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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: Shawn Ryan  
Receiving Lab: Canada-Vancouver  
Received: November 04, 2009  
Report Date: December 08, 2009  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN09005749.1

### CLIENT JOB INFORMATION

Project: PAN  
Shipment ID: PAN 1  
P.O. Number  
Number of Samples: 36

### 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:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	36	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	36	Dry at 60C			VAN
1DX2	36	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.  
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.  
\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 3 Part 1

## CERTIFICATE OF ANALYSIS

VAN09005749.1

	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
PAN 63100	Soil		1.1	139.8	11.1	78	<0.1	17.5	12.3	692	3.22	9.6	0.9	2.5	2.9	33	0.2	0.6	0.2	63	0.48
PAN 63101	Soil		1.2	318.7	20.2	228	0.3	2.0	0.8	188	5.68	18.3	0.6	12.6	2.5	61	0.1	0.2	1.0	10	0.13
PAN 63102	Soil		1.4	290.4	25.6	196	0.4	2.3	0.9	178	5.84	19.8	0.6	13.4	2.4	58	<0.1	0.2	1.1	12	0.12
PAN 63115	Soil		0.8	33.5	10.7	52	<0.1	31.7	11.4	323	3.09	10.6	0.7	2.8	4.7	32	<0.1	0.6	0.2	72	0.43
PAN 63122	Soil		1.4	165.7	15.6	162	<0.1	13.7	7.8	511	3.40	30.5	0.8	1.5	3.6	18	0.2	1.0	0.2	42	0.16
PAN 63123	Soil		1.9	129.1	35.8	260	0.1	7.8	6.2	827	3.35	33.0	1.1	0.9	4.3	20	0.4	2.5	0.6	32	0.18
PAN 65770	Soil		0.8	35.5	13.7	78	<0.1	17.6	12.6	356	2.77	6.5	0.7	1.3	2.5	29	0.1	0.4	0.1	65	0.51
PAN 65772	Soil		0.8	44.1	20.7	109	<0.1	15.8	11.7	461	3.28	9.0	0.8	2.6	3.2	41	0.2	0.9	0.2	70	0.52
PAN 65774	Soil		0.6	29.1	12.3	55	<0.1	15.6	9.4	303	2.42	10.3	0.7	2.7	3.1	30	0.1	0.4	0.1	55	0.39
PAN 65776	Soil		0.9	34.1	11.9	61	<0.1	17.9	11.2	352	2.57	10.1	0.8	1.2	3.3	31	0.1	0.9	0.2	60	0.49
PAN 65777	Soil		0.9	41.4	12.8	61	<0.1	18.8	12.2	395	2.96	7.4	1.1	2.2	3.2	42	<0.1	0.8	0.2	61	0.75
PAN 65780	Soil		0.6	31.4	9.4	45	<0.1	17.3	12.6	324	2.39	5.9	0.7	0.6	2.1	33	0.1	0.5	0.2	59	0.66
PAN 65785	Soil		0.8	35.9	9.5	61	<0.1	20.0	11.4	336	2.63	7.0	1.5	3.6	3.6	90	0.2	0.5	0.1	55	0.65
PAN 65792	Soil		0.7	40.7	9.5	69	<0.1	26.6	12.8	383	2.69	9.8	0.7	5.5	3.1	44	0.2	0.7	0.2	60	0.75
PAN 65796	Soil		0.7	35.7	8.6	72	<0.1	23.7	11.6	458	2.67	10.0	0.8	42.3	3.2	42	0.3	0.7	0.2	58	0.83
PAN 79070	Soil		1.8	24.6	16.4	73	0.1	18.9	11.5	427	3.49	7.4	0.6	7.4	3.5	21	0.2	0.6	0.2	71	0.32
PAN 79071	Soil		1.6	26.9	12.4	103	<0.1	19.0	13.4	890	4.18	9.5	0.7	0.8	3.4	22	0.1	1.1	0.1	53	0.40
PAN 79072	Soil		1.2	24.0	15.2	102	<0.1	19.9	11.9	809	3.99	8.8	0.8	1.6	3.8	28	0.1	1.0	0.2	47	0.43
PAN 79077	Soil		1.0	41.3	17.4	72	<0.1	30.0	13.1	467	3.25	10.3	0.7	3.7	4.8	36	0.1	0.8	0.2	72	0.59
PAN 79079	Soil		1.3	22.5	14.8	64	<0.1	23.5	11.6	329	3.55	9.1	0.8	0.7	4.5	33	0.1	0.7	0.2	73	0.50
PAN 79080	Soil		0.8	32.0	13.0	54	<0.1	29.0	11.6	412	2.86	12.2	0.7	5.6	5.2	38	0.1	0.7	0.2	67	0.57
PAN 79150	Soil		1.1	22.0	7.6	62	<0.1	16.0	9.7	343	2.86	6.9	0.7	1.5	3.0	28	0.1	0.4	0.1	58	0.42
PAN 79182	Soil		0.7	55.4	11.2	54	<0.1	19.0	23.4	854	4.18	8.9	0.3	2.6	1.7	46	0.1	0.9	0.1	120	1.19
PAN 79184	Soil		1.2	19.4	13.7	58	<0.1	18.1	10.9	465	3.06	8.6	0.7	1.7	3.6	27	0.3	0.6	0.2	60	0.43
PAN 79190	Soil		1.0	27.4	8.7	68	<0.1	16.2	17.2	672	4.81	5.3	0.9	4.2	6.3	327	<0.1	0.4	0.2	90	0.56
PAN 79191	Soil		0.8	29.2	6.2	76	<0.1	19.4	11.2	528	3.35	5.5	0.6	1.6	4.4	68	<0.1	0.4	0.1	59	0.35
PAN 79193	Soil		0.8	48.7	9.7	47	<0.1	26.7	15.2	299	3.42	8.4	0.4	2.5	4.5	33	<0.1	0.6	0.2	88	0.36
PAN 79194	Soil		0.9	27.0	7.5	60	<0.1	17.9	9.3	359	2.70	6.5	0.9	3.8	2.8	33	0.2	0.4	0.1	57	0.48
PAN 79195	Soil		0.9	25.2	7.6	59	<0.1	17.4	10.6	423	2.81	7.3	0.8	4.4	2.8	34	0.2	0.4	0.1	60	0.53
PAN 79196	Soil		1.1	21.9	7.1	57	<0.1	16.1	10.8	391	2.61	6.6	0.7	3.7	2.3	33	0.1	0.4	0.1	59	0.52



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Project:

PAN

Report Date:

December 08, 2009

Page:

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Part 2

## CERTIFICATE OF ANALYSIS

VAN09005749.1

	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	0.01	0.01	0.1	0.01	0.05	1	0.5
PAN 63100	Soil	0.029	15	24	0.66	344	0.068	2	1.62	0.027	0.09	<0.1	0.04	5.8	<0.1	<0.05	5	0.6
PAN 63101	Soil	0.027	5	3	0.29	118	0.046	2	0.98	0.089	0.85	<0.1	0.03	2.2	0.2	1.56	5	1.2
PAN 63102	Soil	0.025	5	4	0.28	129	0.049	2	0.98	0.091	0.89	<0.1	0.04	2.3	0.2	1.60	5	1.0
PAN 63115	Soil	0.027	16	46	0.60	306	0.117	1	1.87	0.018	0.07	0.1	0.02	6.8	<0.1	<0.05	6	<0.5
PAN 63122	Soil	0.024	11	20	0.71	270	0.101	1	1.70	0.012	0.37	<0.1	0.02	3.0	0.2	<0.05	6	<0.5
PAN 63123	Soil	0.026	13	11	0.36	281	0.068	2	1.04	0.012	0.29	<0.1	0.02	4.7	0.2	<0.05	5	0.8
PAN 65770	Soil	0.046	11	33	0.66	166	0.121	1	1.48	0.033	0.09	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5
PAN 65772	Soil	0.046	12	27	0.59	275	0.100	2	1.37	0.033	0.10	0.1	0.05	6.4	<0.1	<0.05	5	<0.5
PAN 65774	Soil	0.031	14	27	0.42	235	0.090	1	1.23	0.026	0.05	0.1	0.02	4.4	<0.1	<0.05	4	0.5
PAN 65776	Soil	0.032	13	29	0.54	220	0.087	1	1.46	0.034	0.06	<0.1	0.03	5.2	<0.1	<0.05	4	<0.5
PAN 65777	Soil	0.040	15	31	0.53	315	0.080	3	1.63	0.030	0.05	0.1	0.04	5.5	<0.1	<0.05	5	<0.5
PAN 65780	Soil	0.047	8	31	0.50	172	0.074	1	1.18	0.039	0.03	0.1	0.03	4.2	<0.1	<0.05	4	<0.5
PAN 65785	Soil	0.053	15	29	0.55	245	0.085	2	1.48	0.029	0.07	0.1	0.04	5.0	<0.1	<0.05	4	<0.5
PAN 65792	Soil	0.076	11	31	0.64	269	0.082	2	1.44	0.040	0.07	0.2	0.02	3.9	<0.1	<0.05	4	0.5
PAN 65796	Soil	0.069	11	28	0.58	221	0.083	2	1.23	0.038	0.06	0.2	0.03	3.7	<0.1	<0.05	4	<0.5
PAN 79070	Soil	0.019	7	32	0.42	202	0.050	<1	1.72	0.012	0.10	0.1	<0.01	4.2	<0.1	<0.05	6	<0.5
PAN 79071	Soil	0.030	10	29	0.58	260	0.037	1	1.95	0.016	0.16	0.1	0.02	10.6	<0.1	<0.05	7	<0.5
PAN 79072	Soil	0.031	10	27	0.54	278	0.064	1	1.70	0.015	0.22	<0.1	0.02	8.3	<0.1	<0.05	6	<0.5
PAN 79077	Soil	0.032	18	38	0.72	296	0.096	1	1.89	0.037	0.06	0.1	0.03	6.2	<0.1	<0.05	6	<0.5
PAN 79079	Soil	0.017	15	39	0.48	533	0.070	1	2.13	0.015	0.11	0.1	0.02	5.4	<0.1	<0.05	6	<0.5
PAN 79080	Soil	0.014	18	37	0.58	317	0.098	1	1.56	0.028	0.07	0.1	0.03	5.6	<0.1	<0.05	4	<0.5
PAN 79150	Soil	0.051	11	26	0.51	245	0.083	<1	1.52	0.021	0.05	0.2	0.02	4.0	<0.1	<0.05	5	<0.5
PAN 79182	Soil	0.023	7	25	0.83	252	0.055	6	2.22	0.039	0.10	<0.1	0.02	12.3	<0.1	<0.05	7	<0.5
PAN 79184	Soil	0.014	10	31	0.37	451	0.055	2	1.61	0.016	0.14	0.1	0.02	5.5	<0.1	<0.05	5	<0.5
PAN 79190	Soil	0.024	11	23	1.30	611	0.176	2	2.73	0.018	0.48	<0.1	0.02	9.8	0.2	<0.05	11	<0.5
PAN 79191	Soil	0.025	9	27	0.97	370	0.186	1	1.94	0.017	0.50	0.1	0.01	4.6	0.2	<0.05	7	<0.5
PAN 79193	Soil	0.015	13	38	0.67	345	0.127	1	1.87	0.021	0.20	0.1	0.02	7.1	<0.1	<0.05	6	<0.5
PAN 79194	Soil	0.057	13	27	0.51	267	0.081	1	1.60	0.022	0.05	0.2	0.04	4.8	<0.1	<0.05	5	<0.5
PAN 79195	Soil	0.054	12	28	0.50	261	0.085	<1	1.51	0.025	0.05	0.1	0.03	4.2	<0.1	<0.05	5	<0.5
PAN 79196	Soil	0.054	10	27	0.50	220	0.088	<1	1.43	0.024	0.07	0.2	0.02	3.9	<0.1	<0.05	5	<0.5



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**Project:** PAN  
**Report Date:** December 08, 2009

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VAN09005749.1

	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
PAN 79197	Soil		0.8	26.6	7.6	55	<0.1	17.1	10.8	445	2.62	6.4	0.8	1.7	2.5	34	0.2	0.4	0.1	55	0.63
PAN 79198	Soil		1.7	59.9	12.2	110	<0.1	32.9	16.8	586	4.55	13.2	1.6	0.5	11.0	106	0.1	0.4	0.2	78	0.40
PAN 79200	Soil		5.3	65.5	23.4	144	0.2	38.9	18.7	827	5.11	25.5	1.9	13.7	7.5	60	0.1	0.9	0.3	59	0.44
PAN 79397	Soil		1.3	42.9	15.5	80	0.3	20.3	12.8	373	3.37	15.1	0.6	1.1	2.7	28	0.2	1.1	0.2	82	0.39
PAN 79398	Soil		1.0	40.6	13.5	52	0.1	16.2	12.0	394	2.81	8.5	0.6	1.2	1.9	42	0.2	0.9	0.2	67	0.72
PAN 79437	Soil		0.7	44.8	12.4	56	<0.1	22.8	14.6	576	2.43	6.3	1.1	1.5	2.3	58	0.3	0.6	0.2	62	1.07



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**Page:** 3 of 3 **Part** 2

## CERTIFICATE OF ANALYSIS

VAN09005749.1

	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
PAN 79197	Soil	0.051	10	27	0.47	186	0.088	1	1.29	0.026	0.07	0.1	0.03	4.2	<0.1	<0.05	4	<0.5
PAN 79198	Soil	0.027	26	37	0.95	543	0.113	2	2.09	0.017	0.57	<0.1	0.02	7.7	0.3	<0.05	7	0.6
PAN 79200	Soil	0.050	19	23	0.21	517	0.008	3	0.79	0.009	0.14	<0.1	0.03	7.4	<0.1	<0.05	2	1.0
PAN 79397	Soil	0.032	13	33	0.55	258	0.085	3	2.12	0.024	0.09	0.1	0.05	4.6	0.1	<0.05	7	<0.5
PAN 79398	Soil	0.035	12	25	0.47	292	0.082	3	1.62	0.032	0.08	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5
PAN 79437	Soil	0.065	10	35	0.59	262	0.077	2	1.37	0.042	0.05	<0.1	0.03	5.4	<0.1	<0.05	4	<0.5



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## QUALITY CONTROL REPORT

VAN09005749.1

	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																					
PAN 79184	Soil		1.2	19.4	13.7	58	<0.1	18.1	10.9	465	3.06	8.6	0.7	1.7	3.6	27	0.3	0.6	0.2	60	0.43
REP PAN 79184	QC		1.0	20.4	13.7	61	0.1	18.9	11.1	486	3.15	8.6	0.6	1.8	3.5	27	0.4	0.6	0.2	61	0.44
PAN 79197	Soil		0.8	26.6	7.6	55	<0.1	17.1	10.8	445	2.62	6.4	0.8	1.7	2.5	34	0.2	0.4	0.1	55	0.63
REP PAN 79197	QC		0.9	26.2	7.4	55	<0.1	17.2	11.1	468	2.66	6.9	0.8	5.4	2.4	34	0.2	0.4	0.1	56	0.63
Reference Materials																					
STD DS7	Standard		23.7	124.0	73.4	428	0.9	61.2	10.6	669	2.50	57.4	5.5	77.1	5.3	82	7.1	6.9	5.0	94	1.05
STD DS7	Standard		22.6	112.5	72.9	421	0.9	58.9	9.3	590	2.33	53.3	5.0	64.4	4.7	71	6.7	6.5	4.9	84	0.97
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



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Report Date: December 08, 2009

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## QUALITY CONTROL REPORT

VAN09005749.1

	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
Pulp Duplicates																		
PAN 79184	Soil	0.014	10	31	0.37	451	0.055	2	1.61	0.016	0.14	0.1	0.02	5.5	<0.1	<0.05	5	<0.5
REP PAN 79184	QC	0.016	10	33	0.37	449	0.057	1	1.63	0.017	0.15	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5
PAN 79197	Soil	0.051	10	27	0.47	186	0.088	1	1.29	0.026	0.07	0.1	0.03	4.2	<0.1	<0.05	4	<0.5
REP PAN 79197	QC	0.052	10	27	0.48	192	0.090	1	1.33	0.025	0.08	0.2	0.03	4.4	<0.1	<0.05	4	<0.5
Reference Materials																		
STD DS7	Standard	0.089	15	216	1.09	442	0.145	46	1.11	0.104	0.46	4.0	0.21	2.8	4.4	0.20	5	3.7
STD DS7	Standard	0.081	14	196	1.05	400	0.131	40	0.99	0.092	0.41	3.9	0.22	2.3	4.4	0.21	5	4.0
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