



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
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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 27, 2009  
Page: 1 of 4

## CERTIFICATE OF ANALYSIS

VAN09002999.1

### CLIENT JOB INFORMATION

Project: TSL  
Shipment ID:  
P.O. Number  
Number of Samples: 75

### 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: 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	75	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	75	Dry at 60C			VAN
1DX15	75	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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## CERTIFICATE OF ANALYSIS

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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	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
TSL 38009	Soil		0.8	44.2	7.6	57	<0.1	22.9	13.8	332	3.40	8.8	0.9	2.3	4.3	24	<0.1	0.4	0.1	83	0.29	
TSL 38010	Soil		0.4	34.9	3.4	63	<0.1	9.8	18.2	299	4.62	3.8	0.1	<0.5	0.8	18	<0.1	0.2	<0.1	110	0.35	
TSL 38011	Soil		0.7	39.1	5.1	64	<0.1	14.0	19.6	340	3.95	7.1	0.4	<0.5	1.8	18	<0.1	0.3	<0.1	115	0.30	
TSL 38012	Soil		0.9	33.3	5.7	62	<0.1	11.5	17.4	386	4.04	6.1	0.4	<0.5	1.5	19	<0.1	0.2	<0.1	136	0.32	
TSL 38013	Soil		0.6	41.4	2.7	55	<0.1	35.2	20.1	476	3.26	3.8	0.3	<0.5	1.1	20	<0.1	0.1	<0.1	95	0.54	
TSL 38014	Soil		0.5	26.4	3.1	51	<0.1	11.6	13.1	308	2.80	5.7	0.3	<0.5	1.5	24	<0.1	0.1	<0.1	75	0.53	
TSL 38015	Soil		0.2	10.9	2.5	76	<0.1	6.3	6.6	187	1.91	2.6	0.3	<0.5	0.7	41	<0.1	0.1	<0.1	33	0.38	
TSL 42478	Soil		0.8	95.0	21.5	150	<0.1	12.8	10.2	609	3.79	2.8	0.4	<0.5	1.5	53	0.1	0.2	0.1	61	0.33	
TSL 42479	Soil		0.6	104.5	34.9	129	<0.1	12.3	11.6	521	4.02	3.4	0.5	1.4	2.1	29	0.1	0.2	0.2	61	0.37	
TSL 42480	Soil		0.5	56.0	78.4	151	0.1	10.7	16.7	719	4.41	0.9	0.2	<0.5	0.6	39	0.1	<0.1	2.0	62	0.41	
TSL 42481	Soil		0.7	65.0	63.2	105	<0.1	14.2	11.4	458	3.15	5.0	0.6	5.1	2.9	25	<0.1	0.2	0.4	56	0.30	
TSL 42482	Soil		1.1	26.9	60.4	95	<0.1	12.3	8.6	363	3.13	4.5	0.5	1.9	2.4	21	0.1	0.2	0.5	56	0.26	
TSL 42483	Soil		1.4	503.7	37.9	331	0.5	5.1	6.3	261	8.23	4.3	1.1	10.0	2.7	50	0.1	0.2	1.2	121	0.17	
TSL 42484	Soil		0.9	53.7	22.6	119	0.2	14.5	12.2	710	3.01	4.7	0.8	2.3	2.5	25	0.2	0.2	0.2	54	0.28	
TSL 42485	Soil		0.4	27.2	11.7	102	<0.1	8.5	6.2	420	2.91	5.7	0.6	<0.5	3.5	14	<0.1	0.1	<0.1	22	0.25	
TSL 42486	Soil		0.6	27.6	14.2	89	<0.1	9.7	10.9	537	2.93	3.7	0.6	<0.5	2.2	30	<0.1	0.3	0.1	49	0.40	
TSL 42487	Soil		0.8	25.1	13.4	88	<0.1	12.4	11.3	641	2.87	5.7	0.5	<0.5	2.6	23	<0.1	0.2	0.2	48	0.29	
TSL 42488	Soil		0.7	39.3	12.6	94	0.2	9.9	7.1	348	2.72	4.3	0.8	13.4	2.8	23	0.1	0.2	0.1	42	0.30	
TSL 42489	Soil		0.6	36.1	20.9	126	<0.1	12.6	7.7	506	3.43	2.7	0.7	1.0	3.6	14	0.2	0.2	0.3	46	0.24	
TSL 42490	Soil		0.7	51.9	12.7	191	<0.1	19.2	12.2	851	4.55	4.6	0.9	2.3	4.1	19	0.2	0.3	0.2	68	0.40	
TSL 42491	Soil		0.8	30.9	21.1	81	<0.1	17.7	11.1	407	3.79	5.9	0.6	4.7	4.2	21	0.1	0.4	0.3	85	0.35	
TSL 42492	Soil		0.9	205.8	14.1	127	0.3	6.5	3.6	377	3.94	40.7	0.8	5.7	2.8	24	0.1	0.4	0.3	21	0.23	
TSL 42493	Soil		0.7	61.3	10.4	93	<0.1	11.4	10.3	479	2.86	9.3	0.6	2.8	2.7	19	0.2	0.3	0.2	50	0.30	
TSL 42494	Soil		1.2	34.7	12.7	105	<0.1	8.9	5.9	394	2.84	3.9	0.9	<0.5	2.9	11	0.2	0.3	0.1	23	0.11	
TSL 42495	Soil		0.4	30.2	9.3	137	<0.1	6.6	7.2	608	3.32	2.2	1.0	<0.5	5.0	9	0.1	0.1	0.2	28	0.11	
TSL 42496	Soil		0.7	30.4	6.9	132	<0.1	9.2	6.3	813	3.68	4.7	1.0	1.5	4.1	15	0.1	0.2	0.1	35	0.21	
TSL 42498	Soil		0.8	47.6	21.7	77	<0.1	14.1	10.7	399	3.11	4.6	1.2	1.8	5.2	19	<0.1	0.2	0.1	54	0.26	
TSL 42499	Soil		0.8	40.5	16.0	71	<0.1	15.7	10.7	403	3.17	6.2	0.8	1.9	4.4	17	<0.1	0.3	0.1	60	0.20	
TSL 42500	Soil		0.8	36.5	12.2	77	<0.1	16.9	12.7	470	3.54	4.6	0.7	<0.5	4.1	23	<0.1	0.2	0.1	80	0.33	
TSL 40121	Soil		2.0	42.2	130.3	59	0.6	20.4	9.6	240	2.20	3.2	2.5	13.6	3.0	64	0.1	0.3	0.5	36	0.63	



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VAN09002999.1

	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	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
TSL 38009	Soil	0.024	16	39	0.69	330	0.132	1	1.97	0.017	0.11	0.1	0.01	4.8	<0.1	<0.05	6	1.0
TSL 38010	Soil	0.060	3	12	0.78	241	0.172	<1	1.70	0.024	0.35	<0.1	<0.01	3.7	0.1	<0.05	6	0.7
TSL 38011	Soil	0.041	6	33	0.90	300	0.211	<1	2.15	0.022	0.37	<0.1	<0.01	3.3	0.2	<0.05	7	0.7
TSL 38012	Soil	0.064	6	21	0.85	623	0.242	<1	2.04	0.022	0.33	<0.1	<0.01	3.8	0.2	<0.05	8	0.7
TSL 38013	Soil	0.105	5	81	1.22	404	0.209	<1	1.91	0.023	0.40	0.1	<0.01	3.3	0.1	<0.05	6	<0.5
TSL 38014	Soil	0.095	5	21	0.65	337	0.120	<1	1.31	0.031	0.23	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5
TSL 38015	Soil	0.095	2	11	0.78	271	0.167	1	1.48	0.009	0.39	<0.1	<0.01	1.3	0.1	<0.05	6	<0.5
TSL 42478	Soil	0.029	5	15	0.76	243	0.183	<1	1.82	0.013	0.33	<0.1	<0.01	3.4	0.1	<0.05	8	0.7
TSL 42479	Soil	0.058	6	19	0.80	255	0.118	<1	1.86	0.016	0.24	<0.1	<0.01	4.6	0.1	<0.05	8	0.9
TSL 42480	Soil	0.050	3	17	1.09	389	0.280	<1	2.01	0.022	0.67	<0.1	<0.01	4.3	0.2	<0.05	8	0.9
TSL 42481	Soil	0.039	11	23	0.60	272	0.118	1	1.57	0.017	0.14	<0.1	0.02	4.8	<0.1	<0.05	6	1.0
TSL 42482	Soil	0.033	9	24	0.47	209	0.096	2	1.59	0.015	0.10	0.2	<0.01	4.6	<0.1	<0.05	6	<0.5
TSL 42483	Soil	0.032	9	11	0.78	301	0.137	2	2.68	0.227	0.64	<0.1	0.01	10.1	0.7	1.07	10	3.4
TSL 42484	Soil	0.044	12	24	0.52	295	0.086	2	1.69	0.013	0.11	<0.1	0.02	4.5	<0.1	<0.05	6	1.0
TSL 42485	Soil	0.030	10	12	0.36	235	0.093	<1	1.24	0.011	0.24	0.1	<0.01	4.6	<0.1	<0.05	6	1.0
TSL 42486	Soil	0.040	10	16	0.49	210	0.055	2	1.39	0.017	0.10	0.1	<0.01	4.8	<0.1	<0.05	5	<0.5
TSL 42487	Soil	0.041	9	23	0.45	174	0.086	1	1.42	0.015	0.09	0.1	<0.01	3.8	<0.1	<0.05	5	<0.5
TSL 42488	Soil	0.041	17	21	0.47	227	0.074	<1	1.44	0.014	0.10	<0.1	0.02	4.8	<0.1	<0.05	5	0.9
TSL 42489	Soil	0.043	11	15	0.52	278	0.091	1	1.49	0.012	0.26	<0.1	0.02	5.8	<0.1	0.16	7	0.8
TSL 42490	Soil	0.050	21	37	0.78	308	0.056	1	1.57	0.015	0.11	0.1	0.04	9.6	<0.1	0.15	7	1.2
TSL 42491	Soil	0.020	16	27	0.62	255	0.063	<1	1.83	0.017	0.07	0.1	0.02	5.7	<0.1	0.12	7	<0.5
TSL 42492	Soil	0.029	13	8	0.40	519	0.040	1	1.25	0.017	0.27	<0.1	0.06	5.0	0.2	0.35	5	0.7
TSL 42493	Soil	0.031	10	19	0.42	360	0.056	<1	1.18	0.013	0.09	0.1	0.05	5.3	0.1	0.09	4	<0.5
TSL 42494	Soil	0.018	22	12	0.24	224	0.042	1	1.14	0.007	0.18	<0.1	0.02	4.8	0.1	0.07	5	<0.5
TSL 42495	Soil	0.032	14	8	0.36	215	0.074	1	1.12	0.008	0.36	<0.1	0.02	7.3	0.1	0.08	6	<0.5
TSL 42496	Soil	0.029	10	15	0.35	249	0.053	2	1.17	0.012	0.20	0.1	0.02	8.9	0.2	0.10	5	<0.5
TSL 42498	Soil	0.029	16	28	0.58	268	0.074	<1	1.26	0.023	0.10	<0.1	0.02	8.3	<0.1	0.12	6	0.7
TSL 42499	Soil	0.022	13	28	0.65	292	0.124	<1	1.70	0.014	0.17	0.1	0.02	5.2	<0.1	0.06	6	0.6
TSL 42500	Soil	0.037	22	31	1.16	357	0.133	<1	1.95	0.014	0.24	0.1	0.01	5.6	0.1	0.08	8	0.6
TSL 40121	Soil	0.074	86	25	0.47	1033	0.067	1	1.57	0.021	0.15	0.2	0.09	6.0	0.1	0.26	5	2.1



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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	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 %
		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
TSL 40122	Soil		1.1	20.9	21.6	46	0.1	11.7	13.7	1471	2.15	3.4	0.6	0.9	1.8	21	0.1	0.3	0.2	45	0.21
TSL 40123	Soil		1.2	25.8	22.1	59	0.2	13.9	7.9	262	2.32	4.5	1.0	2.4	1.9	26	0.1	0.2	0.2	57	0.24
TSL 40124	Soil		1.0	26.3	52.0	71	<0.1	17.1	10.5	371	3.12	5.9	0.8	1.5	3.2	30	0.1	0.2	0.3	65	0.31
TSL 40125	Soil		0.6	22.5	17.2	65	<0.1	10.7	8.6	309	2.32	2.4	0.5	1.3	1.6	24	0.1	0.2	0.2	42	0.22
TSL 40126	Soil		0.9	42.6	11.8	95	0.1	12.6	8.4	336	2.92	10.4	1.1	1.2	2.8	30	0.1	0.2	0.2	48	0.27
TSL 40127	Soil		0.6	14.8	15.5	60	<0.1	9.6	7.4	289	2.64	4.1	0.8	39.2	2.5	23	<0.1	0.2	0.2	47	0.22
TSL 40128	Soil		0.8	17.7	17.7	55	<0.1	14.8	8.2	262	2.89	7.1	0.7	<0.5	3.2	25	<0.1	0.4	0.2	61	0.21
TSL 40129	Soil		1.3	53.6	26.7	117	0.2	15.6	12.1	1118	3.13	10.2	1.3	1.2	3.9	32	0.2	0.3	0.3	57	0.25
TSL 40130	Soil		1.3	55.0	25.9	69	0.3	20.7	10.5	581	3.13	9.3	2.7	2.9	4.7	51	0.1	0.4	0.3	59	0.52
TSL 40134	Soil		1.3	73.5	20.9	233	0.1	20.2	13.0	543	3.57	6.0	0.9	3.4	3.4	22	0.3	0.2	0.2	81	0.34
TSL 40135	Soil		1.1	68.1	6.0	49	0.1	15.1	23.3	579	4.52	15.0	0.5	5.7	1.1	21	<0.1	0.4	<0.1	145	0.63
TSL 40136	Soil		1.5	59.8	11.9	85	<0.1	19.6	30.0	489	5.28	7.5	0.5	<0.5	1.5	26	<0.1	0.3	0.2	143	0.37
TSL 40137	Soil		1.3	47.4	3.2	60	<0.1	4.6	7.4	147	2.48	1.3	0.2	<0.5	0.2	28	<0.1	<0.1	<0.1	65	0.27
TSL 40180	Soil		3.5	23.8	11.2	120	<0.1	12.8	9.6	400	3.21	6.3	0.7	2.1	3.5	16	<0.1	0.4	0.1	56	0.18
TSL 40181	Soil		0.7	30.8	9.4	68	<0.1	22.3	10.6	464	3.35	7.0	1.5	2.1	5.6	26	<0.1	0.5	0.1	63	0.30
TSL 40182	Soil		1.6	17.6	12.2	62	<0.1	16.8	8.2	362	3.24	8.6	0.5	<0.5	2.2	18	<0.1	0.5	0.2	71	0.22
TSL 40183	Soil		3.5	25.1	10.2	86	<0.1	22.3	9.9	448	3.48	7.5	0.8	10.3	4.2	22	0.1	0.4	0.2	65	0.23
TSL 40184	Soil		0.9	28.8	12.8	84	<0.1	35.9	17.7	489	3.89	9.5	1.2	0.9	5.3	17	0.3	0.5	0.2	73	0.17
TSL 40185	Soil		1.1	16.0	18.2	68	<0.1	16.1	9.2	436	3.35	7.3	0.6	1.7	3.5	14	0.1	0.4	0.2	65	0.16
TSL 40187	Soil		0.8	19.4	17.2	76	<0.1	14.0	9.2	414	2.87	7.3	0.9	1.8	4.0	29	0.1	0.4	0.4	57	0.31
TSL 40188	Soil		0.8	29.5	18.7	98	<0.1	21.4	11.3	538	3.32	6.0	1.2	1.8	4.1	28	0.1	0.3	0.2	61	0.36
TSL 40539	Soil		0.9	26.6	4.6	55	<0.1	10.9	20.1	530	4.51	3.7	0.8	5.5	2.6	24	<0.1	0.2	<0.1	123	0.38
TSL 40542	Soil		1.3	100.4	6.8	96	<0.1	23.2	18.4	402	4.34	9.2	0.6	1.4	1.4	24	0.1	0.2	0.1	118	0.23
TSL 40544	Soil		1.3	33.5	9.9	71	<0.1	19.2	14.0	306	3.26	11.8	1.1	2.6	4.1	24	<0.1	0.4	0.1	83	0.45
TSL 40545	Soil		1.5	28.8	10.9	73	<0.1	12.6	14.7	482	3.32	14.2	0.7	1.5	3.0	18	0.2	0.4	0.2	90	0.36
TSL 40546	Soil		1.2	30.1	7.2	75	<0.1	15.6	17.6	678	3.33	8.2	0.9	0.9	3.5	23	0.1	0.2	0.1	85	0.49
TSL 40547	Soil		1.6	19.2	6.8	47	0.1	9.5	6.7	252	1.93	5.9	0.5	1.7	0.8	21	0.1	0.2	0.1	40	0.31
TSL 40552	Soil		0.8	56.3	5.8	72	<0.1	23.8	18.4	724	3.02	5.4	0.8	1.5	1.5	30	0.3	0.3	<0.1	85	0.87
TSL 40656	Soil		1.0	26.8	8.2	60	<0.1	16.0	10.0	211	2.97	10.7	0.6	1.6	2.9	19	<0.1	0.3	0.1	78	0.24
TSL 40658	Soil		0.9	29.5	8.2	70	<0.1	18.3	16.5	467	3.89	6.0	0.4	2.9	2.1	21	<0.1	0.5	0.1	108	0.24



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Report Date: July 27, 2009

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
TSL 40122	Soil	0.038	16	20	0.31	393	0.080	1	1.12	0.018	0.12	0.1	0.03	2.8	<0.1	0.06	5	<0.5
TSL 40123	Soil	0.033	16	25	0.46	417	0.090	<1	1.45	0.015	0.10	0.1	0.03	3.4	<0.1	0.07	7	0.8
TSL 40124	Soil	0.034	15	34	0.69	424	0.121	<1	1.72	0.016	0.12	0.2	0.02	4.4	0.1	0.07	7	0.5
TSL 40125	Soil	0.034	9	23	0.52	293	0.102	1	1.37	0.014	0.20	0.1	0.02	3.1	0.1	0.08	7	<0.5
TSL 40126	Soil	0.041	15	24	0.72	520	0.109	<1	1.68	0.014	0.20	<0.1	0.04	4.5	0.2	0.11	7	0.7
TSL 40127	Soil	0.031	15	19	0.57	417	0.134	1	1.40	0.012	0.23	0.1	0.01	3.8	<0.1	0.07	7	<0.5
TSL 40128	Soil	0.021	12	27	0.55	419	0.118	<1	1.72	0.013	0.14	0.2	0.01	3.6	<0.1	<0.05	6	<0.5
TSL 40129	Soil	0.038	30	24	0.50	733	0.103	2	1.46	0.013	0.24	0.1	0.02	5.4	0.2	0.07	7	0.7
TSL 40130	Soil	0.040	71	32	0.47	1329	0.069	2	2.00	0.014	0.13	0.2	0.08	9.2	0.1	0.07	7	2.3
TSL 40134	Soil	0.029	17	32	1.02	501	0.167	1	1.85	0.021	0.33	<0.1	0.02	6.2	0.2	0.07	8	<0.5
TSL 40135	Soil	0.038	8	17	0.98	524	0.060	2	1.96	0.037	0.10	<0.1	0.04	11.5	<0.1	0.09	8	0.8
TSL 40136	Soil	0.025	9	22	1.14	314	0.097	1	2.16	0.028	0.10	<0.1	0.02	10.0	<0.1	0.10	7	1.1
TSL 40137	Soil	0.015	1	5	0.57	74	0.079	1	1.34	0.038	0.08	<0.1	<0.01	3.8	<0.1	0.15	3	0.6
TSL 40180	Soil	0.026	10	23	0.68	255	0.126	<1	1.76	0.012	0.16	0.1	0.01	4.5	<0.1	<0.05	7	0.8
TSL 40181	Soil	0.024	31	37	0.57	450	0.092	2	1.78	0.022	0.07	0.2	0.06	8.7	<0.1	<0.05	6	0.8
TSL 40182	Soil	0.027	8	27	0.38	329	0.041	3	1.65	0.009	0.11	<0.1	0.01	4.2	0.1	<0.05	6	0.6
TSL 40183	Soil	0.022	15	37	0.43	609	0.060	3	1.57	0.019	0.08	0.2	0.07	7.2	<0.1	<0.05	5	<0.5
TSL 40184	Soil	0.024	9	47	0.65	242	0.113	2	2.73	0.020	0.15	<0.1	0.02	5.9	0.1	<0.05	7	<0.5
TSL 40185	Soil	0.038	8	28	0.50	164	0.111	2	1.79	0.010	0.14	0.1	0.01	4.3	0.1	<0.05	8	<0.5
TSL 40187	Soil	0.029	13	24	0.49	520	0.092	2	1.64	0.016	0.10	0.2	0.02	4.8	<0.1	<0.05	6	<0.5
TSL 40188	Soil	0.040	17	50	0.59	570	0.120	2	1.87	0.013	0.24	0.1	0.02	6.2	0.1	<0.05	8	0.6
TSL 40539	Soil	0.036	10	17	1.42	541	0.217	1	2.22	0.018	0.63	0.1	0.01	7.8	0.2	<0.05	8	0.7
TSL 40542	Soil	0.048	6	23	1.12	251	0.181	<1	2.32	0.021	0.32	<0.1	0.02	4.4	0.1	0.08	8	0.5
TSL 40544	Soil	0.057	15	27	0.62	416	0.098	<1	1.52	0.021	0.08	0.1	0.03	6.2	<0.1	0.06	6	0.8
TSL 40545	Soil	0.050	11	27	0.56	327	0.070	<1	1.74	0.021	0.05	0.1	0.02	5.0	<0.1	<0.05	6	0.6
TSL 40546	Soil	0.056	19	27	0.65	513	0.076	2	1.70	0.019	0.05	0.1	0.03	5.8	<0.1	<0.05	6	0.6
TSL 40547	Soil	0.059	7	23	0.34	254	0.050	<1	0.95	0.020	0.06	0.1	0.04	2.2	<0.1	<0.05	4	0.8
TSL 40552	Soil	0.059	14	51	0.83	412	0.129	2	1.55	0.029	0.23	<0.1	0.05	5.0	0.2	0.11	5	1.0
TSL 40656	Soil	0.031	9	29	0.58	192	0.110	1	1.67	0.016	0.06	0.2	0.02	3.4	<0.1	<0.05	6	<0.5
TSL 40658	Soil	0.022	7	36	0.99	382	0.166	<1	2.13	0.020	0.19	0.1	0.02	4.1	<0.1	<0.05	7	0.7



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## CERTIFICATE OF ANALYSIS

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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	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
TSL 40661	Soil		1.1	75.8	3.8	90	<0.1	18.1	18.3	396	4.42	4.6	0.2	<0.5	0.9	17	<0.1	0.2	<0.1	145	0.34
TSL 40662	Soil		1.4	22.7	11.3	61	<0.1	22.8	10.7	205	3.20	41.4	0.7	2.2	5.2	14	<0.1	0.4	0.2	83	0.19
TSL 40664	Soil		1.1	32.1	9.6	80	<0.1	20.7	12.4	319	3.37	8.0	0.6	0.7	3.4	19	0.1	0.3	0.2	89	0.22
TSL 40665	Soil		1.2	32.4	8.3	76	<0.1	14.1	14.6	389	3.50	6.6	0.5	<0.5	2.3	20	<0.1	0.3	0.1	94	0.28
TSL 40668	Soil		1.0	41.2	7.6	69	0.1	14.0	14.2	322	3.25	6.5	0.5	<0.5	1.7	21	0.1	0.2	<0.1	93	0.33
TSL 40714	Soil		1.8	47.5	17.6	163	<0.1	31.8	16.8	281	4.08	45.8	1.0	1.5	8.1	21	0.3	0.5	0.2	90	0.42
TSL 42250	Soil		0.7	61.2	11.7	90	<0.1	11.9	10.8	495	2.91	9.7	0.7	<0.5	2.8	20	0.3	0.3	0.1	50	0.32
TSL 39236	Soil		1.0	20.9	4.8	40	<0.1	17.3	8.1	235	3.59	7.5	0.4	2.1	1.7	35	<0.1	0.4	0.1	73	0.24
TSL 39288	Soil		0.9	141.1	7.5	64	<0.1	21.4	35.4	378	4.57	26.4	0.6	1.3	2.1	24	<0.1	0.4	<0.1	106	0.33
TSL 39290	Soil		0.6	93.9	7.4	55	<0.1	17.6	30.0	754	5.70	10.7	0.9	1.1	1.5	54	<0.1	0.2	<0.1	161	0.53
TSL 39291	Soil		0.3	83.0	4.6	114	<0.1	19.7	24.4	569	4.10	3.5	0.5	1.0	2.3	26	<0.1	0.1	<0.1	146	0.36
TSL 39292	Soil		0.6	60.0	4.7	103	<0.1	15.4	16.6	480	4.28	10.0	0.8	<0.5	5.7	38	<0.1	0.1	<0.1	93	0.42
TSL 39294	Soil		0.4	87.1	2.7	65	<0.1	13.5	24.7	330	4.83	3.7	0.1	<0.5	0.3	13	<0.1	0.1	<0.1	216	0.41
TSL 39296	Soil		0.5	47.8	4.2	50	<0.1	20.0	16.2	320	2.81	3.8	0.4	3.9	2.0	20	<0.1	0.2	<0.1	81	0.36
TSL UNKNOWN	Soil		2.5	34.0	8.5	71	<0.1	33.2	16.9	536	3.40	5.7	1.7	3.0	11.3	17	<0.1	0.2	0.1	49	0.18



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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
TSL 40661	Soil	0.053	3	31	1.21	681	0.267	<1	2.31	0.024	0.64	0.1	<0.01	3.0	0.2	<0.05	7	0.5
TSL 40662	Soil	0.032	15	36	0.60	218	0.077	<1	1.74	0.009	0.11	0.1	0.01	3.8	<0.1	<0.05	6	<0.5
TSL 40664	Soil	0.044	11	43	0.81	300	0.152	2	2.13	0.013	0.14	0.1	<0.01	3.4	0.1	<0.05	7	0.6
TSL 40665	Soil	0.048	8	31	0.89	325	0.173	1	1.95	0.014	0.21	<0.1	0.01	3.6	0.1	<0.05	7	0.8
TSL 40668	Soil	0.055	7	27	0.84	222	0.154	1	1.73	0.015	0.15	0.1	0.03	3.4	<0.1	<0.05	7	0.8
TSL 40714	Soil	0.083	15	41	0.76	494	0.110	1	2.07	0.016	0.25	0.1	0.02	5.0	0.2	<0.05	7	1.0
TSL 42250	Soil	0.033	11	17	0.44	375	0.056	2	1.23	0.014	0.08	0.1	0.04	4.8	<0.1	<0.05	4	1.1
TSL 39236	Soil	0.015	6	32	0.64	108	0.091	1	1.42	0.040	0.10	0.1	0.01	3.4	<0.1	0.12	4	1.2
TSL 39288	Soil	0.037	9	22	0.82	341	0.109	1	1.82	0.025	0.16	<0.1	0.02	7.1	0.1	<0.05	6	0.9
TSL 39290	Soil	0.040	10	9	1.96	851	0.215	1	2.66	0.064	0.83	<0.1	0.02	13.2	0.3	<0.05	9	0.6
TSL 39291	Soil	0.038	9	21	1.48	570	0.261	1	2.10	0.021	0.98	<0.1	<0.01	4.3	0.2	<0.05	7	<0.5
TSL 39292	Soil	0.032	11	47	1.27	417	0.258	<1	1.91	0.030	0.76	<0.1	<0.01	7.4	0.3	<0.05	8	0.9
TSL 39294	Soil	0.079	1	16	1.19	492	0.299	<1	2.17	0.033	0.95	<0.1	<0.01	4.7	0.3	<0.05	8	0.9
TSL 39296	Soil	0.042	7	37	0.86	315	0.138	<1	1.60	0.023	0.21	<0.1	<0.01	3.6	0.1	<0.05	5	0.6
TSL UNKNOWN	Soil	0.040	43	43	0.56	292	0.090	<1	1.69	0.012	0.23	<0.1	0.02	3.9	0.3	<0.05	6	1.0



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## QUALITY CONTROL REPORT

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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	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																					
TSL 42483	Soil		1.4	503.7	37.9	331	0.5	5.1	6.3	261	8.23	4.3	1.1	10.0	2.7	50	0.1	0.2	1.2	121	0.17
REP TSL 42483	QC		1.6	495.6	37.6	338	0.5	5.6	6.2	255	8.16	4.7	1.1	9.4	2.6	49	0.1	0.2	1.1	123	0.17
TSL 42498	Soil		0.8	47.6	21.7	77	<0.1	14.1	10.7	399	3.11	4.6	1.2	1.8	5.2	19	<0.1	0.2	0.1	54	0.26
REP TSL 42498	QC		0.7	44.8	20.7	74	<0.1	15.7	10.6	380	3.07	4.8	1.2	2.8	5.3	20	<0.1	0.2	0.1	53	0.24
TSL 40542	Soil		1.3	100.4	6.8	96	<0.1	23.2	18.4	402	4.34	9.2	0.6	1.4	1.4	24	0.1	0.2	0.1	118	0.23
REP TSL 40542	QC		1.4	98.3	6.8	100	<0.1	22.1	17.4	393	4.27	9.2	0.5	0.5	1.3	24	<0.1	0.2	0.1	115	0.22
TSL 40552	Soil		0.8	56.3	5.8	72	<0.1	23.8	18.4	724	3.02	5.4	0.8	1.5	1.5	30	0.3	0.3	<0.1	85	0.87
REP TSL 40552	QC		0.8	59.0	6.2	75	0.1	25.3	20.3	757	3.20	6.4	0.8	<0.5	1.6	32	0.3	0.3	<0.1	83	0.91
TSL 40668	Soil		1.0	41.2	7.6	69	0.1	14.0	14.2	322	3.25	6.5	0.5	<0.5	1.7	21	0.1	0.2	<0.1	93	0.33
REP TSL 40668	QC		1.0	40.7	7.2	67	<0.1	14.1	14.4	315	3.23	6.5	0.5	<0.5	1.8	21	0.1	0.2	0.1	94	0.32
Reference Materials																					
STD DS7	Standard		22.1	122.2	69.5	398	0.8	62.8	10.5	632	2.44	51.8	5.0	81.7	4.7	77	6.0	6.3	4.6	92	0.91
STD DS7	Standard		23.2	123.9	75.0	422	0.9	64.6	10.5	683	2.55	52.7	5.5	65.1	4.9	82	6.5	6.1	4.7	93	1.01
STD DS7	Standard		22.6	125.8	74.7	410	0.9	59.5	10.7	713	2.66	52.5	4.8	65.3	4.8	83	6.3	5.8	4.9	93	1.06
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





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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																		
TSL 42483	Soil	0.032	9	11	0.78	301	0.137	2	2.68	0.227	0.64	<0.1	0.01	10.1	0.7	1.07	10	3.4
REP TSL 42483	QC	0.032	9	11	0.77	264	0.134	2	2.72	0.211	0.63	<0.1	0.02	9.9	0.8	1.06	11	3.1
TSL 42498	Soil	0.029	16	28	0.58	268	0.074	<1	1.26	0.023	0.10	<0.1	0.02	8.3	<0.1	0.12	6	0.7
REP TSL 42498	QC	0.028	16	28	0.62	260	0.071	1	1.24	0.017	0.09	<0.1	0.02	8.0	<0.1	0.12	6	<0.5
TSL 40542	Soil	0.048	6	23	1.12	251	0.181	<1	2.32	0.021	0.32	<0.1	0.02	4.4	0.1	0.08	8	0.5
REP TSL 40542	QC	0.051	5	23	1.14	251	0.179	<1	2.37	0.021	0.31	<0.1	0.02	4.4	<0.1	0.09	8	0.6
TSL 40552	Soil	0.059	14	51	0.83	412	0.129	2	1.55	0.029	0.23	<0.1	0.05	5.0	0.2	0.11	5	1.0
REP TSL 40552	QC	0.060	14	52	0.83	425	0.139	3	1.59	0.037	0.23	0.1	0.06	5.0	0.1	0.12	5	1.2
TSL 40668	Soil	0.055	7	27	0.84	222	0.154	1	1.73	0.015	0.15	0.1	0.03	3.4	<0.1	<0.05	7	0.8
REP TSL 40668	QC	0.055	7	26	0.84	222	0.155	<1	1.72	0.015	0.14	0.1	0.03	3.3	0.1	<0.05	6	<0.5
Reference Materials																		
STD DS7	Standard	0.073	14	233	1.08	416	0.139	38	1.10	0.104	0.45	4.0	0.22	2.7	4.2	0.28	5	3.9
STD DS7	Standard	0.079	15	252	1.10	431	0.147	37	1.15	0.104	0.47	4.0	0.20	2.9	4.3	0.20	5	4.8
STD DS7	Standard	0.076	14	250	1.09	407	0.157	37	1.14	0.099	0.46	4.0	0.21	2.6	4.3	0.24	5	3.0
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
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