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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 CANADA

Submitted By: Gerry Carlson  
Receiving Lab: Canada-Vancouver  
Received: July 11, 2013  
Report Date: July 27, 2013  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

VAN13002642.1

### CLIENT JOB INFORMATION

Project: MPA Soil  
Shipment ID: MPA-Soil2013-001  
P.O. Number  
Number of Samples: 138

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Pacific Ridge Exploration Ltd.  
1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5  
CANADA

CC: John Brock

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	138	Dry at 60C			VAN
SS80	136	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	138	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. Results apply to samples as submitted. \*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Report Date: July 27, 2013

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Part: 1 of 1

# CERTIFICATE OF ANALYSIS

VAN13002642.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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
1365324	Soil		0.3	14.9	9.5	116	<0.1	11.4	14.6	1248	5.25	3.7	0.8	6.7	3.5	31	0.1	1.2	0.3	85	0.90	0.219
1365325	Soil		0.4	23.0	8.4	89	<0.1	17.3	13.0	880	4.36	6.1	0.7	2.3	3.9	35	<0.1	1.1	0.3	82	0.75	0.137
1365356	Soil		0.5	12.8	5.5	63	<0.1	12.9	8.7	525	3.14	3.0	0.4	4.6	1.3	26	0.1	0.2	0.2	77	0.30	0.051
1365357	Soil		0.7	12.9	5.7	75	<0.1	13.9	14.2	627	3.61	3.4	0.5	2.8	2.6	31	0.1	0.2	0.1	97	0.45	0.093
1365358	Soil		0.3	11.4	5.0	95	<0.1	13.9	20.6	857	4.52	2.4	0.5	3.1	3.4	30	<0.1	0.2	<0.1	133	0.54	0.109
1365359	Soil		0.8	13.4	6.8	99	<0.1	15.5	18.5	1523	4.36	3.2	0.5	4.2	3.9	26	0.3	0.3	0.1	139	0.40	0.085
1365360	Soil		0.5	14.7	2.9	26	<0.1	7.7	7.7	274	1.60	0.5	1.2	6.6	1.2	66	0.2	0.2	0.2	36	1.66	0.081
1365361	Soil		0.7	16.6	5.5	82	0.1	37.9	18.0	1135	3.61	2.0	1.0	11.7	4.4	53	0.2	0.2	<0.1	96	1.21	0.126
1365362	Soil		2.1	14.9	1.3	29	<0.1	9.3	3.6	812	0.52	0.8	0.3	2.0	0.2	106	0.3	0.4	0.1	6	2.72	0.097
1365363	Soil		0.8	12.7	0.7	32	<0.1	9.2	3.4	721	0.41	1.2	0.1	0.6	<0.1	112	0.2	0.2	<0.1	2	4.15	0.091
1365364	Soil		0.5	7.7	0.9	18	<0.1	3.5	1.2	280	0.28	0.6	<0.1	1.9	<0.1	93	0.1	0.2	<0.1	2	3.27	0.065
1365365	Soil		0.4	21.6	6.9	56	<0.1	15.8	9.1	329	2.53	5.7	0.9	7.7	2.7	52	0.2	0.7	<0.1	58	1.17	0.079
1365366	Soil		0.7	14.0	5.9	68	<0.1	13.3	11.2	388	3.27	5.2	1.9	17.7	2.7	85	0.1	0.5	<0.1	81	1.13	0.089
1365367	Soil		0.8	12.1	7.7	67	<0.1	14.3	9.5	463	3.04	7.3	0.6	2.7	3.9	45	0.1	0.6	<0.1	66	0.39	0.055
1365368	Soil		0.2	5.4	3.6	96	<0.1	6.6	12.5	1000	3.79	2.8	0.5	<0.5	2.1	44	<0.1	0.5	<0.1	82	0.81	0.240
1365369	Soil		0.7	18.4	7.8	71	<0.1	18.6	12.0	536	3.41	8.8	0.9	3.7	4.3	34	<0.1	0.5	<0.1	78	0.45	0.080
1365370	Soil		0.4	9.4	6.6	89	<0.1	12.2	11.1	902	3.67	4.5	0.6	3.9	3.8	33	0.1	0.6	<0.1	76	0.61	0.174
1365371	Soil		0.4	9.9	6.5	38	<0.1	12.4	4.6	238	1.67	1.7	0.6	3.4	0.9	33	0.1	0.2	0.1	45	0.35	0.058
1365372	Soil		0.5	12.3	8.4	67	<0.1	27.1	9.7	351	2.72	3.2	0.8	11.5	5.2	58	<0.1	0.5	<0.1	65	0.87	0.125
1365373	Soil		<0.1	14.3	4.7	55	<0.1	11.3	5.2	186	1.50	1.7	0.6	7.5	2.6	40	0.3	0.3	<0.1	32	0.74	0.099
1365374	Soil		0.7	13.8	7.8	60	<0.1	20.4	10.6	456	3.38	6.0	0.6	<0.5	3.6	37	<0.1	0.7	<0.1	81	0.54	0.068
1365375	Soil		0.5	25.4	15.5	81	<0.1	70.7	19.9	931	4.70	6.1	0.8	4.1	10.7	95	0.1	1.0	<0.1	87	0.85	0.206
1365444	Soil		1.7	10.2	10.9	33	<0.1	10.1	4.7	201	3.07	8.4	0.4	0.8	2.5	20	0.1	0.4	0.1	99	0.13	0.048
1365445	Soil		0.7	10.2	7.1	62	<0.1	15.4	8.1	439	2.82	4.4	0.4	9.3	1.9	28	<0.1	0.2	<0.1	69	0.24	0.046
1365446	Soil		0.4	16.9	5.7	75	<0.1	18.1	17.1	923	3.69	2.5	0.6	5.5	3.6	45	0.1	0.2	<0.1	86	0.74	0.084
1365447	Soil		0.4	8.6	5.0	60	<0.1	9.9	12.0	630	3.33	2.3	0.4	9.0	2.6	27	<0.1	0.2	<0.1	100	0.33	0.074
1365448	Soil		0.7	12.6	7.5	57	<0.1	13.3	9.0	584	3.06	4.9	0.4	9.8	2.0	49	0.2	0.3	<0.1	87	0.57	0.058
1365449	Soil		0.1	5.9	2.2	26	<0.1	4.7	3.3	188	1.02	0.9	0.2	15.9	0.6	28	<0.1	<0.1	<0.1	22	0.51	0.040
1365450	Soil		0.3	19.5	7.0	74	<0.1	22.1	11.6	862	2.88	3.3	0.9	63.7	2.4	72	0.2	0.5	<0.1	67	1.61	0.112
1365451	Rock Pulp		2.3	23.1	2.3	40	0.3	22.4	10.1	424	2.52	4.8	0.3	<0.5	0.9	45	0.2	0.4	<0.1	64	0.87	0.059

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 Report Date: July 27, 2013

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Part: 2 of 1

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VAN13002642.1

Method	Analyte	1DX15	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	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1365324	Soil	25	10	0.90	901	0.030	3	1.93	0.018	0.21	0.2	0.02	12.4	<0.1	<0.05	8	0.8	<0.2
1365325	Soil	21	20	0.88	657	0.063	3	2.00	0.025	0.15	0.2	0.03	9.7	<0.1	<0.05	7	0.7	<0.2
1365356	Soil	14	28	1.11	251	0.141	2	2.20	0.013	0.29	<0.1	0.02	4.8	<0.1	<0.05	9	<0.5	<0.2
1365357	Soil	11	28	1.48	405	0.214	2	2.29	0.017	0.39	0.1	0.02	8.3	0.1	<0.05	9	<0.5	<0.2
1365358	Soil	20	30	2.47	455	0.219	2	2.83	0.019	0.61	<0.1	0.02	11.9	0.1	<0.05	11	<0.5	<0.2
1365359	Soil	23	32	1.89	483	0.231	1	2.75	0.017	0.36	0.1	0.07	10.8	0.1	<0.05	12	0.6	<0.2
1365360	Soil	40	13	0.69	1032	0.040	4	1.11	0.012	0.08	<0.1	0.09	8.6	<0.1	0.12	3	0.7	<0.2
1365361	Soil	32	62	1.90	745	0.086	2	2.40	0.016	0.18	<0.1	0.05	13.5	<0.1	<0.05	9	<0.5	<0.2
1365362	Soil	2	6	0.23	212	0.009	8	0.30	0.009	0.03	<0.1	0.09	0.9	<0.1	0.19	<1	0.6	<0.2
1365363	Soil	2	4	0.15	528	0.005	9	0.25	0.012	0.02	<0.1	0.04	0.3	<0.1	0.20	<1	0.6	<0.2
1365364	Soil	<1	4	0.15	572	0.007	10	0.23	0.009	0.02	<0.1	0.07	0.4	<0.1	0.22	<1	0.8	<0.2
1365365	Soil	14	22	0.59	350	0.063	3	1.56	0.019	0.06	0.2	0.04	4.7	<0.1	0.05	5	1.0	<0.2
1365366	Soil	10	23	0.79	393	0.130	2	1.98	0.019	0.12	0.2	0.03	5.9	<0.1	<0.05	8	<0.5	<0.2
1365367	Soil	13	25	0.64	291	0.074	1	1.95	0.012	0.09	0.1	0.02	4.0	<0.1	<0.05	8	<0.5	<0.2
1365368	Soil	9	9	1.24	311	0.069	2	2.20	0.028	0.15	<0.1	<0.01	6.9	<0.1	<0.05	10	<0.5	<0.2
1365369	Soil	18	31	0.87	266	0.134	3	2.27	0.019	0.08	<0.1	0.03	7.4	<0.1	<0.05	8	1.0	<0.2
1365370	Soil	16	21	0.98	514	0.073	2	2.06	0.014	0.12	<0.1	0.01	7.6	<0.1	<0.05	8	<0.5	<0.2
1365371	Soil	19	21	0.35	477	0.041	1	1.21	0.012	0.07	<0.1	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
1365372	Soil	22	49	0.86	491	0.083	2	1.74	0.019	0.08	0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
1365373	Soil	12	20	0.63	174	0.063	2	1.13	0.020	0.05	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
1365374	Soil	15	34	0.67	607	0.064	1	1.84	0.015	0.09	0.2	<0.01	6.6	<0.1	<0.05	6	<0.5	<0.2
1365375	Soil	60	44	0.70	1379	0.036	1	1.82	0.015	0.14	0.2	0.03	13.2	<0.1	<0.05	6	<0.5	<0.2
1365444	Soil	12	26	0.36	199	0.081	<1	1.97	0.008	0.05	<0.1	0.02	3.0	<0.1	<0.05	9	<0.5	<0.2
1365445	Soil	14	27	0.92	484	0.105	2	1.98	0.013	0.13	0.1	0.02	3.7	<0.1	<0.05	8	<0.5	<0.2
1365446	Soil	15	38	2.06	1152	0.178	1	2.90	0.015	0.36	<0.1	0.02	10.0	0.1	<0.05	10	<0.5	<0.2
1365447	Soil	14	22	1.69	573	0.164	1	2.29	0.013	0.32	0.1	0.03	8.8	<0.1	<0.05	10	0.6	<0.2
1365448	Soil	12	25	0.71	730	0.048	2	1.92	0.014	0.10	0.1	0.03	5.2	<0.1	<0.05	8	<0.5	<0.2
1365449	Soil	6	8	0.30	362	0.015	2	0.69	0.007	0.05	<0.1	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1365450	Soil	19	33	1.02	827	0.053	3	1.98	0.017	0.09	0.1	0.07	7.7	<0.1	0.06	7	<0.5	0.4
1365451	Rock Pulp	4	31	0.81	93	0.129	2	1.60	0.091	0.12	11.3	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	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
MDL		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
1365452	Soil	0.3	16.0	6.2	62	0.1	15.1	8.6	568	2.33	3.8	0.7	54.5	1.7	79	0.3	0.4	<0.1	58	1.70	0.086
1365453	Soil	1.0	10.8	5.7	53	<0.1	12.6	10.6	1249	2.21	3.7	0.6	14.1	1.9	66	0.1	0.4	<0.1	52	1.25	0.084
1365454	Soil	3.3	13.9	1.4	22	<0.1	11.4	9.8	2296	0.78	2.0	0.9	1.1	0.1	349	0.3	0.5	<0.1	8	3.17	0.094
1365455	Soil	2.3	13.8	3.7	19	<0.1	8.5	5.8	2390	0.87	3.3	0.9	0.9	0.3	241	0.2	0.5	0.1	12	3.45	0.099
1365456	Soil	0.4	14.7	0.9	6	<0.1	6.1	2.0	224	0.50	<0.5	0.3	1.8	0.1	254	0.3	0.5	<0.1	9	4.18	0.069
1365457	Soil	0.5	18.1	6.7	74	<0.1	15.1	10.8	594	3.75	5.9	1.1	2.4	3.9	42	<0.1	0.7	<0.1	78	0.49	0.101
1365458	Soil	0.4	12.4	4.7	110	<0.1	10.7	14.0	954	4.35	4.5	0.6	2.3	1.8	56	<0.1	0.4	0.2	95	0.98	0.226
1365459	Soil	0.5	12.5	7.1	69	<0.1	14.7	9.7	816	2.91	5.0	0.6	17.2	5.0	30	<0.1	0.4	0.2	51	0.42	0.099
1365460	Soil	0.3	12.9	13.1	79	<0.1	37.9	13.8	1165	3.97	4.3	0.5	2.9	5.2	58	0.1	0.9	0.1	44	0.62	0.135
1365461	Soil	0.2	7.2	6.7	97	<0.1	10.0	12.9	1006	4.28	3.7	0.4	1.5	3.9	52	<0.1	1.2	<0.1	65	0.56	0.171
1365462	Soil	0.3	14.5	8.2	70	<0.1	14.0	10.1	648	3.00	4.9	0.5	1.5	3.2	91	0.2	0.6	0.1	47	0.71	0.103
1365463	Soil	0.4	13.2	5.2	53	<0.1	13.2	8.9	555	2.37	8.2	0.8	2.5	1.4	115	0.2	0.4	0.1	47	1.17	0.079
1365464	Soil	0.6	20.4	19.0	109	<0.1	23.0	18.5	1270	5.08	7.2	0.7	8.3	4.6	64	<0.1	2.8	<0.1	114	1.01	0.275
1365465	Soil	0.3	28.2	7.8	50	<0.1	23.8	9.3	425	2.55	8.1	0.7	1.0	3.8	46	<0.1	0.6	0.1	57	0.72	0.070
1365467	Soil	0.7	6.7	7.4	64	<0.1	9.5	10.6	747	3.15	4.8	0.4	<0.5	1.7	49	0.2	0.5	<0.1	78	0.40	0.066
1365468	Soil	0.8	12.2	6.8	59	<0.1	14.5	9.4	432	2.83	6.2	0.5	<0.5	2.8	32	0.1	0.5	<0.1	69	0.37	0.085
1365469	Soil	0.6	21.6	7.0	57	<0.1	24.0	9.2	515	2.19	4.4	0.5	12.7	1.4	68	0.3	0.5	0.1	38	1.27	0.065
1365470	Soil	0.4	19.1	6.3	61	<0.1	16.1	9.5	661	2.45	5.4	1.0	6.8	3.4	48	0.2	0.6	<0.1	51	0.85	0.100
1378101	Rock Pulp	1.3	427.9	22.0	166	0.2	207.8	70.4	773	15.40	3.1	1.2	28.2	7.6	16	<0.1	0.4	0.1	213	0.29	0.040
1378102	Soil	0.7	14.9	6.4	76	<0.1	22.1	15.0	631	4.04	6.4	0.4	10.8	2.7	48	<0.1	0.3	<0.1	94	0.71	0.193
1378103	Soil	0.6	22.2	7.6	55	<0.1	19.1	12.3	602	2.52	8.3	0.8	<0.5	3.2	43	0.2	0.6	0.1	56	0.57	0.068
1378104	Soil	0.6	14.6	7.8	48	<0.1	19.9	10.2	272	2.85	8.4	0.5	1.7	3.3	24	<0.1	0.4	<0.1	60	0.24	0.039
1378105	Soil	0.4	14.1	9.2	89	<0.1	14.4	15.0	1184	5.00	3.4	0.6	2.6	4.3	43	<0.1	0.7	<0.1	66	0.59	0.145
1378106	Soil	0.5	27.8	7.8	54	<0.1	31.3	11.1	498	2.64	6.2	0.8	2.7	3.4	56	0.1	0.9	<0.1	51	0.79	0.067
1378107	Soil	0.4	16.9	7.4	65	0.1	13.3	8.9	482	2.76	5.1	0.8	12.7	4.2	39	<0.1	0.5	0.4	61	0.74	0.083
1397197	Soil	0.7	10.9	8.2	48	<0.1	13.0	7.8	379	2.90	6.6	0.4	3.5	3.3	16	0.1	0.3	0.1	66	0.18	0.052
1397198	Soil	0.8	8.6	8.6	55	<0.1	43.5	9.7	382	3.96	8.8	0.4	4.9	3.1	13	0.2	0.5	0.1	87	0.13	0.056
1397199	Soil	0.7	15.6	7.3	47	<0.1	15.3	7.9	342	2.43	5.1	0.6	4.7	5.2	25	<0.1	0.3	<0.1	44	0.24	0.032
1397200	Soil	0.5	11.5	6.5	65	<0.1	18.8	11.5	782	2.88	3.5	0.4	21.8	2.9	27	<0.1	0.2	<0.1	60	0.39	0.102
1397426	Soil	0.6	12.6	6.7	41	<0.1	10.5	5.7	320	2.45	4.4	0.3	42.1	1.5	28	<0.1	0.3	<0.1	71	0.26	0.045



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 Vancouver BC V6E 3T5 CANADA

Project: MPA Soil  
 Report Date: July 27, 2013

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	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	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1365452	Soil	12	23	0.69	764	0.053	4	1.59	0.019	0.07	0.2	0.07	5.8	<0.1	<0.05	6	<0.5	<0.2
1365453	Soil	9	19	0.50	344	0.066	3	1.53	0.017	0.05	0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
1365454	Soil	2	7	0.23	441	0.011	7	0.40	0.013	0.02	<0.1	0.04	0.7	<0.1	0.18	1	<0.5	<0.2
1365455	Soil	3	9	0.20	573	0.013	10	0.53	0.011	0.03	<0.1	0.06	1.1	<0.1	0.19	2	0.5	<0.2
1365456	Soil	2	5	0.18	956	0.009	10	0.32	0.011	0.01	<0.1	0.06	0.9	<0.1	0.19	<1	0.7	<0.2
1365457	Soil	27	23	0.81	917	0.050	1	1.99	0.019	0.12	<0.1	0.05	8.8	<0.1	<0.05	7	0.5	<0.2
1365458	Soil	12	15	1.27	391	0.112	2	2.24	0.022	0.08	<0.1	0.02	9.7	<0.1	<0.05	11	<0.5	<0.2
1365459	Soil	21	20	0.68	625	0.046	2	1.73	0.012	0.12	0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
1365460	Soil	26	14	0.27	2209	0.008	3	1.05	0.006	0.17	0.4	0.03	10.3	<0.1	<0.05	3	<0.5	<0.2
1365461	Soil	25	13	0.56	848	0.025	2	1.50	0.007	0.20	0.2	0.03	13.2	<0.1	<0.05	6	<0.5	<0.2
1365462	Soil	18	19	0.48	740	0.034	2	1.16	0.015	0.11	0.2	0.04	7.9	<0.1	<0.05	4	<0.5	<0.2
1365463	Soil	10	21	0.61	495	0.045	3	1.04	0.017	0.04	0.2	0.03	3.5	<0.1	0.06	3	<0.5	<0.2
1365464	Soil	31	28	0.66	614	0.033	2	1.62	0.015	0.11	0.2	0.02	13.2	<0.1	<0.05	8	0.5	<0.2
1365465	Soil	15	28	0.60	317	0.074	2	1.42	0.027	0.06	0.3	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
1365467	Soil	10	19	0.64	481	0.041	<1	1.48	0.011	0.09	0.1	0.03	4.7	<0.1	<0.05	8	<0.5	<0.2
1365468	Soil	12	23	0.53	299	0.060	1	1.64	0.011	0.07	0.2	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
1365469	Soil	11	22	0.42	869	0.034	2	1.27	0.014	0.09	0.1	0.06	6.1	<0.1	<0.05	4	<0.5	<0.2
1365470	Soil	18	21	0.59	415	0.053	2	1.31	0.018	0.07	0.3	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
1378101	Rock Pulp	17	584	0.14	142	0.168	4	4.14	0.012	0.06	<0.1	0.03	40.5	<0.1	<0.05	19	1.3	<0.2
1378102	Soil	12	34	1.02	384	0.079	1	2.09	0.017	0.17	0.1	0.01	7.3	<0.1	<0.05	8	<0.5	<0.2
1378103	Soil	14	28	0.55	345	0.066	1	1.43	0.021	0.05	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2
1378104	Soil	12	30	0.52	341	0.057	3	1.85	0.010	0.06	0.1	0.02	4.1	<0.1	<0.05	6	0.7	<0.2
1378105	Soil	41	10	0.40	1620	0.005	2	1.42	0.006	0.15	0.2	0.04	16.7	<0.1	<0.05	5	<0.5	<0.2
1378106	Soil	15	32	0.51	556	0.057	2	1.56	0.019	0.08	0.1	0.05	6.7	<0.1	<0.05	4	<0.5	<0.2
1378107	Soil	21	21	0.64	462	0.051	<1	1.73	0.014	0.08	0.2	0.04	6.2	0.1	<0.05	7	<0.5	<0.2
1397197	Soil	11	24	0.64	246	0.082	2	1.79	0.010	0.08	0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
1397198	Soil	11	99	1.18	146	0.103	2	2.10	0.008	0.07	0.1	0.03	4.2	<0.1	<0.05	9	<0.5	<0.2
1397199	Soil	19	25	0.63	1046	0.047	<1	1.79	0.009	0.08	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1397200	Soil	10	25	0.84	481	0.041	2	1.66	0.010	0.10	0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
1397426	Soil	10	19	0.46	336	0.037	<1	1.53	0.010	0.08	<0.1	0.04	3.6	<0.1	<0.05	8	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

VAN13002642.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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
1397427	Soil		0.2	18.5	7.9	50	0.2	12.9	7.1	403	1.91	3.2	0.5	103.5	2.0	63	0.1	0.3	<0.1	47	1.54	0.065
1397428	Soil		0.4	13.9	6.9	61	0.2	14.1	8.7	552	2.49	3.8	0.5	103.3	3.0	43	<0.1	0.4	<0.1	58	0.86	0.081
1397429	Soil		0.3	14.9	5.3	68	0.2	12.9	8.5	577	2.38	3.6	0.6	33.3	2.2	52	0.2	0.4	<0.1	52	1.18	0.094
1397430	Soil		0.3	16.6	6.1	67	0.2	14.3	9.3	664	2.35	4.0	0.7	45.1	2.1	55	0.1	0.5	<0.1	56	1.12	0.084
1397431	Soil		0.6	18.2	4.7	32	0.4	8.8	5.6	414	1.23	2.3	1.4	1.5	0.8	130	0.2	0.3	0.1	28	1.39	0.084
1397432	Soil		0.5	13.5	5.2	41	0.2	13.4	13.1	884	1.84	5.6	0.7	1.3	2.1	57	0.1	0.4	<0.1	38	0.87	0.086
1397433	Soil		0.7	10.1	1.7	24	0.3	5.7	4.1	1116	0.88	3.4	1.3	2.1	0.2	214	0.2	0.3	<0.1	14	3.46	0.069
1397434	Soil		0.6	16.6	5.7	40	0.2	12.2	5.5	2983	1.13	2.9	0.9	2.0	1.5	298	0.2	0.3	<0.1	31	1.48	0.056
1397435	Soil		0.3	9.9	4.4	95	0.3	7.1	11.6	1046	3.94	2.3	0.5	1.1	2.5	148	0.1	0.9	<0.1	71	1.18	0.198
1397436	Soil		0.3	4.8	8.8	43	0.2	7.1	4.8	723	2.12	2.7	0.4	1.6	5.2	60	<0.1	0.3	<0.1	20	0.32	0.069
1397437	Soil		0.3	9.6	9.0	95	0.1	18.5	13.8	1237	4.90	3.4	0.5	2.9	2.7	36	0.1	0.8	<0.1	59	0.54	0.156
1397438	Soil		0.9	13.4	9.3	63	0.1	20.1	11.8	432	3.39	9.4	0.8	1.4	4.5	21	0.1	0.5	<0.1	60	0.22	0.063
1397439	Soil		0.5	18.2	11.9	74	0.3	45.1	14.2	697	3.24	5.7	0.7	2.4	5.0	65	<0.1	0.6	0.4	58	1.18	0.109
1397440	Soil		0.4	28.1	8.2	67	0.2	34.8	12.1	898	2.61	5.7	1.0	7.6	3.7	78	0.1	0.8	0.3	53	0.96	0.101
1397441	Soil		0.3	19.5	7.2	56	0.1	20.1	8.0	258	2.42	4.8	0.8	10.9	3.2	47	<0.1	0.5	0.2	48	0.71	0.082
1397442	Soil		0.5	19.8	7.2	62	0.1	20.9	13.7	507	3.16	9.6	1.2	6.0	2.3	51	<0.1	0.5	0.2	55	1.06	0.073
1397443	Soil		0.5	18.8	7.1	81	0.1	18.8	13.3	716	3.54	5.0	0.6	1.2	3.3	75	<0.1	0.6	0.1	73	0.85	0.112
1397444	Soil		1.0	22.7	9.2	61	<0.1	23.7	12.8	355	3.18	8.5	0.9	2.0	4.3	24	<0.1	0.5	<0.1	71	0.28	0.049
1397445	Soil		0.5	18.8	9.1	58	0.1	20.2	11.6	632	3.24	5.3	0.5	8.0	2.8	46	<0.1	0.6	<0.1	49	0.71	0.062
1397446	Soil		0.5	23.5	7.6	58	0.1	23.4	10.0	450	2.62	5.6	0.7	2.6	2.5	100	0.2	0.6	<0.1	53	1.33	0.090
1397447	Soil		0.5	10.0	7.3	70	<0.1	12.2	9.9	595	2.90	4.4	0.6	16.2	3.1	28	<0.1	0.4	<0.1	59	0.48	0.079
1399031	Soil		0.3	18.5	5.8	79	<0.1	19.4	14.1	744	3.31	3.3	0.6	3.1	2.4	41	0.2	0.3	<0.1	90	0.82	0.091
1399032	Soil		0.3	13.0	5.4	91	<0.1	19.5	15.9	828	3.72	4.5	0.6	6.9	3.9	41	<0.1	0.3	<0.1	93	0.70	0.136
1399033	Soil		0.4	12.8	5.0	91	<0.1	14.9	17.1	708	3.85	3.0	0.5	3.6	2.5	35	<0.1	0.2	<0.1	117	0.48	0.086
1399034	Soil		0.6	23.7	7.5	64	0.1	18.5	9.7	611	2.11	3.5	2.2	2.3	2.6	41	0.2	0.4	<0.1	52	0.62	0.073
1399035	Soil		0.5	18.3	6.6	50	<0.1	25.0	11.5	356	2.66	4.8	1.0	5.5	4.8	52	0.1	0.5	<0.1	63	1.09	0.091
1399036	Soil		0.7	27.9	8.9	63	<0.1	41.0	13.9	543	3.27	6.2	1.4	10.3	7.6	43	0.2	0.6	<0.1	72	0.81	0.072
1399037	Soil		0.6	21.7	7.5	52	<0.1	20.7	10.8	401	2.64	5.5	1.7	34.6	2.5	73	0.1	0.6	<0.1	60	1.70	0.077
1399038	Soil		0.9	27.1	8.1	57	<0.1	26.1	11.3	511	2.82	7.2	1.1	17.6	3.1	50	<0.1	0.5	<0.1	62	1.01	0.071
1399039	Soil		0.5	26.7	7.0	57	<0.1	24.3	9.7	478	2.38	6.0	0.8	5.1	2.7	58	0.2	0.4	<0.1	53	1.38	0.066

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VAN13002642.1

	Method Analyte Unit MDL	1DX15	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	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1397427	Soil	16	20	0.57	742	0.031	3	1.36	0.013	0.06	0.1	0.05	4.7	<0.1	0.05	5	<0.5	<0.2
1397428	Soil	13	23	0.71	555	0.041	2	1.55	0.015	0.07	0.1	0.04	5.3	<0.1	<0.05	6	0.5	<0.2
1397429	Soil	14	19	0.68	567	0.045	2	1.38	0.015	0.06	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
1397430	Soil	13	22	0.66	668	0.050	1	1.46	0.016	0.06	0.2	0.05	5.3	<0.1	<0.05	5	0.6	<0.2
1397431	Soil	8	15	0.36	234	0.040	3	0.80	0.013	0.06	<0.1	0.06	2.8	<0.1	0.15	3	<0.5	<0.2
1397432	Soil	10	20	0.41	281	0.058	2	1.00	0.017	0.05	0.2	0.05	3.7	<0.1	<0.05	3	0.5	<0.2
1397433	Soil	3	7	0.21	613	0.011	6	0.34	0.011	0.02	<0.1	0.07	1.3	<0.1	0.22	<1	0.9	<0.2
1397434	Soil	10	19	0.54	1215	0.035	3	1.02	0.015	0.06	0.1	0.06	4.3	<0.1	0.13	3	<0.5	<0.2
1397435	Soil	14	7	0.91	918	0.029	4	1.55	0.008	0.19	<0.1	0.02	9.1	<0.1	<0.05	7	<0.5	<0.2
1397436	Soil	20	8	0.16	1537	0.007	3	0.86	0.005	0.17	<0.1	0.02	4.5	<0.1	<0.05	3	<0.5	<0.2
1397437	Soil	24	10	0.22	1126	0.007	2	1.04	0.006	0.19	0.1	0.03	14.5	<0.1	<0.05	3	<0.5	<0.2
1397438	Soil	14	29	0.41	609	0.048	2	1.76	0.009	0.09	0.2	0.02	5.7	<0.1	<0.05	5	0.6	<0.2
1397439	Soil	38	48	0.63	1231	0.030	2	1.54	0.013	0.08	0.3	0.04	9.1	<0.1	0.06	5	<0.5	<0.2
1397440	Soil	22	31	0.62	988	0.051	2	1.38	0.018	0.07	0.3	0.04	6.0	<0.1	0.05	4	<0.5	<0.2
1397441	Soil	14	27	0.63	361	0.063	2	1.24	0.019	0.06	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
1397442	Soil	13	28	0.68	351	0.056	2	1.38	0.020	0.05	0.1	0.04	4.4	<0.1	0.07	5	<0.5	<0.2
1397443	Soil	17	27	0.79	562	0.075	1	2.07	0.018	0.10	0.2	0.03	8.6	<0.1	<0.05	7	<0.5	<0.2
1397444	Soil	13	35	0.68	372	0.074	<1	2.13	0.013	0.08	0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
1397445	Soil	16	21	0.46	1188	0.027	3	1.42	0.013	0.11	0.2	0.03	8.9	<0.1	<0.05	4	<0.5	<0.2
1397446	Soil	15	29	0.59	494	0.053	2	1.45	0.016	0.07	0.1	0.05	5.3	<0.1	0.08	4	<0.5	<0.2
1397447	Soil	13	21	0.65	250	0.050	1	1.62	0.011	0.08	0.2	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
1399031	Soil	14	37	1.44	847	0.177	2	2.11	0.017	0.19	0.1	0.05	8.2	0.1	<0.05	8	<0.5	<0.2
1399032	Soil	17	37	1.47	401	0.164	1	2.01	0.020	0.23	0.1	0.03	6.8	<0.1	<0.05	8	<0.5	<0.2
1399033	Soil	13	32	1.87	601	0.229	<1	2.37	0.017	0.36	<0.1	0.05	9.5	0.1	<0.05	10	<0.5	<0.2
1399034	Soil	19	25	0.63	314	0.087	1	1.46	0.021	0.06	0.1	0.06	4.7	0.1	<0.05	5	<0.5	<0.2
1399035	Soil	23	42	0.84	303	0.081	1	1.82	0.015	0.06	0.4	0.05	6.1	<0.1	0.05	6	<0.5	<0.2
1399036	Soil	34	53	0.95	361	0.066	1	2.06	0.017	0.07	0.1	0.05	6.8	<0.1	<0.05	7	0.8	<0.2
1399037	Soil	18	27	0.63	408	0.054	2	1.63	0.017	0.05	0.1	0.04	4.6	<0.1	0.07	6	<0.5	<0.2
1399038	Soil	18	31	0.72	413	0.065	<1	1.82	0.021	0.05	0.1	0.05	5.6	<0.1	<0.05	6	0.7	<0.2
1399039	Soil	15	31	0.74	309	0.070	<1	1.57	0.028	0.06	0.1	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2



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Project: MPA Soil  
 Report Date: July 27, 2013

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# CERTIFICATE OF ANALYSIS

VAN13002642.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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
1399040	Soil		0.6	24.6	7.8	48	<0.1	22.1	10.5	480	2.44	6.9	1.0	4.9	2.9	50	<0.1	0.5	<0.1	56	1.19	0.056
1399041	Soil		0.6	7.6	7.4	109	<0.1	12.2	15.7	990	4.75	5.8	0.3	<0.5	1.6	78	<0.1	0.6	<0.1	109	0.89	0.152
1399042	Soil		0.8	9.5	8.3	62	<0.1	12.9	9.1	440	3.09	6.5	0.4	<0.5	2.7	22	0.1	0.5	<0.1	63	0.32	0.044
1399043	Soil		0.8	10.2	6.0	104	0.1	12.7	14.8	995	4.83	5.0	0.4	<0.5	2.3	45	<0.1	0.3	0.3	112	0.81	0.217
1399044	Soil		1.4	13.1	9.4	51	<0.1	13.9	8.6	368	3.03	7.3	0.5	3.2	2.7	21	0.1	0.4	0.2	73	0.23	0.048
1399045	Soil		0.5	17.4	6.4	88	<0.1	15.6	11.1	745	3.73	5.0	0.9	2.1	7.5	32	<0.1	0.7	<0.1	68	0.54	0.107
1399046	Soil		0.3	11.8	5.8	97	<0.1	10.5	9.7	929	3.60	3.0	0.6	60.3	6.0	29	0.1	0.6	<0.1	56	0.69	0.169
1399047	Soil		0.3	8.8	6.6	107	<0.1	9.7	9.5	790	3.71	3.7	0.7	16.2	7.6	25	0.1	0.5	<0.1	56	0.67	0.175
1399048	Soil		0.6	13.4	7.1	78	<0.1	14.5	11.7	1251	2.99	4.9	0.8	4.8	3.7	45	0.1	0.5	<0.1	64	0.92	0.103
1399049	Soil		0.5	13.2	6.9	59	<0.1	15.2	9.5	311	2.72	5.2	0.9	4.4	3.4	34	0.1	0.4	<0.1	56	0.62	0.085
1399050	Soil		0.9	26.7	7.9	50	0.1	28.7	13.0	740	2.62	5.8	0.8	12.3	2.1	111	0.2	0.7	<0.1	45	1.13	0.049
1399052	Soil		0.8	15.7	9.1	68	<0.1	26.6	14.6	960	4.25	4.4	0.7	84.1	2.1	115	<0.1	0.5	<0.1	42	1.48	0.094
1399053	Soil		0.6	23.2	8.0	62	0.1	19.5	9.1	319	2.43	6.0	0.8	2.4	3.3	46	<0.1	0.7	<0.1	56	0.67	0.078
1399054	Soil		0.6	21.7	7.9	74	<0.1	18.8	11.3	535	3.17	6.5	0.8	1.9	3.8	42	0.1	0.7	<0.1	70	0.64	0.104
1399055	Soil		1.8	15.4	10.4	64	<0.1	21.8	11.8	349	3.36	9.9	0.7	<0.5	4.1	24	0.1	0.5	0.1	77	0.23	0.052
1399056	Soil		0.7	31.0	10.0	61	0.1	68.5	18.1	627	3.45	9.8	0.6	3.0	4.9	48	<0.1	0.6	<0.1	77	0.61	0.064
1399057	Soil		0.3	25.8	7.6	68	<0.1	18.8	10.2	448	2.68	4.4	1.7	3.3	3.2	138	0.2	0.8	<0.1	60	1.50	0.092
1399058	Soil		0.5	13.0	6.3	59	<0.1	16.4	10.4	333	3.12	8.8	0.6	2.8	2.3	187	0.1	0.4	<0.1	48	1.14	0.096
1399059	Soil		0.5	17.5	6.9	89	<0.1	14.0	14.5	1096	3.19	5.2	0.9	108.6	3.0	64	0.2	0.6	0.1	68	1.14	0.119
1399713	Soil		0.5	23.4	6.0	83	<0.1	16.5	14.0	881	4.28	5.0	0.8	4.1	3.7	35	0.1	0.2	<0.1	93	0.47	0.098
1399714	Soil		0.6	10.2	5.9	87	<0.1	16.5	15.8	591	4.17	5.7	0.5	3.8	3.6	25	0.1	0.2	<0.1	102	0.40	0.085
1399715	Soil		0.5	10.0	7.3	83	<0.1	15.2	14.1	757	3.93	5.0	0.5	9.8	3.3	29	0.2	0.2	<0.1	90	0.50	0.073
1399716	Soil		0.7	8.6	7.8	51	<0.1	11.5	7.3	239	2.88	5.6	0.3	3.0	1.5	23	0.1	0.3	0.1	93	0.38	0.031
1399717	Soil		0.3	13.8	5.7	91	<0.1	20.9	17.0	775	3.47	3.4	0.8	6.0	3.3	39	0.2	0.2	<0.1	77	1.22	0.087
1399718	Soil		0.3	18.8	8.0	53	<0.1	15.7	7.6	212	2.11	4.2	0.9	11.7	2.9	52	<0.1	0.5	0.1	48	1.13	0.072
1399719	Soil		0.7	25.2	7.7	60	<0.1	23.9	12.8	523	2.81	6.3	1.0	10.8	3.7	56	0.3	0.7	<0.1	65	1.03	0.083
1399720	Soil		0.6	29.7	7.6	58	0.1	28.7	10.2	453	2.64	6.8	0.8	47.6	3.6	42	0.1	0.6	<0.1	60	0.77	0.088
1399721	Soil		0.7	11.5	6.6	59	<0.1	10.5	8.3	775	2.31	4.4	1.1	4.6	1.7	51	<0.1	0.8	<0.1	51	1.50	0.098
1399722	Soil		0.5	17.6	5.7	53	<0.1	12.5	9.5	498	2.49	5.5	1.4	11.3	1.0	67	0.1	0.6	0.1	55	2.12	0.089
1399723	Soil		0.6	9.8	6.5	98	<0.1	11.9	13.2	828	4.83	5.5	0.8	9.7	3.5	34	<0.1	0.5	<0.1	83	0.66	0.137

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.





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Project: MPA Soil  
 Report Date: July 27, 2013

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# CERTIFICATE OF ANALYSIS

VAN13002642.1

	Method Analyte Unit MDL	1DX15	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	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1399040	Soil	16	27	0.62	403	0.068	2	1.50	0.025	0.06	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
1399041	Soil	6	18	1.56	269	0.123	1	3.01	0.019	0.08	0.2	<0.01	6.4	<0.1	<0.05	12	<0.5	<0.2
1399042	Soil	8	25	0.63	307	0.044	<1	1.75	0.009	0.11	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1399043	Soil	9	20	1.49	321	0.134	1	2.65	0.020	0.18	<0.1	0.01	7.7	0.1	<0.05	11	<0.5	<0.2
1399044	Soil	12	26	0.52	297	0.051	1	1.80	0.010	0.05	0.1	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
1399045	Soil	34	23	0.88	485	0.062	2	2.07	0.012	0.11	0.1	0.05	8.0	<0.1	<0.05	8	<0.5	<0.2
1399046	Soil	29	14	0.83	542	0.038	1	1.74	0.011	0.14	0.1	0.03	6.3	<0.1	<0.05	8	<0.5	0.3
1399047	Soil	27	14	0.75	433	0.045	2	1.66	0.010	0.17	0.1	0.03	6.3	<0.1	<0.05	7	<0.5	<0.2
1399048	Soil	16	23	0.71	424	0.055	<1	1.76	0.017	0.06	0.1	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
1399049	Soil	14	26	0.61	249	0.070	1	1.37	0.018	0.05	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
1399050	Soil	12	26	0.54	791	0.035	4	1.20	0.014	0.09	0.2	0.05	6.0	<0.1	<0.05	3	<0.5	<0.2
1399052	Soil	14	18	0.37	1607	0.012	2	1.12	0.010	0.16	<0.1	0.03	11.5	<0.1	<0.05	3	<0.5	<0.2
1399053	Soil	14	29	0.66	315	0.078	1	1.44	0.026	0.06	0.2	0.04	4.6	<0.1	<0.05	4	0.7	<0.2
1399054	Soil	17	28	0.74	543	0.086	1	1.80	0.022	0.09	0.2	0.04	6.8	<0.1	<0.05	6	<0.5	<0.2
1399055	Soil	12	38	0.55	369	0.064	1	2.46	0.011	0.06	0.2	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
1399056	Soil	18	83	0.96	487	0.071	1	1.84	0.022	0.08	0.1	0.03	9.1	<0.1	<0.05	6	<0.5	<0.2
1399057	Soil	17	23	0.73	788	0.049	3	1.57	0.018	0.10	<0.1	0.05	7.5	<0.1	<0.05	5	0.8	<0.2
1399058	Soil	14	21	0.67	501	0.040	2	1.22	0.017	0.06	0.1	0.05	4.3	<0.1	0.06	4	0.8	<0.2
1399059	Soil	15	22	0.88	490	0.064	2	1.63	0.016	0.06	0.3	0.04	5.8	<0.1	<0.05	7	<0.5	<0.2
1399713	Soil	18	32	1.50	1052	0.207	2	2.45	0.016	0.46	0.2	0.03	9.8	0.2	<0.05	9	<0.5	<0.2
1399714	Soil	16	26	1.61	318	0.184	2	2.28	0.015	0.19	0.2	0.02	7.9	<0.1	<0.05	9	<0.5	<0.2
1399715	Soil	21	26	1.19	591	0.148	2	2.07	0.018	0.24	0.1	0.04	6.7	<0.1	<0.05	8	<0.5	<0.2
1399716	Soil	9	22	0.69	281	0.155	3	1.51	0.013	0.08	0.1	0.02	4.3	<0.1	<0.05	8	<0.5	<0.2
1399717	Soil	19	33	1.60	409	0.128	4	2.17	0.014	0.29	0.1	0.04	10.9	0.1	<0.05	8	<0.5	<0.2
1399718	Soil	13	28	0.56	268	0.068	3	1.62	0.017	0.04	0.2	0.05	5.0	<0.1	<0.05	5	<0.5	<0.2
1399719	Soil	20	31	0.72	391	0.070	3	1.73	0.015	0.05	0.2	0.04	6.5	<0.1	<0.05	6	0.8	<0.2
1399720	Soil	16	29	0.63	332	0.074	3	1.52	0.022	0.06	0.2	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
1399721	Soil	12	17	0.58	523	0.027	3	1.24	0.014	0.06	0.3	0.04	4.3	<0.1	<0.05	5	0.6	<0.2
1399722	Soil	9	16	0.60	444	0.064	4	1.44	0.020	0.05	0.1	0.05	3.7	<0.1	<0.05	5	0.7	<0.2
1399723	Soil	32	15	1.05	588	0.035	2	2.11	0.011	0.09	0.1	0.03	9.5	<0.1	<0.05	9	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

VAN13002642.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		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
1399724	Soil	0.6	7.4	5.7	94	<0.1	11.6	12.7	682	3.94	5.2	0.2	<0.5	1.4	39	<0.1	0.3	<0.1	84	0.51	0.120
1399725	Soil	0.8	9.3	6.8	93	<0.1	14.9	11.2	677	3.90	7.2	0.3	<0.5	1.9	36	0.2	0.4	<0.1	82	0.44	0.101
1399726	Soil	0.8	8.1	8.2	85	<0.1	15.4	12.3	516	3.70	6.8	0.3	<0.5	1.7	39	0.1	0.4	0.1	80	0.53	0.133
1399727	Soil	0.9	10.7	8.0	87	<0.1	12.6	13.5	590	4.19	8.7	0.4	<0.5	2.2	37	0.1	0.4	<0.1	90	0.51	0.110
1399728	Soil	0.6	14.8	7.8	71	<0.1	14.9	9.0	467	3.02	5.7	0.7	11.8	3.9	25	<0.1	0.3	0.1	65	0.42	0.104
1399729	Soil	0.4	12.6	6.2	91	<0.1	10.9	10.3	749	3.76	3.8	0.6	64.4	4.6	24	<0.1	0.4	<0.1	61	0.51	0.144
1399730	Soil	0.4	10.6	7.1	86	<0.1	12.6	11.0	641	3.55	4.3	0.6	17.8	3.4	34	0.1	0.5	<0.1	60	0.86	0.143
1399731	Soil	0.7	17.5	4.9	55	<0.1	12.7	7.9	1046	1.70	4.0	0.6	7.7	0.7	75	0.3	0.6	<0.1	37	1.67	0.088
1399732	Soil	0.4	17.3	5.7	54	<0.1	13.5	8.5	418	1.69	2.2	0.8	5.3	0.8	58	0.3	0.5	<0.1	31	1.25	0.104
1399733	Soil	2.0	15.2	11.2	57	<0.1	45.6	15.4	874	3.67	3.2	0.6	43.2	2.3	82	0.2	0.8	<0.1	43	1.16	0.111
1399734	Soil	0.7	28.0	15.2	76	<0.1	76.6	19.8	966	4.32	8.7	0.9	2.3	7.6	79	<0.1	1.2	<0.1	61	1.50	0.156
1399735	Soil	0.4	22.1	8.3	68	<0.1	19.4	12.8	557	2.88	7.3	0.9	2.8	3.8	37	0.2	0.7	<0.1	60	0.53	0.077
1399736	Soil	0.6	16.6	8.2	60	<0.1	17.9	11.0	580	2.90	6.4	0.8	1.3	4.0	32	<0.1	0.5	<0.1	59	0.38	0.085
1399737	Soil	0.6	19.5	8.1	67	<0.1	18.9	11.9	758	4.31	5.4	0.6	1.9	3.2	28	<0.1	0.9	<0.1	47	0.46	0.099
1399738	Soil	0.4	28.5	7.3	44	0.2	24.7	11.9	624	2.50	6.8	0.8	2.7	2.2	97	<0.1	0.6	0.1	55	1.16	0.047
1399739	Soil	0.5	30.6	8.3	75	<0.1	26.6	12.4	525	3.25	4.7	0.8	2.1	3.3	116	0.2	0.7	<0.1	61	1.22	0.097
1399740	Soil	0.2	12.3	7.3	64	<0.1	12.2	6.4	291	1.59	1.8	1.8	27.6	2.6	85	0.3	0.2	<0.1	40	0.99	0.064
1399741	Soil	0.4	15.4	6.4	76	<0.1	13.3	11.5	651	3.07	4.8	0.8	35.7	2.8	51	<0.1	0.5	<0.1	66	0.96	0.120

# CERTIFICATE OF ANALYSIS

VAN13002642.1

Method	Analyte	1DX15	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	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
1399724	Soil	5	19	0.96	283	0.153	1	2.27	0.014	0.08	0.2	0.01	3.5	<0.1	<0.05	10	<0.5	<0.2
1399725	Soil	6	23	0.88	260	0.140	1	2.23	0.013	0.08	0.2	0.02	3.5	<0.1	<0.05	8	<0.5	<0.2
1399726	Soil	6	24	0.84	281	0.105	3	2.26	0.013	0.08	0.1	0.01	3.6	<0.1	<0.05	8	<0.5	<0.2
1399727	Soil	7	24	1.09	234	0.143	2	2.41	0.016	0.08	0.2	0.02	3.9	<0.1	<0.05	9	<0.5	<0.2
1399728	Soil	16	24	0.75	342	0.067	1	1.93	0.010	0.11	0.2	0.02	6.4	0.1	<0.05	7	<0.5	<0.2
1399729	Soil	20	16	0.78	455	0.050	1	1.75	0.010	0.12	0.2	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
1399730	Soil	16	18	0.66	511	0.061	2	1.62	0.013	0.12	0.2	0.03	6.6	<0.1	<0.05	6	<0.5	<0.2
1399731	Soil	11	15	0.36	609	0.028	3	0.97	0.013	0.05	0.1	0.07	3.0	<0.1	0.05	3	0.7	<0.2
1399732	Soil	14	23	0.47	482	0.033	2	1.24	0.014	0.04	0.1	0.08	3.8	<0.1	0.09	4	<0.5	<0.2
1399733	Soil	14	21	0.35	1235	0.007	<1	1.15	0.007	0.12	0.2	0.04	10.6	<0.1	<0.05	3	<0.5	<0.2
1399734	Soil	61	58	0.66	1357	0.029	3	1.44	0.009	0.13	0.4	0.03	12.1	<0.1	<0.05	4	<0.5	<0.2
1399735	Soil	16	26	0.55	464	0.056	<1	1.59	0.016	0.05	0.2	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
1399736	Soil	21	25	0.49	710	0.045	2	1.69	0.010	0.07	0.2	0.02	7.0	<0.1	<0.05	5	<0.5	<0.2
1399737	Soil	20	17	0.29	1576	0.013	<1	1.22	0.008	0.12	0.2	0.04	10.7	<0.1	<0.05	3	0.6	<0.2
1399738	Soil	19	27	0.55	1078	0.042	<1	1.60	0.018	0.07	0.2	0.05	6.3	<0.1	<0.05	5	0.9	<0.2
1399739	Soil	20	24	0.63	1023	0.046	3	1.72	0.016	0.13	0.1	0.05	8.0	<0.1	<0.05	5	0.6	<0.2
1399740	Soil	14	23	0.61	222	0.071	1	1.34	0.017	0.06	0.2	0.03	4.4	<0.1	0.06	4	<0.5	<0.2
1399741	Soil	15	19	0.82	388	0.056	3	1.55	0.015	0.07	0.2	0.04	6.0	<0.1	<0.05	6	0.6	<0.2

# QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Pulp Duplicates																							
1365369	Soil			0.7	18.4	7.8	71	<0.1	18.6	12.0	536	3.41	8.8	0.9	3.7	4.3	34	<0.1	0.5	<0.1	78	0.45	0.080
REP 1365369	QC			0.9	19.3	7.7	73	<0.1	18.0	11.6	532	3.30	9.8	1.0	1.9	4.4	34	<0.1	0.6	<0.1	79	0.44	0.082
1365372	Soil			0.5	12.3	8.4	67	<0.1	27.1	9.7	351	2.72	3.2	0.8	11.5	5.2	58	<0.1	0.5	<0.1	65	0.87	0.125
REP 1365372	QC			0.4	12.1	8.4	68	<0.1	28.0	9.3	360	2.75	3.2	0.8	10.8	5.2	59	0.1	0.5	<0.1	66	0.91	0.123
1378104	Soil			0.6	14.6	7.8	48	<0.1	19.9	10.2	272	2.85	8.4	0.5	1.7	3.3	24	<0.1	0.4	<0.1	60	0.24	0.039
REP 1378104	QC			0.7	14.3	7.7	49	<0.1	20.3	10.1	262	2.78	8.0	0.5	2.8	3.2	24	<0.1	0.4	<0.1	62	0.24	0.041
1378107	Soil			0.4	16.9	7.4	65	0.1	13.3	8.9	482	2.76	5.1	0.8	12.7	4.2	39	<0.1	0.5	0.4	61	0.74	0.083
REP 1378107	QC			0.4	16.5	6.6	62	<0.1	12.0	8.7	477	2.75	5.1	0.8	8.5	4.2	37	<0.1	0.4	0.2	60	0.73	0.081
1399037	Soil			0.6	21.7	7.5	52	<0.1	20.7	10.8	401	2.64	5.5	1.7	34.6	2.5	73	0.1	0.6	<0.1	60	1.70	0.077
REP 1399037	QC			0.6	22.4	7.4	51	<0.1	21.6	11.0	405	2.61	5.6	1.8	25.0	2.6	75	0.1	0.6	<0.1	57	1.69	0.075
1399040	Soil			0.6	24.6	7.8	48	<0.1	22.1	10.5	480	2.44	6.9	1.0	4.9	2.9	50	<0.1	0.5	<0.1	56	1.19	0.056
REP 1399040	QC			0.5	24.5	7.6	49	<0.1	22.1	10.7	499	2.58	6.4	1.0	5.1	2.9	51	0.2	0.5	<0.1	57	1.19	0.060
1399714	Soil			0.6	10.2	5.9	87	<0.1	16.5	15.8	591	4.17	5.7	0.5	3.8	3.6	25	0.1	0.2	<0.1	102	0.40	0.085
REP 1399714	QC			0.5	10.5	5.8	90	<0.1	14.8	15.3	609	4.22	5.4	0.5	2.9	3.7	26	<0.1	0.2	<0.1	103	0.44	0.088
1399731	Soil			0.7	17.5	4.9	55	<0.1	12.7	7.9	1046	1.70	4.0	0.6	7.7	0.7	75	0.3	0.6	<0.1	37	1.67	0.088
REP 1399731	QC			0.6	16.9	4.8	55	0.1	11.7	7.5	1044	1.66	3.3	0.6	8.3	0.6	73	0.2	0.5	<0.1	35	1.68	0.092
Reference Materials																							
STD DS9	Standard			13.7	106.3	126.3	305	1.5	36.3	7.7	619	2.45	24.0	2.8	105.1	7.1	77	2.5	6.2	6.3	41	0.72	0.081
STD DS9	Standard			12.2	100.1	113.2	279	1.4	34.3	6.7	577	2.25	23.0	2.8	103.8	6.9	67	2.3	5.5	5.5	34	0.63	0.071
STD DS9	Standard			13.6	111.0	127.8	306	1.6	38.7	7.8	627	2.58	25.1	2.7	109.0	7.1	72	2.6	5.8	5.7	39	0.71	0.081
STD DS9	Standard			14.1	112.5	130.2	319	1.9	39.0	7.5	638	2.50	26.4	2.7	111.4	6.9	69	2.5	5.6	6.6	44	0.69	0.082
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.5	<0.1	<0.5	<0.1	1	<0.1	<0.1	<0.1	<2	0.02	<0.001
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	2	0.02	<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	0.02	<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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Project: MPA Soil  
 Report Date: July 27, 2013

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# QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	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	0.2	
Pulp Duplicates																		
1365369	Soil	18	31	0.87	266	0.134	3	2.27	0.019	0.08	<0.1	0.03	7.4	<0.1	<0.05	8	1.0	<0.2
REP 1365369	QC	19	30	0.84	276	0.130	1	2.28	0.019	0.08	<0.1	0.03	7.1	<0.1	<0.05	8	<0.5	<0.2
1365372	Soil	22	49	0.86	491	0.083	2	1.74	0.019	0.08	0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
REP 1365372	QC	22	50	0.82	507	0.087	3	1.73	0.019	0.08	0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
1378104	Soil	12	30	0.52	341	0.057	3	1.85	0.010	0.06	0.1	0.02	4.1	<0.1	<0.05	6	0.7	<0.2
REP 1378104	QC	11	28	0.52	340	0.056	1	1.83	0.010	0.06	0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
1378107	Soil	21	21	0.64	462	0.051	<1	1.73	0.014	0.08	0.2	0.04	6.2	0.1	<0.05	7	<0.5	<0.2
REP 1378107	QC	20	21	0.61	475	0.050	1	1.74	0.013	0.07	0.1	0.03	6.1	<0.1	<0.05	6	<0.5	<0.2
1399037	Soil	18	27	0.63	408	0.054	2	1.63	0.017	0.05	0.1	0.04	4.6	<0.1	0.07	6	<0.5	<0.2
REP 1399037	QC	19	26	0.65	416	0.054	2	1.66	0.016	0.05	0.1	0.05	4.7	<0.1	0.05	6	0.7	<0.2
1399040	Soil	16	27	0.62	403	0.068	2	1.50	0.025	0.06	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 1399040	QC	16	28	0.63	403	0.068	2	1.55	0.026	0.05	0.1	0.04	4.8	<0.1	<0.05	5	0.8	<0.2
1399714	Soil	16	26	1.61	318	0.184	2	2.28	0.015	0.19	0.2	0.02	7.9	<0.1	<0.05	9	<0.5	<0.2
REP 1399714	QC	16	27	1.54	326	0.185	3	2.22	0.015	0.19	0.2	0.02	8.0	<0.1	<0.05	9	<0.5	<0.2
1399731	Soil	11	15	0.36	609	0.028	3	0.97	0.013	0.05	0.1	0.07	3.0	<0.1	0.05	3	0.7	<0.2
REP 1399731	QC	11	14	0.37	590	0.027	3	0.95	0.012	0.05	0.2	0.08	2.8	<0.1	0.08	3	0.9	<0.2
Reference Materials																		
STD DS9	Standard	18	117	0.66	289	0.125	2	0.94	0.097	0.38	3.0	0.19	2.6	4.9	0.15	5	5.6	5.6
STD DS9	Standard	16	106	0.60	267	0.111	3	0.83	0.076	0.35	2.7	0.17	2.3	4.3	0.17	4	4.9	4.5
STD DS9	Standard	17	120	0.68	282	0.130	2	0.98	0.089	0.39	3.2	0.21	2.7	5.2	0.16	5	4.7	5.1
STD DS9	Standard	16	119	0.63	289	0.120	3	0.95	0.083	0.42	3.2	0.18	2.6	5.6	0.13	5	5.2	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
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	<0.2
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	<0.2
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	<0.2
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	<0.2