCK 51131	Soil	42	86	1.37	547	0.136	<1	2.59	0.014	0.72	<0.1	0.01	6.8	0.5	<0.05	9	0.8
MCK 51132	Soil	51	36	1.14	155	0.115	<1	2.13	0.015	0.66	<0.1	<0.01	3.5	0.6	<0.05	7	<0.5
MCK 51133	Soil	76	162	2.47	479	0.286	<1	4.01	0.020	1.52	<0.1	<0.01	10.6	0.9	<0.05	15	<0.5
MCK 51134	Soil	25	37	0.76	140	0.119	2	2.35	0.012	0.19	0.1	0.02	3.6	0.2	<0.05	7	<0.5
MCK 51135	Soil	36	37	0.89	145	0.114	2	2.42	0.013	0.31	<0.1	0.02	3.3	0.3	<0.05	7	0.7
MCK 51137	Soil	28	38	0.91	183	0.119	2	2.28	0.012	0.32	0.1	<0.01	3.6	0.3	<0.05	7	<0.5
MCK 51139	Soil	29	45	1.09	206	0.145	2	2.59	0.013	0.47	0.1	0.02	4.4	0.3	<0.05	8	<0.5
MCK 51140	Soil	22	62	1.62	288	0.169	1	2.52	0.011	0.31	0.1	0.01	4.7	0.3	<0.05	9	<0.5
MCK 51141	Soil	36	43	0.88	208	0.128	1	2.29	0.014	0.26	0.1	0.02	4.5	0.2	<0.05	7	<0.5
MCK 51143	Soil	15	38	0.86	181	0.183	1	2.55	0.008	0.75	<0.1	<0.01	3.7	0.6	<0.05	7	<0.5
MCK 51144	Soil	23	51	1.34	160	0.119	<1	2.39	0.007	0.56	<0.1	<0.01	3.6	0.5	<0.05	9	<0.5
MCK 51145	Soil	19	54	0.97	228	0.082	<1	1.92	0.008	0.09	0.1	0.03	5.5	0.2	<0.05	7	0.7
MCK 51146	Soil	25	52	0.90	201	0.074	<1	1.66	0.008	0.10	0.1	0.05	5.9	0.1	<0.05	7	0.6
MCK 51147	Soil	28	40	0.74	341	0.072	<1	1.65	0.011	0.06	0.2	0.02	5.2	<0.1	<0.05	6	<0.5
MCK 51148	Soil	13	33	0.97	319	0.142	<1	1.60	0.008	0.45	0.2	<0.01	2.8	0.3	<0.05	7	<0.5
MCK 51149	Soil	23	25	0.70	368	0.094	1	1.40	0.008	0.22	0.1	0.03	3.2	0.2	<0.05	5	0.6
MCK 51150	Soil	14	23	0.91	355	0.104	<1	1.41	0.011	0.44	0.1	<0.01	3.3	0.2	0.07	5	0.5
MCK 51151	Soil	19	26	0.68	388	0.074	<1	1.53	0.011	0.14	0.1	0.04	3.7	0.1	<0.05	5	<0.5
MCK 51153	Soil	8	17	1.05	315	0.157	<1	1.53	0.015	0.77	<0.1	<0.01	4.8	0.3	<0.05	6	<0.5
MCK 51154	Soil	8	14	1.03	289	0.152	<1	1.50	0.015	0.77	<0.1	<0.01	4.8	0.2	<0.05	6	<0.5
MCK 51155	Soil	21	46	1.60	320	0.134	<1	2.28	0.015	0.70	<0.1	0.02	7.6	0.3	<0.05	9	<0.5
MCK 51156	Soil	25	46	0.82	200	0.103	<1	1.54	0.009	0.35	0.2	0.02	3.0	0.2	<0.05	8	0.5
MCK 51157	Soil	21	35	0.54	180	0.068	<1	1.12	0.009	0.15	0.2	0.03	2.2	0.1	<0.05	6	<0.5
MCK 51158	Soil	20	32	0.80	217	0.131	<1	1.55	0.008	0.43	0.1	0.01	2.5	0.2	<0.05	8	<0.5
MCK 51159	Soil	20	21	0.33	127	0.075	<1	0.99	0.008	0.15	0.1	0.02	1.7	0.2	0.06	6	0.6
MCK 51160	Soil	11	22	0.65	162	0.104	<1	1.28	0.011	0.24	0.2	0.02	2.5	0.1	<0.05	7	<0.5
MCK 51253	Soil	17	76	1.12	421	0.102	<1	2.17	0.009	0.20	0.2	0.02	3.8	0.3	<0.05	8	0.5
MCK 51254	Soil	28	168	1.41	482	0.060	<1	2.04	0.008	0.14	0.1	0.06	6.4	0.2	<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 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
MCK 51255	Soil	1.1	52.2	11.1	95	<0.1	40.3	15.9	566	4.10	6.2	1.6	1.3	9.3	20	0.1	0.6	0.3	68	0.38	0.129
MCK 51256	Soil	0.6	43.4	7.1	94	0.1	46.5	16.2	338	3.41	1.4	2.9	2.0	13.2	11	0.1	0.1	0.3	48	0.37	0.110
MCK 51257	Soil	1.3	37.7	7.1	69	0.1	31.7	15.5	319	3.06	3.9	2.3	2.2	7.1	20	0.2	0.2	0.2	59	0.38	0.107
MCK 51260	Soil	0.8	31.4	6.0	53	<0.1	424.4	30.5	344	2.87	2.8	1.1	4.9	3.8	15	0.2	0.1	0.2	44	0.30	0.080
MCK 51261	Soil	1.1	35.0	7.7	79	0.1	35.9	12.5	272	3.06	2.9	1.5	0.6	5.3	18	0.2	0.1	0.2	65	0.31	0.100
MCK 51263	Soil	1.5	19.2	8.3	65	<0.1	35.1	11.6	326	2.38	3.8	0.8	5.9	3.9	13	0.1	0.1	0.2	62	0.23	0.061
MCK 51264	Soil	1.9	24.1	9.4	69	0.1	160.7	18.0	360	2.76	3.7	1.1	3.5	4.6	16	0.2	0.1	0.2	68	0.24	0.079
MCK 51265	Soil	1.3	20.1	7.9	72	<0.1	28.9	14.7	515	2.84	3.2	1.1	1.1	6.0	19	0.1	0.1	0.1	61	0.27	0.076
MCK 51272	Soil	2.8	29.6	12.0	74	0.2	29.6	15.5	782	2.83	9.2	3.6	3.6	7.6	27	0.3	0.3	0.3	75	0.45	0.074
MCK 51273	Soil	1.8	17.1	9.9	60	<0.1	13.6	6.3	272	2.48	5.5	1.6	1.4	8.1	14	0.1	0.2	0.3	52	0.14	0.029
MCK 51276	Soil	1.6	31.2	7.3	52	0.2	20.4	9.3	727	2.70	5.9	18.7	4.8	9.7	46	0.2	0.4	0.2	50	1.13	0.042
MCK 51277	Soil	1.0	17.9	6.3	47	<0.1	18.2	8.5	605	2.83	5.9	1.4	3.3	7.2	25	<0.1	0.4	0.2	57	0.34	0.037
MCK 51278	Soil	0.8	15.8	5.3	38	<0.1	17.0	9.5	655	2.56	5.0	1.3	2.7	5.8	26	<0.1	0.3	0.1	53	0.42	0.035
MCK 51279	Soil	0.9	15.9	6.1	39	<0.1	19.8	10.1	527	2.76	6.6	1.0	2.0	4.5	25	<0.1	0.4	0.1	58	0.50	0.040
MCK 51280	Soil	0.7	60.8	5.8	44	0.2	19.4	11.1	414	2.83	5.4	0.7	5.4	2.3	23	<0.1	0.3	0.1	78	0.41	0.049
MCK 51281	Soil	0.8	39.2	6.7	47	<0.1	20.2	11.6	576	2.83	7.5	0.5	3.9	2.4	20	<0.1	0.4	0.1	63	0.28	0.020
MCK 51282	Soil	0.4	59.3	3.7	32	<0.1	13.3	10.6	203	2.01	4.0	0.2	1.8	1.0	14	<0.1	0.2	<0.1	55	0.25	0.014
MCK 51349	Soil	0.6	27.9	6.1	50	<0.1	24.2	13.4	274	2.94	8.9	0.4	2.6	2.6	17	<0.1	0.4	0.1	69	0.17	0.020
MCK 51350	Soil	0.3	37.7	3.6	58	<0.1	20.9	12.1	335	2.82	2.6	0.4	1.8	2.1	29	<0.1	0.2	<0.1	65	0.50	0.054
MCK 51351	Soil	0.2	45.1	3.5	55	<0.1	18.2	12.6	330	2.77	2.3	0.4	0.9	1.9	30	<0.1	0.2	<0.1	69	0.56	0.060
MCK 51377	Soil	0.5	95.6	6.0	86	<0.1	29.5	21.3	665	4.40	4.4	0.4	4.3	1.9	35	<0.1	0.3	<0.1	126	0.59	0.058
MCK 51378	Soil	0.6	37.6	7.2	51	<0.1	28.5	12.7	507	2.92	6.4	0.4	1.9	3.0	20	<0.1	0.4	0.1	69	0.27	0.015
MCK 51717	Soil	1.5	21.4	8.3	47	<0.1	14.7	8.6	338	2.61	6.4	1.9	3.0	17.5	19	<0.1	0.4	0.1	46	0.27	0.034
MCK 51718	Soil	1.0	24.0	9.7	50	<0.1	19.8	9.3	274	3.09	10.1	1.3	6.3	13.2	22	<0.1	0.5	0.2	72	0.31	0.022
MCK 51719	Soil	2.0	23.3	12.3	60	0.1	15.4	8.4	457	2.60	14.4	3.1	7.0	24.8	21	0.1	0.4	0.2	53	0.29	0.036
MCK 51720	Soil	1.9	42.1	6.8	73	<0.1	80.5	15.9	521	3.73	6.3	1.1	3.8	5.0	26	0.2	0.3	0.1	85	0.36	0.040
MCK 51721	Soil	1.7	99.5	9.8	89	<0.1	151.3	20.2	627	4.29	10.7	3.1	7.2	15.1	50	0.1	0.8	0.2	72	0.83	0.268
MCK 51722	Soil	1.9	104.1	10.5	90	<0.1	141.2	20.0	642	4.31	11.6	3.2	7.9	15.6	52	<0.1	0.8	0.3	71	0.86	0.279
MCK 51723	Soil	1.8	31.4	8.4	58	<0.1	37.5	12.7	375	3.47	27.3	3.6	18.3	10.9	30	<0.1	0.5	0.2	54	0.38	0.037
MCK 51724	Soil	2.3	53.9	11.3	111	<0.1	114.7	17.4	660	4.48	114.0	2.4	5.8	9.9	24	0.2	1.1	0.1	96	0.55	0.099



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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 51255	Soil	32	59	1.18	310	0.089	<1	2.31	0.007	0.44	<0.1	0.01	4.7	0.3	<0.05	9	<0.5
MCK 51256	Soil	44	50	1.03	195	0.129	<1	1.99	0.008	0.73	<0.1	0.02	3.8	0.4	<0.05	8	<0.5
MCK 51257	Soil	40	47	0.88	241	0.094	<1	1.80	0.010	0.32	<0.1	0.02	4.2	0.2	0.06	6	<0.5
MCK 51260	Soil	17	300	2.04	206	0.079	<1	1.33	0.009	0.18	<0.1	0.01	2.9	0.2	<0.05	5	<0.5
MCK 51261	Soil	22	56	1.11	377	0.128	<1	1.90	0.011	0.36	<0.1	0.02	3.7	0.3	<0.05	8	<0.5
MCK 51263	Soil	15	46	0.89	170	0.101	<1	1.45	0.008	0.20	0.2	0.01	2.5	0.2	<0.05	7	<0.5
MCK 51264	Soil	16	107	1.12	221	0.097	<1	1.56	0.009	0.23	0.2	0.01	2.9	0.2	<0.05	7	<0.5
MCK 51265	Soil	17	39	0.86	228	0.115	<1	1.52	0.010	0.25	0.2	<0.01	2.5	0.2	<0.05	7	<0.5
MCK 51272	Soil	23	47	0.75	326	0.081	<1	1.59	0.011	0.13	0.2	0.05	4.2	0.2	<0.05	7	0.6
MCK 51273	Soil	17	28	0.46	162	0.074	<1	1.40	0.009	0.10	0.2	0.04	2.3	0.2	<0.05	7	<0.5
MCK 51276	Soil	119	29	0.59	745	0.054	2	1.62	0.013	0.12	0.2	0.06	4.1	<0.1	<0.05	7	0.9
MCK 51277	Soil	44	29	0.56	360	0.072	2	1.57	0.012	0.12	0.2	0.03	4.0	<0.1	<0.05	6	<0.5
MCK 51278	Soil	39	29	0.59	431	0.079	<1	1.53	0.014	0.08	0.2	0.02	4.3	<0.1	<0.05	6	<0.5
MCK 51279	Soil	16	32	0.64	421	0.070	1	1.54	0.013	0.11	0.1	0.03	4.6	<0.1	<0.05	6	0.5
MCK 51280	Soil	10	32	0.73	197	0.075	<1	1.62	0.014	0.05	0.2	0.02	4.4	<0.1	<0.05	6	<0.5
MCK 51281	Soil	9	33	0.61	175	0.063	1	1.74	0.012	0.05	0.2	0.02	3.9	<0.1	<0.05	6	<0.5
MCK 51282	Soil	3	24	0.61	90	0.076	<1	1.63	0.012	0.03	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5
MCK 51349	Soil	5	37	0.70	184	0.077	<1	2.33	0.009	0.04	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
MCK 51350	Soil	9	52	1.08	214	0.137	1	2.21	0.012	0.16	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5
MCK 51351	Soil	7	44	1.15	217	0.136	<1	2.18	0.012	0.20	<0.1	<0.01	3.5	<0.1	<0.05	6	<0.5
MCK 51377	Soil	6	45	1.50	208	0.151	<1	2.25	0.016	0.11	0.2	0.01	6.5	<0.1	<0.05	8	<0.5
MCK 51378	Soil	10	43	0.64	417	0.112	<1	1.64	0.016	0.23	0.1	0.01	4.2	<0.1	<0.05	5	<0.5
MCK 51717	Soil	39	28	0.36	309	0.052	<1	1.63	0.009	0.08	0.2	0.03	3.1	0.2	<0.05	5	0.5
MCK 51718	Soil	41	40	0.41	370	0.073	<1	2.16	0.009	0.04	0.2	0.06	4.2	<0.1	<0.05	6	0.6
MCK 51719	Soil	48	26	0.32	402	0.047	<1	1.77	0.010	0.09	0.2	0.04	2.8	0.2	<0.05	5	0.7
MCK 51720	Soil	11	137	1.44	696	0.156	<1	2.39	0.009	0.64	0.1	0.02	2.9	0.3	<0.05	7	0.6
MCK 51721	Soil	56	203	1.55	1061	0.096	1	2.13	0.010	0.53	<0.1	0.04	6.4	0.5	<0.05	7	0.9
MCK 51722	Soil	59	187	1.45	999	0.084	<1	2.06	0.009	0.51	<0.1	0.05	6.1	0.5	<0.05	7	1.3
MCK 51723	Soil	28	49	0.78	354	0.086	<1	1.95	0.012	0.37	<0.1	0.04	5.6	0.2	<0.05	7	0.8
MCK 51724	Soil	32	117	1.35	767	0.097	1	2.29	0.008	0.65	<0.1	0.02	6.9	0.3	<0.05	7	0.8



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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
MCK 51725	Soil	3.8	117.5	61.6	80	2.3	75.2	24.7	947	4.62	9.4	1.8	677.4	8.9	25	0.1	0.7	0.5	136	0.56	0.055	
MCK 51726	Soil	0.6	92.3	3.6	42	<0.1	52.3	16.8	369	2.60	2.5	1.0	6.7	1.7	22	<0.1	0.2	<0.1	84	0.63	0.033	
MCK 51727	Soil	2.0	41.6	6.6	53	0.2	28.5	12.4	591	2.69	9.0	3.6	17.6	6.1	38	0.2	0.5	0.1	51	0.69	0.079	
MCK 51728	Soil	0.9	70.7	3.9	40	<0.1	45.0	10.9	214	2.42	2.9	2.2	13.5	2.0	31	0.2	0.3	<0.1	69	0.70	0.042	
MCK 51729	Soil	1.0	53.9	4.2	51	<0.1	32.0	14.8	565	2.70	3.1	1.2	5.4	3.1	26	0.2	0.2	<0.1	71	0.56	0.056	
MCK 51731	Soil	0.6	38.3	4.8	42	<0.1	31.6	10.2	178	2.44	5.3	0.4	4.5	2.1	17	<0.1	0.2	<0.1	65	0.32	0.041	
MCK 51732	Soil	0.4	62.8	4.0	47	0.1	23.5	11.3	219	2.53	3.6	0.5	3.8	1.4	23	0.1	0.2	<0.1	70	0.50	0.053	
MCK 51733	Soil	0.5	46.8	4.1	46	<0.1	20.7	10.4	227	2.35	4.6	0.4	65.9	2.1	23	0.1	0.2	<0.1	66	0.41	0.070	
MCK 51734	Soil	0.5	40.6	5.6	47	<0.1	18.7	9.1	211	2.30	4.8	0.6	4.1	2.3	23	0.1	0.2	<0.1	63	0.41	0.049	
MCK 51735	Soil	0.4	62.3	3.3	48	<0.1	39.0	14.1	293	2.44	3.1	0.3	3.0	1.3	22	<0.1	0.2	<0.1	65	0.45	0.051	
MCK 51737	Soil	0.6	45.5	5.3	44	0.2	22.9	9.0	204	2.12	6.0	1.0	5.3	3.0	33	<0.1	0.2	<0.1	54	0.49	0.049	
MCK 51738	Soil	0.7	49.9	3.7	44	<0.1	29.9	11.9	317	2.46	4.2	0.4	1.7	1.8	19	<0.1	0.2	<0.1	66	0.43	0.043	
MCK 51739	Soil	1.1	26.8	5.3	50	<0.1	20.2	11.6	487	2.33	3.8	1.5	5.2	4.7	32	0.2	0.2	0.1	51	0.56	0.064	
MCK 51741	Soil	0.5	65.0	2.2	40	<0.1	20.2	9.0	180	1.92	1.6	2.5	4.3	1.5	23	<0.1	0.2	<0.1	52	0.57	0.063	
MCK 51742	Soil	2.0	23.7	9.5	58	0.3	22.8	14.8	787	2.94	8.3	1.4	25.5	7.0	29	0.1	0.4	0.1	54	0.56	0.063	
MCK 51743	Soil	1.7	33.2	6.6	70	<0.1	36.0	11.3	437	2.96	6.4	1.4	16.3	8.2	30	0.2	0.4	0.1	56	0.56	0.085	
MCK 51744	Soil	2.4	32.7	8.4	58	0.3	42.3	12.6	422	3.16	9.4	2.1	38.4	6.3	32	0.1	0.4	0.1	71	0.57	0.072	
MCK 51745	Soil	2.1	28.2	9.4	58	0.4	17.6	7.7	309	2.63	12.0	4.1	78.2	14.5	34	0.2	0.8	0.1	51	0.59	0.057	
MCK 51746	Soil	1.9	17.4	12.2	49	0.2	15.0	8.5	429	2.64	14.1	1.5	9.6	11.0	27	0.1	0.7	0.2	55	0.35	0.040	
MCK 51747	Soil	1.8	34.6	14.3	64	0.3	21.6	10.5	824	3.35	18.9	3.5	18.2	25.0	37	0.2	0.7	0.3	55	0.57	0.060	
MCK 51748	Soil	1.2	13.8	7.5	42	<0.1	15.0	7.7	328	2.62	13.8	0.7	3.7	7.2	22	<0.1	0.4	0.2	56	0.30	0.026	
MCK 51749	Soil	1.0	12.1	8.3	56	<0.1	11.2	6.8	426	2.95	4.3	1.2	2.2	11.4	15	<0.1	0.3	0.1	33	0.19	0.030	
MCK 51750	Soil	1.0	24.4	7.3	50	<0.1	25.3	11.5	264	3.02	13.0	0.5	22.8	4.3	21	<0.1	0.6	0.1	71	0.30	0.018	
MCK 51921	Soil	1.5	45.6	8.5	66	<0.1	29.4	12.9	316	3.20	5.9	4.1	4.4	11.7	35	0.1	0.4	0.2	53	0.57	0.102	
MCK 51922	Soil	1.9	35.5	10.1	66	0.2	30.8	11.2	554	3.00	5.7	8.5	7.5	13.5	45	0.2	0.5	0.2	61	0.74	0.058	
MCK 51923	Soil	1.7	40.3	9.3	73	0.1	34.5	12.1	433	3.13	16.9	7.2	4.5	16.6	65	0.2	1.0	0.2	49	0.86	0.231	
MCK 51924	Soil	1.2	25.4	8.2	58	0.1	32.9	10.9	283	2.76	7.6	4.0	2.7	11.6	40	0.1	0.4	0.2	55	0.57	0.094	
MCK 51926	Soil	1.1	32.0	10.3	70	<0.1	48.3	16.9	437	4.14	24.9	1.9	8.1	16.3	22	<0.1	0.9	0.2	53	0.34	0.083	
MCK 51928	Soil	0.6	135.7	1.4	56	0.1	80.2	30.1	945	4.65	3.4	0.4	6.5	1.0	54	<0.1	1.2	<0.1	121	4.07	0.089	
MCK 51933	Soil	0.4	230.3	3.8	71	<0.1	31.3	25.0	446	3.94	4.3	0.4	5.0	0.9	31	0.2	0.3	<0.1	153	0.69	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
MCK 51725	Soil	61	110	1.11	852	0.060	2	1.73	0.011	0.37	0.2	0.11	13.8	0.2	<0.05	7	1.4
MCK 51726	Soil	6	176	1.74	471	0.134	<1	2.07	0.015	0.18	<0.1	0.02	3.7	<0.1	<0.05	5	0.6
MCK 51727	Soil	36	45	0.61	584	0.058	1	1.38	0.014	0.19	<0.1	0.05	3.8	0.1	<0.05	5	0.6
MCK 51728	Soil	10	90	0.86	593	0.067	1	1.57	0.018	0.08	<0.1	0.04	4.4	<0.1	<0.05	5	0.6
MCK 51729	Soil	12	73	0.84	469	0.067	<1	1.51	0.017	0.12	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5
MCK 51731	Soil	7	73	0.76	241	0.081	<1	1.52	0.012	0.06	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5
MCK 51732	Soil	7	49	0.75	448	0.089	<1	1.47	0.018	0.10	0.1	0.02	4.8	<0.1	<0.05	5	<0.5
MCK 51733	Soil	8	41	0.60	343	0.088	<1	1.35	0.017	0.07	0.2	<0.01	3.0	<0.1	<0.05	4	<0.5
MCK 51734	Soil	10	38	0.47	397	0.083	2	1.49	0.014	0.05	0.2	0.01	3.6	<0.1	<0.05	5	<0.5
MCK 51735	Soil	5	95	1.07	240	0.109	<1	1.63	0.015	0.16	<0.1	<0.01	2.6	0.1	<0.05	5	<0.5
MCK 51737	Soil	15	46	0.46	603	0.092	<1	1.42	0.013	0.10	0.1	0.02	3.4	<0.1	<0.05	5	<0.5
MCK 51738	Soil	7	76	0.87	176	0.107	<1	1.55	0.016	0.16	0.1	<0.01	3.3	0.1	<0.05	5	<0.5
MCK 51739	Soil	17	38	0.43	302	0.091	1	1.38	0.014	0.14	0.1	0.03	3.0	0.1	<0.05	4	<0.5
MCK 51741	Soil	4	60	0.71	202	0.080	<1	1.16	0.019	0.11	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5
MCK 51742	Soil	30	35	0.47	707	0.075	<1	1.72	0.012	0.20	0.1	0.02	3.4	0.2	<0.05	6	<0.5
MCK 51743	Soil	34	52	0.77	542	0.088	1	1.72	0.012	0.25	0.1	0.02	4.0	0.2	<0.05	6	0.5
MCK 51744	Soil	17	71	0.85	953	0.093	2	1.85	0.015	0.14	0.1	0.02	4.2	0.1	<0.05	6	0.5
MCK 51745	Soil	59	28	0.37	497	0.060	2	1.50	0.015	0.12	0.1	0.06	5.0	0.1	<0.05	4	1.0
MCK 51746	Soil	40	29	0.37	506	0.060	<1	1.53	0.012	0.14	0.2	0.01	2.9	0.2	<0.05	5	<0.5
MCK 51747	Soil	110	34	0.44	871	0.050	<1	2.27	0.013	0.17	0.3	0.04	6.1	0.3	<0.05	8	0.6
MCK 51748	Soil	18	29	0.38	311	0.070	<1	1.72	0.009	0.12	0.1	0.01	2.6	0.1	<0.05	6	<0.5
MCK 51749	Soil	12	19	0.39	216	0.101	<1	1.56	0.006	0.49	0.2	0.01	1.6	0.4	<0.05	7	<0.5
MCK 51750	Soil	10	38	0.51	224	0.083	<1	2.14	0.011	0.07	0.1	0.01	3.6	<0.1	<0.05	5	<0.5
MCK 51921	Soil	37	49	0.81	457	0.100	<1	2.00	0.010	0.24	0.2	0.01	3.4	0.3	<0.05	6	0.9
MCK 51922	Soil	52	63	0.79	490	0.102	2	1.87	0.013	0.19	0.2	0.05	3.8	0.2	<0.05	6	<0.5
MCK 51923	Soil	59	40	0.63	644	0.082	<1	1.37	0.010	0.27	0.2	0.03	3.8	0.2	<0.05	5	<0.5
MCK 51924	Soil	53	50	0.71	641	0.103	2	1.70	0.009	0.19	0.1	0.04	3.6	0.2	<0.05	6	<0.5
MCK 51926	Soil	45	61	1.10	383	0.136	1	2.15	0.008	0.59	<0.1	0.02	5.2	0.4	<0.05	7	<0.5
MCK 51928	Soil	6	94	0.85	429	0.010	3	0.86	0.006	0.21	<0.1	0.04	21.1	0.2	<0.05	3	<0.5
MCK 51933	Soil	3	49	1.74	478	0.250	2	2.26	0.019	0.69	<0.1	0.01	3.7	0.2	<0.05	8	<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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
MCK 51935	Soil	0.2	156.0	5.2	135	0.1	22.8	29.0	913	5.88	1.2	0.3	29.3	0.5	35	<0.1	0.2	<0.1	209	0.89	0.172
MCK 51937	Soil	0.9	55.8	5.8	41	0.2	28.6	10.0	295	2.25	4.1	7.3	11.9	3.1	41	0.2	0.3	0.1	57	0.71	0.047
MCK 51938	Soil	0.5	131.7	5.1	69	0.2	30.3	17.7	337	3.64	3.7	0.9	5.5	1.8	19	0.3	0.3	<0.1	141	0.37	0.072
MCK 51939	Soil	1.2	31.8	4.8	95	<0.1	44.1	15.6	462	3.41	4.5	0.9	<0.5	3.8	21	0.2	0.2	<0.1	93	0.34	0.093
MCK 51940	Soil	1.5	28.2	7.6	102	0.1	33.6	11.5	398	3.26	12.1	1.2	2.7	4.3	21	0.2	0.4	0.2	85	0.32	0.091
MCK 51941	Soil	1.7	31.5	10.7	115	0.2	29.5	16.5	1053	3.32	12.3	2.0	11.2	4.9	34	0.4	0.8	0.2	76	0.80	0.104
MCK 51942	Soil	1.8	55.1	9.4	118	0.2	48.8	17.2	815	3.88	20.7	2.3	4.2	5.4	26	0.6	1.4	0.4	99	0.63	0.106
MCK 51943	Soil	1.5	31.1	9.1	65	0.3	24.3	9.4	553	2.46	17.9	1.3	4.7	1.8	35	0.7	0.9	0.2	60	0.64	0.051
MCK 51944	Soil	0.9	24.9	9.0	64	<0.1	21.8	10.1	333	2.46	8.8	1.2	6.1	7.4	21	0.1	0.5	0.2	60	0.26	0.054
MCK 51946	Soil	1.2	13.5	9.8	55	<0.1	14.5	8.4	360	2.46	12.8	0.8	4.6	3.5	19	0.1	0.5	0.1	52	0.23	0.039
MCK 51947	Soil	1.7	29.5	8.1	79	0.2	30.0	9.7	409	2.73	79.5	1.1	7.0	3.0	24	0.2	2.1	0.1	52	0.26	0.074
MCK 51948	Soil	1.3	31.3	9.1	64	0.2	25.8	9.2	282	2.91	39.3	1.2	8.3	3.2	22	0.2	1.2	0.2	69	0.23	0.053
MCK 51949	Soil	0.1	25.8	2.3	62	<0.1	15.0	16.2	336	2.96	1.0	0.2	<0.5	0.5	21	<0.1	0.3	<0.1	90	0.47	0.083
MCK 51955	Soil	0.3	93.2	1.9	39	<0.1	23.6	12.4	289	2.22	1.8	0.6	0.9	0.9	16	<0.1	0.9	<0.1	68	0.45	0.042
MCK 51957	Soil	0.4	65.4	2.8	50	<0.1	68.5	15.6	294	2.71	2.6	0.5	1.3	1.2	19	0.1	0.7	<0.1	78	0.44	0.045
MCK 51958	Soil	0.6	40.3	5.6	48	<0.1	24.0	11.6	288	2.58	4.3	0.7	4.5	2.8	21	<0.1	0.2	<0.1	72	0.36	0.048
MCK 51959	Soil	0.6	50.6	6.4	50	0.1	23.7	11.4	415	2.75	3.9	1.3	5.4	2.7	24	0.1	0.3	0.1	76	0.46	0.064
MCK 51960	Soil	0.1	231.7	1.3	89	<0.1	23.0	23.5	381	3.52	0.6	0.2	2.2	0.4	23	<0.1	<0.1	<0.1	138	0.63	0.154
MCK 51961	Soil	<0.1	176.8	0.7	86	<0.1	23.9	23.8	373	3.46	<0.5	0.1	1.5	0.4	38	<0.1	<0.1	<0.1	141	0.72	0.174
MCK 51962	Soil	0.5	73.5	5.8	54	<0.1	21.3	12.5	264	2.90	5.8	0.5	1.6	2.4	22	<0.1	0.3	0.1	86	0.35	0.059
MCK 51963	Soil	0.5	123.4	5.2	75	<0.1	28.5	17.3	336	3.26	5.4	0.5	2.7	2.4	24	<0.1	0.2	<0.1	99	0.42	0.086
MCK 51965	Soil	0.8	69.1	7.3	59	0.1	21.2	15.6	529	2.96	4.9	0.8	4.5	3.4	24	<0.1	0.2	0.1	87	0.43	0.054
MCK 51966	Soil	0.6	107.7	7.6	71	<0.1	27.8	17.5	458	3.46	2.9	0.7	2.9	2.9	27	<0.1	0.2	0.1	109	0.54	0.087
MCK 51967	Soil	0.4	186.0	3.1	68	<0.1	26.4	24.5	594	3.39	2.8	0.3	3.5	1.0	25	0.1	0.2	<0.1	115	0.59	0.093
MCK 51969	Soil	0.2	149.0	1.5	48	<0.1	24.4	16.6	338	2.95	1.3	0.1	0.5	0.6	16	0.1	<0.1	<0.1	102	0.65	0.109
MCK 51970	Soil	0.2	48.2	3.6	19	<0.1	36.7	22.3	578	3.27	0.7	0.1	4.1	0.2	13	0.1	0.1	<0.1	100	0.66	0.071
MCK 51971	Soil	0.6	66.4	12.7	33	<0.1	34.7	11.3	246	2.13	4.0	0.5	2.7	1.6	21	<0.1	0.2	0.1	62	0.35	0.025
MCK 51972	Soil	0.3	73.2	15.3	15	<0.1	22.5	12.3	311	1.16	1.7	0.1	0.8	0.5	10	0.1	0.1	<0.1	38	0.29	0.007
MCK 51973	Soil	0.3	62.6	3.2	11	<0.1	18.1	9.3	240	1.02	1.1	0.1	1.9	0.3	8	<0.1	<0.1	<0.1	31	0.30	0.004
MCK 51976	Soil	0.1	98.5	4.7	19	<0.1	60.5	12.2	167	1.27	0.9	<0.1	0.8	0.4	14	<0.1	<0.1	<0.1	32	0.36	0.013



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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 51935	Soil	4	16	2.01	1157	0.278	1	2.74	0.021	1.17	0.2	0.03	5.7	0.7	<0.05	12	<0.5
MCK 51937	Soil	26	55	0.62	663	0.063	2	1.42	0.015	0.08	0.1	0.06	4.4	<0.1	<0.05	4	<0.5
MCK 51938	Soil	10	66	1.45	637	0.182	1	2.11	0.015	0.40	0.1	0.03	4.5	0.1	<0.05	8	<0.5
MCK 51939	Soil	12	101	1.32	766	0.200	<1	2.14	0.011	0.69	0.3	0.01	2.6	0.3	<0.05	7	<0.5
MCK 51940	Soil	15	64	0.89	542	0.124	2	1.88	0.011	0.32	0.2	0.03	3.0	0.2	<0.05	7	<0.5
MCK 51941	Soil	19	47	0.58	1055	0.067	3	1.38	0.012	0.17	0.1	0.07	5.5	0.1	0.07	4	<0.5
MCK 51942	Soil	24	63	0.71	961	0.079	1	1.63	0.011	0.20	0.1	0.05	6.8	0.2	<0.05	5	<0.5
MCK 51943	Soil	19	34	0.31	1729	0.034	2	1.38	0.011	0.06	<0.1	0.06	4.3	<0.1	<0.05	5	<0.5
MCK 51944	Soil	33	34	0.39	608	0.075	1	1.51	0.012	0.06	0.2	0.03	3.3	<0.1	<0.05	4	<0.5
MCK 51946	Soil	19	25	0.30	689	0.028	3	1.50	0.009	0.07	0.1	0.02	3.1	0.1	<0.05	5	<0.5
MCK 51947	Soil	14	27	0.29	773	0.040	2	1.16	0.009	0.07	<0.1	0.02	3.5	0.1	<0.05	4	<0.5
MCK 51948	Soil	12	37	0.38	1055	0.048	2	1.80	0.010	0.05	0.1	0.04	4.3	0.1	<0.05	6	<0.5
MCK 51949	Soil	3	84	1.93	392	0.221	1	2.21	0.018	0.74	<0.1	0.01	2.7	0.2	<0.05	7	<0.5
MCK 51955	Soil	4	56	0.78	233	0.042	2	1.34	0.028	0.07	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5
MCK 51957	Soil	4	145	1.30	364	0.103	2	1.83	0.019	0.16	<0.1	0.03	4.2	0.2	<0.05	6	<0.5
MCK 51958	Soil	9	49	0.72	271	0.108	<1	1.51	0.016	0.06	0.1	0.04	3.6	<0.1	<0.05	5	<0.5
MCK 51959	Soil	10	44	0.68	328	0.095	2	1.58	0.017	0.09	0.1	0.05	5.8	<0.1	<0.05	5	<0.5
MCK 51960	Soil	2	21	2.08	822	0.220	<1	2.41	0.021	0.87	<0.1	0.02	5.1	0.2	<0.05	9	<0.5
MCK 51961	Soil	2	20	1.95	760	0.231	<1	2.14	0.014	1.01	<0.1	<0.01	3.4	0.2	<0.05	7	<0.5
MCK 51962	Soil	8	31	0.77	300	0.112	1	1.74	0.016	0.07	0.1	0.02	3.4	<0.1	<0.05	5	<0.5
MCK 51963	Soil	7	36	1.19	641	0.140	2	2.18	0.020	0.37	<0.1	0.02	3.7	0.1	<0.05	7	<0.5
MCK 51965	Soil	11	37	0.72	435	0.098	1	1.73	0.017	0.07	<0.1	0.04	5.1	<0.1	<0.05	6	<0.5
MCK 51966	Soil	10	35	0.93	586	0.115	3	1.66	0.016	0.30	0.1	0.04	6.4	0.2	<0.05	6	<0.5
MCK 51967	Soil	4	37	1.25	363	0.127	2	2.05	0.024	0.21	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5
MCK 51969	Soil	2	43	1.12	236	0.112	<1	1.70	0.035	0.25	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5
MCK 51970	Soil	2	123	1.77	111	0.045	<1	1.75	0.023	0.11	<0.1	0.01	10.7	<0.1	<0.05	6	<0.5
MCK 51971	Soil	7	65	0.67	190	0.064	1	1.55	0.012	0.03	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5
MCK 51972	Soil	2	34	0.55	75	0.047	<1	0.84	0.010	0.02	<0.1	0.02	3.7	<0.1	<0.05	2	<0.5
MCK 51973	Soil	1	23	0.30	75	0.027	<1	0.73	0.006	0.01	<0.1	0.01	4.9	<0.1	<0.05	2	<0.5
MCK 51976	Soil	2	172	1.06	74	0.024	1	1.27	0.008	0.04	<0.1	0.01	4.1	<0.1	<0.05	3	<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
MCK 51977	Soil		0.3	40.6	3.6	24	0.1	30.7	7.8	126	1.38	2.6	0.2	0.6	0.9	14	<0.1	0.2	<0.1	38	0.29	0.015		
MCK 51978	Soil		0.3	53.8	3.0	16	<0.1	31.6	7.8	108	0.97	1.9	0.1	<0.5	0.6	10	<0.1	0.2	<0.1	26	0.20	0.010		
MCK 51979	Soil		0.5	52.9	7.9	37	<0.1	26.4	9.8	238	2.01	4.0	0.5	1.9	1.9	19	0.1	0.3	<0.1	56	0.35	0.027		
MCK 51996	Soil		0.5	68.2	4.6	42	<0.1	21.6	13.8	326	2.57	3.8	0.4	2.8	1.7	21	<0.1	0.3	<0.1	77	0.46	0.036		
MCK 51997	Soil		0.4	84.4	3.8	61	<0.1	30.8	16.2	376	3.01	4.9	0.4	3.1	1.9	21	0.1	0.3	<0.1	91	0.47	0.042		
MCK 51998	Soil		0.5	90.6	4.3	53	<0.1	33.8	16.4	309	2.91	5.1	0.4	4.4	2.0	22	<0.1	0.4	<0.1	89	0.41	0.027		
MCK 51999	Soil		0.2	111.2	1.8	48	<0.1	26.4	14.5	251	2.37	2.1	0.3	2.7	0.7	15	<0.1	0.2	<0.1	77	0.47	0.054		
MCK 52000	Soil		0.6	149.0	3.1	67	<0.1	22.4	20.2	282	4.16	2.4	0.2	1.6	0.8	14	0.1	0.2	<0.1	156	0.32	0.053		
MCK 52001	Soil		0.6	50.1	5.2	49	<0.1	23.9	14.0	276	2.78	5.2	0.4	1.9	1.6	16	0.1	0.3	<0.1	78	0.28	0.054		
MCK 52003	Soil		0.6	35.1	6.1	48	<0.1	20.3	10.1	274	2.59	6.5	0.6	5.2	2.7	23	<0.1	0.3	0.1	66	0.31	0.041		
MCK 52009	Soil		0.5	61.5	3.8	59	<0.1	17.1	13.2	368	2.40	4.2	0.2	2.1	0.8	29	0.1	1.0	<0.1	71	0.34	0.047		
MCK 52010	Soil		0.5	65.5	4.2	58	<0.1	20.7	14.1	276	2.58	4.9	0.2	6.9	1.0	33	0.1	0.5	<0.1	75	0.37	0.030		
MCK 52012	Soil		0.6	38.4	5.4	42	<0.1	27.3	13.3	316	2.87	6.3	0.5	13.8	3.1	24	<0.1	0.4	<0.1	83	0.39	0.045		
MCK 52013	Soil		0.6	72.3	8.0	41	<0.1	29.5	11.6	214	2.66	8.6	0.4	8.1	2.5	18	<0.1	0.4	0.1	71	0.24	0.012		
MCK 52015	Soil		0.6	56.0	5.5	25	<0.1	23.0	8.1	142	1.67	4.2	0.3	3.5	1.3	11	<0.1	0.2	<0.1	47	0.19	0.013		
MCK 52018	Soil		0.8	53.5	5.1	32	<0.1	43.9	11.5	206	2.38	7.4	0.2	0.9	1.3	12	<0.1	0.3	<0.1	58	0.20	0.014		
MCK 52019	Soil		0.4	62.6	3.3	22	<0.1	34.6	8.5	127	1.45	3.6	0.2	1.8	1.3	12	<0.1	0.2	<0.1	35	0.20	0.006		
MCK 52020	Soil		0.3	59.4	3.3	10	<0.1	26.6	9.7	125	0.89	2.2	0.1	<0.5	0.7	7	<0.1	0.1	<0.1	24	0.19	0.006		
MCK 52022	Soil		0.7	165.4	6.9	25	0.2	64.7	21.5	942	2.10	4.0	0.9	4.7	1.5	23	<0.1	0.3	0.1	58	0.39	0.020		
MCK 52024	Soil		0.4	83.5	4.1	42	0.1	47.7	14.7	283	2.16	2.9	0.5	3.5	1.5	20	<0.1	0.1	<0.1	58	0.44	0.044		
MCK 52025	Soil		0.7	164.1	3.6	83	<0.1	31.1	19.4	292	3.30	3.9	0.3	1.4	1.3	12	<0.1	0.2	<0.1	85	0.27	0.044		
MCK 52027	Soil		0.3	52.4	3.3	41	<0.1	18.2	14.1	242	2.67	2.9	0.3	4.2	1.5	14	<0.1	0.2	<0.1	86	0.28	0.026		
MCK 52028	Soil		0.8	55.8	5.9	48	<0.1	26.2	15.3	255	3.18	7.8	0.5	4.9	2.6	15	<0.1	0.5	0.1	82	0.20	0.017		
MCK 52029	Soil		0.4	58.7	2.5	51	<0.1	25.8	22.1	336	3.55	2.0	0.2	1.4	1.0	12	<0.1	<0.1	<0.1	119	0.23	0.027		
MCK 52031	Soil		1.4	89.0	11.0	98	0.2	29.0	21.0	818	4.98	29.3	1.1	201.8	5.5	23	0.1	4.7	0.1	108	0.31	0.042		
MCK 52032	Soil		0.9	27.6	7.8	63	<0.1	27.9	13.5	343	2.95	5.3	1.9	2.3	8.8	20	0.1	0.2	0.2	54	0.36	0.067		
MCK 52035	Soil		1.2	17.2	7.7	56	<0.1	19.7	10.2	319	2.68	6.6	1.4	5.8	6.7	22	<0.1	0.2	0.2	58	0.38	0.052		
MCK 52036	Soil		1.3	16.7	6.9	58	<0.1	18.0	9.5	502	2.57	5.4	1.5	2.4	8.1	23	0.2	0.2	0.2	51	0.41	0.075		
MCK 52037	Soil		1.3	18.6	9.4	57	<0.1	30.6	9.8	340	2.74	5.6	1.3	13.6	7.7	25	0.2	0.2	0.2	68	0.42	0.057		
MCK 52038	Soil		1.3	18.2	9.4	54	<0.1	39.2	9.4	249	2.23	4.5	1.6	1.1	6.0	23	0.2	0.2	0.2	54	0.33	0.048		



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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 51977	Soil	3	74	0.64	132	0.040	1	1.19	0.010	0.02	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5
MCK 51978	Soil	2	64	0.50	68	0.034	<1	0.89	0.007	0.02	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5
MCK 51979	Soil	7	52	0.64	196	0.067	<1	1.42	0.015	0.03	0.1	0.02	3.7	<0.1	<0.05	4	<0.5
MCK 51996	Soil	6	46	0.77	237	0.090	<1	1.37	0.022	0.07	0.1	0.02	4.3	<0.1	<0.05	5	<0.5
MCK 51997	Soil	7	61	1.13	164	0.116	1	1.63	0.031	0.10	<0.1	0.03	6.3	<0.1	<0.05	5	<0.5
MCK 51998	Soil	8	53	0.98	254	0.111	1	1.78	0.026	0.06	<0.1	0.02	5.9	<0.1	<0.05	5	<0.5
MCK 51999	Soil	4	76	0.95	146	0.084	<1	1.23	0.026	0.06	<0.1	<0.01	6.4	<0.1	<0.05	5	<0.5
MCK 52000	Soil	3	29	1.35	627	0.193	<1	2.45	0.026	0.51	<0.1	<0.01	5.8	0.1	<0.05	8	<0.5
MCK 52001	Soil	6	48	0.99	234	0.104	1	2.03	0.015	0.15	0.1	<0.01	3.0	<0.1	<0.05	6	<0.5
MCK 52003	Soil	9	34	0.62	222	0.083	<1	1.81	0.015	0.04	0.1	0.02	4.3	<0.1	<0.05	5	<0.5
MCK 52009	Soil	3	21	0.74	158	0.077	1	1.74	0.017	0.04	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
MCK 52010	Soil	3	29	0.88	206	0.091	<1	1.98	0.011	0.05	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5
MCK 52012	Soil	11	49	0.85	177	0.086	<1	1.80	0.019	0.04	0.1	<0.01	5.8	<0.1	<0.05	5	<0.5
MCK 52013	Soil	7	57	0.67	198	0.072	<1	2.26	0.010	0.03	0.1	0.01	3.7	<0.1	<0.05	5	<0.5
MCK 52015	Soil	4	46	0.47	103	0.054	<1	1.38	0.013	0.02	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5
MCK 52018	Soil	4	106	0.85	114	0.056	<1	2.02	0.007	0.04	0.2	<0.01	3.9	<0.1	<0.05	5	<0.5
MCK 52019	Soil	5	34	0.41	66	0.050	<1	1.15	0.007	0.02	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5
MCK 52020	Soil	2	41	0.26	41	0.033	<1	0.82	0.007	0.01	<0.1	<0.01	1.8	<0.1	<0.05	2	<0.5
MCK 52022	Soil	9	79	0.60	170	0.061	<1	1.82	0.011	0.03	<0.1	0.03	6.6	0.1	<0.05	4	<0.5
MCK 52024	Soil	6	85	1.14	159	0.083	1	1.72	0.019	0.04	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5
MCK 52025	Soil	5	72	1.19	146	0.110	1	2.03	0.022	0.06	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5
MCK 52027	Soil	5	43	1.10	159	0.129	<1	1.80	0.019	0.21	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5
MCK 52028	Soil	7	40	0.90	200	0.117	1	2.23	0.016	0.09	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5
MCK 52029	Soil	7	93	2.31	265	0.227	1	2.85	0.023	0.76	<0.1	<0.01	4.7	0.1	<0.05	7	<0.5
MCK 52031	Soil	12	47	0.74	583	0.062	4	1.40	0.015	0.30	<0.1	0.05	13.3	0.3	<0.05	5	<0.5
MCK 52032	Soil	33	34	0.69	160	0.101	1	1.56	0.012	0.20	0.1	0.02	3.5	0.1	<0.05	6	<0.5
MCK 52035	Soil	20	31	0.49	314	0.077	1	1.50	0.015	0.06	0.2	0.02	3.5	0.1	<0.05	5	<0.5
MCK 52036	Soil	22	28	0.45	266	0.080	1	1.25	0.014	0.11	0.3	0.01	3.7	0.2	<0.05	5	<0.5
MCK 52037	Soil	16	44	0.62	190	0.113	2	1.49	0.015	0.10	0.2	0.01	3.2	<0.1	<0.05	6	<0.5
MCK 52038	Soil	17	49	0.59	194	0.090	2	1.51	0.014	0.08	0.2	0.03	3.0	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	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 52039	Soil	1.2	43.9	4.4	69	<0.1	19.1	13.9	410	3.17	3.6	1.1	<0.5	4.2	20	<0.1	0.2	0.1	81	0.51	0.111	
MCK 52040	Soil	0.8	35.0	6.9	66	<0.1	28.5	11.5	460	2.55	7.8	0.7	2.4	3.3	56	0.3	0.6	0.1	62	1.17	0.082	
MCK 52041	Soil	0.8	62.7	4.7	74	<0.1	30.3	17.3	376	3.84	2.8	1.2	1.4	3.5	21	0.1	0.1	<0.1	111	0.51	0.087	
MCK 52042	Soil	0.7	52.5	4.9	74	<0.1	29.0	16.4	358	3.60	3.0	1.2	1.9	3.6	20	0.2	0.1	<0.1	102	0.48	0.091	
MCK 52043	Soil	1.1	26.3	3.9	54	<0.1	25.0	12.3	371	3.10	2.7	1.2	1.3	5.8	22	<0.1	0.1	0.1	69	0.42	0.095	
MCK 52044	Soil	0.7	67.3	3.6	58	<0.1	19.6	15.2	306	3.18	3.4	0.9	9.5	2.5	17	0.1	0.2	<0.1	92	0.43	0.093	
MCK 52045	Soil	1.0	112.5	2.1	62	<0.1	15.5	17.0	407	3.43	0.8	1.1	1.3	1.2	13	<0.1	<0.1	<0.1	119	0.42	0.091	
MCK 52046	Soil	1.0	129.8	2.1	68	<0.1	16.3	19.3	415	3.72	0.7	1.1	2.1	1.1	13	<0.1	<0.1	<0.1	127	0.42	0.081	
MCK 52048	Soil	0.6	64.1	2.8	79	<0.1	19.1	19.2	467	3.84	3.1	0.9	1.4	2.2	11	0.1	0.2	<0.1	96	0.34	0.089	
MCK 52049	Soil	0.5	17.7	8.2	51	<0.1	13.9	6.9	151	2.27	4.8	1.0	2.9	3.7	16	0.1	0.2	0.2	48	0.25	0.056	
MCK 52050	Soil	0.6	36.0	7.3	62	<0.1	18.2	11.1	305	2.84	5.3	1.0	5.1	4.2	21	0.2	0.2	0.1	69	0.37	0.071	
MCK 52051	Soil	0.6	33.5	5.3	51	<0.1	15.1	11.0	284	2.66	4.2	0.6	6.8	3.0	17	<0.1	0.2	0.1	69	0.35	0.066	
MCK 52052	Soil	0.4	35.1	4.4	46	<0.1	14.6	11.4	261	2.59	3.8	0.7	2.3	2.7	18	0.1	0.2	<0.1	67	0.39	0.064	
MCK 52053	Soil	0.8	23.5	6.9	51	<0.1	17.5	9.9	249	2.75	5.9	0.7	2.4	3.9	19	<0.1	0.3	0.2	66	0.32	0.047	
MCK 52054	Soil	0.6	69.5	5.2	60	<0.1	19.6	14.1	579	2.55	4.1	0.6	3.5	1.6	23	0.2	0.3	0.1	70	0.55	0.063	
MCK 52055	Soil	0.6	45.5	5.7	50	<0.1	18.9	11.9	282	2.26	4.0	0.6	2.3	1.5	22	0.1	0.3	0.1	59	0.44	0.064	
MCK 52056	Soil	0.4	45.3	4.7	39	<0.1	16.8	11.0	204	1.96	3.2	0.4	1.8	1.2	15	<0.1	0.2	<0.1	52	0.34	0.070	
MCK 52057	Soil	0.5	56.1	5.6	56	<0.1	28.1	14.1	280	2.54	5.5	0.5	6.6	1.8	20	0.1	0.3	<0.1	70	0.45	0.070	
MCK 52058	Soil	0.3	98.2	3.9	61	<0.1	17.9	14.7	301	2.70	2.7	0.4	2.7	1.6	19	<0.1	0.3	<0.1	77	0.57	0.086	
MCK 52059	Soil	0.7	95.5	6.2	72	<0.1	21.2	14.1	458	3.35	2.9	0.6	6.8	3.6	19	0.1	0.2	<0.1	85	0.45	0.091	
MCK 52060	Soil	0.5	118.7	3.8	70	<0.1	24.0	18.4	470	3.47	3.3	0.4	3.5	1.7	20	<0.1	0.3	<0.1	103	0.64	0.092	
MCK 52062	Soil	1.1	21.5	10.2	59	<0.1	26.4	10.3	212	2.94	5.8	1.2	2.4	5.7	15	<0.1	0.3	0.2	63	0.20	0.048	
MCK 52063	Soil	0.9	40.3	9.4	78	0.1	55.6	18.2	392	3.64	3.0	2.6	2.8	10.4	24	<0.1	0.2	0.2	69	0.55	0.132	
MCK 52064	Soil	1.3	30.1	8.5	59	<0.1	35.2	13.1	232	3.18	4.9	1.7	2.5	7.2	16	<0.1	0.3	0.2	61	0.24	0.057	
MCK 52065	Soil	1.4	37.1	7.3	64	0.1	44.3	15.8	284	3.42	4.1	2.8	1.3	8.1	20	<0.1	0.2	0.2	64	0.35	0.083	
MCK 52067	Soil	1.1	36.8	10.5	61	<0.1	33.3	14.1	389	3.15	5.8	1.1	5.5	6.2	15	<0.1	0.3	0.2	62	0.25	0.077	
MCK 52068	Soil	0.9	34.2	9.4	68	<0.1	43.3	15.6	275	3.35	4.5	1.3	1.5	8.0	17	<0.1	0.2	0.2	59	0.27	0.059	
MCK 52069	Soil	0.6	28.6	8.5	65	<0.1	32.8	14.7	305	3.11	5.8	1.1	2.5	8.4	15	<0.1	0.3	0.2	59	0.24	0.055	
MCK 52070	Soil	0.5	26.7	8.8	73	<0.1	31.8	12.9	221	2.96	4.6	0.9	3.8	8.7	13	<0.1	0.2	0.2	52	0.21	0.049	
MCK 52071	Soil	0.4	30.9	7.8	107	<0.1	30.0	12.1	209	2.82	3.9	1.1	3.2	9.1	17	0.1	0.3	0.2	53	0.23	0.048	



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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 52039	Soil	15	29	0.94	271	0.118	1	1.68	0.021	0.29	0.2	0.01	4.7	0.1	<0.05	7	<0.5
MCK 52040	Soil	13	31	0.70	269	0.092	3	1.37	0.047	0.08	0.2	0.02	3.8	<0.1	<0.05	4	<0.5
MCK 52041	Soil	14	75	1.25	250	0.149	<1	1.85	0.022	0.41	0.1	<0.01	6.3	0.1	<0.05	7	<0.5
MCK 52042	Soil	13	71	1.27	232	0.140	1	1.91	0.022	0.40	<0.1	<0.01	5.8	0.2	<0.05	7	<0.5
MCK 52043	Soil	13	37	0.92	274	0.133	<1	1.64	0.012	0.46	0.2	<0.01	3.6	0.2	<0.05	6	<0.5
MCK 52044	Soil	9	22	0.83	183	0.135	<1	1.62	0.022	0.36	0.1	0.01	3.5	<0.1	<0.05	6	<0.5
MCK 52045	Soil	4	22	1.28	348	0.156	<1	1.92	0.018	0.71	0.1	<0.01	6.0	0.2	<0.05	7	<0.5
MCK 52046	Soil	4	24	1.40	380	0.175	<1	2.09	0.019	0.80	<0.1	<0.01	6.2	0.2	<0.05	7	<0.5
MCK 52048	Soil	6	44	1.36	224	0.162	<1	2.12	0.015	0.69	<0.1	0.01	3.8	0.2	<0.05	6	<0.5
MCK 52049	Soil	12	24	0.49	228	0.062	1	1.28	0.012	0.07	0.2	0.04	2.4	<0.1	<0.05	5	<0.5
MCK 52050	Soil	13	32	0.76	282	0.088	1	1.58	0.014	0.14	0.2	0.03	3.7	<0.1	<0.05	5	<0.5
MCK 52051	Soil	9	28	0.80	229	0.094	<1	1.54	0.013	0.15	0.2	0.02	2.9	<0.1	<0.05	5	<0.5
MCK 52052	Soil	10	34	0.87	272	0.111	<1	1.56	0.013	0.13	0.2	0.03	3.3	<0.1	<0.05	5	<0.5
MCK 52053	Soil	10	31	0.64	273	0.073	<1	1.64	0.012	0.05	0.2	0.02	3.2	<0.1	<0.05	5	<0.5
MCK 52054	Soil	7	33	0.69	281	0.061	<1	1.41	0.017	0.06	0.2	0.03	4.3	<0.1	<0.05	5	0.5
MCK 52055	Soil	8	34	0.62	269	0.054	<1	1.36	0.019	0.04	0.2	0.03	3.7	<0.1	<0.05	5	<0.5
MCK 52056	Soil	5	30	0.54	173	0.052	<1	1.06	0.014	0.03	0.2	0.03	2.9	<0.1	<0.05	3	<0.5
MCK 52057	Soil	7	43	0.69	201	0.064	<1	1.34	0.017	0.04	0.1	0.10	4.4	<0.1	<0.05	4	<0.5
MCK 52058	Soil	7	22	0.84	359	0.084	<1	1.50	0.016	0.14	0.1	0.03	4.9	<0.1	<0.05	5	<0.5
MCK 52059	Soil	12	25	0.83	766	0.108	1	1.57	0.015	0.27	0.1	0.03	6.6	0.2	<0.05	5	<0.5
MCK 52060	Soil	6	36	0.90	442	0.076	<1	1.60	0.018	0.20	0.1	0.07	7.1	0.1	<0.05	6	<0.5
MCK 52062	Soil	18	38	0.72	143	0.112	<1	1.90	0.010	0.14	0.1	0.02	3.2	0.1	<0.05	7	<0.5
MCK 52063	Soil	60	89	1.43	215	0.155	<1	2.37	0.012	0.58	<0.1	0.02	5.5	0.4	<0.05	8	0.5
MCK 52064	Soil	23	40	0.88	159	0.123	<1	2.14	0.011	0.21	<0.1	0.02	3.4	0.2	<0.05	7	0.8
MCK 52065	Soil	34	53	1.17	200	0.144	<1	2.24	0.010	0.36	0.1	0.02	4.1	0.2	<0.05	7	<0.5
MCK 52067	Soil	15	47	0.86	154	0.138	<1	2.11	0.010	0.24	0.1	0.02	3.0	0.2	<0.05	7	0.9
MCK 52068	Soil	24	67	1.03	152	0.152	<1	2.09	0.011	0.36	0.1	0.01	3.5	0.3	<0.05	6	0.6
MCK 52069	Soil	23	40	0.81	176	0.135	<1	2.14	0.010	0.27	0.1	0.01	3.4	0.2	<0.05	6	0.5
MCK 52070	Soil	25	35	0.82	147	0.143	<1	2.05	0.011	0.33	0.1	0.01	2.8	0.3	<0.05	7	<0.5
MCK 52071	Soil	36	34	0.81	163	0.143	<1	1.87	0.009	0.35	0.1	0.02	3.2	0.3	<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
		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
MCK 52072	Soil	0.5	25.9	8.5	78	<0.1	31.3	14.0	238	2.96	3.4	1.1	4.4	14.3	15	<0.1	0.2	0.3	43	0.23
MCK 52073	Soil	0.5	24.5	7.9	77	<0.1	30.9	13.9	236	2.91	3.1	1.2	4.6	14.1	14	<0.1	0.2	0.3	43	0.23
MCK 52074	Soil	0.7	25.1	9.4	54	<0.1	27.5	11.2	219	2.88	6.7	0.9	2.3	5.9	16	<0.1	0.4	0.2	56	0.20
MCK 52075	Soil	1.7	48.9	11.8	75	<0.1	32.0	13.4	375	3.21	5.8	1.7	2.1	4.6	26	0.2	0.3	0.2	62	0.25
MCK 52076	Soil	0.9	38.0	6.4	53	<0.1	61.0	15.8	352	2.90	4.6	2.1	2.7	4.8	30	<0.1	0.2	0.1	60	0.46
MCK 52077	Soil	2.2	52.2	15.8	128	<0.1	58.7	19.0	355	3.84	2.4	1.8	1.5	9.0	25	0.2	0.1	0.3	85	0.40
MCK 52078	Soil	1.2	25.2	12.9	73	<0.1	29.0	11.6	324	2.77	5.1	0.9	2.1	7.2	19	0.1	0.4	0.2	67	0.30
MCK 52079	Soil	3.1	23.7	9.8	59	0.1	28.9	14.9	438	3.31	3.5	3.1	4.4	14.4	25	0.2	0.2	0.2	68	0.57
MCK 52080	Soil	2.7	41.4	11.1	81	<0.1	43.5	16.6	521	3.97	20.1	2.3	3.6	11.0	21	0.1	2.8	0.3	47	0.43
MCK 52081	Soil	0.8	30.5	9.8	57	<0.1	28.3	12.5	308	2.85	6.2	1.4	2.5	9.9	21	<0.1	0.3	0.2	52	0.29
MCK 52082	Soil	1.2	29.0	7.6	60	<0.1	32.9	14.4	562	3.00	3.3	2.1	2.9	6.8	22	0.2	0.2	0.2	56	0.50
MCK 52083	Soil	1.2	28.3	10.5	80	<0.1	36.6	16.9	350	3.81	11.9	1.9	1.9	11.2	16	<0.1	1.0	0.2	55	0.35
MCK 52084	Soil	0.7	23.6	7.5	59	0.1	27.6	10.5	322	2.77	4.3	1.9	1.8	7.5	20	0.1	0.2	0.2	49	0.36
MCK 52085	Soil	0.7	29.0	7.3	60	0.1	37.1	12.5	262	2.98	5.2	1.1	<0.5	7.6	17	<0.1	0.3	0.1	58	0.29
MCK 52086	Soil	1.4	59.7	9.8	114	0.1	49.6	15.7	550	3.76	4.3	1.9	1.0	9.5	32	0.2	0.2	0.3	78	0.50
MCK 52087	Soil	1.6	30.3	7.2	58	<0.1	59.1	13.2	362	3.58	22.8	1.4	1.3	8.4	31	0.2	0.3	0.2	125	0.61
MCK 52088	Soil	1.3	14.5	8.5	68	<0.1	18.6	14.4	1646	2.86	5.2	1.3	<0.5	8.3	28	0.1	0.2	0.2	56	0.27
MCK 52089	Soil	0.9	12.5	9.0	56	<0.1	14.5	8.5	607	3.05	6.6	1.0	0.7	6.7	25	<0.1	0.4	0.2	64	0.20
MCK 52090	Soil	2.4	28.2	5.5	73	<0.1	12.6	7.4	570	3.73	4.3	2.4	<0.5	11.1	43	<0.1	0.2	0.3	36	0.41
MCK 52091	Soil	2.4	64.8	6.7	61	<0.1	18.2	8.3	377	3.04	5.3	2.2	0.6	9.0	31	0.1	0.2	0.2	49	0.34
MCK 52092	Soil	1.5	32.0	4.8	55	<0.1	13.7	7.5	346	2.91	3.6	1.6	1.0	7.7	32	0.1	0.2	0.2	48	0.33
MCK 52163	Soil	0.7	53.1	5.5	36	<0.1	34.5	9.2	243	2.25	5.5	0.3	3.3	1.7	22	<0.1	0.3	0.1	58	0.30
MCK 52164	Soil	1.0	46.8	7.2	33	<0.1	17.2	7.5	242	2.32	5.2	0.3	<0.5	1.6	15	0.1	0.3	0.1	75	0.30
MCK 52166	Soil	0.3	75.5	3.7	11	<0.1	43.0	8.9	96	1.17	2.1	<0.1	<0.5	0.5	10	<0.1	0.1	<0.1	30	0.23
MCK 52167	Soil	0.9	56.5	5.4	35	<0.1	37.0	9.6	225	2.33	6.1	0.3	1.4	2.0	18	<0.1	0.4	<0.1	62	0.24
MCK 52168	Soil	0.3	76.1	3.1	18	<0.1	44.8	8.4	116	1.35	2.8	0.1	4.7	0.8	14	<0.1	0.2	<0.1	28	0.27
MCK 52169	Soil	0.8	67.6	7.6	33	<0.1	41.7	11.0	236	2.26	4.8	0.3	1.6	1.5	19	<0.1	0.3	0.1	58	0.30
MCK 52170	Soil	0.5	57.5	5.6	40	<0.1	29.9	11.5	248	2.55	4.7	0.4	2.5	2.1	19	<0.1	0.3	0.1	63	0.30
MCK 52171	Soil	0.7	70.9	7.2	37	<0.1	34.7	12.3	468	2.09	3.5	0.5	2.7	1.6	20	0.2	0.2	<0.1	59	0.37
MCK 52172	Soil	0.8	44.1	5.8	43	<0.1	27.2	10.8	245	2.49	4.8	0.4	3.5	1.7	20	<0.1	0.3	<0.1	67	0.36



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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 52072	Soil	21	33	0.91	179	0.140	<1	2.14	0.008	0.53	0.1	0.02	3.5	0.5	<0.05	6	<0.5
MCK 52073	Soil	20	32	0.87	175	0.145	<1	2.08	0.008	0.53	0.1	0.01	3.6	0.4	<0.05	6	<0.5
MCK 52074	Soil	21	33	0.69	170	0.097	<1	1.92	0.011	0.13	0.1	0.02	3.8	0.2	<0.05	6	<0.5
MCK 52075	Soil	19	35	0.75	182	0.084	<1	1.86	0.014	0.15	0.1	0.02	2.7	0.2	0.08	6	0.9
MCK 52076	Soil	15	117	1.23	299	0.118	<1	2.02	0.013	0.18	<0.1	0.02	4.6	0.1	<0.05	6	<0.5
MCK 52077	Soil	26	72	1.36	430	0.159	<1	2.47	0.012	0.58	0.1	<0.01	4.5	0.4	0.08	8	1.2
MCK 52078	Soil	15	46	0.79	300	0.090	<1	1.98	0.011	0.09	0.2	0.02	3.8	0.1	<0.05	6	<0.5
MCK 52079	Soil	46	45	1.02	366	0.091	<1	2.06	0.012	0.24	0.3	0.04	5.9	0.3	<0.05	7	<0.5
MCK 52080	Soil	21	31	0.51	195	0.045	<1	1.06	0.010	0.17	<0.1	0.06	5.1	0.2	<0.05	4	0.7
MCK 52081	Soil	33	35	0.70	207	0.070	<1	1.72	0.011	0.09	0.1	0.02	4.3	0.1	<0.05	6	<0.5
MCK 52082	Soil	34	47	0.89	239	0.098	<1	1.82	0.012	0.22	0.1	0.04	4.5	0.2	<0.05	6	<0.5
MCK 52083	Soil	35	43	1.10	166	0.144	<1	2.29	0.010	0.47	0.1	0.02	3.5	0.3	<0.05	8	0.5
MCK 52084	Soil	33	35	0.75	151	0.092	2	1.85	0.015	0.17	0.1	0.02	3.4	0.1	<0.05	5	<0.5
MCK 52085	Soil	29	46	0.99	220	0.133	<1	2.05	0.012	0.25	<0.1	<0.01	3.5	0.2	<0.05	6	<0.5
MCK 52086	Soil	41	64	1.37	351	0.140	1	2.54	0.015	0.40	<0.1	<0.01	5.1	0.3	0.05	8	0.6
MCK 52087	Soil	22	148	1.73	326	0.189	1	2.68	0.010	0.52	0.3	<0.01	6.9	0.4	<0.05	13	<0.5
MCK 52088	Soil	13	34	0.61	198	0.111	<1	1.56	0.014	0.17	0.2	<0.01	2.3	0.2	<0.05	7	<0.5
MCK 52089	Soil	14	31	0.60	137	0.116	2	1.80	0.013	0.11	0.2	0.01	2.3	0.2	<0.05	8	<0.5
MCK 52090	Soil	43	22	0.75	284	0.173	<1	1.90	0.011	0.38	<0.1	0.01	3.7	0.3	<0.05	8	<0.5
MCK 52091	Soil	37	30	0.64	166	0.114	2	1.74	0.013	0.18	0.1	0.01	3.4	0.2	<0.05	7	<0.5
MCK 52092	Soil	28	23	0.67	181	0.135	1	1.60	0.012	0.28	0.2	<0.01	2.5	0.2	<0.05	6	<0.5
MCK 52163	Soil	7	68	0.67	142	0.059	2	1.77	0.011	0.03	0.1	0.01	3.3	<0.1	<0.05	5	<0.5
MCK 52164	Soil	7	32	0.45	121	0.074	1	1.38	0.012	0.05	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5
MCK 52166	Soil	2	89	0.54	63	0.038	<1	1.12	0.007	0.02	<0.1	<0.01	2.5	<0.1	<0.05	2	<0.5
MCK 52167	Soil	7	76	0.72	117	0.066	1	1.88	0.010	0.03	<0.1	<0.01	3.1	<0.1	<0.05	5	<0.5
MCK 52168	Soil	3	77	0.64	63	0.044	<1	1.35	0.010	0.02	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5
MCK 52169	Soil	6	75	0.77	120	0.067	<1	1.73	0.012	0.04	0.1	0.02	3.5	<0.1	<0.05	5	<0.5
MCK 52170	Soil	8	55	0.66	175	0.083	2	1.96	0.016	0.04	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5
MCK 52171	Soil	7	68	0.78	200	0.066	1	1.64	0.020	0.04	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5
MCK 52172	Soil	7	54	0.76	155	0.079	1	1.63	0.015	0.05	<0.1	<0.01	3.5	<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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
MCK 52180	Soil	1.5	69.1	12.4	142	<0.1	59.7	20.2	765	4.01	2.8	1.6	2.2	10.0	20	0.3	0.2	0.2	84	0.31	0.086
MCK 52181	Soil	1.2	54.0	7.8	66	<0.1	22.4	12.3	334	3.68	8.0	0.3	<0.5	2.0	18	0.1	0.6	0.1	91	0.24	0.026
MCK 52182	Soil	0.8	40.7	6.8	61	<0.1	22.9	12.1	455	3.20	7.6	0.5	1.6	2.8	22	<0.1	0.5	0.1	80	0.27	0.022
MCK 52183	Soil	0.5	56.0	4.8	47	<0.1	52.8	13.2	335	3.03	5.6	0.4	3.5	1.8	19	<0.1	0.4	<0.1	86	0.30	0.025
MCK 52184	Soil	0.5	63.3	6.2	49	<0.1	38.9	12.6	401	2.64	3.5	0.5	2.0	2.3	20	0.1	0.3	0.1	65	0.30	0.037
MCK 52185	Soil	0.5	100.6	2.0	22	<0.1	9.8	6.5	160	1.80	2.5	0.1	<0.5	0.3	6	0.1	0.2	<0.1	62	0.29	0.020
MCK 52188	Soil	0.3	69.1	4.3	61	<0.1	22.8	11.3	320	2.64	2.6	0.4	2.9	2.2	18	<0.1	0.2	<0.1	66	0.34	0.030
MCK 52191	Soil	0.5	140.5	4.5	50	0.2	26.3	14.0	422	3.02	3.1	0.6	5.3	1.6	22	0.1	0.5	<0.1	84	0.48	0.033
MCK 52192	Soil	0.5	74.9	3.8	46	0.1	17.5	12.7	260	2.87	2.7	0.6	3.3	1.7	20	<0.1	0.2	<0.1	77	0.48	0.048
MCK 52198	Soil	0.8	84.6	5.7	59	<0.1	22.0	12.8	475	3.19	6.6	0.3	1.2	1.7	20	0.1	0.4	0.1	98	0.34	0.034
MCK 52199	Soil	0.5	59.1	4.6	45	<0.1	29.9	12.8	275	2.82	6.1	0.5	8.3	2.6	20	<0.1	0.4	<0.1	76	0.38	0.031
MCK 52200	Soil	0.4	278.5	1.0	75	<0.1	29.1	16.1	294	3.67	1.4	0.1	1.3	0.4	11	<0.1	0.2	<0.1	104	0.55	0.029
MCK 52201	Soil	0.3	180.8	3.9	60	<0.1	42.3	18.8	443	3.84	1.3	0.2	3.4	0.7	16	<0.1	0.1	<0.1	112	0.67	0.072
MCK 52202	Soil	0.3	44.7	4.4	20	<0.1	21.8	9.6	134	1.67	3.0	0.2	0.7	1.2	12	<0.1	0.2	<0.1	46	0.28	0.009
MCK 52203	Soil	0.3	67.4	4.0	22	<0.1	44.3	10.6	169	1.58	2.3	0.2	1.0	1.0	14	<0.1	0.2	<0.1	38	0.29	0.016
MCK 52205	Soil	0.7	83.4	7.9	37	0.2	37.8	14.1	504	2.10	2.8	0.6	5.4	0.7	22	0.1	0.2	0.1	55	0.40	0.053
MCK 52206	Soil	0.7	58.7	17.7	38	<0.1	29.6	11.2	223	2.26	5.4	0.4	11.1	1.7	19	<0.1	0.3	0.1	57	0.27	0.025
MCK 52207	Soil	0.5	96.4	5.1	32	<0.1	30.2	12.7	223	2.20	4.4	0.3	2.0	1.5	17	<0.1	0.2	<0.1	62	0.29	0.018
MCK 52209	Soil	1.0	41.7	10.2	35	<0.1	28.5	10.8	200	2.22	4.8	0.3	1.8	1.3	14	<0.1	0.3	0.1	58	0.25	0.019
MCK 52210	Soil	0.6	36.5	7.0	40	<0.1	23.8	9.2	306	2.16	5.3	0.4	3.2	1.7	19	<0.1	0.3	<0.1	57	0.34	0.028
MCK 52211	Soil	0.5	37.7	5.7	39	<0.1	17.8	9.4	250	2.15	5.1	0.6	1.4	2.5	20	<0.1	0.3	0.1	54	0.34	0.036
MCK 52213	Soil	1.4	16.4	9.7	68	<0.1	25.5	12.9	424	3.02	6.8	0.6	7.6	3.6	14	0.2	0.2	0.2	70	0.20	0.056
MCK 52214	Soil	0.9	29.7	9.0	64	<0.1	29.4	12.1	273	2.81	4.4	1.2	1.5	5.6	18	0.1	0.2	0.2	59	0.28	0.063
MCK 52215	Soil	0.7	26.3	6.5	61	<0.1	33.0	14.0	282	2.88	4.6	0.9	0.7	5.6	15	<0.1	0.2	0.1	60	0.23	0.052
MCK 52217	Soil	1.0	15.9	7.3	53	<0.1	27.0	8.1	205	2.39	4.5	1.3	8.5	6.3	19	0.2	0.2	0.2	52	0.33	0.063
MCK 52218	Soil	0.7	18.8	6.4	47	<0.1	21.2	6.6	117	1.65	2.2	1.6	13.8	4.4	17	0.2	0.1	0.2	32	0.30	0.053
MCK 52219	Soil	0.8	22.5	5.2	57	<0.1	21.4	10.3	431	2.33	5.5	0.7	0.6	3.4	29	0.2	0.3	0.1	52	0.58	0.067
MCK 52220	Soil	0.7	20.7	6.1	51	<0.1	21.7	9.3	335	2.22	6.2	0.7	1.1	2.6	31	0.3	0.4	0.1	57	0.60	0.060
MCK 52221	Soil	0.8	22.1	6.4	56	<0.1	24.4	8.9	174	2.31	3.8	1.2	<0.5	4.1	19	0.2	0.2	0.1	57	0.37	0.077
MCK 52222	Soil	0.9	15.9	5.7	45	<0.1	24.2	8.1	181	2.14	4.2	1.6	2.2	5.1	20	0.2	0.2	0.1	46	0.34	0.071



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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 52180	Soil	38	56	1.40	432	0.116	<1	2.72	0.013	0.49	<0.1	<0.01	4.2	0.3	<0.05	9	0.6
MCK 52181	Soil	7	34	0.70	230	0.096	1	2.23	0.019	0.07	<0.1	<0.01	3.9	<0.1	<0.05	8	<0.5
MCK 52182	Soil	9	36	0.67	267	0.101	<1	2.09	0.016	0.09	0.1	0.01	4.1	<0.1	<0.05	6	<0.5
MCK 52183	Soil	7	108	1.22	203	0.112	1	2.12	0.017	0.05	<0.1	0.01	4.1	<0.1	<0.05	6	<0.5
MCK 52184	Soil	11	84	1.04	348	0.098	1	1.74	0.015	0.20	<0.1	<0.01	4.2	0.1	<0.05	6	<0.5
MCK 52185	Soil	1	20	0.43	71	0.046	<1	1.02	0.034	0.06	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5
MCK 52188	Soil	8	48	1.09	339	0.116	<1	1.78	0.013	0.21	<0.1	<0.01	4.0	0.1	<0.05	6	<0.5
MCK 52191	Soil	9	58	0.95	281	0.100	2	1.80	0.026	0.12	0.1	0.03	7.5	<0.1	<0.05	6	<0.5
MCK 52192	Soil	8	33	0.82	251	0.096	2	1.74	0.021	0.11	<0.1	0.03	5.2	<0.1	<0.05	6	<0.5
MCK 52198	Soil	6	45	0.84	266	0.115	<1	1.85	0.018	0.18	<0.1	0.01	3.7	<0.1	<0.05	6	<0.5
MCK 52199	Soil	11	64	0.85	198	0.082	1	1.64	0.020	0.04	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5
MCK 52200	Soil	2	64	1.56	248	0.045	<1	2.07	0.032	0.02	<0.1	<0.01	7.1	<0.1	<0.05	7	<0.5
MCK 52201	Soil	3	82	1.48	109	0.066	<1	2.05	0.028	0.04	<0.1	<0.01	7.7	<0.1	<0.05	8	<0.5
MCK 52202	Soil	4	41	0.41	80	0.064	<1	1.11	0.009	0.03	<0.1	<0.01	3.4	<0.1	<0.05	3	<0.5
MCK 52203	Soil	5	74	0.78	79	0.052	<1	1.28	0.013	0.03	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5
MCK 52205	Soil	6	79	0.83	170	0.045	<1	1.65	0.016	0.03	<0.1	0.04	6.0	<0.1	<0.05	5	<0.5
MCK 52206	Soil	7	56	0.75	133	0.066	<1	1.68	0.012	0.04	0.1	<0.01	3.5	<0.1	<0.05	5	<0.5
MCK 52207	Soil	6	57	0.64	146	0.068	1	1.37	0.014	0.04	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5
MCK 52209	Soil	5	60	0.62	125	0.050	<1	1.51	0.009	0.03	0.1	0.01	3.0	<0.1	<0.05	4	<0.5
MCK 52210	Soil	7	45	0.59	228	0.053	<1	1.45	0.010	0.03	0.1	0.02	3.8	<0.1	<0.05	4	<0.5
MCK 52211	Soil	9	30	0.41	234	0.058	<1	1.34	0.012	0.03	0.1	0.02	4.4	<0.1	<0.05	4	<0.5
MCK 52213	Soil	11	37	0.70	135	0.088	<1	1.67	0.007	0.10	0.2	0.01	2.6	0.1	<0.05	6	<0.5
MCK 52214	Soil	18	42	0.82	203	0.095	<1	1.91	0.010	0.13	<0.1	0.01	3.8	0.2	<0.05	6	<0.5
MCK 52215	Soil	15	45	0.90	173	0.111	1	1.94	0.009	0.21	0.1	0.01	3.0	0.2	<0.05	6	<0.5
MCK 52217	Soil	17	31	0.43	203	0.076	1	1.32	0.010	0.11	0.3	0.04	3.0	0.1	<0.05	5	<0.5
MCK 52218	Soil	15	27	0.40	158	0.064	1	1.11	0.014	0.10	0.2	0.03	2.5	0.1	<0.05	5	<0.5
MCK 52219	Soil	11	28	0.41	202	0.064	2	1.13	0.020	0.08	0.2	0.01	2.9	<0.1	<0.05	4	<0.5
MCK 52220	Soil	11	27	0.41	226	0.066	2	1.19	0.021	0.05	0.3	0.02	3.0	<0.1	<0.05	3	<0.5
MCK 52221	Soil	14	34	0.47	211	0.086	1	1.33	0.015	0.14	0.3	0.02	3.5	<0.1	<0.05	5	<0.5
MCK 52222	Soil	16	37	0.38	201	0.069	1	1.16	0.011	0.10	0.2	0.02	2.7	0.1	<0.05	4	<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	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates		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
MCK 51005	Soil	0.5	89.4	4.6	50	<0.1	22.8	14.0	245	2.82	3.7	0.4	3.1	1.8	18	<0.1	0.3	0.1	90	0.34
REP MCK 51005	QC	0.5	87.4	4.5	51	<0.1	22.4	13.4	241	2.86	3.6	0.4	3.1	1.8	18	<0.1	0.3	0.1	89	0.36
MCK 51022	Soil	0.6	26.7	9.1	65	<0.1	33.4	13.3	303	3.13	5.6	1.0	2.2	8.2	16	<0.1	0.3	0.2	58	0.21
REP MCK 51022	QC	0.6	26.8	8.8	67	<0.1	32.9	13.6	310	3.17	5.6	1.0	1.8	8.1	16	<0.1	0.3	0.2	58	0.21
MCK 51051	Soil	1.7	32.9	11.5	116	<0.1	38.3	13.1	458	3.51	4.2	1.3	1.5	6.9	20	0.1	0.2	0.2	74	0.25
REP MCK 51051	QC	1.8	34.9	11.7	119	<0.1	40.1	14.1	492	3.74	3.9	1.4	1.3	7.1	21	0.1	0.2	0.2	75	0.25
MCK 51130	Soil	2.2	80.7	27.5	121	<0.1	67.6	24.3	700	4.52	1.0	3.0	0.9	17.7	24	0.4	<0.1	0.5	72	0.54
REP MCK 51130	QC	2.3	82.8	27.5	119	<0.1	69.0	25.7	707	4.53	1.1	3.2	1.5	17.2	24	0.5	<0.1	0.6	71	0.54
MCK 51159	Soil	0.8	12.5	5.6	39	0.1	14.1	4.3	124	1.60	1.7	1.2	<0.5	2.4	14	0.1	<0.1	0.1	22	0.17
REP MCK 51159	QC	0.7	12.8	6.0	38	0.1	13.4	4.3	125	1.56	1.6	1.2	1.7	2.5	13	0.1	<0.1	0.1	23	0.16
MCK 51280	Soil	0.7	60.8	5.8	44	0.2	19.4	11.1	414	2.83	5.4	0.7	5.4	2.3	23	<0.1	0.3	0.1	78	0.41
REP MCK 51280	QC	0.7	60.0	5.6	46	0.2	20.1	11.4	402	2.86	5.8	0.7	2.3	2.0	23	<0.1	0.3	0.1	73	0.38
MCK 51723	Soil	1.8	31.4	8.4	58	<0.1	37.5	12.7	375	3.47	27.3	3.6	18.3	10.9	30	<0.1	0.5	0.2	54	0.38
REP MCK 51723	QC	1.8	31.8	8.9	58	<0.1	39.4	12.6	378	3.51	26.3	3.6	14.2	11.1	30	<0.1	0.5	0.2	56	0.39
MCK 51732	Soil	0.4	62.8	4.0	47	0.1	23.5	11.3	219	2.53	3.6	0.5	3.8	1.4	23	0.1	0.2	<0.1	70	0.50
REP MCK 51732	QC	0.4	64.4	3.8	46	0.1	22.9	11.3	221	2.55	3.5	0.5	8.1	1.4	23	<0.1	0.3	<0.1	73	0.48
MCK 51939	Soil	1.2	31.8	4.8	95	<0.1	44.1	15.6	462	3.41	4.5	0.9	<0.5	3.8	21	0.2	0.2	<0.1	93	0.34
REP MCK 51939	QC	1.2	31.2	4.6	96	<0.1	45.1	16.8	486	3.49	5.0	0.9	<0.5	3.7	22	0.2	0.2	<0.1	97	0.35
MCK 51972	Soil	0.3	73.2	15.3	15	<0.1	22.5	12.3	311	1.16	1.7	0.1	0.8	0.5	10	0.1	0.1	<0.1	38	0.29
REP MCK 51972	QC	0.3	71.6	14.8	15	<0.1	21.7	12.7	314	1.14	1.5	0.1	0.5	0.4	10	0.1	<0.1	<0.1	38	0.28
MCK 52020	Soil	0.3	59.4	3.3	10	<0.1	26.6	9.7	125	0.89	2.2	0.1	<0.5	0.7	7	<0.1	0.1	<0.1	24	0.19
REP MCK 52020	QC	0.3	59.6	3.4	10	<0.1	25.9	10.4	126	0.88	2.1	0.1	<0.5	0.6	7	<0.1	<0.1	<0.1	24	0.18
MCK 52039	Soil	1.2	43.9	4.4	69	<0.1	19.1	13.9	410	3.17	3.6	1.1	<0.5	4.2	20	<0.1	0.2	0.1	81	0.51
REP MCK 52039	QC	1.1	42.9	4.5	68	<0.1	19.3	13.6	407	3.19	3.6	1.1	1.1	4.2	20	0.1	0.1	0.1	81	0.52
MCK 52058	Soil	0.3	98.2	3.9	61	<0.1	17.9	14.7	301	2.70	2.7	0.4	2.7	1.6	19	<0.1	0.3	<0.1	77	0.57
REP MCK 52058	QC	0.3	94.6	3.7	60	<0.1	18.4	14.3	296	2.61	2.6	0.4	3.6	1.6	19	0.1	0.2	<0.1	74	0.55
MCK 52077	Soil	2.2	52.2	15.8	128	<0.1	58.7	19.0	355	3.84	2.4	1.8	1.5	9.0	25	0.2	0.1	0.3	85	0.40
REP MCK 52077	QC	2.3	53.7	16.0	126	<0.1	58.2	19.2	361	3.88	2.5	1.8	1.3	8.9	24	0.2	0.1	0.2	87	0.41



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	Method Analyte Unit MDL	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
		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
Pulp Duplicates																
MCK 51005	Soil	6	45	0.95	186	0.105	1	1.90	0.017	0.09	0.1	0.02	4.7	<0.1	<0.05	6
REP MCK 51005	QC	7	46	0.93	193	0.105	<1	1.88	0.017	0.09	0.1	0.02	4.8	<0.1	<0.05	6
MCK 51022	Soil	24	39	0.82	168	0.151	1	2.17	0.011	0.30	0.2	0.02	3.3	0.3	<0.05	7
REP MCK 51022	QC	24	39	0.81	167	0.149	1	2.16	0.011	0.30	0.1	0.02	3.2	0.3	<0.05	7
MCK 51051	Soil	24	44	1.32	333	0.138	1	2.47	0.015	0.40	<0.1	<0.01	4.2	0.3	<0.05	8
REP MCK 51051	QC	23	46	1.30	340	0.147	1	2.51	0.014	0.41	<0.1	<0.01	4.1	0.3	<0.05	8
MCK 51130	Soil	54	108	1.60	620	0.137	1	2.76	0.013	0.84	<0.1	0.01	8.4	0.6	<0.05	9
REP MCK 51130	QC	53	105	1.55	603	0.138	1	2.73	0.013	0.84	<0.1	<0.01	8.4	0.6	<0.05	9
MCK 51159	Soil	20	21	0.33	127	0.075	<1	0.99	0.008	0.15	0.1	0.02	1.7	0.2	0.06	6
REP MCK 51159	QC	20	24	0.36	127	0.077	<1	1.01	0.008	0.15	<0.1	0.02	1.7	0.2	<0.05	6
MCK 51280	Soil	10	32	0.73	197	0.075	<1	1.62	0.014	0.05	0.2	0.02	4.4	<0.1	<0.05	6
REP MCK 51280	QC	9	31	0.67	190	0.065	<1	1.50	0.012	0.05	0.2	0.02	4.4	<0.1	<0.05	6
MCK 51723	Soil	28	49	0.78	354	0.086	<1	1.95	0.012	0.37	<0.1	0.04	5.6	0.2	<0.05	7
REP MCK 51723	QC	29	48	0.78	380	0.085	<1	1.89	0.011	0.39	0.1	0.04	5.9	0.2	<0.05	6
MCK 51732	Soil	7	49	0.75	448	0.089	<1	1.47	0.018	0.10	0.1	0.02	4.8	<0.1	<0.05	5
REP MCK 51732	QC	7	50	0.74	439	0.088	1	1.48	0.018	0.10	0.1	0.02	4.7	<0.1	<0.05	5
MCK 51939	Soil	12	101	1.32	766	0.200	<1	2.14	0.011	0.69	0.3	0.01	2.6	0.3	<0.05	7
REP MCK 51939	QC	12	101	1.33	795	0.203	1	2.19	0.011	0.68	0.2	0.02	2.8	0.3	<0.05	7
MCK 51972	Soil	2	34	0.55	75	0.047	<1	0.84	0.010	0.02	<0.1	0.02	3.7	<0.1	<0.05	2
REP MCK 51972	QC	2	33	0.55	73	0.046	1	0.80	0.009	0.01	<0.1	0.01	3.7	<0.1	<0.05	2
MCK 52020	Soil	2	41	0.26	41	0.033	<1	0.82	0.007	0.01	<0.1	<0.01	1.8	<0.1	<0.05	2
REP MCK 52020	QC	2	43	0.24	41	0.033	1	0.77	0.006	0.01	<0.1	<0.01	1.7	<0.1	<0.05	2
MCK 52039	Soil	15	29	0.94	271	0.118	1	1.68	0.021	0.29	0.2	0.01	4.7	0.1	<0.05	7
REP MCK 52039	QC	14	29	0.95	271	0.118	1	1.69	0.021	0.30	0.1	0.01	4.8	0.1	<0.05	7
MCK 52058	Soil	7	22	0.84	359	0.084	<1	1.50	0.016	0.14	0.1	0.03	4.9	<0.1	<0.05	5
REP MCK 52058	QC	7	22	0.84	364	0.080	1	1.46	0.016	0.13	0.1	0.03	4.7	0.1	<0.05	4
MCK 52077	Soil	26	72	1.36	430	0.159	<1	2.47	0.012	0.58	0.1	<0.01	4.5	0.4	0.08	8
REP MCK 52077	QC	24	74	1.35	433	0.164	<1	2.54	0.013	0.59	<0.1	<0.01	4.8	0.4	0.07	8



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Project: MCK

Report Date: September 15, 2009

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QUALITY CONTROL REPORT

VAN09004023.1

		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
MCK 52172	Soil	0.8	44.1	5.8	43	<0.1	27.2	10.8	245	2.49	4.8	0.4	3.5	1.7	20	<0.1	0.3	<0.1	67	0.36	0.026
REP MCK 52172	QC	0.7	44.9	6.2	43	<0.1	26.8	10.6	252	2.52	4.6	0.4	1.6	1.8	20	<0.1	0.2	<0.1	70	0.36	0.026
MCK 52181	Soil	1.2	54.0	7.8	66	<0.1	22.4	12.3	334	3.68	8.0	0.3	<0.5	2.0	18	0.1	0.6	0.1	91	0.24	0.026
REP MCK 52181	QC	1.0	55.7	7.8	66	<0.1	22.3	12.0	331	3.65	7.7	0.3	0.9	2.0	18	0.1	0.5	0.2	96	0.25	0.025
Reference Materials																					
STD DS7	Standard	19.7	106.9	69.1	385	0.8	56.5	9.2	594	2.27	47.6	5.1	63.1	4.6	65	6.5	6.0	4.6	83	0.87	0.073
STD DS7	Standard	21.7	112.2	65.9	401	0.8	59.3	10.1	637	2.46	52.0	4.7	61.0	4.5	75	6.7	6.2	4.7	90	0.98	0.080
STD DS7	Standard	23.0	116.2	66.9	417	0.9	61.2	9.9	647	2.50	53.5	4.7	81.6	4.7	78	7.0	6.1	4.8	87	1.03	0.088
STD DS7	Standard	20.5	107.4	67.6	383	0.9	54.9	9.4	600	2.33	49.5	5.0	65.8	4.7	75	6.5	5.8	4.6	84	0.95	0.077
STD DS7	Standard	20.1	109.5	74.5	400	0.8	56.6	9.7	586	2.34	50.3	4.9	65.9	4.4	66	6.1	5.9	4.9	79	0.88	0.075
STD DS7	Standard	19.2	98.4	62.9	375	0.8	50.5	9.1	579	2.24	52.4	4.3	69.3	3.8	59	6.8	5.7	4.3	79	0.87	0.077
STD DS7	Standard	21.7	113.9	71.7	405	0.9	61.0	9.8	659	2.42	56.4	5.2	68.4	4.7	75	6.7	6.3	4.9	87	1.05	0.084
STD DS7	Standard	21.1	100.5	61.4	400	0.8	55.6	9.3	598	2.32	51.7	4.5	59.6	4.2	72	6.5	5.8	4.1	81	0.94	0.078
STD DS7	Standard	21.8	109.1	63.7	393	0.8	54.6	9.4	641	2.38	49.2	4.5	66.8	4.3	67	5.4	5.1	4.1	88	0.94	0.082
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
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
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
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

VAN09004023.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se 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 52172	Soil	7	54	0.76	155	0.079	1	1.63	0.015	0.05	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5
REP MCK 52172	QC	7	56	0.77	159	0.082	<1	1.57	0.018	0.05	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5
MCK 52181	Soil	7	34	0.70	230	0.096	1	2.23	0.019	0.07	<0.1	<0.01	3.9	<0.1	<0.05	8	<0.5
REP MCK 52181	QC	7	33	0.71	230	0.101	1	2.23	0.023	0.07	0.1	<0.01	3.8	<0.1	<0.05	8	<0.5
Reference Materials																	
STD DS7	Standard	11	176	0.98	389	0.113	39	0.95	0.084	0.40	3.9	0.20	2.2	4.3	0.19	5	2.7
STD DS7	Standard	13	184	1.04	398	0.123	40	1.00	0.090	0.46	3.9	0.18	2.6	3.8	0.17	4	3.0
STD DS7	Standard	15	185	1.13	428	0.119	40	1.09	0.111	0.48	4.3	0.18	2.8	4.3	0.22	5	3.8
STD DS7	Standard	13	174	1.01	381	0.123	38	1.02	0.104	0.42	4.0	0.19	2.5	4.2	0.19	5	3.5
STD DS7	Standard	11	169	0.98	384	0.109	38	0.96	0.086	0.41	4.1	0.20	2.3	4.2	0.23	4	3.7
STD DS7	Standard	10	165	0.97	368	0.092	39	0.88	0.074	0.40	4.1	0.19	2.2	4.3	0.21	4	3.3
STD DS7	Standard	14	186	1.07	418	0.118	43	1.02	0.097	0.47	4.2	0.20	2.6	4.5	0.17	5	3.9
STD DS7	Standard	12	173	1.04	395	0.107	36	0.83	0.088	0.40	3.8	0.19	2.2	4.2	0.16	4	3.7
STD DS7	Standard	12	181	1.03	373	0.114	38	0.96	0.089	0.41	3.7	0.18	2.5	4.1	0.23	4	3.6
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
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
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