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Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

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

Submitted By: Rob McLeod  
Receiving Lab: Canada-Vancouver  
Received: July 14, 2009  
Report Date: July 22, 2009  
Page: 1 of 5

## CERTIFICATE OF ANALYSIS

VAN09002931.1

### CLIENT JOB INFORMATION

Project: WHITE  
Shipment ID: UW09-01  
P.O. Number  
Number of Samples: 118

### 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: Jodie Gibson  
Rob McLeod  
Adrian Fleming

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	118	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	118	Dry at 60C		
1DX15	118	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed

### 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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Part 1

## CERTIFICATE OF ANALYSIS

VAN09002931.1

	Method Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	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
H 134502	Soil		1.0	41.3	8.8	57	<0.1	28.8	12.1	401	2.76	10.1	0.6	3.1	3.2	17	0.1	0.6	0.2	57	0.24
H 134503	Soil		1.5	43.8	10.2	69	<0.1	27.7	13.6	393	3.34	11.7	0.8	2.4	4.4	12	0.2	0.6	0.2	69	0.11
H 134504	Soil		1.4	53.8	8.7	67	0.1	30.5	11.9	279	3.11	10.6	0.5	2.4	3.7	12	0.2	0.5	0.1	64	0.12
H 134505	Soil		1.6	94.5	8.3	79	0.1	102.2	25.3	588	4.96	8.3	0.6	1.1	2.0	20	<0.1	0.4	0.1	110	0.26
H 134506	Soil		0.9	54.6	8.7	54	<0.1	36.2	13.3	283	2.75	10.5	0.6	1.5	3.5	12	<0.1	0.6	0.2	54	0.16
H 134507	Soil		1.6	37.2	10.7	108	0.3	26.7	20.6	969	3.40	9.3	0.6	1.3	2.7	17	0.2	0.5	0.2	81	0.19
H 134508	Soil		0.9	32.1	7.6	57	<0.1	26.1	11.5	398	2.46	9.1	0.6	2.2	2.1	19	0.1	0.6	0.1	50	0.32
H 134509	Soil		1.3	31.9	9.4	76	<0.1	31.2	11.7	346	3.22	23.7	0.4	0.6	2.3	17	0.2	0.7	0.2	61	0.20
H 134510	Soil		1.5	27.6	10.4	71	0.2	29.7	11.5	371	3.20	13.9	1.1	3.3	4.8	14	0.2	0.6	0.2	74	0.16
H 134511	Soil		2.0	42.5	11.0	88	<0.1	27.7	11.1	475	3.62	9.1	1.0	2.5	5.1	16	0.2	0.5	0.1	65	0.20
H 134512	Soil		1.6	101.2	10.6	84	0.3	57.9	19.5	798	4.46	7.9	1.1	<0.5	4.1	14	0.1	0.4	<0.1	105	0.18
H 134513	Soil		1.4	30.0	10.8	57	<0.1	26.1	9.1	308	3.37	10.2	0.7	0.8	2.0	13	0.2	0.5	0.2	73	0.14
H 134514	Soil		2.4	45.7	7.2	85	<0.1	51.8	9.8	339	3.09	10.4	0.7	<0.5	2.4	18	0.3	0.4	0.1	97	0.19
H 134515	Soil		0.9	40.1	7.5	62	<0.1	30.2	11.5	435	2.94	7.8	1.0	2.5	4.5	24	0.1	0.4	0.1	60	0.29
H 134516	Soil		1.7	27.3	10.1	60	<0.1	29.2	8.3	278	3.33	8.6	0.8	1.5	3.3	13	0.1	0.5	0.2	75	0.14
H 134517	Soil		1.1	19.8	9.2	56	<0.1	21.7	10.0	301	2.82	9.2	0.7	4.2	2.9	14	0.1	0.5	0.2	62	0.19
H 134518	Soil		1.4	49.8	19.8	84	<0.1	34.8	15.8	494	3.91	10.8	0.7	1.5	4.6	21	0.1	0.3	0.2	70	0.35
H 134519	Soil		0.8	21.2	7.4	57	<0.1	19.7	11.3	348	2.86	7.2	0.8	1.5	5.2	15	0.1	0.4	0.1	58	0.24
H 134520	Soil		0.8	20.6	6.5	64	<0.1	19.5	11.5	409	3.10	6.8	0.8	1.6	5.6	16	<0.1	0.3	<0.1	61	0.25
H 134521	Soil		0.7	14.3	6.7	54	<0.1	14.5	9.1	290	2.84	5.9	0.5	2.6	3.5	13	0.1	0.3	<0.1	60	0.18
H 134522	Soil		0.6	15.0	6.4	55	<0.1	15.6	9.2	341	2.77	5.8	0.6	1.4	3.7	15	0.1	0.3	<0.1	55	0.22
H 134523	Soil		1.2	22.7	10.1	63	<0.1	20.0	13.6	359	3.13	10.8	1.0	1.3	4.9	14	0.1	0.5	0.2	65	0.15
H 134524	Soil		1.1	18.5	11.4	48	<0.1	17.6	8.5	266	2.97	12.4	0.7	3.7	3.1	11	0.1	0.5	0.2	68	0.12
H 134525	Soil		1.3	18.6	11.3	53	<0.1	18.9	9.3	294	3.27	12.3	0.7	2.6	3.3	12	0.1	0.5	0.2	70	0.13
H 134526	Soil		1.3	33.7	9.6	67	0.1	31.6	14.9	367	3.13	9.7	0.7	2.8	4.1	12	0.1	0.6	0.2	74	0.14
H 134527	Soil		1.0	27.7	8.0	57	<0.1	25.7	10.3	343	2.58	9.4	0.8	3.7	4.0	17	0.1	0.4	0.1	55	0.22
H 134528	Soil		1.5	33.6	8.8	72	0.2	34.5	11.5	329	3.66	6.9	0.9	<0.5	3.6	14	0.2	0.4	0.2	108	0.15
H 134529	Soil		1.2	18.1	11.3	52	<0.1	23.0	10.1	275	2.89	10.0	0.9	0.7	3.0	15	0.2	0.5	0.2	61	0.18
H 134530	Soil		1.1	31.6	9.1	62	<0.1	31.4	14.5	348	2.88	9.9	1.0	3.4	4.8	18	0.1	0.5	0.1	60	0.23
H 134531	Soil		0.9	32.2	8.9	66	<0.1	31.0	11.9	343	2.87	10.9	1.0	5.7	4.0	20	0.1	0.5	0.1	60	0.29



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Report Date: July 22, 2009

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## CERTIFICATE OF ANALYSIS

VAN09002931.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	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
		0.001	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
H 134502	Soil	0.050	12	33	0.53	301	0.048	<1	1.70	0.010	0.06	0.2	0.03	3.0	<0.1	<0.05	4	<0.5
H 134503	Soil	0.030	12	40	0.64	211	0.071	<1	2.31	0.010	0.15	0.1	0.04	3.4	0.1	<0.05	6	0.8
H 134504	Soil	0.022	10	37	0.61	179	0.066	1	2.00	0.008	0.11	0.2	0.03	2.9	0.1	<0.05	6	0.5
H 134505	Soil	0.032	11	141	1.40	452	0.118	<1	3.25	0.009	0.48	<0.1	0.01	7.0	0.2	<0.05	9	0.6
H 134506	Soil	0.043	10	38	0.58	220	0.058	<1	1.88	0.008	0.05	0.2	0.02	3.0	<0.1	<0.05	4	<0.5
H 134507	Soil	0.055	13	39	0.55	412	0.061	<1	2.25	0.011	0.13	0.1	0.04	2.4	0.1	<0.05	8	0.6
H 134508	Soil	0.101	12	27	0.51	178	0.053	<1	1.36	0.010	0.06	0.2	0.01	2.5	0.1	<0.05	4	<0.5
H 134509	Soil	0.040	12	31	0.49	296	0.034	<1	1.80	0.007	0.07	0.2	0.03	2.4	0.1	<0.05	6	<0.5
H 134510	Soil	0.033	13	42	0.64	269	0.072	<1	1.96	0.012	0.10	0.2	0.04	4.5	0.1	<0.05	6	0.6
H 134511	Soil	0.056	13	39	0.67	334	0.084	<1	2.22	0.009	0.33	0.1	0.03	2.8	0.2	<0.05	6	<0.5
H 134512	Soil	0.051	10	69	1.16	341	0.144	<1	2.81	0.007	0.48	<0.1	0.03	6.1	0.3	<0.05	10	1.0
H 134513	Soil	0.045	12	41	0.52	189	0.073	<1	1.63	0.007	0.12	0.2	0.03	2.5	0.1	<0.05	6	0.6
H 134514	Soil	0.056	15	81	0.92	393	0.120	<1	1.78	0.011	0.29	<0.1	0.02	3.5	0.2	<0.05	8	0.7
H 134515	Soil	0.066	16	36	0.67	399	0.090	<1	1.58	0.011	0.19	0.2	0.02	4.6	0.1	<0.05	5	<0.5
H 134516	Soil	0.047	12	41	0.47	215	0.070	<1	1.82	0.008	0.11	0.1	0.03	2.7	0.1	<0.05	7	<0.5
H 134517	Soil	0.060	11	33	0.51	172	0.066	<1	1.76	0.008	0.10	0.2	0.03	2.6	0.1	<0.05	5	0.9
H 134518	Soil	0.052	14	26	0.48	249	0.007	<1	2.22	0.007	0.10	<0.1	0.02	6.5	<0.1	<0.05	5	0.6
H 134519	Soil	0.060	17	29	0.70	197	0.100	<1	1.76	0.010	0.15	0.1	0.02	2.9	0.2	<0.05	5	<0.5
H 134520	Soil	0.051	21	29	0.82	215	0.125	<1	1.81	0.009	0.27	0.2	0.02	3.3	0.2	<0.05	5	<0.5
H 134521	Soil	0.035	11	25	0.69	149	0.118	<1	1.77	0.008	0.15	0.1	0.02	2.3	0.1	<0.05	6	<0.5
H 134522	Soil	0.048	17	22	0.68	181	0.115	<1	1.71	0.009	0.22	0.1	0.02	2.3	0.1	<0.05	5	<0.5
H 134523	Soil	0.029	14	32	0.63	243	0.080	<1	2.07	0.009	0.07	0.2	0.03	4.2	0.2	<0.05	5	<0.5
H 134524	Soil	0.037	11	33	0.43	175	0.052	<1	1.96	0.007	0.05	0.2	0.04	2.6	0.1	<0.05	6	0.6
H 134525	Soil	0.038	12	34	0.46	192	0.056	<1	1.82	0.008	0.05	0.2	0.02	2.7	0.1	<0.05	7	<0.5
H 134526	Soil	0.033	10	45	0.60	292	0.071	<1	2.11	0.012	0.09	0.2	0.03	3.5	0.2	<0.05	6	1.0
H 134527	Soil	0.060	13	32	0.56	320	0.061	<1	1.57	0.009	0.06	0.2	0.02	3.5	0.1	<0.05	4	0.7
H 134528	Soil	0.031	13	65	0.79	289	0.143	<1	2.47	0.009	0.14	<0.1	0.01	3.5	0.1	<0.05	9	1.0
H 134529	Soil	0.071	13	33	0.49	236	0.057	<1	1.92	0.007	0.05	0.2	0.03	3.2	0.1	<0.05	5	0.5
H 134530	Soil	0.055	15	36	0.61	340	0.072	<1	1.90	0.010	0.09	0.1	0.02	4.0	0.2	<0.05	5	0.7
H 134531	Soil	0.082	18	35	0.60	296	0.066	<1	1.75	0.011	0.09	0.2	0.03	3.8	0.1	<0.05	5	0.8



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	Method	Analyte	Unit	MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	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
H 134532	Soil				0.8	30.5	9.5	61	<0.1	28.7	10.8	277	2.74	9.3	1.1	2.3	4.4	13	0.2	0.4	0.2	56	0.18	
H 134533	Soil				1.4	42.6	9.7	67	0.2	32.5	10.5	302	3.10	8.0	1.1	5.7	5.2	19	0.2	0.4	0.2	71	0.19	
H 134534	Soil				2.2	34.9	8.8	69	<0.1	46.6	11.3	400	3.19	5.9	0.9	5.2	4.0	14	<0.1	0.3	0.1	90	0.19	
H 134535	Soil				2.1	62.0	11.4	113	0.3	50.3	17.0	343	3.70	8.1	0.9	2.9	5.6	14	0.3	0.5	0.1	89	0.13	
H 134536	Soil				0.8	31.1	8.1	59	<0.1	44.7	13.1	436	2.74	8.9	0.8	3.8	3.7	19	<0.1	0.5	0.1	56	0.29	
H 134537	Soil				0.8	28.6	9.0	55	<0.1	37.7	11.9	411	2.73	9.7	0.7	5.2	3.9	18	<0.1	0.5	0.1	55	0.25	
H 134538	Soil				1.6	26.7	8.4	61	<0.1	25.1	12.5	259	3.46	5.5	1.0	1.4	7.7	26	<0.1	0.3	0.2	71	0.16	
H 134539	Soil				1.0	27.6	13.3	60	<0.1	34.8	13.5	249	3.61	4.2	1.2	1.2	6.9	27	0.1	0.3	0.2	64	0.20	
H 134541	Soil				1.0	48.3	7.8	64	<0.1	43.4	15.1	353	3.40	9.6	0.7	1.9	3.9	17	<0.1	0.6	0.1	78	0.17	
H 134542	Soil				2.3	26.4	10.7	72	0.3	33.4	19.4	951	3.47	20.0	0.7	1.5	3.6	11	0.3	0.9	0.2	75	0.11	
H 134543	Soil				1.1	32.4	6.6	52	<0.1	28.9	9.9	311	2.38	8.2	0.9	2.7	3.2	18	0.2	0.4	0.1	55	0.27	
H 134544	Soil				1.2	39.9	8.8	67	<0.1	48.9	16.6	793	3.74	8.4	0.7	<0.5	2.6	12	0.2	0.4	0.1	96	0.18	
H 134545	Soil				0.8	20.8	8.9	76	0.2	29.9	14.5	644	3.09	8.6	0.4	3.6	1.4	17	0.3	0.6	0.2	76	0.25	
H 134546	Soil				1.5	27.0	9.4	60	0.2	29.5	10.9	545	3.19	10.2	0.5	<0.5	2.9	14	<0.1	0.5	0.2	84	0.18	
H 134547	Soil				1.1	11.5	9.6	37	0.1	36.8	6.9	175	2.40	6.4	0.4	0.7	2.4	12	<0.1	0.3	0.2	71	0.14	
H 134548	Soil				5.9	74.9	7.0	134	0.3	59.2	10.0	211	3.96	5.1	0.8	1.6	1.9	24	0.5	0.3	0.1	251	0.22	
H 134549	Soil				0.9	44.9	7.2	76	0.1	52.0	22.8	734	2.92	7.3	0.4	1.9	2.6	20	0.1	0.4	0.1	69	0.31	
H 134550	Soil				1.3	19.9	10.5	45	0.2	20.1	10.2	255	2.81	7.6	0.4	1.9	2.5	13	<0.1	0.4	0.2	72	0.13	
H 134551	Soil				1.9	64.8	8.9	138	0.4	79.5	12.1	569	3.90	5.6	0.5	1.4	3.5	18	0.4	0.3	0.1	126	0.24	
H 134552	Soil				1.6	23.4	12.7	54	1.5	25.4	9.1	237	3.07	9.4	0.4	1.1	3.1	11	0.5	0.6	0.2	75	0.11	
H 134553	Soil				1.3	17.6	9.4	59	0.5	32.8	11.8	281	2.88	6.9	0.5	0.5	3.2	15	0.2	0.4	0.2	76	0.19	
H 134554	Soil				1.5	29.2	6.1	72	0.6	116.7	16.2	393	3.29	3.8	0.4	<0.5	3.0	17	0.3	0.4	0.1	104	0.27	
H 134555	Soil				1.0	21.8	8.9	71	0.3	39.3	16.2	629	3.17	6.1	0.5	1.9	2.9	24	0.3	0.5	0.2	71	0.36	
H 134556	Soil				1.1	39.1	7.6	78	<0.1	57.8	13.4	473	3.32	7.1	0.8	11.5	3.5	24	<0.1	0.4	0.1	93	0.34	
H 134557	Soil				1.1	32.0	8.1	57	0.2	41.6	11.7	295	2.83	7.9	0.6	0.6	3.4	26	0.1	0.5	0.2	79	0.33	
H 134558	Soil				1.0	29.9	7.5	54	0.2	36.5	11.3	292	2.76	7.3	0.5	1.9	3.2	25	0.2	0.5	0.1	78	0.35	
H 134559	Soil				1.5	39.3	6.6	65	<0.1	44.3	12.0	250	2.92	8.4	0.5	1.4	3.2	17	0.1	0.4	0.1	86	0.26	
H 134560	Soil				1.2	27.2	7.2	54	0.1	33.8	10.7	383	2.68	7.3	0.8	1.8	3.4	29	<0.1	0.4	0.1	66	0.42	
H 134857	Soil				0.5	13.0	6.0	61	<0.1	353.2	44.1	912	3.17	4.5	0.5	1.4	1.8	20	0.2	0.4	0.2	47	0.36	
H 134858	Soil				1.0	36.2	7.9	74	0.2	57.8	20.8	1092	3.75	4.9	0.5	<0.5	2.9	17	0.1	0.5	0.1	92	0.30	



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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
		P	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
		0.001	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
H 134532	Soil	0.058	15	36	0.53	270	0.053	<1	1.92	0.007	0.06	0.2	0.03	3.2	0.1	<0.05	5	0.6
H 134533	Soil	0.049	14	46	0.65	391	0.069	<1	1.98	0.010	0.16	0.1	0.03	3.3	0.1	<0.05	6	1.4
H 134534	Soil	0.071	14	87	0.95	356	0.140	<1	2.09	0.010	0.26	<0.1	0.03	4.1	0.2	<0.05	9	0.7
H 134535	Soil	0.035	13	51	0.71	288	0.093	<1	2.40	0.008	0.14	<0.1	0.03	3.5	0.1	<0.05	8	<0.5
H 134536	Soil	0.060	13	53	0.72	445	0.081	<1	1.72	0.010	0.16	<0.1	0.02	3.7	0.2	<0.05	5	<0.5
H 134537	Soil	0.062	12	45	0.65	393	0.069	<1	1.77	0.009	0.11	0.2	0.03	3.4	0.2	<0.05	5	0.6
H 134538	Soil	0.039	21	38	0.67	205	0.123	2	1.99	0.010	0.37	0.1	0.03	3.1	0.2	0.08	8	0.6
H 134539	Soil	0.032	24	51	0.80	211	0.113	2	2.64	0.011	0.31	<0.1	0.02	2.9	0.3	<0.05	8	<0.5
H 134541	Soil	0.028	10	59	0.72	309	0.123	2	2.19	0.009	0.13	0.2	0.03	3.5	0.1	<0.05	6	0.7
H 134542	Soil	0.053	10	48	0.52	269	0.061	1	2.32	0.007	0.06	0.2	0.03	3.0	0.1	<0.05	7	0.6
H 134543	Soil	0.062	13	33	0.53	244	0.066	1	1.57	0.009	0.07	0.1	0.03	3.2	<0.1	<0.05	4	<0.5
H 134544	Soil	0.089	11	76	1.00	308	0.133	2	2.33	0.007	0.31	0.1	0.01	4.0	0.2	<0.05	8	<0.5
H 134545	Soil	0.063	8	43	0.54	292	0.065	1	1.89	0.011	0.06	0.1	<0.01	2.6	<0.1	<0.05	7	<0.5
H 134546	Soil	0.040	9	45	0.69	319	0.070	1	2.34	0.005	0.13	0.1	0.02	3.4	0.1	<0.05	7	0.7
H 134547	Soil	0.013	10	56	0.51	231	0.078	2	1.55	0.008	0.03	<0.1	<0.01	2.3	0.2	<0.05	7	<0.5
H 134548	Soil	0.120	14	107	1.10	865	0.157	1	2.56	0.016	0.22	0.2	0.01	3.9	<0.1	0.15	9	3.2
H 134549	Soil	0.041	9	46	0.55	376	0.077	1	1.96	0.009	0.06	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5
H 134550	Soil	0.048	10	38	0.44	269	0.072	1	1.74	0.008	0.07	0.1	0.02	2.6	<0.1	<0.05	7	<0.5
H 134551	Soil	0.105	17	128	1.24	663	0.139	2	2.28	0.013	0.34	<0.1	0.01	5.7	0.2	0.09	10	0.8
H 134552	Soil	0.032	10	43	0.48	258	0.064	2	2.05	0.009	0.06	0.1	0.02	2.8	0.1	<0.05	6	<0.5
H 134553	Soil	0.048	10	57	0.61	432	0.093	2	1.95	0.009	0.13	0.2	0.01	2.9	0.1	<0.05	7	<0.5
H 134554	Soil	0.079	9	247	1.32	526	0.130	1	2.00	0.009	0.16	<0.1	0.01	3.9	0.1	<0.05	8	<0.5
H 134555	Soil	0.087	11	49	0.73	604	0.103	1	1.85	0.011	0.28	0.2	0.02	3.4	<0.1	<0.05	6	<0.5
H 134556	Soil	0.047	10	89	1.12	457	0.145	<1	2.08	0.014	0.35	0.1	<0.01	4.4	0.1	<0.05	7	0.6
H 134557	Soil	0.044	13	56	0.70	480	0.110	2	1.71	0.016	0.15	0.2	0.02	3.9	<0.1	<0.05	6	0.7
H 134558	Soil	0.046	13	54	0.67	474	0.105	2	1.66	0.015	0.13	0.2	<0.01	3.7	<0.1	<0.05	5	<0.5
H 134559	Soil	0.054	10	59	0.79	403	0.103	<1	1.76	0.010	0.24	0.1	<0.01	3.8	0.1	<0.05	6	<0.5
H 134560	Soil	0.068	14	49	0.65	473	0.097	2	1.45	0.018	0.16	0.1	0.02	3.9	<0.1	<0.05	5	<0.5
H 134857	Soil	0.038	8	211	1.95	260	0.044	5	1.33	0.013	0.05	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5
H 134858	Soil	0.081	12	71	0.80	610	0.104	1	2.40	0.012	0.27	<0.1	0.02	4.5	0.2	<0.05	8	<0.5



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	Method Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt kg	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %
	Unit	0.01	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
	MDL																				
H 134859	Soil		1.0	22.5	9.7	66	0.2	25.0	14.0	869	2.99	2.1	0.3	0.6	1.6	19	0.2	0.2	0.1	65	0.35
H 134860	Soil		0.8	21.4	11.6	59	<0.1	25.0	10.8	492	2.82	7.0	1.4	1.4	12.4	38	0.1	0.5	0.2	55	0.52
H 134861	Soil		1.0	22.0	7.5	98	0.1	19.7	13.7	668	2.88	4.0	0.3	0.7	1.9	20	0.3	0.3	0.1	60	0.29
H 134862	Soil		1.2	42.6	7.3	72	<0.1	58.3	12.0	363	3.20	8.4	0.6	1.3	4.0	25	0.1	0.5	0.1	88	0.33
H 134863	Soil		0.7	16.2	6.0	72	0.1	24.7	14.7	697	2.80	1.8	0.4	3.2	3.3	37	0.1	0.3	0.1	58	0.43
H 134864	Soil		0.8	13.4	7.3	64	<0.1	15.3	15.3	709	2.90	4.3	0.3	<0.5	1.6	31	0.1	0.4	0.1	74	0.30
H 134865	Soil		1.3	33.1	7.4	92	0.2	37.4	11.8	296	3.36	6.3	0.6	0.6	4.4	13	0.2	0.4	0.1	108	0.18
H 134866	Soil		1.0	63.7	7.9	66	0.2	73.4	20.2	1005	4.63	7.2	0.4	<0.5	2.1	14	0.1	0.4	0.1	107	0.29
H 134867	Soil		1.1	30.0	9.1	40	<0.1	26.9	11.1	212	2.99	8.7	0.7	0.6	3.9	19	<0.1	0.5	0.2	72	0.19
H 134868	Soil		1.2	19.6	10.0	51	0.2	26.9	12.1	255	3.01	9.9	0.4	<0.5	2.9	15	<0.1	0.5	0.2	73	0.18
H 134869	Soil		1.8	51.8	7.2	69	0.1	39.8	12.7	329	3.15	5.2	0.8	<0.5	4.0	14	0.1	0.4	0.1	113	0.16
H 134870	Soil		2.1	107.1	3.7	115	<0.1	369.7	32.2	514	6.09	3.6	0.5	<0.5	4.3	16	0.2	0.4	0.1	187	0.27
H 134871	Soil		1.3	47.6	5.5	102	<0.1	141.5	15.4	354	3.36	5.6	0.5	0.8	2.4	18	0.2	0.3	0.3	121	0.28
H 134872	Soil		1.0	28.8	8.9	58	<0.1	36.3	11.4	505	2.96	9.4	0.6	1.6	3.3	13	0.1	0.5	0.3	68	0.13
H 134873	Soil		0.9	20.5	7.7	69	<0.1	29.7	14.3	743	2.78	7.1	0.3	1.1	2.0	13	0.2	0.5	0.2	67	0.16
H 134875	Soil		1.1	20.7	8.7	59	<0.1	24.8	9.9	321	2.76	10.1	0.4	2.1	2.4	9	0.1	0.6	0.2	67	0.09
H 134876	Soil		0.9	48.1	6.8	63	<0.1	59.5	20.9	408	3.48	7.2	0.5	1.8	3.3	14	0.1	0.4	0.2	88	0.24
H 134877	Soil		0.9	48.2	7.0	64	<0.1	60.6	21.1	402	3.51	7.7	0.5	2.0	3.4	14	0.1	0.5	0.1	89	0.22
H 134878	Soil		1.1	27.8	10.5	50	<0.1	24.1	10.8	277	2.97	10.8	1.0	2.8	4.1	12	<0.1	0.6	0.2	64	0.12
H 134879	Soil		1.3	31.2	9.1	50	<0.1	20.1	7.8	229	2.86	7.3	1.0	3.4	3.4	13	<0.1	0.4	0.3	79	0.13
H 134901	Soil		1.0	113.8	4.3	92	<0.1	157.2	40.5	784	6.52	2.1	1.0	1.0	3.6	50	<0.1	<0.1	<0.1	134	0.87
H 134902	Soil		1.2	16.1	8.8	37	0.2	14.5	7.9	345	2.70	6.3	0.4	1.7	1.1	11	0.3	0.4	0.3	75	0.12
H 134903	Soil		0.9	36.3	9.2	47	0.1	28.2	10.3	266	2.84	9.0	1.0	2.4	3.8	17	0.1	0.5	0.2	70	0.21
H 134904	Soil		1.5	69.7	11.9	84	<0.1	44.1	13.9	718	3.50	7.6	1.6	0.6	6.7	20	<0.1	0.4	0.2	68	0.30
H 134905	Soil		1.6	27.7	12.6	64	0.2	24.4	8.8	389	3.17	11.7	0.6	0.7	3.3	14	0.1	0.6	0.2	73	0.16
H 134906	Soil		1.5	24.4	9.9	66	0.1	24.7	11.2	433	3.21	10.8	0.7	1.5	3.6	13	0.2	0.7	0.2	76	0.12
H 134907	Soil		1.3	14.7	11.1	49	<0.1	16.3	7.9	267	3.42	10.4	0.6	2.0	3.1	11	0.1	0.6	0.3	82	0.11
H 134908	Soil		2.0	106.2	10.2	101	<0.1	52.7	14.5	482	4.44	22.4	3.1	1.1	7.7	32	0.2	1.7	0.1	69	0.16
H 134909	Soil		1.7	38.7	10.9	80	0.4	35.9	10.4	331	3.51	12.1	0.7	2.2	3.1	14	0.4	0.9	0.2	98	0.16
H 134910	Soil		1.8	52.4	9.9	101	0.1	41.7	12.2	451	4.03	10.5	1.6	0.6	3.3	14	0.4	0.5	0.2	87	0.11



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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
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	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
H 134859	Soil	0.060	6	46	0.89	375	0.054	2	1.92	0.011	0.08	0.1	0.01	4.2	0.1	<0.05	6	<0.5
H 134860	Soil	0.031	59	35	0.47	230	0.060	<1	1.78	0.011	0.11	0.1	0.01	5.5	<0.1	<0.05	5	0.7
H 134861	Soil	0.057	8	29	0.57	404	0.060	<1	1.78	0.011	0.10	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
H 134862	Soil	0.069	12	75	0.81	582	0.081	2	2.17	0.010	0.17	0.1	0.01	4.4	<0.1	<0.05	6	0.6
H 134863	Soil	0.069	10	38	0.59	400	0.072	2	2.13	0.018	0.15	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5
H 134864	Soil	0.040	7	30	0.63	368	0.081	2	2.35	0.013	0.06	0.1	<0.01	2.8	<0.1	<0.05	7	<0.5
H 134865	Soil	0.054	12	58	0.83	382	0.093	<1	2.37	0.007	0.31	<0.1	<0.01	4.5	0.2	<0.05	8	0.6
H 134866	Soil	0.092	7	97	1.47	404	0.163	<1	3.56	0.014	0.37	<0.1	0.02	5.0	0.2	<0.05	9	<0.5
H 134867	Soil	0.022	12	44	0.53	239	0.074	<1	2.37	0.010	0.05	0.1	0.01	4.0	0.1	<0.05	6	<0.5
H 134868	Soil	0.027	10	35	0.46	276	0.066	<1	2.64	0.011	0.04	0.1	0.01	2.7	0.1	<0.05	7	<0.5
H 134869	Soil	0.031	12	61	0.81	407	0.130	<1	2.21	0.008	0.24	<0.1	0.01	4.0	0.1	<0.05	7	0.6
H 134870	Soil	0.095	17	375	1.95	631	0.091	3	3.32	0.007	0.49	<0.1	0.02	12.3	0.8	<0.05	10	1.3
H 134871	Soil	0.096	9	212	1.59	740	0.112	2	2.15	0.008	0.28	0.1	0.01	5.0	0.1	<0.05	7	0.9
H 134872	Soil	0.033	12	45	0.54	343	0.072	2	1.69	0.007	0.12	0.1	0.01	3.4	<0.1	<0.05	5	<0.5
H 134873	Soil	0.051	9	32	0.44	395	0.050	1	1.64	0.007	0.06	0.1	0.01	2.4	<0.1	<0.05	5	<0.5
H 134875	Soil	0.027	9	33	0.43	234	0.058	1	1.88	0.005	0.05	0.1	<0.01	2.3	<0.1	<0.05	5	<0.5
H 134876	Soil	0.058	11	89	0.98	349	0.100	1	2.81	0.010	0.25	<0.1	0.01	4.1	0.1	<0.05	6	0.6
H 134877	Soil	0.058	11	82	0.92	346	0.093	1	2.74	0.010	0.23	<0.1	0.02	4.0	0.1	<0.05	6	1.0
H 134878	Soil	0.021	14	36	0.45	258	0.050	<1	2.18	0.008	0.05	0.1	0.01	3.8	<0.1	<0.05	5	<0.5
H 134879	Soil	0.028	14	37	0.47	259	0.071	<1	1.66	0.004	0.12	<0.1	0.03	3.9	0.1	<0.05	6	0.7
H 134901	Soil	0.165	30	164	2.43	561	0.148	<1	3.79	0.013	0.63	<0.1	<0.01	7.8	0.3	<0.05	13	0.6
H 134902	Soil	0.037	8	29	0.25	201	0.089	1	1.52	0.009	0.05	0.1	0.04	2.2	0.1	<0.05	7	<0.5
H 134903	Soil	0.043	14	41	0.57	444	0.065	1	1.95	0.010	0.08	0.1	0.03	4.2	0.1	<0.05	5	1.2
H 134904	Soil	0.063	29	47	0.76	408	0.076	<1	2.02	0.005	0.45	<0.1	<0.01	4.2	0.3	<0.05	6	1.3
H 134905	Soil	0.029	9	30	0.40	192	0.060	2	2.09	0.005	0.08	0.1	0.04	2.4	0.1	<0.05	7	0.7
H 134906	Soil	0.021	12	38	0.53	236	0.079	1	2.14	0.009	0.07	<0.1	0.01	3.7	0.1	<0.05	6	<0.5
H 134907	Soil	0.033	11	34	0.40	169	0.072	<1	1.95	0.006	0.05	0.1	0.01	2.9	0.1	<0.05	8	<0.5
H 134908	Soil	0.081	47	45	0.82	641	0.128	<1	1.93	0.008	0.60	<0.1	<0.01	3.8	0.3	0.08	6	2.1
H 134909	Soil	0.032	11	63	0.67	263	0.091	<1	2.27	0.007	0.14	0.1	0.02	3.7	0.2	<0.05	7	0.8
H 134910	Soil	0.065	14	67	0.72	243	0.116	<1	2.58	0.007	0.29	<0.1	0.02	3.9	0.3	<0.05	9	0.8



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## CERTIFICATE OF ANALYSIS

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	Method Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt kg	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %
	Unit	0.01	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
MDL																					
H 134911	Soil		1.7	24.7	9.6	102	<0.1	28.1	9.9	314	3.99	10.2	0.8	2.4	2.5	12	0.8	0.6	0.2	103	0.13
H 134912	Soil		1.5	18.9	10.1	63	0.1	17.0	7.7	289	2.90	8.0	0.6	5.1	2.7	13	0.2	0.6	0.2	74	0.13
H 134913	Soil		1.9	38.0	11.3	71	0.2	26.1	11.7	918	3.31	9.1	0.9	1.0	3.6	14	0.2	0.8	0.2	68	0.15
H 134914	Soil		1.1	22.7	9.3	76	<0.1	26.0	12.9	448	3.57	12.4	0.4	1.5	2.4	14	0.3	0.6	0.2	72	0.15
H 134915	Soil		1.2	19.0	10.6	70	0.2	24.3	16.3	908	3.01	8.5	0.5	4.7	2.2	16	0.3	0.5	0.2	70	0.16
H 134916	Soil		0.3	20.3	2.4	42	<0.1	310.1	27.2	484	2.75	3.5	0.2	0.6	0.8	14	<0.1	0.2	<0.1	53	0.31
H 134917	Soil		1.8	67.0	9.2	157	0.3	159.3	23.2	755	4.69	14.6	0.7	1.6	2.6	15	0.7	1.1	0.2	156	0.22
H 134918	Soil		1.1	27.4	8.6	96	0.2	33.5	13.7	2153	2.89	6.3	0.6	<0.5	2.2	20	0.3	0.5	0.2	60	0.21
H 134919	Soil		2.3	25.5	6.8	59	0.2	20.7	8.1	554	2.48	7.8	0.6	1.9	1.5	11	0.2	0.8	0.2	47	0.13
H 134920	Soil		1.4	24.3	8.9	77	0.2	23.0	12.5	590	3.17	6.3	0.7	0.9	2.9	15	0.3	0.5	0.2	78	0.17
H 134921	Soil		1.6	44.8	8.3	97	0.1	30.8	13.9	759	3.65	4.9	1.1	0.7	4.2	14	0.3	0.4	0.2	95	0.17
H 134922	Soil		1.4	18.3	8.7	59	<0.1	23.3	9.7	800	2.81	7.9	0.4	0.8	2.1	13	0.2	0.5	0.2	76	0.15
H 134923	Soil		1.1	84.8	7.5	79	<0.1	95.3	20.1	832	4.16	6.6	1.1	<0.5	2.3	13	0.1	0.2	0.1	109	0.26
H 134924	Soil		1.4	37.8	9.4	75	0.1	44.5	12.6	690	3.81	7.3	0.5	<0.5	2.2	19	0.2	0.4	0.2	104	0.28
H 134925	Soil		1.8	67.4	7.3	79	0.2	109.9	21.0	826	4.61	4.4	0.5	0.6	1.5	19	0.1	0.2	0.1	122	0.26
H 134926	Soil		1.0	224.8	6.5	54	<0.1	46.0	11.1	378	2.80	6.3	1.1	2.7	3.7	19	<0.1	0.4	0.1	68	0.26
H 134927	Soil		1.4	119.0	4.1	100	<0.1	145.1	28.4	792	6.03	1.5	0.9	4.3	2.0	45	0.1	0.2	<0.1	171	0.70
H 134928	Soil		1.4	87.3	7.4	113	0.2	59.4	18.1	513	4.37	5.8	0.4	0.9	1.8	10	0.4	0.4	0.2	116	0.18
H 134929	Soil		1.7	39.6	9.1	82	0.3	29.0	9.7	314	3.55	9.6	0.5	4.0	2.9	10	0.2	0.5	0.2	99	0.10
H 134930	Soil		2.1	383.9	4.2	85	<0.1	60.9	18.2	442	4.06	4.6	0.9	1.6	3.4	17	<0.1	0.3	<0.1	119	0.17
H 134931	Soil		1.1	68.7	7.4	98	0.1	33.4	22.3	750	3.48	8.4	0.5	2.3	3.0	15	0.2	0.5	0.2	124	0.20
H 134932	Soil		1.2	125.5	4.5	94	<0.1	222.1	44.3	487	4.81	5.0	0.2	1.7	1.3	18	0.1	0.2	<0.1	111	0.38
H 134933	Soil		1.7	52.1	9.8	78	0.3	37.0	12.7	1009	3.12	12.1	0.6	4.9	3.6	17	0.2	0.7	0.2	61	0.23
H 134934	Soil		1.2	38.4	10.4	179	0.3	50.5	25.6	1965	4.26	5.7	0.6	1.7	3.3	17	0.4	0.4	0.2	109	0.26
H 134935	Soil		1.2	53.1	9.7	146	0.3	43.9	20.4	1037	3.82	8.1	0.4	2.4	2.0	17	0.4	0.5	0.2	92	0.28
H 134936	Soil		1.4	13.2	9.3	56	0.1	18.0	7.4	258	3.14	10.3	0.4	2.2	2.6	10	0.1	0.6	0.2	87	0.10
H 134937	Soil		1.7	44.5	9.7	117	<0.1	50.0	14.3	708	3.73	9.6	0.7	1.0	3.8	21	0.5	0.6	0.2	76	0.34
H 134938	Soil		0.8	18.9	6.7	83	0.1	32.4	13.2	463	3.04	6.3	0.4	1.7	2.4	21	0.1	0.4	0.1	77	0.35





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**Project:** WHITE  
**Report Date:** July 22, 2009

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## CERTIFICATE OF ANALYSIS

VAN09002931.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	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
		0.001	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
H 134911	Soil	0.050	11	43	0.60	298	0.106	<1	2.28	0.007	0.16	0.1	0.02	2.9	0.2	<0.05	8	0.6
H 134912	Soil	0.037	12	29	0.38	201	0.075	<1	1.61	0.006	0.08	0.1	<0.01	2.2	0.1	<0.05	7	0.8
H 134913	Soil	0.045	12	38	0.54	259	0.078	1	2.18	0.007	0.14	0.1	0.02	3.1	0.2	<0.05	8	<0.5
H 134914	Soil	0.049	10	35	0.55	173	0.077	<1	1.94	0.007	0.10	0.1	0.01	2.9	<0.1	<0.05	6	0.6
H 134915	Soil	0.050	10	35	0.44	340	0.066	<1	2.00	0.008	0.07	0.1	0.02	2.5	0.1	<0.05	6	<0.5
H 134916	Soil	0.032	6	491	3.05	194	0.111	<1	2.66	0.008	0.03	<0.1	<0.01	3.1	<0.1	<0.05	5	0.6
H 134917	Soil	0.108	11	183	1.08	418	0.068	1	2.52	0.007	0.09	<0.1	0.02	7.2	0.2	<0.05	8	1.0
H 134918	Soil	0.068	12	31	0.46	570	0.069	1	1.93	0.012	0.13	<0.1	0.01	3.2	0.1	<0.05	6	0.9
H 134919	Soil	0.043	10	21	0.19	148	0.029	<1	1.16	0.004	0.06	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5
H 134920	Soil	0.123	13	39	0.48	407	0.071	1	1.70	0.006	0.20	0.1	<0.01	2.6	0.2	<0.05	7	0.6
H 134921	Soil	0.122	17	49	0.62	479	0.095	<1	2.07	0.006	0.39	<0.1	<0.01	3.4	0.3	<0.05	8	0.9
H 134922	Soil	0.060	10	35	0.46	237	0.086	<1	1.48	0.007	0.11	0.1	<0.01	2.5	<0.1	<0.05	7	0.6
H 134923	Soil	0.087	5	133	1.47	419	0.188	<1	3.08	0.008	0.43	<0.1	<0.01	5.4	0.2	<0.05	10	0.6
H 134924	Soil	0.060	7	66	0.86	406	0.134	<1	2.25	0.008	0.14	<0.1	0.01	3.9	0.1	<0.05	10	0.5
H 134925	Soil	0.053	5	156	1.58	409	0.216	<1	3.03	0.008	0.52	<0.1	0.01	5.0	0.2	<0.05	11	0.7
H 134926	Soil	0.037	27	53	0.70	348	0.100	<1	1.72	0.008	0.12	0.1	0.01	4.4	0.1	<0.05	5	<0.5
H 134927	Soil	0.184	18	171	1.80	1627	0.115	<1	3.35	0.008	0.39	<0.1	<0.01	12.3	0.3	<0.05	10	0.8
H 134928	Soil	0.059	7	109	0.87	300	0.170	<1	2.36	0.010	0.13	0.1	0.01	3.7	0.1	<0.05	10	0.5
H 134929	Soil	0.054	9	48	0.59	228	0.072	1	2.17	0.007	0.08	0.1	0.01	3.0	<0.1	<0.05	7	0.6
H 134930	Soil	0.074	27	148	1.44	664	0.203	<1	3.05	0.016	0.64	<0.1	0.02	5.5	0.3	0.13	11	0.8
H 134931	Soil	0.257	8	69	0.79	651	0.104	<1	2.58	0.009	0.11	0.1	0.02	3.9	0.1	<0.05	8	<0.5
H 134932	Soil	0.111	6	266	2.29	789	0.267	<1	2.71	0.015	0.78	<0.1	0.01	3.3	0.4	<0.05	10	0.6
H 134933	Soil	0.061	11	40	0.56	295	0.070	<1	2.51	0.009	0.11	0.1	0.02	3.4	0.1	<0.05	7	0.5
H 134934	Soil	0.226	9	62	0.82	627	0.107	<1	2.19	0.007	0.16	<0.1	0.02	4.7	0.1	<0.05	10	<0.5
H 134935	Soil	0.138	8	60	0.75	346	0.113	<1	2.99	0.009	0.28	0.1	0.01	4.4	0.2	<0.05	11	<0.5
H 134936	Soil	0.070	9	34	0.37	189	0.049	<1	1.96	0.006	0.04	0.2	0.02	2.4	0.1	<0.05	7	<0.5
H 134937	Soil	0.127	11	45	0.68	346	0.084	<1	2.34	0.008	0.25	0.1	0.01	3.8	0.2	<0.05	9	<0.5
H 134938	Soil	0.105	8	43	0.58	256	0.063	<1	2.37	0.016	0.10	0.1	0.01	3.3	<0.1	<0.05	6	<0.5



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Project: WHITE  
Report Date: July 22, 2009

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## QUALITY CONTROL REPORT

VAN09002931.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	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
Pulp Duplicates																					
H 134509	Soil		1.3	31.9	9.4	76	<0.1	31.2	11.7	346	3.22	23.7	0.4	0.6	2.3	17	0.2	0.7	0.2	61	0.20
REP H 134509	QC		1.3	32.4	9.4	75	<0.1	29.9	11.9	344	3.19	22.7	0.5	<0.5	2.3	16	0.2	0.7	0.2	59	0.20
H 134526	Soil		1.3	33.7	9.6	67	0.1	31.6	14.9	367	3.13	9.7	0.7	2.8	4.1	12	0.1	0.6	0.2	74	0.14
REP H 134526	QC		1.5	33.1	9.8	70	0.1	32.8	14.6	368	3.20	10.0	0.7	2.5	4.3	12	0.1	0.5	0.1	75	0.12
H 134551	Soil		1.9	64.8	8.9	138	0.4	79.5	12.1	569	3.90	5.6	0.5	1.4	3.5	18	0.4	0.3	0.1	126	0.24
REP H 134551	QC		1.8	64.8	9.0	129	0.4	73.0	11.5	545	3.88	5.6	0.5	0.8	3.5	17	0.4	0.3	0.1	123	0.23
H 134862	Soil		1.2	42.6	7.3	72	<0.1	58.3	12.0	363	3.20	8.4	0.6	1.3	4.0	25	0.1	0.5	0.1	88	0.33
REP H 134862	QC		1.2	42.4	7.6	71	0.1	56.6	12.1	384	3.18	8.2	0.6	2.1	4.0	26	0.2	0.5	0.1	90	0.34
H 134906	Soil		1.5	24.4	9.9	66	0.1	24.7	11.2	433	3.21	10.8	0.7	1.5	3.6	13	0.2	0.7	0.2	76	0.12
REP H 134906	QC		1.5	26.9	9.9	64	0.1	24.3	11.0	436	3.15	10.5	0.7	1.5	3.6	14	0.1	0.6	0.2	76	0.13
H 134923	Soil		1.1	84.8	7.5	79	<0.1	95.3	20.1	832	4.16	6.6	1.1	<0.5	2.3	13	0.1	0.2	0.1	109	0.26
REP H 134923	QC		1.1	83.1	7.6	81	<0.1	98.8	20.3	862	4.27	6.5	1.1	0.6	2.4	14	0.1	0.2	0.1	112	0.27
H 134936	Soil		1.4	13.2	9.3	56	0.1	18.0	7.4	258	3.14	10.3	0.4	2.2	2.6	10	0.1	0.6	0.2	87	0.10
REP H 134936	QC		1.5	13.2	10.4	50	0.1	18.4	7.2	233	3.39	11.0	0.3	0.9	2.6	9	0.1	0.6	0.2	84	0.10
Reference Materials																					
STD DS7	Standard		19.9	111.6	67.7	380	0.8	57.5	9.4	630	2.41	51.3	4.9	66.6	3.8	73	6.4	5.8	4.5	83	0.94
STD DS7	Standard		19.2	107.6	70.6	410	0.8	63.4	8.9	658	2.47	50.0	4.9	62.2	5.1	77	6.5	5.4	4.3	96	0.99
STD DS7	Standard		20.3	110.9	71.9	408	0.9	57.2	9.7	632	2.39	50.9	4.9	265.4	4.4	68	6.2	5.1	4.3	82	0.94
STD DS7	Standard		20.3	105.1	71.8	383	0.9	56.1	9.0	655	2.37	50.4	5.2	77.6	4.6	75	6.4	5.6	4.5	90	1.00
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
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
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
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
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



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Project: WHITE  
Report Date: July 22, 2009

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## QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	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
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																		
H 134509	Soil	0.040	12	31	0.49	296	0.034	<1	1.80	0.007	0.07	0.2	0.03	2.4	0.1	<0.05	6	<0.5
REP H 134509	QC	0.038	11	30	0.47	289	0.030	<1	1.76	0.007	0.07	0.1	0.02	2.5	<0.1	<0.05	6	1.0
H 134526	Soil	0.033	10	45	0.60	292	0.071	<1	2.11	0.012	0.09	0.2	0.03	3.5	0.2	<0.05	6	1.0
REP H 134526	QC	0.034	10	45	0.63	282	0.065	<1	2.12	0.007	0.09	0.1	0.04	3.4	0.1	<0.05	6	<0.5
H 134551	Soil	0.105	17	128	1.24	663	0.139	2	2.28	0.013	0.34	<0.1	0.01	5.7	0.2	0.09	10	0.8
REP H 134551	QC	0.105	17	121	1.32	652	0.135	<1	2.39	0.013	0.37	<0.1	0.02	5.5	0.2	0.10	10	1.5
H 134862	Soil	0.069	12	75	0.81	582	0.081	2	2.17	0.010	0.17	0.1	0.01	4.4	<0.1	<0.05	6	0.6
REP H 134862	QC	0.061	12	78	0.76	585	0.086	2	2.05	0.010	0.18	0.1	0.01	4.5	0.1	<0.05	6	1.0
H 134906	Soil	0.021	12	38	0.53	236	0.079	1	2.14	0.009	0.07	<0.1	0.01	3.7	0.1	<0.05	6	<0.5
REP H 134906	QC	0.022	12	39	0.52	235	0.086	1	2.22	0.011	0.07	<0.1	0.02	3.7	0.1	<0.05	7	0.7
H 134923	Soil	0.087	5	133	1.47	419	0.188	<1	3.08	0.008	0.43	<0.1	<0.01	5.4	0.2	<0.05	10	0.6
REP H 134923	QC	0.092	5	129	1.60	438	0.202	<1	3.19	0.009	0.49	<0.1	<0.01	5.7	0.2	<0.05	10	0.5
H 134936	Soil	0.070	9	34	0.37	189	0.049	<1	1.96	0.006	0.04	0.2	0.02	2.4	0.1	<0.05	7	<0.5
REP H 134936	QC	0.066	9	32	0.42	199	0.045	<1	2.01	0.007	0.04	0.2	0.03	2.5	0.1	<0.05	8	<0.5
Reference Materials																		
STD DS7	Standard	0.074	13	203	1.04	401	0.120	38	1.03	0.097	0.46	3.7	0.18	2.5	4.1	0.12	5	3.8
STD DS7	Standard	0.081	13	207	1.14	434	0.124	36	1.02	0.102	0.47	3.5	0.21	2.5	4.3	0.16	5	3.7
STD DS7	Standard	0.075	12	212	1.01	426	0.115	36	1.03	0.101	0.47	3.6	0.19	2.4	4.4	0.17	5	4.3
STD DS7	Standard	0.072	14	222	1.03	410	0.133	39	1.05	0.098	0.47	3.8	0.17	2.7	4.6	0.16	5	3.4
STD DS7 Expected		0.08	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	<0.001	<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	<0.001	<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	<0.001	<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	<0.001	<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