



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Kaminak Gold Corporation

1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

Submitted By: Tim Smith

Receiving Lab: Canada-Whitehorse

Received: August 17, 2012

Report Date: August 26, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000693.1

### CLIENT JOB INFORMATION

Project: SUG  
Shipment ID: 2012-SUG05  
P.O. Number: KGC-12-1731  
Number of Samples: 71

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
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: Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	71	Dry at 60C			WHI
SS80	69	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	71	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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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1289986	Soil	1.1	25.8	10.2	61	0.1	29.0	11.9	505	2.34	37.5	2.5	10.4	6.0	39	0.2	2.7	0.2	47	1.27	0.053
1294047	Soil	0.7	23.7	11.1	61	<0.1	45.9	14.7	384	2.93	6.1	1.4	14.4	8.2	24	0.1	0.7	0.2	70	0.34	0.051
1294043	Soil	0.8	39.7	23.3	83	<0.1	52.4	31.6	1120	4.60	5.9	0.9	71.4	6.9	24	0.1	0.5	0.2	90	0.59	0.133
1294039	Soil	0.8	36.9	27.2	66	0.1	76.6	24.7	629	4.61	5.1	1.3	250.8	8.5	26	0.1	1.1	0.1	103	0.59	0.112
1285514	Soil	0.8	12.2	7.8	55	<0.1	9.8	13.1	786	3.19	112.3	1.9	11.1	7.6	15	0.1	12.6	<0.1	88	0.21	0.053
1294051	Rock Pulp	2.5	24.4	2.2	41	0.4	22.6	10.0	361	2.25	4.5	0.2	2.6	0.9	38	0.2	0.3	<0.1	56	0.64	0.060
1294044	Soil	0.7	33.9	7.5	60	<0.1	32.7	17.1	479	3.48	5.3	0.9	3.6	6.3	22	<0.1	0.7	<0.1	76	0.41	0.057
1294040	Soil	0.8	25.5	23.0	59	<0.1	34.8	22.8	722	4.10	5.5	1.1	25.1	4.8	23	0.1	0.6	<0.1	95	0.45	0.103
1285525	Soil	1.2	13.8	9.2	70	0.1	15.5	13.5	611	3.46	58.8	1.8	12.5	7.9	21	0.1	1.8	0.2	87	0.29	0.066
1285518	Soil	1.9	19.0	12.7	68	0.1	13.1	12.7	567	4.35	226.7	1.9	14.8	12.5	21	0.2	6.5	0.2	95	0.20	0.039
1294045	Soil	1.6	22.4	11.1	53	<0.1	21.8	13.7	415	3.71	7.3	1.3	3.0	9.5	25	<0.1	0.5	0.2	83	0.32	0.050
1294041	Soil	0.7	20.0	8.8	49	<0.1	41.3	17.5	462	3.42	6.0	0.8	6.3	4.3	27	<0.1	0.4	<0.1	82	0.49	0.092
1285521	Soil	1.4	15.1	9.5	62	0.2	14.7	15.1	653	3.19	47.9	2.7	6.6	7.1	20	0.2	0.7	0.2	84	0.25	0.060
1285526	Soil	1.4	17.9	13.5	64	0.2	17.6	10.9	477	2.75	50.3	2.2	5.9	4.9	23	0.2	1.7	0.2	75	0.28	0.059
1294046	Soil	1.1	28.6	11.5	73	<0.1	37.6	19.2	547	3.98	5.3	1.7	4.6	9.3	27	<0.1	0.5	0.1	93	0.51	0.083
1294042	Soil	0.6	31.9	7.5	55	<0.1	46.8	21.6	622	3.65	4.4	0.6	6.5	4.5	23	<0.1	0.3	<0.1	94	0.39	0.077
1285722	Soil	1.2	12.6	13.2	89	0.1	10.2	13.5	716	3.63	52.2	4.2	3.8	15.7	17	0.2	1.2	0.2	77	0.28	0.089
1285511	Soil	0.9	15.0	9.0	70	0.1	9.6	15.0	627	3.81	219.0	2.4	18.0	11.0	17	<0.1	22.2	<0.1	107	0.27	0.067
1285522	Soil	2.2	18.3	10.0	65	0.2	19.0	12.9	473	3.35	37.4	3.6	5.4	8.7	28	0.2	0.8	0.2	86	0.32	0.049
1285517	Soil	1.8	16.9	10.2	67	0.2	11.5	16.0	921	3.36	158.1	3.0	12.6	9.6	20	0.1	10.4	0.2	86	0.26	0.062
1285509	Soil	0.7	16.9	7.0	66	<0.1	8.5	15.1	656	3.98	41.4	2.3	7.3	9.7	15	<0.1	3.0	<0.1	119	0.27	0.081
1285515	Soil	1.0	15.2	8.9	65	<0.1	10.0	13.7	700	3.23	86.8	2.9	9.3	9.5	17	<0.1	6.7	0.1	89	0.22	0.055
1285503	Soil	1.4	12.0	7.9	83	0.2	7.5	14.8	663	3.89	157.2	4.5	6.0	19.5	19	0.1	6.6	<0.1	104	0.37	0.108
1285516	Soil	1.7	17.0	8.8	68	0.2	9.6	14.3	654	3.60	92.5	3.4	6.1	12.0	16	0.1	9.3	0.2	93	0.22	0.073
1285727	Soil	1.2	14.3	19.9	75	0.3	12.6	12.2	464	3.50	1048	4.3	192.6	13.2	28	0.3	27.3	0.1	66	0.35	0.062
1285729	Soil	0.7	12.8	8.0	80	<0.1	13.0	14.6	678	3.75	45.0	1.9	6.9	10.7	23	0.1	3.4	<0.1	89	0.34	0.062
1285502	Soil	0.9	14.6	9.3	60	0.1	13.1	11.2	496	3.16	32.4	3.2	5.7	10.2	29	0.1	1.6	0.1	81	0.38	0.065
1285724	Soil	1.0	15.6	11.2	94	<0.1	11.5	16.0	932	4.51	25.1	2.6	3.0	17.1	28	0.1	0.6	0.5	103	0.44	0.075
1285728	Soil	0.6	15.0	8.7	74	0.1	14.0	13.9	720	3.57	64.8	3.2	9.1	15.3	28	0.1	3.2	0.1	83	0.38	0.075
1285504	Soil	1.0	14.1	7.9	58	0.1	9.2	12.1	590	3.02	41.2	2.3	4.7	9.4	24	0.1	0.8	0.1	86	0.37	0.081



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Report Date: **August 26, 2012**

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1289986	Soil	23	42	0.58	423	0.047	4	1.13	0.011	0.09	0.1	0.08	4.4	0.2	0.07	4	<0.5
1294047	Soil	18	80	1.15	176	0.119	3	2.00	0.013	0.13	0.2	0.04	4.5	0.3	<0.05	6	<0.5
1294043	Soil	18	81	2.03	326	0.187	2	2.37	0.007	0.85	0.1	<0.01	6.0	0.6	<0.05	8	<0.5
1294039	Soil	18	146	1.92	436	0.152	2	2.29	0.010	0.57	0.1	0.09	8.5	0.4	<0.05	7	<0.5
1285514	Soil	11	22	0.70	215	0.170	3	1.71	0.014	0.16	0.2	0.02	3.8	0.3	0.05	6	<0.5
1294051	Rock Pulp	3	28	0.74	95	0.095	4	1.33	0.071	0.11	12.3	0.01	4.0	<0.1	<0.05	5	<0.5
1294044	Soil	25	49	1.40	237	0.135	3	2.07	0.010	0.27	0.1	0.02	5.2	0.2	<0.05	6	<0.5
1294040	Soil	12	50	1.57	296	0.159	3	2.26	0.010	0.41	0.1	0.03	6.7	0.3	<0.05	7	<0.5
1285525	Soil	15	31	0.71	240	0.157	3	1.94	0.015	0.14	0.2	0.02	3.7	0.2	<0.05	7	<0.5
1285518	Soil	18	26	0.69	254	0.179	2	2.04	0.013	0.20	0.4	0.03	4.9	0.4	<0.05	8	<0.5
1294045	Soil	22	40	0.98	218	0.133	2	2.11	0.008	0.18	0.2	0.02	4.4	0.2	<0.05	8	<0.5
1294041	Soil	9	73	1.61	227	0.139	1	2.08	0.011	0.32	0.1	0.01	4.9	0.2	<0.05	6	<0.5
1285521	Soil	13	28	0.68	205	0.156	1	1.89	0.015	0.12	0.2	0.03	3.8	0.2	<0.05	7	<0.5
1285526	Soil	14	29	0.59	231	0.120	3	1.90	0.014	0.09	0.2	0.03	3.2	0.2	<0.05	8	<0.5
1294046	Soil	31	59	1.46	309	0.171	2	2.40	0.010	0.43	0.2	0.03	7.0	0.4	<0.05	8	<0.5
1294042	Soil	8	88	1.82	297	0.171	2	2.48	0.015	0.42	0.2	<0.01	4.7	0.3	<0.05	7	<0.5
1285722	Soil	26	19	0.77	237	0.158	2	1.89	0.013	0.23	0.2	0.05	6.0	0.7	<0.05	8	<0.5
1285511	Soil	14	24	0.85	352	0.232	2	2.07	0.016	0.33	0.2	0.03	4.4	0.5	<0.05	8	<0.5
1285522	Soil	19	30	0.64	310	0.145	3	1.99	0.015	0.09	0.2	0.04	4.6	0.2	<0.05	7	<0.5
1285517	Soil	17	26	0.63	268	0.151	2	1.76	0.015	0.18	0.4	0.04	5.1	0.3	<0.05	7	<0.5
1285509	Soil	12	23	0.95	398	0.263	2	2.19	0.019	0.41	0.2	0.02	4.3	0.6	<0.05	8	<0.5
1285515	Soil	15	24	0.69	274	0.189	3	1.75	0.014	0.19	0.2	0.04	5.0	0.5	<0.05	7	<0.5
1285503	Soil	37	21	0.93	312	0.228	1	1.87	0.016	0.68	0.3	0.03	7.6	0.7	<0.05	8	<0.5
1285516	Soil	17	24	0.67	253	0.149	2	1.97	0.014	0.20	0.4	0.04	6.4	0.4	<0.05	8	<0.5
1285727	Soil	41	21	0.56	253	0.077	2	1.55	0.011	0.13	0.2	0.05	7.3	0.3	<0.05	6	<0.5
1285729	Soil	17	26	0.83	209	0.184	2	1.68	0.017	0.18	0.2	0.01	4.9	0.3	<0.05	7	<0.5
1285502	Soil	25	25	0.69	247	0.163	1	1.70	0.015	0.15	0.2	0.04	4.8	0.3	<0.05	7	<0.5
1285724	Soil	20	25	1.02	288	0.184	2	1.87	0.015	0.41	0.3	0.01	9.5	0.7	<0.05	8	<0.5
1285728	Soil	25	27	0.92	273	0.167	1	1.96	0.020	0.20	0.2	0.03	6.6	0.4	<0.05	7	<0.5
1285504	Soil	19	22	0.75	275	0.164	2	1.67	0.017	0.22	0.2	0.05	4.5	0.3	<0.05	7	0.5



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1285505	Soil	1.2	15.8	11.7	83	0.1	10.5	17.1	1063	3.97	152.7	2.7	12.0	12.3	23	0.1	30.4	0.1	95	0.36	0.070
1285507	Soil	0.7	40.2	10.4	49	0.7	13.4	8.8	384	2.36	92.5	7.8	29.4	4.0	27	0.2	3.8	0.1	46	0.28	0.105
1285513	Soil	0.8	13.5	7.1	52	0.1	8.7	10.2	464	2.74	135.1	2.1	13.8	5.8	16	<0.1	26.2	<0.1	78	0.21	0.046
1285520	Soil	1.2	11.8	8.8	56	0.1	11.1	10.1	410	2.50	26.4	2.3	4.2	5.3	20	0.1	0.5	0.1	63	0.24	0.050
1285524	Soil	1.3	12.4	8.2	57	0.1	12.4	12.1	459	2.69	35.3	2.3	4.7	5.9	25	0.1	1.7	<0.1	80	0.33	0.060
1285725	Soil	1.1	15.8	11.1	83	<0.1	16.1	14.2	941	3.68	198.9	2.0	12.6	13.4	23	0.1	4.6	0.1	90	0.27	0.052
1285510	Soil	0.8	12.1	7.3	58	<0.1	10.8	11.1	499	3.33	105.8	1.9	9.5	6.0	18	<0.1	12.1	0.5	106	0.30	0.061
1285512	Soil	0.8	14.6	7.5	66	<0.1	10.1	13.9	824	3.68	223.6	1.6	20.6	7.3	14	<0.1	35.3	0.3	114	0.26	0.063
1285506	Soil	1.6	19.3	10.1	74	0.2	14.6	14.6	754	3.81	265.1	2.8	18.5	10.4	20	0.2	20.5	0.4	93	0.32	0.075
1285501	Rock Pulp	1.8	467.1	22.3	169	0.2	233.1	79.5	807	16.97	4.0	1.3	42.0	8.0	15	<0.1	0.4	0.4	228	0.32	0.044
1285585	Soil	1.0	20.4	8.5	71	<0.1	21.2	15.1	636	4.14	99.7	1.1	5.0	9.3	22	0.2	0.6	0.2	102	0.39	0.069
1285723	Soil	1.3	17.9	9.0	92	<0.1	12.1	15.4	670	5.01	260.5	3.9	19.6	17.7	29	<0.1	2.2	0.1	112	0.53	0.104
1285519	Soil	1.4	10.4	10.0	76	<0.1	9.7	8.9	505	3.59	119.1	1.8	10.2	17.8	16	<0.1	3.5	0.2	90	0.36	0.096
1285523	Soil	1.0	13.8	7.9	61	0.1	16.6	8.8	292	2.61	32.4	2.5	1.4	6.0	28	<0.1	0.6	0.2	71	0.43	0.060
1285586	Soil	1.2	17.2	9.6	64	0.2	16.8	10.9	371	2.79	39.8	2.1	8.9	5.1	24	0.1	0.7	0.2	72	0.34	0.055
1285584	Soil	1.8	16.8	14.7	77	0.2	20.5	15.1	1362	3.05	105.9	0.7	3.3	4.9	38	0.6	0.6	0.1	81	0.50	0.062
1285726	Soil	1.0	14.7	10.4	80	<0.1	17.3	14.9	910	3.79	178.3	1.6	7.4	11.3	23	<0.1	4.3	0.1	94	0.34	0.050
1285508	Soil	1.0	21.1	9.1	89	<0.1	15.6	19.0	599	5.43	440.6	3.9	12.6	18.8	20	0.1	24.5	0.1	127	0.44	0.110
1285173	Soil	0.8	24.5	10.2	63	<0.1	21.3	11.1	304	2.90	28.0	1.0	8.9	4.8	28	<0.1	0.7	0.1	73	0.35	0.051
1285180	Soil	0.9	17.3	8.8	64	0.2	17.6	12.2	459	3.24	135.5	3.0	18.9	7.6	26	0.2	9.6	<0.1	83	0.45	0.057
1285560	Soil	0.9	39.9	11.1	92	0.1	21.9	14.9	516	3.65	5.8	1.0	<0.5	8.7	31	0.2	0.3	0.1	86	0.77	0.067
1285587	Soil	0.6	14.9	7.9	60	<0.1	16.1	11.7	449	3.06	123.4	1.5	20.5	6.7	22	<0.1	1.3	<0.1	82	0.36	0.057
1285177	Soil	1.0	18.6	8.5	62	0.1	20.4	11.9	341	3.19	22.2	1.3	4.6	5.9	26	0.1	0.8	<0.1	84	0.35	0.056
1285179	Soil	0.8	16.0	7.9	65	0.2	17.8	11.1	324	3.05	96.6	1.9	24.9	6.7	24	<0.1	1.7	<0.1	78	0.32	0.057
1285559	Soil	0.5	40.7	3.9	71	<0.1	52.5	23.6	790	4.79	4.3	0.8	<0.5	6.4	31	<0.1	<0.1	<0.1	85	0.75	0.121
1285566	Soil	1.0	30.4	14.5	78	0.1	45.5	17.1	471	3.54	28.8	2.3	8.8	12.4	32	0.2	0.6	0.3	70	0.85	0.076
1285174	Soil	0.8	19.5	9.1	62	<0.1	21.3	11.3	370	2.91	28.4	1.0	7.4	6.0	28	<0.1	0.8	<0.1	76	0.38	0.049
1285171	Soil	1.5	14.8	20.7	97	0.2	15.0	22.4	1983	5.61	330.0	7.8	53.9	22.4	13	0.1	4.4	<0.1	114	0.26	0.061
1285582	Soil	1.2	23.4	12.5	66	0.2	20.0	14.1	554	3.39	303.9	2.5	52.0	12.7	35	<0.1	1.6	0.1	84	0.70	0.062
1285563	Soil	1.1	19.3	9.2	64	<0.1	21.7	12.3	525	3.00	13.2	2.8	8.7	13.1	30	0.1	0.4	0.3	59	0.86	0.048



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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
		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	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1285505	Soil	22	25	0.79	253	0.144	2	1.80	0.014	0.24	0.3	0.04	6.8	1.0	<0.05	8	<0.5	<0.2
1285507	Soil	33	27	0.46	260	0.062	2	1.61	0.014	0.11	0.3	0.13	4.0	0.2	<0.05	6	0.5	<0.2
1285513	Soil	11	21	0.58	269	0.162	1	1.62	0.017	0.11	0.2	0.04	3.6	0.3	<0.05	6	0.5	<0.2
1285520	Soil	12	22	0.60	179	0.153	2	1.66	0.015	0.10	0.2	0.03	2.9	0.2	<0.05	7	<0.5	<0.2
1285524	Soil	14	26	0.62	227	0.154	2	1.54	0.016	0.07	0.2	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
1285725	Soil	18	29	0.73	201	0.149	1	1.89	0.015	0.18	0.3	0.02	5.3	0.3	<0.05	8	<0.5	<0.2
1285510	Soil	13	28	0.72	268	0.168	2	1.86	0.020	0.13	0.2	0.05	4.7	0.3	<0.05	7	<0.5	<0.2
1285512	Soil	12	27	0.79	269	0.202	1	2.00	0.022	0.21	0.1	0.04	4.1	0.4	<0.05	7	0.6	<0.2
1285506	Soil	20	29	0.82	241	0.132	1	2.08	0.017	0.23	0.3	0.08	7.5	0.6	<0.05	8	<0.5	<0.2
1285501	Rock Pulp	18	716	0.14	154	0.194	4	4.27	0.014	0.07	<0.1	0.04	43.5	0.1	<0.05	21	<0.5	<0.2
1285585	Soil	13	36	1.01	261	0.164	<1	2.57	0.024	0.19	0.2	0.02	4.9	0.2	<0.05	8	<0.5	<0.2
1285723	Soil	31	27	0.92	316	0.185	2	2.04	0.021	0.46	0.3	0.03	14.1	0.8	<0.05	7	<0.5	<0.2
1285519	Soil	24	20	0.75	367	0.194	2	1.83	0.020	0.38	0.1	0.03	6.0	0.5	<0.05	8	<0.5	<0.2
1285523	Soil	15	29	0.66	255	0.149	1	1.79	0.023	0.08	0.2	0.03	4.3	0.2	0.07	6	<0.5	<0.2
1285586	Soil	14	32	0.61	214	0.120	<1	1.95	0.016	0.07	0.1	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
1285584	Soil	14	36	0.61	293	0.108	2	1.97	0.014	0.10	0.1	0.02	4.3	0.1	0.05	8	<0.5	<0.2
1285726	Soil	19	31	0.82	207	0.171	1	2.20	0.019	0.20	0.2	0.03	5.1	0.4	0.07	7	<0.5	<0.2
1285508	Soil	26	39	1.23	435	0.223	<1	2.95	0.022	0.49	0.3	<0.01	8.5	0.7	<0.05	10	<0.5	<0.2
1285173	Soil	16	39	0.68	206	0.119	<1	2.41	0.016	0.06	<0.1	0.04	5.4	0.2	<0.05	8	<0.5	<0.2
1285180	Soil	18	34	0.80	224	0.142	1	2.15	0.019	0.07	0.1	0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1285560	Soil	18	41	1.32	329	0.162	<1	2.12	0.016	0.37	0.1	0.03	4.8	0.3	<0.05	8	<0.5	<0.2
1285587	Soil	17	29	0.73	214	0.140	<1	1.93	0.022	0.11	0.2	0.04	4.5	0.2	<0.05	7	<0.5	<0.2
1285177	Soil	13	36	0.71	218	0.164	<1	2.25	0.016	0.09	<0.1	0.03	4.7	0.3	<0.05	7	<0.5	<0.2
1285179	Soil	16	34	0.71	212	0.126	<1	2.07	0.017	0.08	0.1	0.03	5.4	0.2	<0.05	7	<0.5	<0.2
1285559	Soil	15	81	2.24	406	0.260	<1	2.85	0.012	1.05	0.1	0.04	3.1	0.5	<0.05	8	<0.5	<0.2
1285566	Soil	35	97	1.62	243	0.156	<1	2.44	0.017	0.31	0.2	0.03	5.4	0.3	<0.05	7	<0.5	<0.2
1285174	Soil	15	38	0.75	219	0.141	<1	2.10	0.018	0.08	0.1	0.04	4.9	0.1	<0.05	6	<0.5	<0.2
1285171	Soil	87	20	0.14	464	0.006	1	0.91	0.006	0.06	0.2	0.15	25.9	0.4	<0.05	3	<0.5	<0.2
1285582	Soil	24	41	0.84	267	0.097	<1	2.07	0.026	0.07	0.1	0.08	8.5	0.2	<0.05	7	<0.5	<0.2
1285563	Soil	34	40	1.02	186	0.095	<1	1.76	0.017	0.14	0.1	0.04	5.5	0.2	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1285158	Soil	0.8	14.0	7.4	59	<0.1	23.7	12.6	497	2.71	5.2	1.7	20.7	11.1	27	<0.1	0.2	0.6	64	0.63
1285172	Soil	1.9	16.9	11.4	65	0.2	17.4	13.6	752	3.67	558.6	1.5	61.7	7.9	22	0.1	1.9	0.1	86	0.30
1285178	Soil	0.8	16.3	11.4	65	0.1	17.9	11.8	332	3.05	26.7	1.5	3.2	6.7	27	<0.1	0.8	0.1	81	0.40
1285576	Soil	0.6	49.6	12.6	89	<0.1	36.0	15.6	630	3.19	11.7	1.4	4.2	12.6	46	0.1	0.6	0.1	63	1.10
1285156	Soil	1.9	19.9	11.0	72	0.1	24.7	16.6	838	3.16	8.3	2.3	7.9	11.8	31	<0.1	0.4	0.2	66	0.72
1285574	Soil	1.1	21.8	10.0	55	<0.1	35.7	13.9	570	2.89	5.3	3.1	27.0	24.0	31	<0.1	0.2	0.2	67	0.75
1285570	Soil	1.3	25.6	10.1	63	<0.1	48.8	16.7	524	3.33	4.9	2.0	5.6	18.1	27	0.1	0.3	0.1	76	0.70
1285579	Soil	0.4	42.4	2.8	57	<0.1	21.6	24.1	610	3.55	3.5	0.2	<0.5	1.2	26	<0.1	0.6	<0.1	117	0.50
1285154	Soil	0.5	49.7	8.0	79	<0.1	39.6	16.7	564	3.15	7.2	0.9	7.5	8.9	52	0.1	0.5	0.1	59	1.49
1285565	Soil	1.2	16.3	7.5	43	<0.1	25.7	11.0	402	2.41	5.6	1.5	5.3	14.3	27	<0.1	0.3	<0.1	58	0.55
1285562	Soil	1.5	36.6	20.8	82	0.1	16.7	29.7	2153	4.13	5.8	1.6	3.9	9.2	19	0.1	0.2	0.1	51	0.29



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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
		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	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1285158	Soil	14	52	1.04	134	0.122	<1	1.73	0.017	0.18	0.2	0.03	4.2	0.3	<0.05	6	<0.5	<0.2
1285172	Soil	18	33	0.61	337	0.057	<1	2.07	0.015	0.05	0.2	0.02	6.8	0.2	<0.05	7	<0.5	<0.2
1285178	Soil	15	34	0.74	232	0.159	<1	2.17	0.018	0.09	<0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
1285576	Soil	41	50	1.08	305	0.111	2	1.96	0.015	0.25	<0.1	0.04	5.8	0.2	<0.05	6	<0.5	<0.2
1285156	Soil	23	55	1.32	232	0.112	<1	2.18	0.018	0.18	<0.1	0.04	5.5	0.3	0.11	7	<0.5	0.2
1285574	Soil	81	70	1.14	194	0.121	1	2.04	0.019	0.25	0.2	0.04	5.8	0.4	<0.05	6	<0.5	<0.2
1285570	Soil	41	100	1.70	214	0.178	<1	2.42	0.018	0.52	0.1	0.02	5.2	0.4	<0.05	7	<0.5	<0.2
1285579	Soil	3	20	1.87	217	0.121	<1	2.45	0.027	0.08	<0.1	0.03	7.1	<0.1	<0.05	6	<0.5	<0.2
1285154	Soil	27	55	1.12	270	0.115	<1	1.83	0.014	0.29	<0.1	0.04	4.6	0.2	0.07	5	<0.5	<0.2
1285565	Soil	26	52	0.95	126	0.105	<1	1.58	0.019	0.21	0.2	0.02	3.9	0.2	0.08	5	<0.5	<0.2
1285562	Soil	18	28	1.24	105	0.100	<1	2.22	0.017	0.31	<0.1	<0.01	3.9	0.3	0.27	6	<0.5	<0.2



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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	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1285518	Soil	1.9	19.0	12.7	68	0.1	13.1	12.7	567	4.35	226.7	1.9	14.8	12.5	21	0.2	6.5	0.2	95	0.20	0.039
REP 1285518	QC	1.9	17.1	12.7	67	0.1	13.1	11.6	533	3.85	230.5	1.9	13.2	13.5	19	0.2	6.5	0.2	95	0.20	0.039
1285727	Soil	1.2	14.3	19.9	75	0.3	12.6	12.2	464	3.50	1048	4.3	192.6	13.2	28	0.3	27.3	0.1	66	0.35	0.062
REP 1285727	QC	1.4	15.0	20.9	70	0.4	12.2	11.8	479	3.50	1049	4.1	187.4	13.7	30	0.3	29.0	0.1	69	0.36	0.061
1285586	Soil	1.2	17.2	9.6	64	0.2	16.8	10.9	371	2.79	39.8	2.1	8.9	5.1	24	0.1	0.7	0.2	72	0.34	0.055
REP 1285586	QC	0.8	15.7	9.3	61	0.1	16.9	11.1	358	2.74	40.2	2.1	6.1	5.0	24	0.1	0.6	0.2	72	0.33	0.056
1285158	Soil	0.8	14.0	7.4	59	<0.1	23.7	12.6	497	2.71	5.2	1.7	20.7	11.1	27	<0.1	0.2	0.6	64	0.63	0.056
REP 1285158	QC	1.1	12.9	7.8	55	<0.1	22.7	11.8	469	2.60	4.9	1.5	6.4	11.3	27	<0.1	0.2	0.2	60	0.62	0.058
Reference Materials																					
STD DS9	Standard	13.5	108.5	126.0	305	1.8	40.1	7.4	566	2.31	24.5	2.8	117.5	7.0	78	2.3	6.1	4.5	42	0.75	0.083
STD DS9	Standard	12.7	105.6	120.3	314	1.9	38.8	7.7	544	2.29	26.0	2.9	120.2	7.1	69	2.6	5.9	7.1	38	0.66	0.083
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	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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## QUALITY CONTROL REPORT

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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
		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	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1285518	Soil	18	26	0.69	254	0.179	2	2.04	0.013	0.20	0.4	0.03	4.9	0.4	<0.05	8	<0.5	<0.2
REP 1285518	QC	18	25	0.69	240	0.167	2	1.95	0.017	0.21	0.4	0.03	5.2	0.4	<0.05	8	<0.5	<0.2
1285727	Soil	41	21	0.56	253	0.077	2	1.55	0.011	0.13	0.2	0.05	7.3	0.3	<0.05	6	<0.5	<0.2
REP 1285727	QC	40	22	0.55	259	0.083	2	1.53	0.011	0.14	0.2	0.07	7.7	0.3	<0.05	6	<0.5	<0.2
1285586	Soil	14	32	0.61	214	0.120	<1	1.95	0.016	0.07	0.1	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
REP 1285586	QC	14	32	0.64	210	0.119	1	2.04	0.016	0.07	0.1	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
1285158	Soil	14	52	1.04	134	0.122	<1	1.73	0.017	0.18	0.2	0.03	4.2	0.3	<0.05	6	<0.5	<0.2
REP 1285158	QC	14	48	0.98	127	0.114	<1	1.67	0.017	0.17	0.1	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	15	124	0.65	320	0.122	2	0.99	0.098	0.36	2.7	0.22	3.0	5.7	0.17	4	6.1	5.5
STD DS9	Standard	11	111	0.59	288	0.104	2	0.89	0.076	0.35	3.2	0.21	2.4	5.4	0.18	4	5.0	5.2
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