



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 15, 2012

Report Date: August 25, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000690.1

### CLIENT JOB INFORMATION

Project: SUG  
Shipment ID: 2012-SUG05  
P.O. Number: KGC-12-1731  
Number of Samples: 320

### 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	320	Dry at 60C			WHI
SS80	315	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	320	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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WHI12000690.1

	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
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1294838	Soil	0.8	26.9	7.2	58	<0.1	24.1	12.2	565	3.14	29.5	1.8	4.7	6.0	21	0.2	1.0	0.1	77	0.38
1294834	Soil	0.7	22.0	13.3	60	0.2	18.6	10.9	216	3.01	39.5	2.8	4.7	6.0	20	0.3	3.5	0.1	77	0.35
1294829	Soil	1.1	22.5	28.7	98	0.3	19.3	15.8	448	3.29	35.6	2.4	4.7	7.7	20	0.5	4.4	0.2	89	0.32
1294826	Soil	0.9	20.7	21.7	85	0.2	19.4	12.8	321	3.28	28.2	1.5	3.5	5.1	18	0.2	3.6	0.2	85	0.30
1294839	Soil	0.7	31.7	7.6	59	<0.1	19.9	11.6	324	3.37	18.0	2.7	6.4	8.6	26	<0.1	1.4	0.1	84	0.43
1294831	Soil	0.9	14.5	35.9	103	0.4	15.9	10.9	433	2.68	35.8	1.7	6.6	5.8	21	0.2	3.8	0.1	68	0.35
1294833	Soil	0.6	21.8	13.5	62	0.1	18.2	10.4	195	3.17	67.9	2.2	5.0	5.7	19	0.3	3.1	0.1	84	0.31
1294825	Soil	1.1	21.6	21.4	87	0.2	21.0	14.4	530	3.14	24.2	1.5	5.2	5.1	19	0.2	3.3	0.2	80	0.34
1294836	Soil	0.7	29.8	8.7	65	<0.1	21.0	10.8	220	3.09	30.3	3.2	4.7	5.9	25	0.2	2.1	0.1	77	0.45
1294835	Soil	1.2	26.0	24.1	84	0.3	19.7	14.6	466	3.13	24.1	3.0	4.3	7.4	23	0.2	5.9	0.1	87	0.42
1294830	Soil	0.8	20.9	31.9	102	0.3	18.5	12.6	364	3.23	47.8	2.0	6.2	6.1	22	0.3	3.7	0.2	76	0.35
1294827	Soil	0.6	19.2	19.1	83	0.2	19.3	11.2	291	3.30	25.6	1.6	5.8	5.5	19	0.2	3.0	0.1	77	0.31
1294842	Soil	1.1	19.8	7.4	53	<0.1	16.4	11.2	396	3.03	36.9	1.5	5.7	5.1	20	0.3	1.4	<0.1	75	0.33
1294837	Soil	1.1	25.7	7.1	59	0.1	17.7	12.3	614	2.80	111.1	3.9	19.6	3.7	50	0.2	2.8	<0.1	62	1.05
1294832	Soil	0.7	18.4	35.4	89	0.3	19.4	11.4	260	3.07	32.3	1.7	3.3	6.4	21	0.2	2.8	0.1	74	0.37
1294828	Soil	0.6	17.7	41.0	89	0.3	17.5	9.4	328	2.64	32.6	1.6	3.6	5.3	20	0.2	5.0	0.1	74	0.34
1294816	Soil	1.1	16.5	16.0	52	<0.1	17.4	8.8	411	2.75	10.3	0.7	5.6	2.7	19	0.2	0.6	0.2	53	0.34
1294822	Soil	0.9	29.3	16.8	76	0.2	27.6	14.3	306	3.45	87.6	1.4	13.6	4.4	20	0.3	1.9	0.2	72	0.31
1294845	Soil	1.0	24.4	8.5	69	0.1	19.5	12.4	491	3.41	72.4	2.3	9.7	7.2	23	0.8	2.4	0.2	85	0.41
1294843	Soil	0.7	27.6	8.7	60	<0.1	21.8	14.3	534	3.23	38.0	2.6	7.5	7.8	27	0.2	1.6	0.1	84	0.42
1294817	Soil	1.7	30.2	10.2	68	0.2	33.7	15.0	398	3.19	35.5	0.9	6.2	2.8	21	0.5	1.8	0.2	69	0.40
1294821	Soil	1.2	32.8	16.0	75	0.6	27.9	11.7	277	2.82	90.6	1.1	29.4	2.7	18	0.3	1.8	0.2	63	0.27
1294824	Soil	0.5	23.9	17.3	79	0.2	24.3	11.1	209	3.18	17.4	1.5	4.1	5.5	23	0.2	2.4	0.2	79	0.33
1294840	Soil	1.0	28.8	8.1	54	0.1	22.5	13.5	315	4.36	137.0	3.7	12.0	7.6	27	0.2	1.7	0.2	89	0.44
1294818	Soil	2.2	57.7	7.5	140	0.3	55.6	12.5	273	3.38	21.0	1.8	2.2	5.0	28	0.7	1.2	0.2	74	0.30
1294819	Soil	6.7	63.5	14.1	160	0.3	62.1	14.1	716	4.02	57.6	1.4	8.2	2.5	23	1.2	2.1	0.2	66	0.15
1294823	Soil	0.8	17.6	14.3	64	0.1	19.9	9.8	209	3.31	37.7	1.1	3.9	4.1	19	0.2	1.9	0.2	69	0.30
1294844	Soil	1.4	26.9	8.8	63	<0.1	21.7	14.2	964	3.53	37.3	2.5	3.1	6.0	28	0.3	1.4	0.1	88	0.41
1285748	Soil	1.5	14.9	7.6	47	<0.1	16.5	8.1	312	3.00	5.2	2.1	1.7	27.9	18	<0.1	0.5	0.1	50	0.35
1294815	Soil	0.9	18.8	6.2	56	<0.1	21.6	13.0	343	3.47	7.8	0.4	2.1	2.8	12	<0.1	1.1	<0.1	65	0.17



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		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
1294838	Soil	13	34	0.65	215	0.108	2	1.92	0.013	0.09	0.2	0.04	4.9	0.2	<0.05	6	<0.5	<0.2
1294834	Soil	16	34	0.59	216	0.086	2	1.77	0.012	0.05	0.1	0.05	5.4	0.2	<0.05	5	<0.5	<0.2
1294829	Soil	18	37	0.65	282	0.083	2	1.86	0.012	0.06	0.2	0.04	8.0	0.3	<0.05	5	<0.5	<0.2
1294826	Soil	13	37	0.70	182	0.079	2	2.00	0.011	0.05	0.2	0.06	5.6	0.3	<0.05	7	<0.5	<0.2
1294839	Soil	23	37	0.72	240	0.128	1	1.88	0.015	0.08	0.2	0.05	6.8	0.2	<0.05	6	0.6	<0.2
1294831	Soil	11	33	0.63	202	0.082	2	1.67	0.011	0.06	0.2	0.07	5.0	0.3	<0.05	6	<0.5	<0.2
1294833	Soil	15	35	0.61	214	0.096	2	1.80	0.012	0.05	0.2	0.06	5.4	0.2	<0.05	6	0.5	<0.2
1294825	Soil	13	37	0.68	179	0.080	2	1.98	0.013	0.05	0.2	0.06	5.4	0.3	<0.05	6	<0.5	<0.2
1294836	Soil	19	34	0.65	258	0.096	2	1.72	0.017	0.07	0.2	0.07	5.7	0.2	<0.05	6	<0.5	<0.2
1294835	Soil	18	35	0.73	290	0.121	2	1.83	0.015	0.07	0.2	0.05	5.6	0.3	<0.05	6	<0.5	<0.2
1294830	Soil	16	34	0.64	251	0.083	2	1.75	0.013	0.06	0.2	0.06	6.5	0.3	<0.05	6	<0.5	<0.2
1294827	Soil	13	36	0.70	182	0.082	2	1.95	0.012	0.05	0.1	0.06	6.0	0.3	<0.05	6	<0.5	<0.2
1294842	Soil	12	30	0.60	172	0.109	1	1.83	0.015	0.07	0.2	0.02	4.2	0.2	<0.05	6	<0.5	<0.2
1294837	Soil	18	24	0.54	301	0.070	3	1.44	0.019	0.06	0.2	0.05	5.6	0.1	0.08	4	<0.5	<0.2
1294832	Soil	13	35	0.68	192	0.108	2	1.90	0.016	0.06	0.2	0.06	5.2	0.3	<0.05	6	<0.5	<0.2
1294828	Soil	13	35	0.68	179	0.080	2	1.95	0.012	0.05	0.1	0.06	6.0	0.3	<0.05	6	<0.5	<0.2
1294816	Soil	12	27	0.54	224	0.071	1	1.48	0.012	0.05	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
1294822	Soil	15	49	0.67	243	0.055	1	1.98	0.011	0.05	0.1	0.06	6.9	0.2	<0.05	6	<0.5	<0.2
1294845	Soil	14	42	0.72	187	0.120	2	2.62	0.015	0.08	0.2	0.05	5.5	0.2	<0.05	7	<0.5	<0.2
1294843	Soil	18	38	0.67	248	0.121	1	1.84	0.017	0.08	0.2	0.04	6.1	0.2	<0.05	6	<0.5	<0.2
1294817	Soil	10	41	0.69	476	0.096	2	1.79	0.012	0.12	0.2	0.03	4.6	0.2	<0.05	5	<0.5	<0.2
1294821	Soil	13	38	0.58	289	0.058	1	1.93	0.011	0.05	0.1	0.07	5.7	0.2	<0.05	6	<0.5	<0.2
1294824	Soil	15	46	0.74	206	0.082	2	2.12	0.012	0.05	0.2	0.03	5.9	0.2	<0.05	7	<0.5	<0.2
1294840	Soil	18	36	0.69	271	0.110	2	1.90	0.015	0.06	0.2	0.03	6.1	0.2	<0.05	6	<0.5	<0.2
1294818	Soil	19	44	0.81	355	0.087	1	1.70	0.012	0.19	0.1	0.03	4.6	0.3	0.06	5	1.4	<0.2
1294819	Soil	17	31	0.23	497	0.032	1	0.95	0.006	0.08	0.1	0.07	3.2	0.6	<0.05	4	1.6	<0.2
1294823	Soil	12	38	0.59	162	0.064	1	1.76	0.011	0.05	0.2	0.06	4.8	0.2	<0.05	6	<0.5	<0.2
1294844	Soil	14	38	0.69	241	0.125	2	2.26	0.014	0.08	0.2	0.04	5.4	0.2	<0.05	7	<0.5	<0.2
1285748	Soil	100	27	0.63	139	0.077	1	1.60	0.011	0.09	0.2	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
1294815	Soil	7	29	0.66	157	0.084	1	2.41	0.009	0.08	0.2	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2



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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
1294820	Soil	1.2	25.7	9.5	88	<0.1	20.2	14.4	802	3.61	19.1	0.8	2.9	3.5	18	1.5	1.6	0.4	71	0.33	0.050
1294841	Soil	0.7	22.4	6.1	54	<0.1	20.1	11.2	332	2.89	21.8	1.5	7.7	6.4	23	0.4	0.8	<0.1	70	0.41	0.096
1285750	Soil	0.8	39.8	6.1	58	<0.1	52.8	15.3	652	3.07	3.7	0.5	2.2	3.3	119	<0.1	0.2	<0.1	59	6.93	0.082
1285746	Soil	0.7	14.2	3.1	54	<0.1	34.8	20.7	526	4.28	1.5	0.5	<0.5	6.1	21	<0.1	0.2	<0.1	86	0.55	0.062
1285741	Soil	1.2	82.1	7.9	102	<0.1	29.1	15.0	604	3.55	7.1	1.3	2.4	13.5	21	0.2	0.4	0.2	73	0.30	0.028
1285744	Soil	1.1	25.5	21.3	115	<0.1	48.3	12.9	971	3.75	3.2	1.0	2.9	13.3	28	0.4	0.1	0.2	71	0.62	0.058
1285738	Soil	0.6	110.9	12.5	131	<0.1	19.5	12.4	525	3.67	3.0	1.1	2.6	5.9	30	0.1	0.3	0.3	94	0.46	0.069
1285749	Soil	0.6	30.6	12.4	63	0.1	47.8	15.4	456	3.38	7.7	1.0	4.2	5.7	50	0.2	1.0	0.4	57	3.45	0.045
1285740	Soil	0.8	24.6	5.4	64	<0.1	19.9	14.7	539	3.48	4.7	0.4	1.6	2.3	22	<0.1	0.2	0.1	78	0.57	0.097
1285590	Soil	0.6	35.1	18.4	150	<0.1	30.7	17.5	686	4.23	2.3	0.9	0.8	4.5	20	0.1	<0.1	<0.1	111	0.51	0.055
1285595	Soil	0.9	27.6	11.9	73	<0.1	115.8	23.5	659	4.47	9.3	1.2	10.7	13.2	44	0.1	0.9	0.2	64	1.25	0.051
1285589	Soil	0.7	35.6	11.0	107	<0.1	18.5	15.3	526	3.41	4.4	0.7	1.2	2.8	21	<0.1	0.3	<0.1	75	0.56	0.076
1285743	Soil	0.7	40.3	5.8	52	<0.1	26.4	15.0	425	3.43	5.8	0.7	<0.5	8.1	20	<0.1	0.4	<0.1	86	0.35	0.046
1285747	Soil	0.9	24.3	7.7	54	<0.1	24.8	10.1	362	2.82	8.0	1.4	2.6	10.7	25	<0.1	0.5	<0.1	58	0.30	0.026
1285600	Soil	0.5	47.3	7.2	60	<0.1	47.0	16.2	639	2.64	4.8	0.9	2.8	3.1	70	0.1	0.3	<0.1	58	2.15	0.067
1285745	Soil	0.8	45.5	4.0	68	<0.1	63.7	27.4	1055	5.45	1.0	0.5	0.6	1.7	23	<0.1	0.2	<0.1	163	0.80	0.183
1285599	Soil	0.8	19.1	4.7	62	<0.1	19.6	13.1	529	2.88	4.6	0.8	3.1	4.0	20	<0.1	0.1	<0.1	52	0.43	0.023
1285592	Soil	1.0	19.0	5.4	52	<0.1	40.8	14.7	720	3.31	4.0	1.2	1.7	6.6	36	0.1	0.3	0.2	61	0.92	0.063
1294453	Soil	3.6	44.1	15.2	52	0.5	29.7	22.1	1480	3.51	10.0	6.2	42.3	10.6	37	<0.1	0.7	0.2	59	1.16	0.108
1285733	Soil	0.6	26.6	5.9	76	<0.1	42.2	18.1	759	4.21	5.9	0.6	4.0	4.3	39	<0.1	0.6	<0.1	80	0.94	0.083
1285596	Soil	1.0	77.8	5.4	96	<0.1	24.9	16.9	659	5.19	3.9	1.0	2.3	4.6	63	<0.1	0.2	<0.1	99	0.90	0.058
1285731	Soil	0.6	30.4	7.9	70	<0.1	109.3	22.3	586	3.88	5.0	1.3	2.6	9.6	60	0.1	1.3	<0.1	60	2.68	0.064
1294454	Soil	1.5	19.2	8.6	48	0.1	19.6	7.0	260	2.39	6.9	0.6	2.1	2.1	15	<0.1	0.3	<0.1	58	0.17	0.052
1294452	Soil	1.7	21.5	10.4	57	<0.1	27.2	13.2	416	2.94	6.7	2.5	5.2	14.9	26	0.1	0.8	<0.1	64	0.59	0.067
1285597	Soil	0.7	45.6	3.9	64	<0.1	18.5	11.6	496	3.84	3.8	0.8	0.8	4.1	44	<0.1	0.2	<0.1	71	0.92	0.036
1285734	Soil	1.0	31.8	5.1	62	<0.1	51.2	21.5	669	4.19	3.4	0.3	<0.5	2.7	20	<0.1	0.2	<0.1	109	0.71	0.117
1294462	Soil	1.5	41.7	7.3	76	0.1	40.2	22.5	921	4.61	3.9	2.9	14.3	12.7	32	0.1	0.6	<0.1	99	0.78	0.135
1294460	Soil	2.1	33.6	10.2	63	0.1	25.1	14.5	449	3.09	5.1	4.9	4.8	13.1	39	<0.1	0.3	<0.1	61	0.89	0.076
1294458	Soil	1.0	25.7	42.2	262	0.2	64.7	19.8	1531	3.93	3.7	0.7	<0.5	3.6	24	0.6	0.3	0.2	77	0.92	0.082
1294456	Soil	0.8	18.4	10.8	55	<0.1	25.4	10.0	308	2.84	7.2	1.1	0.7	7.2	19	0.1	0.3	<0.1	58	0.31	0.041



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Phone (604) 253-3158 Fax (604) 253-1716

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**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000690.1

	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	Ti	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
1294820	Soil	10	42	0.66	182	0.084	3	3.00	0.011	0.08	0.2	0.02	4.7	0.1	<0.05	8	<0.5	<0.2
1294841	Soil	14	31	0.63	163	0.110	2	1.52	0.020	0.08	0.3	0.03	4.0	0.1	<0.05	5	<0.5	<0.2
1285750	Soil	10	87	1.69	193	0.118	1	1.81	0.012	0.18	0.1	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
1285746	Soil	10	85	2.43	365	0.216	<1	2.95	0.009	1.01	<0.1	<0.01	3.0	0.5	<0.05	8	<0.5	<0.2
1285741	Soil	39	48	1.08	306	0.105	1	2.03	0.012	0.08	0.1	0.03	8.4	0.2	<0.05	6	<0.5	<0.2
1285744	Soil	43	82	2.08	215	0.158	<1	2.43	0.013	0.44	0.2	0.03	5.0	0.4	<0.05	9	<0.5	<0.2
1285738	Soil	17	44	2.11	815	0.187	2	2.54	0.011	0.81	<0.1	0.01	5.5	0.3	<0.05	8	1.2	<0.2
1285749	Soil	23	49	0.64	475	0.028	2	0.98	0.011	0.08	0.2	0.08	7.9	<0.1	<0.05	4	<0.5	<0.2
1285740	Soil	8	32	1.33	422	0.156	<1	2.02	0.010	0.43	0.2	0.01	3.3	0.2	<0.05	6	<0.5	<0.2
1285590	Soil	11	75	2.60	538	0.182	<1	2.98	0.013	0.88	<0.1	<0.01	5.4	0.3	<0.05	8	0.7	<0.2
1285595	Soil	47	164	1.32	283	0.071	2	1.93	0.009	0.25	<0.1	0.05	10.2	0.3	<0.05	6	<0.5	<0.2
1285589	Soil	8	30	1.41	413	0.142	2	2.07	0.010	0.40	0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
1285743	Soil	18	45	1.41	311	0.136	<1	2.28	0.009	0.40	<0.1	<0.01	5.4	0.3	<0.05	7	<0.5	<0.2
1285747	Soil	37	37	0.68	224	0.079	2	1.73	0.011	0.08	0.2	0.02	5.5	<0.1	<0.05	5	0.5	<0.2
1285600	Soil	11	80	1.32	286	0.091	4	1.66	0.013	0.23	<0.1	0.05	4.2	0.2	<0.05	5	0.6	<0.2
1285745	Soil	7	169	2.95	1179	0.224	2	3.19	0.013	0.88	<0.1	0.01	15.0	0.4	<0.05	10	<0.5	<0.2
1285599	Soil	9	40	1.71	142	0.132	2	2.13	0.009	0.24	<0.1	0.01	2.5	0.3	<0.05	5	<0.5	<0.2
1285592	Soil	16	65	1.36	340	0.155	<1	2.04	0.012	0.55	0.1	0.04	4.1	0.3	<0.05	7	0.6	<0.2
1294453	Soil	255	43	0.61	437	0.048	3	3.00	0.014	0.09	0.2	0.14	8.2	0.3	0.05	6	1.0	<0.2
1285733	Soil	12	60	1.48	261	0.118	1	2.15	0.012	0.47	0.2	0.03	5.2	0.3	<0.05	8	0.7	<0.2
1285596	Soil	18	42	2.70	342	0.093	<1	3.12	0.037	0.74	<0.1	0.02	13.4	0.3	0.47	9	<0.5	<0.2
1285731	Soil	30	265	1.81	294	0.081	2	1.85	0.009	0.35	0.3	0.05	8.8	0.3	<0.05	6	<0.5	<0.2
1294454	Soil	10	39	0.63	124	0.090	<1	1.51	0.010	0.12	0.1	0.04	2.6	0.2	<0.05	6	0.6	<0.2
1294452	Soil	50	50	0.88	205	0.103	1	1.80	0.013	0.22	0.2	0.03	6.3	0.3	<0.05	5	<0.5	<0.2
1285597	Soil	11	33	1.86	387	0.109	2	2.37	0.029	0.56	<0.1	0.01	9.0	0.2	0.23	8	<0.5	<0.2
1285734	Soil	12	135	2.19	932	0.196	<1	2.68	0.011	0.49	<0.1	0.01	7.3	0.2	<0.05	8	<0.5	<0.2
1294462	Soil	47	79	1.57	278	0.110	2	2.36	0.008	0.55	0.2	0.04	9.5	0.4	<0.05	8	<0.5	<0.2
1294460	Soil	59	40	1.02	182	0.119	3	1.80	0.012	0.28	0.2	0.05	4.7	0.3	<0.05	6	<0.5	<0.2
1294458	Soil	13	76	1.86	270	0.152	<1	2.59	0.008	0.41	0.1	0.02	4.2	0.4	<0.05	8	<0.5	<0.2
1294456	Soil	25	39	0.81	151	0.104	2	1.82	0.009	0.13	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2



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Vancouver BC V6C 2V6 Canada

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Report Date: **August 25, 2012**

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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	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1294461	Soil		2.2	20.2	8.6	65	0.2	26.7	19.1	816	3.66	5.0	1.6	3.5	9.3	24	<0.1	0.5	<0.1	83	0.41
1294459	Soil		1.4	47.0	16.2	214	<0.1	67.8	17.9	746	3.62	10.7	1.8	4.0	7.6	26	0.4	2.1	0.2	74	0.49
1294457	Soil		0.6	22.7	8.1	64	<0.1	29.7	10.6	390	2.60	5.5	1.0	3.0	4.9	23	<0.1	0.3	<0.1	53	0.35
1294455	Soil		0.8	29.2	9.6	54	<0.1	31.7	15.5	411	2.93	6.6	0.7	1.9	5.3	15	<0.1	0.5	<0.1	57	0.24
1294481	Soil		0.4	17.4	6.4	41	<0.1	21.9	9.7	296	1.80	4.7	0.4	3.2	2.1	17	<0.1	0.4	<0.1	44	0.30
1294473	Soil		1.2	8.4	7.2	33	<0.1	13.3	4.9	216	1.69	11.3	0.6	4.8	2.3	18	0.1	0.4	<0.1	53	0.24
1294480	Soil		0.8	30.9	5.7	47	<0.1	37.5	17.1	684	2.52	5.7	0.6	3.1	1.6	21	<0.1	0.4	<0.1	68	0.47
1294474	Soil		1.1	17.9	9.6	51	<0.1	20.3	10.7	314	2.56	22.6	1.0	5.3	5.5	23	0.1	0.6	<0.1	54	0.39
1294479	Soil		0.5	30.6	6.2	44	<0.1	32.7	11.5	285	2.30	7.4	0.4	4.0	1.7	22	<0.1	0.5	<0.1	58	0.49
1294478	Soil		0.8	51.6	7.2	60	0.3	43.5	17.4	573	3.07	13.0	0.8	6.3	2.0	27	<0.1	0.5	<0.1	68	0.56
1294476	Soil		0.6	19.6	6.1	51	<0.1	18.2	8.8	273	2.18	6.6	0.8	3.1	3.5	23	<0.1	0.5	<0.1	50	0.33
1294482	Soil		1.2	11.5	6.0	52	<0.1	12.6	7.5	296	1.98	6.4	0.2	1.7	1.2	17	0.1	0.3	<0.1	52	0.24
1294468	Soil		0.4	25.2	8.2	76	<0.1	57.5	18.2	551	3.49	6.2	0.8	9.1	6.3	40	0.1	0.3	<0.1	52	1.26
1294470	Soil		1.0	11.8	15.1	51	<0.1	13.0	10.6	561	3.35	5.3	1.1	2.2	5.1	14	0.1	0.4	0.2	34	0.44
1294472	Soil		1.1	25.5	7.6	40	0.4	22.5	10.8	604	2.58	8.0	2.2	5.0	3.6	23	0.2	0.3	0.2	51	0.42
1294475	Soil		0.5	19.6	5.5	52	<0.1	19.0	8.5	267	2.19	6.6	0.6	3.8	3.0	21	0.1	0.4	<0.1	52	0.38
1294467	Soil		0.8	14.1	5.8	61	<0.1	49.6	16.7	636	3.34	3.5	1.2	4.3	10.2	32	<0.1	0.3	<0.1	64	0.94
1294469	Soil		1.1	14.9	9.7	65	<0.1	17.3	13.5	1218	2.74	14.8	1.4	16.1	3.8	23	0.2	0.6	0.2	46	0.64
1294471	Soil		1.2	27.3	10.2	72	0.1	34.4	17.9	705	4.01	9.3	1.9	3.2	13.6	22	0.1	0.3	0.3	72	0.65
1294477	Soil		0.9	24.7	9.8	51	0.1	27.3	12.3	445	2.66	32.5	0.5	10.9	3.1	17	<0.1	0.5	0.1	61	0.38
1285742	Soil		0.6	89.3	3.2	355	<0.1	17.0	18.4	502	3.68	3.2	0.5	<0.5	3.1	11	0.4	0.1	<0.1	86	0.30
1285737	Soil		0.7	55.5	26.4	104	<0.1	25.4	14.2	419	3.36	5.7	0.7	1.4	4.0	18	0.1	0.5	0.2	78	0.49
1285735	Soil		1.1	18.5	6.4	56	<0.1	27.3	13.3	730	3.43	5.0	1.2	1.3	8.5	26	<0.1	0.2	0.3	60	0.68
1294466	Soil		1.0	15.9	6.0	45	0.1	13.4	8.7	324	2.14	3.7	0.7	2.3	4.6	29	0.2	0.3	0.1	54	0.77
1285593	Soil		0.9	12.6	5.6	65	<0.1	16.7	17.3	662	4.39	3.2	0.8	<0.5	8.4	23	<0.1	0.1	<0.1	109	0.76
1285594	Soil		0.5	32.0	4.7	49	<0.1	30.3	15.3	547	3.02	3.6	0.9	1.6	2.5	42	0.1	0.2	<0.1	76	1.57
1285736	Soil		0.8	21.1	5.2	53	<0.1	38.4	15.1	608	3.49	4.7	0.9	1.4	7.1	18	<0.1	0.3	0.2	69	0.51
1294465	Soil		1.1	30.4	6.3	57	0.1	26.7	18.7	724	3.18	6.0	1.1	2.9	6.3	27	<0.1	0.3	<0.1	71	0.75
1285739	Soil		1.2	16.2	6.7	62	<0.1	19.3	12.5	491	3.12	6.3	0.6	<0.5	7.3	11	0.1	0.4	0.2	59	0.20
1285730	Soil		0.7	122.2	4.9	92	<0.1	49.9	22.5	522	3.64	2.4	0.3	1.9	1.9	23	<0.1	0.1	<0.1	77	0.69



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Phone (604) 253-3158 Fax (604) 253-1716

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

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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
1294461	Soil	27	45	1.15	219	0.148	2	2.09	0.010	0.28	0.4	0.03	4.6	0.3	<0.05	7	0.7	<0.2
1294459	Soil	26	108	1.29	290	0.089	<1	2.17	0.011	0.15	0.1	0.06	7.6	0.2	<0.05	7	0.6	<0.2
1294457	Soil	28	50	0.81	187	0.086	2	1.70	0.010	0.14	0.1	0.04	4.4	0.2	<0.05	5	<0.5	<0.2
1294455	Soil	10	64	1.07	140	0.108	1	2.07	0.008	0.18	0.2	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
1294481	Soil	6	49	0.68	126	0.073	<1	1.20	0.013	0.04	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
1294473	Soil	8	30	0.51	82	0.082	2	0.92	0.010	0.07	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
1294480	Soil	7	85	0.98	176	0.072	<1	1.66	0.013	0.05	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
1294474	Soil	15	34	0.68	188	0.062	2	1.67	0.010	0.07	0.1	0.03	4.2	0.1	<0.05	6	0.7	<0.2
1294479	Soil	8	62	0.82	168	0.061	1	1.64	0.012	0.04	0.1	0.04	4.5	<0.1	<0.05	5	0.5	<0.2
1294478	Soil	14	73	1.01	230	0.070	<1	2.25	0.014	0.07	0.1	0.06	6.7	0.1	<0.05	6	<0.5	<0.2
1294476	Soil	12	28	0.69	140	0.081	1	1.40	0.014	0.05	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
1294482	Soil	5	24	0.51	129	0.095	1	1.20	0.008	0.10	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
1294468	Soil	23	86	1.66	210	0.125	2	2.21	0.010	0.51	<0.1	0.03	3.9	0.4	<0.05	7	<0.5	<0.2
1294470	Soil	20	26	0.87	120	0.033	<1	1.28	0.007	0.09	0.1	0.02	4.3	0.1	<0.05	4	<0.5	<0.2
1294472	Soil	101	37	0.59	264	0.043	1	1.85	0.013	0.09	<0.1	0.07	6.6	0.2	<0.05	7	0.6	<0.2
1294475	Soil	11	30	0.62	148	0.080	<1	1.36	0.019	0.07	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
1294467	Soil	36	132	1.83	280	0.126	1	2.23	0.011	0.41	0.1	0.03	4.9	0.4	<0.05	8	<0.5	<0.2
1294469	Soil	25	30	0.76	169	0.042	1	1.38	0.011	0.07	0.1	0.03	5.1	0.2	<0.05	5	<0.5	<0.2
1294471	Soil	51	74	1.68	271	0.112	1	2.55	0.013	0.32	0.2	0.02	7.2	0.3	<0.05	8	<0.5	<0.2
1294477	Soil	10	53	0.83	140	0.065	1	1.70	0.013	0.06	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
1285742	Soil	5	31	1.68	219	0.126	<1	2.48	0.016	0.39	<0.1	<0.01	4.3	0.2	<0.05	7	<0.5	<0.2
1285737	Soil	14	39	1.09	277	0.086	<1	1.89	0.014	0.09	0.2	0.03	6.5	<0.1	<0.05	6	<0.5	<0.2
1285735	Soil	20	41	1.17	238	0.129	<1	1.94	0.015	0.24	0.2	0.02	4.3	0.3	<0.05	7	<0.5	<0.2
1294466	Soil	17	29	0.48	284	0.070	2	1.12	0.015	0.09	0.1	0.06	3.1	0.1	<0.05	6	<0.5	<0.2
1285593	Soil	11	27	1.67	294	0.205	<1	2.35	0.009	0.84	0.1	0.01	5.7	0.5	<0.05	8	<0.5	<0.2
1285594	Soil	14	58	1.24	1096	0.126	2	1.90	0.016	0.32	<0.1	0.04	5.7	0.3	<0.05	6	<0.5	<0.2
1285736	Soil	20	66	1.36	254	0.147	<1	2.15	0.012	0.46	0.1	0.03	4.4	0.4	<0.05	7	<0.5	<0.2
1294465	Soil	32	52	1.11	374	0.101	1	1.85	0.016	0.13	0.1	0.04	6.2	0.2	<0.05	6	<0.5	<0.2
1285739	Soil	10	32	0.93	181	0.084	<1	2.10	0.007	0.19	0.1	0.01	3.5	0.2	<0.05	6	<0.5	<0.2
1285730	Soil	4	77	2.40	188	0.136	<1	2.49	0.012	0.46	0.1	<0.01	4.3	0.2	<0.05	7	<0.5	<0.2



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Phone (604) 253-3158 Fax (604) 253-1716

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**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000690.1

	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
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1285591	Soil	0.9	59.0	23.9	120	0.2	17.6	16.1	427	3.05	4.6	0.5	1.2	2.2	17	0.4	0.3	0.2	75	0.53
1294464	Soil	0.9	33.6	6.7	71	0.2	35.5	25.4	1204	3.90	5.3	1.0	3.7	5.1	35	0.2	0.4	0.1	80	1.09
1289951	Rock Pulp	2.3	19.3	1.8	37	0.3	20.0	9.2	358	2.13	4.2	0.2	0.8	0.7	29	0.2	0.2	<0.1	52	0.68
1285598	Soil	0.8	24.8	3.9	73	<0.1	50.8	23.1	697	4.40	1.5	0.6	0.9	10.6	23	<0.1	0.1	<0.1	82	0.74
1285732	Soil	1.8	12.5	8.1	56	<0.1	23.1	11.5	510	3.28	3.2	1.6	3.6	27.6	17	0.1	0.5	<0.1	48	0.59
1294463	Soil	0.8	27.9	13.4	69	<0.1	28.2	19.0	589	3.57	3.6	0.6	4.3	3.5	29	0.1	0.2	0.2	83	1.04
1289111	Soil	1.3	31.5	9.6	62	0.1	23.1	17.1	690	3.73	8.3	1.8	139.2	4.0	11	0.1	0.3	0.1	59	0.30
1285239	Soil	1.0	30.6	7.4	67	0.2	20.1	12.2	542	3.01	21.6	2.5	14.7	6.2	24	0.2	1.7	0.2	81	0.44
1285241	Soil	1.0	22.0	7.3	69	<0.1	15.3	13.2	1113	3.35	63.6	1.4	10.4	6.8	16	0.2	3.5	0.1	90	0.27
1285249	Soil	0.6	18.1	7.1	55	0.1	16.5	10.2	377	2.65	112.2	2.5	38.0	5.0	25	0.2	15.8	<0.1	69	0.45
1290000	Soil	0.8	42.7	8.7	76	<0.1	41.7	12.9	454	3.82	7.6	1.3	3.1	6.2	48	0.1	0.6	0.2	65	1.55
1285243	Soil	1.0	25.0	6.9	53	0.2	18.5	11.5	429	3.08	81.1	1.8	12.1	5.4	22	0.1	10.3	<0.1	81	0.41
1285242	Soil	1.1	15.6	6.5	46	<0.1	15.3	9.7	393	2.75	82.8	0.9	6.3	3.8	16	0.1	10.7	0.1	76	0.26
1285236	Soil	0.8	20.7	14.3	76	0.2	15.9	11.7	556	2.80	20.6	1.5	11.0	5.7	20	0.2	3.0	<0.1	78	0.34
1289107	Soil	0.6	44.1	10.3	75	<0.1	39.2	13.8	647	2.79	5.8	1.3	1.5	4.2	43	0.2	0.4	0.1	51	2.09
1289113	Soil	1.1	15.5	7.2	56	<0.1	20.2	12.9	569	2.71	4.6	1.0	2.5	5.3	22	0.1	0.3	0.1	60	0.65
1289255	Soil	0.5	13.3	6.2	50	0.1	13.1	10.9	464	2.35	12.4	2.8	8.5	4.0	23	0.2	1.3	0.2	64	0.37
1285246	Soil	1.1	27.7	7.6	60	0.2	17.3	15.5	450	3.68	40.0	3.9	32.2	6.3	32	0.2	5.1	0.1	90	0.54
1289106	Soil	0.7	34.2	11.4	59	<0.1	65.8	18.2	653	3.14	6.0	1.6	3.7	5.5	67	<0.1	0.3	0.4	50	2.37
1289104	Soil	0.8	18.2	8.6	68	<0.1	29.7	13.6	610	3.24	13.8	1.4	3.7	6.4	28	0.1	0.4	0.3	50	0.80
1285237	Soil	0.8	26.6	8.7	66	0.1	20.6	13.5	399	3.55	60.8	3.0	15.5	8.3	24	<0.1	2.3	0.2	81	0.41
1285247	Soil	0.6	29.5	9.2	63	0.1	21.6	12.5	346	3.09	27.2	3.1	10.4	7.4	26	0.2	4.3	0.1	84	0.43
1289119	Soil	1.3	32.6	6.9	72	<0.1	35.1	15.8	488	3.85	4.9	1.8	8.3	7.9	23	0.1	0.5	0.2	79	0.66
1285234	Soil	0.8	16.7	12.7	74	0.2	13.7	15.8	1846	3.44	16.4	2.1	5.8	7.3	20	0.2	1.6	0.1	84	0.34
1285228	Soil	1.9	15.5	6.8	39	0.1	13.1	18.6	1767	5.88	46.0	3.4	6.7	4.6	32	0.2	1.3	0.1	101	0.52
1285231	Soil	0.8	16.4	7.7	62	<0.1	15.6	11.8	258	3.24	19.8	1.6	9.2	7.0	19	0.1	0.8	0.1	82	0.35
1289105	Soil	0.7	33.1	7.7	76	0.1	26.5	13.0	525	4.11	9.3	1.9	6.1	7.9	32	<0.1	0.3	0.2	74	0.68
1285248	Soil	1.2	22.4	8.7	63	0.1	19.0	13.4	531	3.20	62.0	3.0	10.4	7.1	28	0.2	5.7	0.1	84	0.47
1285225	Soil	0.4	14.4	7.3	57	0.1	14.7	8.6	221	2.34	16.6	1.4	5.6	5.9	20	0.1	0.9	<0.1	63	0.35
1285226	Soil	0.5	15.1	7.9	56	<0.1	14.1	8.3	208	2.66	23.3	1.6	6.6	6.2	19	0.1	1.0	0.1	70	0.33





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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
1285591	Soil	8	31	1.02	428	0.101	<1	1.77	0.016	0.13	0.1	0.03	4.7	0.1	<0.05	6	<0.5
1294464	Soil	22	61	1.30	402	0.103	1	2.10	0.012	0.26	<0.1	0.05	7.9	0.3	<0.05	7	<0.5
1289951	Rock Pulp	3	28	0.70	87	0.084	2	1.28	0.072	0.11	12.6	0.01	3.6	<0.1	<0.05	5	<0.5
1285598	Soil	17	129	2.86	252	0.221	<1	2.79	0.008	1.01	0.2	0.01	4.2	0.7	<0.05	10	<0.5
1285732	Soil	80	37	0.92	207	0.078	<1	1.59	0.009	0.27	0.2	0.02	5.3	0.3	<0.05	6	<0.5
1294463	Soil	11	55	1.45	293	0.100	<1	1.90	0.013	0.27	0.1	0.04	6.5	0.2	<0.05	7	<0.5
1289111	Soil	11	46	1.37	187	0.098	1	2.17	0.009	0.23	0.1	0.03	5.1	0.2	<0.05	7	<0.5
1285239	Soil	21	37	0.76	455	0.120	<1	2.03	0.017	0.16	0.1	0.06	8.8	0.3	<0.05	6	<0.5
1285241	Soil	14	36	0.74	243	0.132	2	2.10	0.015	0.11	0.1	0.04	6.6	0.4	<0.05	7	<0.5
1285249	Soil	13	33	0.63	333	0.102	1	1.78	0.017	0.08	0.1	0.05	6.0	0.3	<0.05	6	<0.5
1290000	Soil	23	62	1.35	294	0.065	1	1.94	0.020	0.38	<0.1	0.07	8.8	0.2	0.10	7	0.7
1285243	Soil	14	34	0.71	344	0.126	1	1.93	0.016	0.10	0.1	0.04	6.3	0.3	<0.05	7	<0.5
1285242	Soil	10	29	0.58	231	0.116	<1	1.85	0.016	0.08	0.2	0.03	4.0	0.2	<0.05	6	<0.5
1285236	Soil	13	33	0.65	290	0.101	<1	1.75	0.015	0.10	0.2	0.06	6.1	0.4	<0.05	6	<0.5
1289107	Soil	21	68	1.02	235	0.063	2	1.43	0.012	0.36	0.1	0.10	5.0	0.3	<0.05	5	0.7
1289113	Soil	14	46	1.06	207	0.075	1	1.68	0.018	0.13	0.1	0.03	5.5	0.2	<0.05	6	<0.5
1289255	Soil	12	28	0.53	297	0.089	1	1.62	0.015	0.05	0.1	0.05	4.6	0.2	<0.05	6	<0.5
1285246	Soil	22	33	0.69	389	0.104	2	2.02	0.014	0.11	0.1	0.08	8.4	0.6	<0.05	7	<0.5
1289106	Soil	29	84	1.12	262	0.077	4	1.58	0.013	0.33	<0.1	0.06	4.9	0.3	0.06	5	<0.5
1289104	Soil	17	45	1.03	157	0.085	2	1.62	0.015	0.25	0.1	0.03	4.6	0.2	0.05	6	<0.5
1285237	Soil	19	35	0.78	340	0.112	2	1.89	0.015	0.09	0.2	0.04	7.8	0.3	<0.05	6	<0.5
1285247	Soil	20	35	0.74	395	0.128	1	2.01	0.014	0.09	0.1	0.05	6.6	0.3	<0.05	6	<0.5
1289119	Soil	27	75	1.77	583	0.102	1	2.44	0.015	0.20	0.2	0.04	6.4	0.2	<0.05	8	<0.5
1285234	Soil	14	32	0.72	279	0.103	2	2.01	0.014	0.10	0.2	0.08	6.6	0.4	<0.05	6	<0.5
1285228	Soil	23	26	0.41	271	0.058	2	1.55	0.014	0.04	0.2	0.05	4.7	0.2	0.09	5	<0.5
1285231	Soil	13	31	0.70	198	0.109	2	1.88	0.014	0.07	0.2	0.05	4.7	0.2	<0.05	6	<0.5
1289105	Soil	25	40	1.51	202	0.114	2	2.21	0.028	0.49	0.1	0.02	7.1	0.3	0.21	6	<0.5
1285248	Soil	18	32	0.74	393	0.122	1	1.91	0.015	0.09	0.2	0.04	6.2	0.3	<0.05	6	<0.5
1285225	Soil	11	29	0.65	202	0.116	2	1.75	0.015	0.08	0.2	0.03	4.1	0.2	<0.05	6	<0.5
1285226	Soil	11	30	0.65	200	0.115	2	1.84	0.014	0.08	0.2	0.06	4.5	0.2	<0.05	6	<0.5



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

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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
1289101	Rock Pulp	1.3	419.1	20.0	162	0.2	211.9	71.0	777	15.74	3.7	1.1	38.3	7.2	14	0.2	0.4	0.1	207	0.30
1289251	Rock Pulp	2.3	22.5	2.1	39	0.3	21.0	8.7	331	2.12	4.3	0.2	4.2	0.7	31	0.2	0.3	<0.1	53	0.67
1289253	Soil	0.7	13.9	7.3	60	0.1	13.8	10.4	299	3.27	24.5	2.2	7.8	4.7	19	0.1	3.4	0.1	72	0.32
1285230	Soil	0.6	11.2	6.7	51	<0.1	14.4	8.1	259	2.34	9.6	1.0	5.9	4.4	19	<0.1	0.5	<0.1	71	0.35
1289103	Soil	0.8	23.0	11.3	71	<0.1	46.5	17.2	512	4.12	12.9	0.9	6.0	7.1	15	<0.1	0.6	0.5	52	0.35
1289997	Soil	0.9	23.0	7.1	58	<0.1	42.6	17.4	489	3.93	7.3	2.1	8.0	14.5	30	0.1	1.1	<0.1	62	0.91
1285235	Soil	0.8	26.1	9.8	80	0.7	15.0	12.3	593	3.53	282.1	1.7	463.1	7.2	21	0.3	6.8	0.2	81	0.41
1289256	Soil	0.3	12.0	7.4	48	0.1	13.5	5.2	160	1.77	7.1	2.7	4.7	3.3	23	0.2	1.1	0.1	41	0.34
1289112	Soil	0.9	22.8	12.2	67	<0.1	20.3	12.6	663	3.22	5.7	2.2	10.8	9.6	31	0.2	0.6	0.2	52	0.97
1289109	Soil	0.6	40.9	12.4	83	<0.1	46.4	13.1	551	2.89	5.4	1.5	4.1	3.9	47	0.2	0.5	0.2	51	1.79
1289999	Soil	1.3	9.1	6.7	54	<0.1	9.3	8.1	476	3.16	4.1	1.7	2.5	11.0	20	<0.1	0.5	0.2	29	1.13
1289118	Soil	0.9	22.1	6.7	46	<0.1	30.4	12.0	463	3.43	3.7	1.5	7.6	11.7	20	<0.1	0.9	0.1	66	0.66
1289115	Soil	0.8	35.0	7.4	60	0.1	29.7	13.9	571	2.89	8.8	2.9	7.0	10.2	33	0.1	0.5	0.4	54	1.17
1289116	Soil	1.1	29.3	7.5	60	0.2	28.4	14.7	637	3.98	4.7	2.4	8.8	13.1	21	0.2	1.0	0.5	83	0.58
1289108	Soil	0.6	42.9	7.8	66	<0.1	51.8	14.6	720	2.94	5.5	1.5	4.4	3.8	54	0.2	0.4	0.2	45	2.11
1289102	Soil	0.7	32.1	8.3	66	<0.1	34.4	12.3	611	3.17	4.3	2.1	11.9	6.6	56	0.2	1.4	0.2	49	2.16
1289110	Soil	0.9	34.3	8.0	73	<0.1	26.4	12.7	657	2.97	6.7	1.4	4.0	3.9	43	<0.1	1.6	0.1	51	1.67
1289994	Soil	0.9	69.4	9.0	117	0.2	85.1	30.2	871	5.51	4.0	1.5	4.4	5.7	32	0.4	0.1	<0.1	131	1.07
1289996	Soil	0.5	27.8	8.6	73	<0.1	54.1	15.9	528	3.51	4.2	1.2	6.2	9.4	43	0.2	0.5	0.1	60	1.46
1289117	Soil	0.9	15.4	5.2	50	<0.1	26.7	13.0	546	3.67	4.3	1.2	16.2	9.3	18	<0.1	0.5	0.1	78	0.58
1289998	Soil	0.8	37.1	10.0	84	<0.1	77.0	21.9	704	4.86	11.4	0.9	3.7	7.9	23	<0.1	<0.1	1.8	70	0.81
1289995	Soil	0.8	49.2	10.4	69	0.1	69.3	20.1	560	4.02	2.8	1.9	7.4	9.2	54	0.2	3.1	0.2	86	1.62
1289993	Soil	1.2	170.8	23.4	369	0.3	30.0	20.1	934	4.71	3.5	1.3	3.7	7.2	31	0.9	0.2	0.2	84	1.28
1289114	Soil	0.9	31.7	7.3	68	0.2	32.3	15.9	749	3.53	9.0	4.6	5.7	10.8	38	0.2	9.7	0.1	58	1.27
1294360	Soil	1.1	23.0	11.7	62	0.1	27.6	13.6	297	3.19	25.9	2.8	6.1	6.8	21	0.1	0.5	0.2	57	0.36
1294359	Soil	1.3	25.5	25.0	77	<0.1	26.6	15.2	802	4.09	301.0	1.7	36.2	12.3	17	0.3	1.8	0.3	53	0.26
1294357	Soil	1.0	38.1	14.2	62	0.1	38.4	13.4	612	3.43	55.1	0.7	25.3	3.6	21	0.1	1.2	0.2	73	0.41
1294356	Soil	1.1	38.8	5.1	54	<0.1	52.0	16.4	345	3.59	8.1	0.3	1.5	1.6	10	<0.1	0.4	<0.1	85	0.19
1289254	Soil	0.9	15.4	7.4	67	<0.1	16.5	12.7	339	3.63	17.9	2.2	3.7	6.1	22	<0.1	2.1	<0.1	95	0.41
1285240	Soil	1.2	24.0	7.6	65	0.1	13.9	17.3	666	5.17	21.3	3.1	3.7	9.5	26	<0.1	1.9	0.1	135	0.47



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		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
1289101	Rock Pulp	16	634	0.13	134	0.154	3	3.90	0.012	0.06	<0.1	0.02	39.3	0.1	<0.05	20	<0.5
1289251	Rock Pulp	3	26	0.71	82	0.079	1	1.27	0.066	0.10	12.6	0.02	3.9	<0.1	<0.05	4	<0.5
1289253	Soil	11	30	0.64	224	0.115	1	1.74	0.016	0.06	0.1	0.04	4.3	0.2	<0.05	6	<0.5
1285230	Soil	9	27	0.65	149	0.099	1	1.65	0.013	0.05	0.1	0.03	3.4	0.1	<0.05	6	<0.5
1289103	Soil	13	52	1.34	123	0.101	2	2.04	0.008	0.46	0.1	0.02	3.5	0.3	<0.05	6	<0.5
1289997	Soil	44	66	1.21	315	0.083	2	1.78	0.011	0.40	0.1	0.11	7.4	0.3	<0.05	6	<0.5
1285235	Soil	15	28	0.79	310	0.097	2	1.88	0.016	0.12	0.2	0.04	6.4	0.3	<0.05	6	<0.5
1289256	Soil	12	29	0.52	253	0.089	1	1.61	0.013	0.05	0.2	0.07	4.2	0.2	0.05	6	<0.5
1289112	Soil	26	33	1.03	186	0.073	2	1.58	0.014	0.27	<0.1	0.10	5.3	0.2	0.06	5	<0.5
1289109	Soil	19	81	1.27	289	0.072	3	1.59	0.012	0.34	<0.1	0.09	5.2	0.2	0.07	4	0.5
1289999	Soil	28	11	0.98	150	0.061	1	1.25	0.007	0.45	<0.1	0.03	7.3	0.3	<0.05	4	<0.5
1289118	Soil	39	66	1.33	317	0.088	2	1.77	0.013	0.28	0.2	0.02	7.4	0.2	<0.05	7	<0.5
1289115	Soil	43	55	1.04	223	0.079	2	1.76	0.015	0.17	0.1	0.05	5.6	0.2	<0.05	6	<0.5
1289116	Soil	45	57	1.20	362	0.081	1	2.25	0.013	0.17	0.2	0.06	8.8	0.2	<0.05	7	<0.5
1289108	Soil	20	86	1.09	227	0.054	3	1.47	0.013	0.26	0.2	0.13	5.5	0.3	0.08	5	<0.5
1289102	Soil	35	49	0.84	417	0.045	2	1.25	0.011	0.25	<0.1	0.15	6.2	0.2	0.08	4	<0.5
1289110	Soil	19	38	1.00	259	0.058	3	1.47	0.012	0.28	<0.1	0.21	5.7	0.3	0.06	4	<0.5
1289994	Soil	21	169	3.74	774	0.278	<1	3.67	0.013	1.48	0.1	0.03	8.2	0.5	<0.05	10	<0.5
1289996	Soil	30	79	1.29	349	0.112	2	1.83	0.012	0.37	0.1	0.08	5.8	0.3	<0.05	6	<0.5
1289117	Soil	18	51	1.54	277	0.088	1	2.13	0.014	0.21	0.1	0.03	7.2	0.2	<0.05	7	<0.5
1289998	Soil	14	145	2.80	226	0.197	<1	3.17	0.014	0.79	0.1	0.01	4.1	0.5	<0.05	9	<0.5
1289995	Soil	20	96	1.13	320	0.026	1	1.23	0.007	0.33	0.2	0.23	17.5	0.2	<0.05	4	<0.5
1289993	Soil	23	46	1.78	645	0.175	1	2.34	0.013	0.81	0.2	0.04	5.1	0.4	<0.05	8	<0.5
1289114	Soil	48	51	1.11	255	0.096	2	1.99	0.015	0.23	0.1	0.06	6.0	0.2	<0.05	6	<0.5
1294360	Soil	23	40	0.79	182	0.091	2	1.93	0.013	0.09	0.2	0.04	4.4	0.2	<0.05	6	<0.5
1294359	Soil	26	32	0.91	154	0.107	2	2.34	0.012	0.24	0.1	<0.01	3.6	0.3	<0.05	6	<0.5
1294357	Soil	15	66	1.00	186	0.080	2	2.15	0.014	0.08	0.2	0.04	5.5	0.1	<0.05	6	<0.5
1294356	Soil	5	127	1.27	136	0.123	2	2.70	0.013	0.08	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5
1289254	Soil	12	34	0.82	284	0.165	2	1.94	0.019	0.10	0.2	0.04	4.0	0.3	<0.05	6	<0.5
1285240	Soil	24	35	1.11	558	0.152	3	2.65	0.023	0.21	0.1	0.05	14.8	0.6	<0.05	8	<0.5



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Phone (604) 253-3158 Fax (604) 253-1716

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

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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
1294361	Soil	0.9	25.6	11.7	58	<0.1	50.6	16.5	329	3.33	16.7	1.6	4.7	6.7	21	<0.1	0.5	0.2	63	0.36	0.065
1294355	Soil	1.6	29.2	10.2	56	<0.1	26.5	14.2	288	3.68	10.9	0.8	3.5	3.8	15	<0.1	0.8	0.2	77	0.16	0.035
1285229	Soil	1.8	15.6	7.4	52	0.1	15.3	24.2	1699	3.87	29.2	1.9	3.1	4.9	27	0.1	0.6	<0.1	98	0.40	0.074
1285232	Soil	0.5	14.4	8.6	60	<0.1	16.2	10.2	294	3.20	20.2	1.7	6.2	6.5	23	0.2	0.7	0.1	86	0.37	0.066
1294362	Soil	0.7	26.4	10.6	63	0.1	38.4	14.2	288	3.10	14.5	1.3	5.5	5.8	20	<0.1	0.6	0.2	58	0.34	0.053
1294354	Soil	1.5	15.8	7.7	52	<0.1	17.0	10.6	286	3.58	9.1	0.4	2.7	2.7	15	<0.1	0.8	0.1	73	0.17	0.032
1285238	Soil	1.0	20.7	8.2	61	0.2	16.9	12.3	837	3.22	29.3	1.9	6.5	4.3	25	<0.1	1.0	0.1	83	0.41	0.077
1285233	Soil	0.7	17.4	9.3	59	0.2	14.0	10.4	399	3.25	34.9	2.2	3.7	5.7	22	0.1	1.4	0.1	87	0.35	0.076
1294363	Soil	0.9	16.8	8.6	51	0.1	26.9	9.0	203	3.38	11.9	1.2	2.9	3.5	21	<0.1	0.4	0.1	57	0.37	0.066
1294358	Soil	1.0	22.8	15.9	57	0.1	19.6	9.6	578	3.05	142.8	1.5	42.6	16.7	18	0.2	1.1	0.2	55	0.29	0.048
1294381	Soil	0.9	16.6	8.3	60	<0.1	24.8	14.2	428	3.07	6.5	1.3	4.3	7.7	21	<0.1	0.3	0.2	64	0.40	0.053
1294378	Soil	1.2	34.6	13.5	195	<0.1	75.3	21.9	1160	4.26	7.3	2.0	6.8	11.2	24	0.3	0.6	0.3	75	0.50	0.083
1285244	Soil	0.8	20.1	9.5	59	0.1	20.6	12.9	377	3.17	41.1	1.1	5.4	5.5	25	0.1	6.4	0.1	81	0.39	0.061
1294375	Soil	0.6	29.7	7.5	61	<0.1	29.3	16.8	331	3.93	5.8	0.8	3.9	4.5	22	<0.1	0.4	<0.1	89	0.37	0.064
1294382	Soil	0.7	12.8	8.7	54	<0.1	21.4	9.4	213	2.47	5.4	1.2	6.2	7.4	19	0.2	0.3	0.3	56	0.31	0.046
1294379	Soil	0.6	31.7	13.4	81	0.1	48.0	14.7	571	3.40	7.8	2.0	15.4	12.3	25	0.1	0.6	0.2	60	0.66	0.079
1294376	Soil	0.6	31.6	7.7	60	<0.1	29.0	24.1	649	4.13	6.7	0.9	4.9	4.5	20	<0.1	0.2	0.1	90	0.35	0.066
1285245	Soil	1.2	34.6	7.2	65	0.2	22.5	13.0	455	3.73	41.1	2.8	10.3	8.5	33	<0.1	7.2	0.2	94	0.53	0.073
1294384	Soil	1.4	11.5	8.2	50	<0.1	21.5	11.4	433	2.49	4.6	1.5	5.3	7.5	21	<0.1	0.4	0.1	57	0.36	0.051
1294380	Soil	0.8	35.8	14.5	89	0.1	51.6	18.3	612	3.55	7.2	2.9	5.5	11.3	28	0.3	0.5	0.3	65	0.75	0.069
1294377	Soil	0.9	29.6	11.2	82	0.1	25.1	18.2	846	4.29	5.1	2.0	3.7	13.6	23	0.2	0.5	0.1	89	0.43	0.090
1289252	Soil	0.5	21.1	7.5	66	0.1	16.0	10.2	218	3.29	15.0	3.8	5.0	6.3	22	<0.1	4.4	<0.1	87	0.38	0.067
1294364	Soil	1.5	36.8	9.6	65	0.2	19.9	14.8	457	3.42	9.3	1.3	5.7	6.2	16	<0.1	0.4	0.2	70	0.39	0.044
1294365	Soil	0.6	30.1	13.8	73	<0.1	39.7	15.6	732	3.47	15.2	0.9	7.0	6.5	50	<0.1	1.1	0.1	52	1.63	0.092
1294383	Soil	1.3	11.2	9.1	52	<0.1	22.2	10.3	372	2.45	5.1	1.3	6.5	7.0	24	0.1	0.3	0.2	60	0.44	0.048
1285250	Soil	0.4	21.3	7.9	54	<0.1	17.1	8.7	197	3.67	114.2	3.2	12.6	5.3	24	0.1	11.1	0.1	84	0.40	0.070
1294370	Soil	0.8	25.0	7.9	57	<0.1	35.7	20.4	521	4.38	6.0	0.5	11.7	3.8	23	<0.1	0.3	<0.1	100	0.61	0.084
1294371	Soil	0.5	64.0	3.1	78	<0.1	28.8	33.4	742	6.73	6.2	0.5	3.0	3.5	20	<0.1	0.2	<0.1	165	0.76	0.180
1294369	Soil	1.0	36.3	10.8	82	0.1	35.7	18.6	1175	4.97	9.6	2.3	10.3	6.9	31	0.3	1.0	0.2	88	0.98	0.076
1294367	Soil	0.5	31.3	7.9	68	<0.1	54.0	19.0	593	3.79	13.9	1.1	2.4	5.7	52	0.2	0.6	<0.1	68	1.49	0.094



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Phone (604) 253-3158 Fax (604) 253-1716

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

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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
1294361	Soil	22	72	1.04	188	0.094	2	2.17	0.013	0.08	0.2	0.04	5.2	0.2	<0.05	6	<0.5	<0.2
1294355	Soil	10	49	0.57	166	0.070	2	2.76	0.013	0.05	0.2	0.05	4.3	0.1	<0.05	7	<0.5	<0.2
1285229	Soil	16	30	0.57	256	0.082	2	1.69	0.016	0.05	0.2	0.07	4.8	0.2	<0.05	6	<0.5	<0.2
1285232	Soil	12	34	0.70	231	0.133	2	2.02	0.016	0.08	0.2	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
1294362	Soil	16	52	0.94	142	0.093	1	1.97	0.013	0.09	0.2	0.05	4.7	0.2	<0.05	6	<0.5	<0.2
1294354	Soil	9	32	0.57	187	0.073	<1	2.25	0.009	0.07	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
1285238	Soil	13	36	0.65	315	0.113	1	1.94	0.016	0.08	0.1	0.03	5.5	0.2	<0.05	6	<0.5	<0.2
1285233	Soil	13	35	0.64	265	0.121	2	2.11	0.016	0.09	0.1	0.07	5.9	0.3	0.05	7	<0.5	<0.2
1294363	Soil	12	45	0.72	132	0.069	1	1.67	0.011	0.06	0.1	0.05	4.1	0.2	0.05	5	<0.5	<0.2
1294358	Soil	39	37	0.73	155	0.078	1	1.69	0.014	0.15	0.2	0.02	3.7	0.2	<0.05	5	<0.5	<0.2
1294381	Soil	21	45	0.92	172	0.096	2	1.90	0.015	0.17	0.2	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
1294378	Soil	47	99	1.29	240	0.117	2	1.97	0.012	0.32	0.2	0.06	7.1	0.3	<0.05	6	<0.5	<0.2
1285244	Soil	12	36	0.78	248	0.141	2	2.18	0.018	0.08	0.2	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
1294375	Soil	13	55	1.31	214	0.142	2	2.42	0.013	0.17	<0.1	0.04	6.3	0.2	<0.05	8	<0.5	<0.2
1294382	Soil	21	42	0.78	136	0.085	1	1.81	0.012	0.12	0.2	0.07	4.4	0.2	<0.05	6	<0.5	<0.2
1294379	Soil	65	74	1.11	246	0.107	2	1.82	0.015	0.34	0.1	0.06	6.4	0.3	<0.05	5	<0.5	<0.2
1294376	Soil	13	59	1.27	193	0.133	1	2.34	0.012	0.15	<0.1	0.03	5.8	0.2	<0.05	7	<0.5	<0.2
1285245	Soil	20	40	0.80	446	0.150	1	2.01	0.022	0.15	0.1	0.05	8.8	0.5	<0.05	6	<0.5	<0.2
1294384	Soil	19	41	0.66	150	0.073	2	1.69	0.012	0.08	0.2	0.03	4.2	0.1	<0.05	5	<0.5	<0.2
1294380	Soil	46	84	1.38	238	0.119	2	2.10	0.015	0.36	0.1	0.04	6.7	0.4	<0.05	6	<0.5	<0.2
1294377	Soil	39	41	1.14	262	0.138	1	2.10	0.011	0.47	<0.1	0.04	6.9	0.3	<0.05	7	<0.5	<0.2
1289252	Soil	14	34	0.71	261	0.136	2	1.92	0.017	0.07	0.2	0.05	5.1	0.3	<0.05	6	<0.5	<0.2
1294364	Soil	13	41	1.25	111	0.121	2	2.01	0.010	0.19	0.2	0.03	3.9	0.3	<0.05	6	<0.5	<0.2
1294365	Soil	27	60	1.16	121	0.087	2	1.66	0.013	0.14	0.1	0.05	4.7	0.3	<0.05	5	<0.5	<0.2
1294383	Soil	22	45	0.70	159	0.082	2	1.69	0.013	0.08	0.2	0.04	4.1	0.2	<0.05	6	<0.5	<0.2
1285250	Soil	14	34	0.67	251	0.115	1	1.91	0.016	0.07	0.2	0.05	5.4	0.2	<0.05	5	<0.5	<0.2
1294370	Soil	8	63	1.75	337	0.173	1	2.37	0.014	0.46	0.1	0.02	5.1	0.3	<0.05	8	<0.5	<0.2
1294371	Soil	9	49	2.20	482	0.202	<1	2.87	0.009	1.24	<0.1	0.01	9.8	0.6	<0.05	10	<0.5	<0.2
1294369	Soil	29	48	1.03	586	0.094	1	1.79	0.015	0.14	0.1	0.18	7.1	0.2	<0.05	6	<0.5	<0.2
1294367	Soil	22	114	1.57	209	0.130	2	2.07	0.014	0.27	0.2	0.03	4.9	0.4	<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	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1294372	Soil	0.9	46.9	11.0	60	<0.1	37.8	27.0	867	4.42	5.7	1.2	18.1	5.4	29	<0.1	0.6	0.3	102	0.55	0.107
1294373	Soil	0.8	30.3	6.4	59	<0.1	25.2	21.5	501	4.10	6.2	0.8	6.4	3.6	23	<0.1	0.5	0.1	92	0.41	0.080
1294368	Soil	0.7	23.2	13.7	64	<0.1	64.7	18.9	558	3.93	11.2	1.8	6.9	11.1	33	0.1	1.0	0.1	73	0.73	0.078
1294366	Soil	0.3	26.4	9.1	78	<0.1	80.4	25.0	642	3.87	4.6	0.5	1.8	3.7	54	<0.1	0.2	0.1	65	1.76	0.106
1294945	Soil	1.3	15.4	7.4	46	0.1	15.8	10.8	445	2.57	48.2	1.0	5.7	2.8	23	0.5	0.8	<0.1	67	0.29	0.057
1294934	Soil	0.9	14.3	86.7	147	0.7	15.0	8.4	562	2.03	39.4	1.9	8.0	4.7	31	0.4	15.6	<0.1	56	0.51	0.074
1294935	Soil	0.7	17.5	125.5	180	0.9	13.6	8.6	462	2.17	86.4	2.5	9.0	6.0	30	1.0	21.5	<0.1	65	0.52	0.076
1294374	Soil	0.5	43.7	5.6	59	0.1	27.3	20.6	400	3.86	5.2	0.8	2.8	3.0	24	<0.1	0.4	<0.1	85	0.43	0.072
1294942	Soil	0.6	24.6	7.8	57	<0.1	19.2	12.7	325	2.82	20.6	2.0	5.1	6.3	32	0.3	0.7	<0.1	76	0.48	0.084
1294943	Soil	0.9	30.4	8.1	64	0.1	22.5	10.3	291	3.28	43.7	3.3	9.7	6.2	34	0.2	1.1	<0.1	82	0.50	0.087
1294944	Soil	0.6	31.8	7.3	62	0.1	23.2	11.5	361	3.02	72.9	2.0	13.0	5.5	32	0.2	1.1	<0.1	70	0.45	0.088
1294939	Soil	1.5	37.2	10.6	83	0.2	27.4	15.8	978	3.51	60.9	6.6	9.7	4.9	47	0.2	1.5	0.1	80	0.70	0.083
1294926	Soil	0.4	12.9	55.8	115	0.4	14.9	8.6	279	2.02	19.4	1.3	4.9	4.8	28	0.2	8.9	<0.1	62	0.42	0.059
1294923	Soil	0.3	16.1	48.3	100	0.4	15.7	7.6	215	1.82	8.3	1.6	14.4	4.6	26	0.2	7.6	0.2	56	0.39	0.053
1294940	Soil	1.0	24.4	7.0	58	0.1	23.4	13.0	544	2.99	40.5	2.4	6.7	6.8	26	0.4	0.9	0.1	75	0.39	0.086
1294938	Soil	1.6	34.4	9.7	74	0.2	24.0	13.4	598	3.45	64.6	8.4	9.1	5.2	50	0.1	2.5	<0.1	84	0.91	0.088
1294922	Soil	0.7	9.8	32.3	88	0.3	14.9	9.1	509	2.34	17.3	0.8	2.9	2.7	26	0.1	4.8	<0.1	58	0.36	0.070
1294925	Soil	1.0	10.3	52.2	103	0.4	13.7	10.7	511	3.71	47.1	1.1	12.9	4.5	29	0.2	9.4	<0.1	60	0.42	0.062
1294924	Soil	0.7	9.6	46.9	99	0.4	13.9	8.6	262	2.74	78.8	0.9	4.6	3.2	26	0.2	6.4	<0.1	76	0.37	0.064
1294941	Soil	0.8	27.4	6.2	53	0.1	22.9	10.4	451	2.80	21.5	1.9	6.1	6.2	30	0.3	0.7	<0.1	73	0.44	0.079
1294921	Soil	0.7	25.6	38.4	99	0.4	20.6	11.2	319	2.72	19.7	2.1	3.3	5.0	31	0.5	7.0	<0.1	76	0.36	0.067
1294937	Soil	0.9	24.2	34.2	102	0.4	21.9	11.4	434	2.92	94.4	5.0	7.8	5.5	38	0.4	6.8	<0.1	72	0.65	0.084
1294947	Soil	0.7	21.7	9.1	60	0.1	16.6	10.8	298	3.09	53.5	2.0	5.6	6.8	30	0.2	2.0	<0.1	75	0.42	0.071
1294933	Soil	1.1	19.9	66.6	164	0.5	16.9	13.2	806	3.34	51.9	1.6	7.0	7.8	30	0.4	13.3	<0.1	71	0.51	0.096
1294920	Soil	0.6	22.8	32.1	98	0.2	21.1	11.3	275	2.95	30.6	1.7	5.7	6.3	25	0.3	5.7	<0.1	71	0.34	0.061
1294936	Soil	0.7	18.5	56.4	170	0.6	20.6	11.5	312	2.44	50.2	3.6	5.3	5.7	31	0.8	8.6	<0.1	68	0.44	0.061
1294946	Soil	0.9	23.1	8.1	57	<0.1	19.2	12.5	506	3.26	42.5	1.4	3.6	6.4	24	0.1	1.6	<0.1	81	0.34	0.062
1294932	Soil	0.4	16.1	69.9	139	0.6	17.7	9.3	296	2.40	39.9	1.9	6.8	5.9	26	0.3	11.9	<0.1	70	0.38	0.058
1289909	Soil	0.7	12.4	10.0	83	0.1	15.0	11.7	527	3.35	31.5	5.2	6.9	17.2	34	<0.1	0.6	<0.1	72	0.47	0.069
1289912	Soil	0.8	10.6	9.4	66	0.2	12.4	9.0	467	2.91	42.5	2.2	3.8	7.1	28	0.1	0.4	<0.1	70	0.35	0.052



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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

**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 2012

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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	Ti	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
1294372	Soil	18	65	1.63	311	0.149	1	2.67	0.013	0.40	0.2	0.04	9.1	0.3	<0.05	9	0.6	0.3
1294373	Soil	11	46	1.27	271	0.138	2	2.43	0.012	0.23	<0.1	0.03	6.8	0.2	<0.05	8	0.5	<0.2
1294368	Soil	40	155	1.57	331	0.119	<1	2.07	0.012	0.19	0.2	0.09	6.8	0.3	<0.05	7	0.7	<0.2
1294366	Soil	12	210	2.56	180	0.168	2	2.42	0.010	0.49	0.1	<0.01	3.3	0.4	<0.05	7	<0.5	<0.2
1294945	Soil	10	28	0.48	207	0.096	2	1.66	0.014	0.06	0.2	0.05	3.4	0.1	<0.05	7	0.6	<0.2
1294934	Soil	12	32	0.59	231	0.067	3	1.66	0.013	0.06	0.2	0.09	5.2	0.3	0.06	5	<0.5	<0.2
1294935	Soil	14	27	0.57	198	0.084	2	1.53	0.016	0.06	0.3	0.05	5.1	0.3	<0.05	5	<0.5	<0.2
1294374	Soil	11	55	1.39	311	0.152	2	2.34	0.025	0.25	<0.1	0.03	6.4	0.2	<0.05	8	0.7	<0.2
1294942	Soil	16	35	0.62	220	0.129	2	1.57	0.021	0.09	0.2	0.02	5.6	0.1	<0.05	5	0.7	<0.2
1294943	Soil	17	38	0.68	231	0.135	1	1.73	0.020	0.12	0.2	0.04	6.7	0.2	<0.05	6	<0.5	<0.2
1294944	Soil	15	36	0.65	226	0.118	2	1.71	0.021	0.08	0.3	0.02	6.0	0.2	<0.05	5	<0.5	<0.2
1294939	Soil	22	35	0.76	343	0.090	3	2.18	0.027	0.08	0.2	0.08	7.0	0.2	<0.05	7	0.6	<0.2
1294926	Soil	13	32	0.61	203	0.080	2	1.72	0.014	0.05	0.2	0.03	5.2	0.3	<0.05	6	<0.5	<0.2
1294923	Soil	13	33	0.59	201	0.079	1	1.96	0.012	0.05	0.1	0.06	5.9	0.4	<0.05	6	<0.5	<0.2
1294940	Soil	14	33	0.66	192	0.120	2	2.10	0.017	0.09	0.2	0.03	4.7	0.1	<0.05	6	0.6	<0.2
1294938	Soil	21	37	0.71	290	0.090	1	2.00	0.023	0.09	0.2	0.08	7.9	0.2	0.06	6	0.9	<0.2
1294922	Soil	9	30	0.62	149	0.069	2	1.66	0.013	0.06	0.1	0.06	4.4	0.3	<0.05	7	<0.5	<0.2
1294925	Soil	12	28	0.56	202	0.075	<1	1.66	0.014	0.05	0.2	0.04	4.6	0.4	<0.05	5	0.7	<0.2
1294924	Soil	11	30	0.54	217	0.063	1	1.70	0.013	0.05	0.1	0.05	4.7	0.3	<0.05	6	0.5	<0.2
1294941	Soil	14	35	0.65	222	0.116	<1	1.71	0.022	0.07	0.2	0.02	4.9	0.1	<0.05	5	<0.5	<0.2
1294921	Soil	17	37	0.62	286	0.076	1	1.97	0.013	0.06	0.1	0.06	7.5	0.3	<0.05	6	<0.5	<0.2
1294937	Soil	19	35	0.66	276	0.085	<1	1.91	0.021	0.06	0.2	0.07	7.2	0.2	0.07	6	<0.5	<0.2
1294947	Soil	15	33	0.68	240	0.111	2	1.90	0.018	0.08	<0.1	0.04	5.7	0.2	<0.05	6	<0.5	<0.2
1294933	Soil	14	31	0.69	242	0.095	1	1.68	0.016	0.10	0.2	0.03	5.9	0.4	<0.05	5	<0.5	<0.2
1294920	Soil	14	42	0.68	183	0.084	1	2.12	0.013	0.06	0.1	0.06	6.4	0.2	<0.05	6	<0.5	<0.2
1294936	Soil	17	35	0.63	274	0.084	<1	1.94	0.016	0.07	0.2	0.06	6.6	0.3	<0.05	6	0.6	<0.2
1294946	Soil	14	37	0.66	183	0.129	<1	2.12	0.016	0.09	0.1	0.05	5.5	0.2	<0.05	7	0.5	<0.2
1294932	Soil	15	32	0.61	210	0.087	1	1.92	0.014	0.06	0.2	0.05	5.7	0.3	<0.05	6	<0.5	<0.2
1289909	Soil	36	26	0.75	372	0.143	1	1.97	0.028	0.14	0.1	0.04	7.3	0.4	<0.05	8	<0.5	<0.2
1289912	Soil	20	24	0.60	241	0.122	1	1.70	0.018	0.07	0.1	0.04	4.7	0.3	<0.05	8	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Kaminak Gold Corporation**  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

Project: **SUG**  
Report Date: **August 25, 2012**

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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	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1294918	Soil	0.9	29.9	13.5	81	0.2	29.8	12.9	395	3.13	30.3	1.3	4.2	4.6	21	0.2	3.6	0.1	65	0.27
1294914	Soil	2.7	40.2	13.7	107	0.6	35.9	11.1	200	3.08	47.5	2.1	6.8	2.5	25	0.7	2.7	0.1	68	0.27
1289913	Soil	0.7	10.0	11.6	96	<0.1	13.2	11.9	829	4.45	87.8	1.8	10.9	23.1	24	0.1	0.6	<0.1	77	0.46
1289911	Soil	0.7	9.0	9.8	74	0.1	13.1	10.5	578	3.21	38.1	2.5	4.1	10.5	29	<0.1	0.6	<0.1	71	0.41
1294917	Soil	1.0	28.4	12.7	74	0.2	25.0	11.2	319	2.92	30.8	0.8	5.1	2.4	23	0.4	1.0	0.1	67	0.28
1294913	Soil	1.0	38.4	16.7	67	0.2	26.5	13.4	529	2.99	10.4	1.2	3.4	3.4	33	<0.1	0.8	<0.1	68	0.57
1289914	Soil	1.0	18.3	9.8	69	0.2	12.4	7.5	651	2.50	37.7	3.3	8.9	9.7	60	0.2	0.3	0.5	56	1.40
1289910	Soil	0.7	12.0	9.9	81	<0.1	14.7	11.4	506	3.51	29.4	5.8	8.8	16.0	30	0.2	0.5	0.3	72	0.49
1294919	Soil	0.9	31.2	16.7	74	0.2	32.1	17.1	513	4.12	18.6	1.4	3.8	4.2	22	0.2	2.2	0.2	84	0.34
1294916	Soil	1.1	19.6	6.0	96	<0.1	19.9	22.0	953	4.47	14.5	0.7	<0.5	2.3	20	0.4	0.7	0.3	75	0.34
1289916	Soil	0.9	29.2	10.0	76	0.1	27.0	12.1	460	3.46	117.6	1.7	43.9	9.4	40	0.2	6.5	0.3	70	0.99
1289915	Soil	0.9	21.2	10.3	71	0.1	22.6	11.6	467	3.38	43.4	1.6	13.3	10.1	37	<0.1	1.8	0.1	68	0.73
1289908	Soil	0.8	10.4	10.6	77	<0.1	12.6	10.4	574	3.76	124.9	2.4	21.0	13.7	23	<0.1	0.6	<0.1	79	0.40
1294915	Soil	2.8	48.0	13.4	107	1.0	44.9	12.8	230	3.84	44.4	1.7	11.7	3.8	22	0.4	1.6	0.2	82	0.24
1289929	Soil	0.9	31.3	6.6	79	<0.1	25.6	12.6	570	3.61	4.8	1.5	7.3	8.7	29	0.1	0.5	0.1	73	0.89
1289926	Soil	1.4	27.8	5.8	62	<0.1	28.4	17.4	609	3.61	6.7	0.6	8.8	2.8	22	<0.1	0.5	<0.1	90	0.49
1289923	Soil	2.5	45.0	20.8	105	0.2	41.1	15.6	628	3.89	30.2	0.9	9.8	5.5	17	0.4	1.7	<0.1	91	0.45
1289917	Soil	0.8	49.5	7.0	62	0.2	41.5	12.4	329	2.43	59.9	3.0	18.5	3.3	50	0.3	18.2	0.1	56	1.63
1289918	Soil	2.0	42.5	9.4	78	0.2	38.3	16.4	632	3.36	36.7	1.5	12.7	4.5	33	0.2	4.1	<0.1	74	0.73
1289928	Soil	1.5	24.0	9.0	70	<0.1	25.8	12.1	654	3.49	7.5	1.3	5.6	10.0	26	0.1	0.9	0.1	66	0.53
1289924	Soil	0.9	33.2	4.5	57	<0.1	27.8	14.1	351	3.14	6.7	0.9	5.4	4.5	15	<0.1	0.6	<0.1	69	0.42
1289921	Soil	1.4	30.2	8.5	68	0.1	26.9	14.6	489	3.62	18.4	1.0	1.1	5.7	28	0.2	3.4	<0.1	82	0.49
1289936	Soil	1.1	65.1	10.8	76	0.2	14.3	10.2	440	4.13	5.0	1.0	3.7	3.1	21	<0.1	0.3	<0.1	104	0.32
1289927	Soil	1.7	21.8	8.0	65	<0.1	20.7	11.4	448	3.24	6.6	0.5	3.3	4.3	20	0.1	0.6	<0.1	81	0.36
1289925	Soil	1.3	29.4	4.5	55	<0.1	28.5	15.5	520	3.37	6.5	0.5	2.1	2.6	20	<0.1	0.5	<0.1	83	0.41
1289922	Soil	1.2	20.0	4.6	73	<0.1	16.3	14.4	761	3.72	8.0	0.6	1.4	2.4	24	0.2	0.7	<0.1	78	0.55
1289935	Soil	2.2	46.3	33.9	127	0.1	18.7	8.2	427	4.72	3.4	5.0	1.6	22.0	52	<0.1	0.2	0.2	47	0.37
1289937	Soil	1.2	23.1	11.1	62	<0.1	19.2	10.8	437	2.70	5.2	1.0	1.4	5.8	17	<0.1	0.4	<0.1	50	0.40
1289919	Soil	1.5	46.8	7.8	60	0.1	33.7	15.7	571	3.30	17.6	1.1	4.5	3.3	31	0.2	1.7	<0.1	79	0.59
1289920	Soil	1.1	16.3	7.8	63	<0.1	18.9	12.1	492	3.52	8.3	0.5	2.1	2.7	23	<0.1	0.8	<0.1	75	0.38





1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

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**Report Date:** August 25, 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
1294918	Soil	16	40	0.66	245	0.081	<1	2.03	0.011	0.13	<0.1	0.04	5.1	0.3	<0.05	6	<0.5
1294914	Soil	13	44	0.70	1001	0.066	<1	1.95	0.010	0.09	0.1	0.10	5.5	0.3	<0.05	6	1.0
1289913	Soil	34	22	0.95	574	0.213	2	2.10	0.021	0.50	0.4	0.02	6.6	0.7	<0.05	9	<0.5
1289911	Soil	24	24	0.66	276	0.122	2	1.70	0.018	0.10	0.1	0.05	5.3	0.3	<0.05	7	<0.5
1294917	Soil	13	36	0.55	515	0.066	1	2.05	0.011	0.06	0.1	0.05	5.3	0.1	<0.05	6	<0.5
1294913	Soil	18	38	0.72	372	0.083	<1	2.04	0.022	0.06	0.2	0.04	6.8	<0.1	<0.05	6	0.7
1289914	Soil	65	20	0.44	382	0.083	5	1.48	0.020	0.14	0.2	0.03	4.4	0.2	<0.05	6	<0.5
1289910	Soil	43	25	0.72	307	0.138	3	1.88	0.021	0.12	0.2	0.05	6.3	0.3	<0.05	7	<0.5
1294919	Soil	15	66	0.94	206	0.090	3	2.34	0.015	0.05	0.1	0.05	6.7	0.2	<0.05	8	<0.5
1294916	Soil	8	22	0.76	102	0.047	2	2.28	0.007	0.10	0.1	0.03	6.1	0.1	<0.05	8	<0.5
1289916	Soil	22	45	0.79	303	0.091	2	1.92	0.025	0.10	0.2	0.03	6.6	0.2	<0.05	7	<0.5
1289915	Soil	34	39	0.73	348	0.099	3	1.82	0.027	0.09	0.1	0.06	6.2	0.1	<0.05	6	<0.5
1289908	Soil	30	23	0.68	343	0.148	2	1.88	0.018	0.17	0.2	0.02	5.7	0.3	<0.05	8	<0.5
1294915	Soil	19	55	0.80	350	0.080	3	2.38	0.011	0.13	0.1	0.10	5.5	0.4	<0.05	8	0.7
1289929	Soil	25	50	1.41	298	0.127	2	2.13	0.019	0.35	<0.1	0.03	7.5	0.3	<0.05	8	<0.5
1289926	Soil	12	62	1.34	221	0.166	3	2.17	0.018	0.26	<0.1	0.03	4.7	0.2	<0.05	8	<0.5
1289923	Soil	16	69	1.04	455	0.091	1	2.00	0.014	0.20	0.2	<0.01	7.4	0.3	<0.05	7	<0.5
1289917	Soil	16	58	0.76	779	0.059	3	1.56	0.019	0.05	0.1	0.06	6.4	<0.1	0.08	5	0.9
1289918	Soil	15	57	0.78	1024	0.068	2	1.82	0.020	0.08	0.2	0.08	6.6	0.1	<0.05	6	<0.5
1289928	Soil	30	50	0.88	196	0.107	2	1.83	0.019	0.21	0.1	0.02	5.7	0.2	<0.05	7	<0.5
1289924	Soil	23	49	1.23	139	0.150	2	2.00	0.017	0.23	<0.1	0.02	5.4	0.2	<0.05	6	<0.5
1289921	Soil	14	41	0.79	434	0.068	2	2.14	0.015	0.07	<0.1	0.04	7.7	0.1	<0.05	7	<0.5
1289936	Soil	10	27	1.47	120	0.098	1	2.42	0.019	0.22	<0.1	0.02	8.8	0.2	0.14	7	<0.5
1289927	Soil	14	45	0.71	158	0.107	3	2.01	0.015	0.09	<0.1	0.01	3.7	0.1	<0.05	8	<0.5
1289925	Soil	13	57	1.26	217	0.165	2	1.95	0.017	0.28	0.1	0.01	4.8	0.2	<0.05	7	<0.5
1289922	Soil	6	28	1.00	340	0.063	2	2.00	0.014	0.08	0.1	0.03	6.2	<0.1	<0.05	7	<0.5
1289935	Soil	41	41	1.55	148	0.096	1	2.30	0.030	0.72	<0.1	<0.01	5.9	0.6	0.38	7	<0.5
1289937	Soil	14	35	1.17	106	0.111	1	1.85	0.011	0.18	<0.1	<0.01	3.2	0.3	<0.05	5	<0.5
1289919	Soil	14	56	0.73	568	0.076	2	2.16	0.024	0.08	0.1	0.04	5.5	<0.1	0.07	6	<0.5
1289920	Soil	8	32	0.60	250	0.091	1	2.28	0.012	0.05	0.1	<0.01	4.1	0.1	<0.05	7	<0.5



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client:

Kaminak Gold Corporation

1020 - 800 West Pender Street

Vancouver BC V6C 2V6 Canada

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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 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1289775	Soil	1.2	22.8	16.1	70	0.2	22.2	15.3	461	3.72	178.4	1.9	32.5	8.4	27	<0.1	2.6	<0.1	91	0.51
1289779	Soil	0.8	21.4	8.1	58	0.1	17.8	13.4	354	2.68	22.2	2.9	5.1	4.9	27	0.2	5.3	<0.1	84	0.43
1289931	Soil	1.2	36.6	16.4	60	0.1	35.9	15.3	613	3.80	9.5	2.6	2.7	16.1	36	<0.1	1.3	0.2	68	0.81
1289934	Soil	0.8	26.1	9.1	56	<0.1	40.3	11.4	441	3.61	5.7	0.7	1.0	5.8	18	<0.1	0.3	<0.1	84	0.33
1289769	Soil	1.5	41.1	18.9	74	0.2	29.5	12.0	590	3.78	50.7	2.1	4.9	7.9	34	<0.1	14.4	<0.1	99	0.55
1289773	Soil	1.0	29.4	9.2	70	0.5	21.3	13.9	292	3.39	204.8	2.5	42.0	8.0	26	0.2	3.2	<0.1	91	0.46
1289930	Soil	1.9	26.3	21.9	68	<0.1	37.9	14.6	585	3.74	11.9	1.8	7.5	12.7	34	0.2	0.8	0.2	74	0.66
1289767	Soil	1.4	36.8	10.1	87	0.2	25.4	18.6	876	5.29	71.1	4.2	5.8	9.7	28	0.3	1.9	<0.1	136	0.54
1289759	Soil	0.4	19.0	9.9	63	<0.1	20.7	12.0	238	3.01	7.2	1.3	5.1	6.7	25	0.2	0.6	<0.1	76	0.43
1289771	Soil	1.1	31.3	8.8	66	<0.1	22.8	15.0	409	3.90	64.6	1.8	9.5	7.9	25	0.1	2.1	<0.1	108	0.39
1289776	Soil	0.8	26.3	12.7	69	0.2	20.0	14.5	439	3.58	72.1	2.5	16.0	9.0	26	0.1	1.9	<0.1	101	0.45
1289933	Soil	0.8	37.6	11.6	79	0.1	40.3	17.8	685	4.39	6.5	1.5	131.5	7.6	24	<0.1	0.2	<0.1	71	0.80
1289778	Soil	0.4	19.3	10.1	60	0.1	17.1	10.3	327	3.49	80.3	2.4	17.9	6.7	25	0.1	2.2	0.2	93	0.39
1289768	Soil	2.1	31.7	10.5	73	0.2	25.9	13.2	606	3.89	40.4	2.1	10.3	7.8	35	0.1	1.8	0.1	91	0.58
1289770	Soil	1.4	25.9	13.1	67	0.2	19.5	13.3	581	4.65	92.7	2.4	14.9	7.1	23	0.1	2.8	0.1	93	0.34
1289932	Soil	1.0	38.8	11.7	66	0.1	37.7	15.8	612	4.12	8.7	2.7	4.9	13.4	35	<0.1	0.6	0.5	59	0.67
1289762	Soil	0.5	19.3	11.7	65	0.1	15.9	10.0	226	2.95	14.1	2.6	14.3	8.3	27	0.2	1.3	0.1	79	0.44
1289764	Soil	1.2	17.7	12.3	73	0.2	18.6	12.8	839	4.08	24.4	2.0	8.9	7.7	27	0.1	1.8	0.1	91	0.38
1289784	Soil	0.3	19.2	9.8	63	<0.1	18.0	10.4	218	3.26	15.1	3.3	7.2	6.5	28	0.2	1.0	0.1	81	0.42
1289785	Soil	0.6	19.6	6.4	66	<0.1	11.2	12.0	562	3.73	8.3	1.1	12.5	7.2	22	<0.1	1.3	<0.1	89	0.44
1289763	Soil	0.5	22.8	11.4	63	0.1	17.2	11.1	395	3.66	24.0	2.5	11.7	9.0	27	0.2	1.5	<0.1	114	0.44
1289760	Soil	1.1	10.7	7.3	60	0.1	12.8	12.8	625	3.12	14.1	1.6	6.0	5.8	27	0.1	0.9	<0.1	75	0.48
1289766	Soil	1.1	21.8	18.7	83	0.2	17.7	12.9	635	4.29	37.8	2.4	8.4	8.1	27	0.2	2.7	0.3	107	0.43
1289783	Soil	0.4	15.3	7.8	59	<0.1	14.3	8.4	219	2.77	13.8	2.7	9.8	6.5	28	0.1	2.0	<0.1	73	0.44
1289761	Soil	0.4	20.1	11.4	62	<0.1	18.3	10.7	235	3.38	15.7	1.9	5.3	8.7	24	0.1	0.8	0.1	85	0.40
1289765	Soil	0.9	16.1	11.8	63	0.2	13.5	13.8	2375	3.28	19.2	1.4	5.8	4.5	25	0.1	1.3	0.2	76	0.38
1289774	Soil	0.9	27.0	10.7	64	0.2	18.9	13.3	320	3.85	85.0	3.2	15.0	9.3	26	<0.1	2.1	0.1	88	0.41
1289781	Soil	0.3	15.4	8.3	61	<0.1	16.3	9.4	220	3.07	9.7	2.2	8.1	6.7	27	0.1	3.8	0.1	74	0.43
1289782	Soil	0.8	11.3	9.8	55	0.1	11.2	7.1	205	2.30	27.5	1.7	5.9	3.7	25	0.1	3.4	0.1	74	0.36
1289758	Soil	0.6	18.2	9.6	65	0.2	15.8	12.1	367	3.05	7.6	2.2	7.3	8.4	27	0.3	0.9	0.1	81	0.43



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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

**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 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
1289775	Soil	17	41	0.87	360	0.152	2	2.04	0.021	0.12	0.1	0.04	6.8	0.4	<0.05	7	<0.5
1289779	Soil	15	37	0.66	365	0.130	2	1.90	0.020	0.07	0.1	0.07	5.2	0.2	0.08	6	<0.5
1289931	Soil	62	63	0.98	398	0.082	2	2.11	0.016	0.23	0.1	0.07	7.9	0.2	<0.05	7	<0.5
1289934	Soil	8	67	1.50	160	0.164	2	2.32	0.014	0.29	<0.1	<0.01	4.8	0.3	<0.05	8	<0.5
1289769	Soil	20	51	0.82	434	0.164	3	2.17	0.024	0.17	0.2	0.04	8.4	0.4	<0.05	7	<0.5
1289773	Soil	19	40	0.82	394	0.165	2	2.22	0.019	0.12	0.2	0.07	6.8	0.3	<0.05	7	<0.5
1289930	Soil	41	59	0.75	430	0.077	2	2.20	0.016	0.11	0.1	0.04	7.1	0.2	<0.05	7	<0.5
1289767	Soil	23	46	0.87	514	0.165	3	2.25	0.022	0.15	0.1	0.07	11.0	0.6	<0.05	7	<0.5
1289759	Soil	13	38	0.76	179	0.133	2	2.20	0.016	0.07	0.1	0.04	4.5	0.2	<0.05	6	<0.5
1289771	Soil	18	45	0.89	346	0.178	2	2.45	0.021	0.16	0.2	0.03	7.7	0.4	<0.05	7	<0.5
1289776	Soil	18	44	0.86	355	0.171	2	2.34	0.020	0.11	0.1	0.04	7.3	0.4	<0.05	7	<0.5
1289933	Soil	19	59	1.61	283	0.194	2	2.69	0.016	0.61	0.1	0.01	4.8	0.5	<0.05	8	<0.5
1289778	Soil	15	35	0.71	264	0.134	3	2.07	0.018	0.07	0.2	0.03	5.6	0.2	<0.05	6	<0.5
1289768	Soil	19	49	0.84	399	0.158	4	2.10	0.026	0.19	0.2	0.03	9.2	0.4	<0.05	7	0.5
1289770	Soil	18	40	0.71	293	0.121	4	2.35	0.016	0.11	0.2	0.08	8.9	0.4	<0.05	7	<0.5
1289932	Soil	56	51	0.99	291	0.097	3	2.12	0.017	0.22	0.1	0.03	7.5	0.2	<0.05	7	0.9
1289762	Soil	15	33	0.72	269	0.137	<1	1.97	0.020	0.10	0.3	0.06	6.4	0.2	<0.05	6	<0.5
1289764	Soil	16	39	0.71	286	0.092	3	2.42	0.015	0.11	0.2	0.09	8.3	0.5	<0.05	7	<0.5
1289784	Soil	16	34	0.72	323	0.136	<1	1.96	0.020	0.07	0.2	0.02	5.2	0.2	<0.05	6	<0.5
1289785	Soil	11	27	0.85	254	0.148	1	2.10	0.023	0.10	0.2	<0.01	4.1	0.1	<0.05	7	<0.5
1289763	Soil	18	39	0.69	300	0.152	5	2.23	0.020	0.12	0.2	0.05	7.0	0.3	0.06	7	0.9
1289760	Soil	13	27	0.66	235	0.110	3	1.80	0.021	0.08	0.2	0.03	4.8	0.3	<0.05	6	<0.5
1289766	Soil	18	38	0.75	351	0.132	2	2.21	0.017	0.14	0.1	0.05	11.1	0.8	<0.05	7	<0.5
1289783	Soil	13	33	0.70	216	0.150	1	1.91	0.023	0.08	0.2	0.05	4.9	0.2	<0.05	6	0.6
1289761	Soil	16	36	0.76	244	0.156	1	2.30	0.019	0.10	0.2	0.02	5.8	0.2	<0.05	7	<0.5
1289765	Soil	13	30	0.59	269	0.084	2	1.91	0.016	0.08	0.2	0.06	5.7	0.5	<0.05	6	0.6
1289774	Soil	22	37	0.83	341	0.150	2	2.54	0.018	0.10	0.1	0.05	7.6	0.3	<0.05	7	<0.5
1289781	Soil	13	34	0.77	253	0.175	1	2.11	0.019	0.08	0.1	0.04	4.9	0.2	<0.05	6	<0.5
1289782	Soil	11	29	0.59	224	0.139	2	1.73	0.017	0.06	0.1	0.03	3.9	0.2	<0.05	7	<0.5
1289758	Soil	17	34	0.70	254	0.127	2	2.17	0.019	0.08	0.1	0.03	7.0	0.2	<0.05	7	0.5



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Kaminak Gold Corporation**  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

Project: **SUG**  
Report Date: **August 25, 2012**

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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	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
1289777	Soil				0.9	24.2	11.8	64	0.2	18.2	13.6	889	3.76	130.1	3.6	22.3	8.1	30	0.1	3.0	0.1	83	0.48	0.079
1289780	Soil				0.6	11.9	7.4	52	<0.1	13.3	9.1	247	3.38	24.8	2.1	5.6	4.7	27	0.1	3.6	<0.1	82	0.41	0.069
1289300	Soil				1.3	36.7	18.9	77	0.1	40.3	13.5	433	3.55	254.9	2.2	26.9	6.3	33	0.6	7.5	0.2	63	0.56	0.041
1289297	Soil				1.2	30.1	8.8	57	0.2	28.2	11.2	536	2.97	28.3	2.2	6.7	12.0	41	0.3	2.0	0.1	57	1.11	0.058
1289303	Soil				1.4	19.8	16.9	54	0.1	40.9	15.8	539	3.99	29.8	1.5	7.1	12.0	29	<0.1	2.8	0.1	73	0.47	0.024
1289772	Soil				1.0	27.5	8.7	64	0.1	17.7	12.7	361	4.19	42.4	2.4	10.5	8.3	36	0.3	1.7	0.1	109	0.50	0.069
1289299	Soil				1.1	25.2	17.2	41	0.2	24.6	9.3	367	2.34	25.0	3.7	6.1	11.1	46	0.1	1.6	0.1	44	1.49	0.049
1289298	Soil				1.4	37.2	9.1	71	0.2	44.3	13.8	563	3.53	47.3	2.0	7.4	11.1	38	0.4	2.4	0.2	67	1.21	0.053
1289294	Soil				1.0	21.8	11.7	55	0.2	16.6	9.2	593	3.00	17.0	2.8	8.5	8.0	46	0.3	0.7	0.1	55	1.16	0.063
1289757	Soil				0.8	13.9	6.9	46	0.2	12.0	6.8	214	2.03	6.4	1.4	3.3	2.3	32	<0.1	0.5	0.1	53	0.43	0.069
1289311	Soil				1.0	20.4	8.5	56	0.1	29.7	12.1	303	3.31	7.0	1.0	6.7	6.8	33	0.2	0.4	0.1	70	0.56	0.050
1289312	Soil				0.7	26.7	14.5	80	<0.1	47.2	18.2	513	4.44	142.5	1.3	7.0	8.8	38	0.2	0.3	3.1	69	0.74	0.066
1289302	Soil				2.3	30.1	10.1	86	0.1	37.6	12.9	507	4.28	150.8	0.7	2.8	4.1	18	0.2	6.2	0.2	87	0.20	0.025
1289295	Soil				1.3	21.9	10.5	65	0.2	22.0	9.8	653	3.34	17.7	2.0	8.8	7.5	38	0.2	0.9	0.1	58	0.75	0.053
1289310	Soil				0.8	16.0	6.2	53	<0.1	20.8	10.8	577	2.84	6.6	1.3	8.4	5.4	42	0.2	0.6	0.2	63	1.30	0.060
1289313	Soil				1.3	18.1	17.2	70	0.1	17.7	8.1	356	3.03	20.5	0.9	4.8	5.8	22	0.2	0.5	0.5	60	0.41	0.034
1289293	Soil				1.0	19.9	9.2	58	0.1	18.9	11.4	518	3.21	14.7	1.3	6.0	5.6	29	0.3	0.6	0.1	68	0.61	0.038
1289296	Soil				1.1	21.8	10.8	55	0.2	20.0	12.0	635	2.97	17.0	1.2	4.8	4.4	28	0.3	0.8	0.1	66	0.53	0.045
1294254	Soil				0.4	27.7	11.0	76	<0.1	30.8	14.5	422	2.91	9.7	0.9	28.2	2.9	64	0.3	0.7	0.5	47	1.96	0.071
1289301	Rock Pulp				1.2	378.3	20.0	154	0.2	185.8	68.3	759	14.91	3.6	1.2	36.1	7.2	13	0.2	0.5	0.4	191	0.28	0.041
1289275	Soil				0.7	16.7	9.9	55	<0.1	13.5	10.8	598	2.62	46.5	1.4	15.3	5.3	31	0.1	0.8	0.2	58	0.56	0.054
1289291	Soil				1.1	18.1	9.1	65	0.1	16.8	10.8	659	2.82	39.5	2.0	6.6	7.0	36	0.2	1.0	0.2	57	0.72	0.052
1294253	Soil				0.6	28.0	9.0	74	<0.1	96.4	22.7	602	4.28	31.6	1.0	4.7	6.5	46	0.1	1.2	0.2	58	1.30	0.065
1294247	Soil				0.9	22.9	5.4	46	<0.1	20.1	12.0	327	3.05	5.7	0.4	7.0	1.8	16	0.2	0.3	<0.1	73	0.26	0.047
1289276	Soil				0.9	15.3	9.9	57	<0.1	13.8	11.7	710	2.79	44.9	1.5	10.6	5.4	35	0.2	1.0	0.1	67	0.63	0.060
1289290	Soil				1.1	15.0	7.2	51	0.2	13.1	7.9	275	2.39	44.9	1.7	9.0	4.7	24	0.2	0.4	0.1	59	0.27	0.039
1294249	Soil				1.2	36.9	9.6	51	<0.1	25.5	16.1	556	3.26	7.0	0.8	5.5	3.6	21	<0.1	0.2	<0.1	75	0.44	0.048
1294252	Soil				0.9	23.4	8.5	64	<0.1	23.7	15.2	533	3.55	6.8	1.5	18.1	8.5	32	<0.1	0.8	0.1	68	0.79	0.059
1289292	Soil				1.5	17.3	12.7	58	<0.1	18.7	12.8	577	2.72	23.9	1.4	4.2	5.0	37	0.1	0.8	0.1	58	0.75	0.044
1289289	Soil				1.2	9.7	7.9	54	<0.1	11.7	6.9	276	2.33	37.7	0.7	4.2	2.8	23	<0.1	1.3	<0.1	60	0.36	0.027



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

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

**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 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	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
1289777	Soil	19	36	0.75	360	0.131	<1	2.25	0.020	0.10	0.1	0.05	7.2	0.3	<0.05	7	<0.5	<0.2
1289780	Soil	11	30	0.65	247	0.139	<1	1.79	0.019	0.06	0.2	0.04	4.3	0.2	<0.05	6	<0.5	<0.2
1289300	Soil	19	45	0.51	800	0.038	3	1.63	0.020	0.09	0.1	0.08	7.7	0.1	<0.05	5	0.6	<0.2
1289297	Soil	31	46	0.56	353	0.064	<1	1.56	0.018	0.11	0.1	0.08	7.0	0.2	<0.05	5	0.7	<0.2
1289303	Soil	17	84	0.96	368	0.085	2	1.97	0.014	0.12	0.1	0.04	7.3	0.2	<0.05	7	<0.5	<0.2
1289772	Soil	20	37	0.83	532	0.194	<1	2.22	0.023	0.15	0.2	0.04	6.9	0.3	<0.05	7	<0.5	<0.2
1289299	Soil	36	44	0.61	417	0.056	2	1.23	0.017	0.10	0.2	0.19	5.2	0.2	<0.05	4	<0.5	<0.2
1289298	Soil	32	62	0.86	470	0.090	2	1.65	0.019	0.24	0.2	0.11	7.4	0.3	<0.05	5	0.9	<0.2
1289294	Soil	48	31	0.55	463	0.064	2	1.92	0.017	0.08	0.2	0.10	7.1	0.2	<0.05	7	0.9	<0.2
1289757	Soil	11	27	0.51	223	0.085	1	1.66	0.019	0.06	0.1	0.05	4.0	0.2	<0.05	5	<0.5	<0.2
1289311	Soil	16	49	0.84	233	0.106	1	2.14	0.019	0.10	0.2	0.03	5.3	0.2	<0.05	7	0.6	<0.2
1289312	Soil	19	63	1.40	205	0.153	<1	2.53	0.019	0.32	0.1	<0.01	5.3	0.4	<0.05	8	<0.5	0.3
1289302	Soil	12	44	0.46	512	0.033	<1	1.77	0.007	0.09	0.1	0.01	5.5	0.1	<0.05	7	<0.5	0.2
1289295	Soil	35	34	0.60	384	0.073	2	1.70	0.018	0.09	0.2	0.08	6.7	0.2	<0.05	7	0.5	<0.2
1289310	Soil	17	38	0.81	385	0.073	2	1.59	0.024	0.07	0.1	0.05	5.5	0.1	<0.05	5	<0.5	<0.2
1289313	Soil	17	29	0.75	131	0.105	<1	1.61	0.014	0.14	0.1	0.02	3.7	0.2	<0.05	7	<0.5	<0.2
1289293	Soil	18	37	0.61	238	0.076	<1	1.94	0.017	0.07	0.1	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
1289296	Soil	16	33	0.54	526	0.073	<1	1.63	0.016	0.07	0.1	0.04	5.9	0.2	<0.05	6	<0.5	<0.2
1294254	Soil	17	55	1.01	183	0.065	3	1.49	0.011	0.17	<0.1	0.05	3.8	0.3	<0.05	5	<0.5	<0.2
1289301	Rock Pulp	16	573	0.11	143	0.117	3	3.43	0.012	0.05	<0.1	0.03	39.1	<0.1	<0.05	19	<0.5	<0.2
1289275	Soil	17	23	0.59	224	0.059	<1	1.39	0.013	0.06	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
1289291	Soil	29	26	0.63	340	0.055	1	1.59	0.013	0.06	0.2	0.05	5.8	0.1	<0.05	6	<0.5	<0.2
1294253	Soil	28	168	1.82	205	0.110	<1	2.30	0.009	0.40	<0.1	0.03	5.0	0.5	<0.05	7	<0.5	<0.2
1294247	Soil	6	35	0.89	171	0.113	<1	1.60	0.016	0.08	0.1	0.02	3.4	0.1	<0.05	7	<0.5	<0.2
1289276	Soil	18	28	0.66	238	0.062	<1	1.55	0.015	0.06	0.3	0.06	5.0	0.1	<0.05	5	<0.5	<0.2
1289290	Soil	22	23	0.54	264	0.093	1	1.53	0.015	0.15	0.2	0.05	3.9	0.2	<0.05	7	<0.5	<0.2
1294249	Soil	10	45	1.03	285	0.111	1	1.87	0.011	0.15	0.2	0.05	5.1	0.2	<0.05	7	<0.5	<0.2
1294252	Soil	33	42	0.89	374	0.082	<1	1.62	0.012	0.14	0.2	0.03	6.2	0.2	<0.05	6	0.5	<0.2
1289292	Soil	18	30	0.59	317	0.051	<1	1.49	0.014	0.04	0.2	0.03	4.7	0.1	<0.05	5	<0.5	<0.2
1289289	Soil	8	22	0.57	177	0.099	1	1.56	0.010	0.08	0.2	0.04	3.8	0.2	<0.05	8	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

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

Project: **SUG**  
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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	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	%	%
1294261	Soil	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
1294261	Soil	1.2	31.9	20.0	58	0.3	30.5	13.5	295	3.56	92.4	5.7	22.6	12.5	23	0.2	0.9	0.2	60	0.55	0.059
1294256	Soil	0.9	51.1	5.8	80	<0.1	37.6	14.7	581	2.68	16.4	1.0	5.1	3.6	33	0.2	0.5	<0.1	49	1.05	0.058
1294255	Soil	0.4	23.8	15.1	61	<0.1	30.2	15.0	545	2.69	7.3	0.8	9.4	3.2	62	0.3	0.4	0.9	43	1.90	0.054
1294250	Soil	0.8	37.9	8.1	71	0.2	34.6	20.4	755	3.84	5.7	1.7	6.8	5.9	43	0.2	0.4	0.2	68	1.24	0.083
1289317	Soil	0.9	43.2	9.5	59	<0.1	37.0	13.1	464	2.84	5.5	1.2	2.6	3.5	40	0.1	0.4	0.2	55	1.40	0.048
1294248	Soil	0.6	30.2	7.0	55	<0.1	33.2	17.3	412	3.52	7.2	0.8	10.3	3.1	21	<0.1	0.3	<0.1	82	0.39	0.068
1294263	Soil	0.7	29.7	10.4	50	0.1	28.2	12.1	386	2.48	9.1	0.7	9.5	2.0	21	<0.1	0.4	<0.1	62	0.40	0.045
1294244	Soil	1.0	29.8	8.1	78	<0.1	26.6	18.4	653	4.31	6.8	1.3	3.3	19.0	18	0.1	0.6	<0.1	72	0.29	0.061
1289316	Soil	2.1	27.2	24.5	65	<0.1	15.1	9.2	576	2.94	6.2	2.1	2.6	10.1	12	0.1	0.2	0.1	35	0.46	0.043
1294251	Rock Pulp	2.4	23.1	2.1	39	0.2	22.0	10.0	357	2.25	4.6	0.2	3.9	0.7	35	0.1	0.3	<0.1	55	0.70	0.056
1294265	Soil	0.5	37.3	2.8	41	<0.1	40.4	13.7	267	2.47	4.9	0.2	1.9	1.2	11	<0.1	0.6	<0.1	71	0.23	0.015
1294245	Soil	1.3	22.5	8.5	66	<0.1	22.4	15.9	461	4.03	6.6	0.8	4.8	9.0	16	<0.1	0.7	<0.1	86	0.25	0.049
1289314	Soil	1.5	37.3	7.1	73	<0.1	19.0	16.5	636	3.82	6.2	1.1	2.9	3.4	15	0.1	0.2	0.1	72	0.28	0.053
1294264	Soil	1.1	31.7	6.2	46	<0.1	34.0	12.5	329	2.81	12.5	0.3	8.9	1.4	12	<0.1	0.5	<0.1	78	0.23	0.034
1294267	Soil	1.2	33.4	8.2	57	<0.1	26.2	11.2	277	2.64	7.2	1.1	6.1	3.4	22	0.1	0.6	<0.1	60	0.43	0.047
1294262	Soil	1.4	28.8	10.7	57	0.2	33.4	13.8	456	2.76	30.5	1.2	13.4	3.1	23	0.2	0.6	0.1	63	0.44	0.063
1289315	Soil	1.6	35.0	10.5	62	<0.1	11.6	8.0	484	3.91	4.6	1.3	3.7	8.6	17	<0.1	0.2	<0.1	89	0.46	0.036
1294246	Soil	0.9	47.3	4.5	75	<0.1	33.1	34.0	933	5.45	4.1	0.5	2.0	2.2	18	<0.1	0.1	<0.1	125	0.50	0.128
1294266	Soil	1.2	62.6	5.6	46	0.1	72.4	18.3	359	2.85	6.0	0.9	8.3	2.2	16	0.1	0.5	<0.1	75	0.43	0.026
1294257	Soil	0.9	22.6	11.4	72	0.1	41.5	16.2	618	3.23	14.1	0.8	10.1	4.1	17	<0.1	0.4	<0.1	67	0.33	0.052



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Phone (604) 253-3158 Fax (604) 253-1716

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

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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
1294261	Soil	40	51	1.04	171	0.097	<1	2.13	0.011	0.26	0.2	0.05	5.9	0.4	<0.05	7	<0.5	<0.2
1294256	Soil	14	65	1.19	148	0.068	1	1.61	0.011	0.16	0.1	0.02	4.1	0.3	0.06	4	<0.5	<0.2
1294255	Soil	17	53	0.91	163	0.079	1	1.40	0.010	0.16	<0.1	0.03	2.8	0.3	<0.05	4	<0.5	<0.2
1294250	Soil	44	51	1.39	396	0.116	<1	2.18	0.012	0.41	0.1	0.07	7.2	0.3	<0.05	7	<0.5	<0.2
1289317	Soil	14	66	1.14	207	0.071	1	1.67	0.014	0.14	0.3	0.05	5.1	0.2	<0.05	5	<0.5	<0.2
1294248	Soil	10	58	1.22	215	0.104	<1	2.02	0.014	0.13	0.2	0.02	5.2	0.2	<0.05	7	<0.5	<0.2
1294263	Soil	9	48	0.78	186	0.059	<1	1.73	0.013	0.06	0.2	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1294244	Soil	63	54	1.42	187	0.147	<1	2.74	0.009	0.66	0.1	0.04	6.8	0.6	<0.05	8	<0.5	<0.2
1289316	Soil	23	21	0.93	103	0.055	<1	1.47	0.009	0.19	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
1294251	Rock Pulp	3	28	0.73	89	0.088	1	1.32	0.073	0.10	12.4	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1294265	Soil	4	90	1.01	93	0.084	<1	1.66	0.011	0.04	0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
1294245	Soil	15	34	1.04	123	0.147	<1	2.16	0.010	0.24	0.2	0.02	4.2	0.3	<0.05	7	<0.5	<0.2
1289314	Soil	11	40	1.47	145	0.100	<1	2.19	0.009	0.26	0.1	0.02	7.0	0.2	0.06	7	<0.5	<0.2
1294264	Soil	5	67	0.96	88	0.080	1	1.72	0.011	0.05	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
1294267	Soil	14	42	0.72	272	0.090	1	1.75	0.017	0.07	0.2	0.07	5.2	<0.1	<0.05	5	<0.5	<0.2
1294262	Soil	16	53	0.85	214	0.058	2	1.87	0.012	0.07	0.1	0.02	4.8	0.1	0.07	6	<0.5	<0.2
1289315	Soil	22	17	1.55	174	0.116	<1	2.12	0.020	0.51	<0.1	0.02	5.5	0.3	0.31	5	<0.5	<0.2
1294246	Soil	5	63	2.33	221	0.173	<1	2.90	0.011	0.30	<0.1	0.01	5.3	0.2	<0.05	10	<0.5	<0.2
1294266	Soil	10	176	1.24	220	0.076	<1	1.99	0.014	0.06	<0.1	0.06	5.9	0.1	<0.05	6	<0.5	<0.2
1294257	Soil	10	67	1.25	119	0.091	<1	2.02	0.010	0.13	0.2	0.04	4.1	0.2	<0.05	6	<0.5	<0.2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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1020 - 800 West Pender Street

Vancouver BC V6C 2V6 Canada

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## QUALITY CONTROL REPORT

WHI12000690.1

	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	2	0.01	0.001
Pulp Duplicates																					
1294835	Soil	1.2	26.0	24.1	84	0.3	19.7	14.6	466	3.13	24.1	3.0	4.3	7.4	23	0.2	5.9	0.1	87	0.42	0.082
REP 1294835	QC	1.2	25.1	24.2	86	0.3	19.1	14.9	465	3.18	24.3	3.2	4.4	7.6	23	0.3	5.8	0.2	83	0.42	0.082
1294816	Soil	1.1	16.5	16.0	52	<0.1	17.4	8.8	411	2.75	10.3	0.7	5.6	2.7	19	0.2	0.6	0.2	53	0.34	0.047
REP 1294816	QC	1.0	18.5	15.9	56	0.1	18.1	8.9	434	2.83	10.6	0.8	5.7	2.7	20	<0.1	0.6	0.2	56	0.35	0.047
1285745	Soil	0.8	45.5	4.0	68	<0.1	63.7	27.4	1055	5.45	1.0	0.5	0.6	1.7	23	<0.1	0.2	<0.1	163	0.80	0.183
REP 1285745	QC	0.7	44.2	4.1	66	<0.1	59.5	26.8	1039	5.37	1.2	0.5	1.3	1.8	24	<0.1	0.2	<0.1	155	0.78	0.188
1285733	Soil	0.6	26.6	5.9	76	<0.1	42.2	18.1	759	4.21	5.9	0.6	4.0	4.3	39	<0.1	0.6	<0.1	80	0.94	0.083
REP 1285733	QC	0.6	26.4	5.7	73	<0.1	40.9	17.9	745	4.17	5.5	0.6	2.9	4.3	39	0.1	0.6	<0.1	81	0.91	0.082
1285737	Soil	0.7	55.5	26.4	104	<0.1	25.4	14.2	419	3.36	5.7	0.7	1.4	4.0	18	0.1	0.5	0.2	78	0.49	0.060
REP 1285737	QC	0.7	54.6	25.8	104	<0.1	24.5	13.7	412	3.24	5.7	0.6	2.2	4.0	18	0.1	0.5	0.2	77	0.47	0.059
1285593	Soil	0.9	12.6	5.6	65	<0.1	16.7	17.3	662	4.39	3.2	0.8	<0.5	8.4	23	<0.1	0.1	<0.1	109	0.76	0.133
REP 1285593	QC	0.8	12.4	5.5	63	<0.1	16.4	17.2	643	4.34	3.0	0.8	1.6	8.4	23	<0.1	0.2	<0.1	106	0.74	0.132
1285248	Soil	1.2	22.4	8.7	63	0.1	19.0	13.4	531	3.20	62.0	3.0	10.4	7.1	28	0.2	5.7	0.1	84	0.47	0.063
REP 1285248	QC	0.9	23.0	8.4	66	0.1	20.0	14.2	568	3.49	65.5	3.1	11.8	7.2	29	0.2	5.8	0.1	88	0.50	0.067
1289253	Soil	0.7	13.9	7.3	60	0.1	13.8	10.4	299	3.27	24.5	2.2	7.8	4.7	19	0.1	3.4	0.1	72	0.32	0.063
REP 1289253	QC	0.7	14.1	7.6	61	<0.1	15.1	10.4	303	3.40	25.8	2.2	7.5	4.7	20	0.1	3.3	<0.1	71	0.32	0.066
1285232	Soil	0.5	14.4	8.6	60	<0.1	16.2	10.2	294	3.20	20.2	1.7	6.2	6.5	23	0.2	0.7	0.1	86	0.37	0.066
REP 1285232	QC	0.7	13.9	8.4	61	0.1	15.4	10.1	299	3.15	19.9	1.6	5.1	6.1	23	0.1	0.7	0.1	81	0.38	0.063
1285238	Soil	1.0	20.7	8.2	61	0.2	16.9	12.3	837	3.22	29.3	1.9	6.5	4.3	25	<0.1	1.0	0.1	83	0.41	0.077
REP 1285238	QC	1.1	21.2	7.9	60	0.2	18.3	12.6	829	3.24	29.7	1.7	4.4	4.2	26	0.1	0.9	0.1	85	0.41	0.078
1294943	Soil	0.9	30.4	8.1	64	0.1	22.5	10.3	291	3.28	43.7	3.3	9.7	6.2	34	0.2	1.1	<0.1	82	0.50	0.087
REP 1294943	QC	0.9	31.6	8.1	64	0.1	22.1	10.4	290	3.27	42.9	3.4	11.2	6.5	34	0.3	1.0	<0.1	80	0.50	0.091
1294926	Soil	0.4	12.9	55.8	115	0.4	14.9	8.6	279	2.02	19.4	1.3	4.9	4.8	28	0.2	8.9	<0.1	62	0.42	0.059
REP 1294926	QC	0.4	13.3	55.7	112	0.4	15.3	8.8	277	2.07	19.2	1.2	9.5	5.0	27	0.2	9.1	<0.1	62	0.43	0.058
1289926	Soil	1.4	27.8	5.8	62	<0.1	28.4	17.4	609	3.61	6.7	0.6	8.8	2.8	22	<0.1	0.5	<0.1	90	0.49	0.016
REP 1289926	QC	1.5	29.2	6.1	61	<0.1	29.9	17.9	624	3.65	7.0	0.6	0.7	3.0	23	<0.1	0.5	<0.1	94	0.52	0.018
1289918	Soil	2.0	42.5	9.4	78	0.2	38.3	16.4	632	3.36	36.7	1.5	12.7	4.5	33	0.2	4.1	<0.1	74	0.73	0.042
REP 1289918	QC	2.2	42.2	9.6	78	0.2	40.0	16.6	647	3.37	39.1	1.4	8.9	4.5	34	0.2	4.6	<0.1	76	0.73	0.043





Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Kaminak Gold Corporation**

1020 - 800 West Pender Street

Vancouver BC V6C 2V6 Canada

Project: **SUG**

Report Date: **August 25, 2012**

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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	Ti	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																		
1294835	Soil	18	35	0.73	290	0.121	2	1.83	0.015	0.07	0.2	0.05	5.6	0.3	<0.05	6	<0.5	<0.2
REP 1294835	QC	18	35	0.72	287	0.119	2	1.85	0.015	0.07	0.2	0.06	5.5	0.3	<0.05	6	<0.5	<0.2
1294816	Soil	12	27	0.54	224	0.071	1	1.48	0.012	0.05	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
REP 1294816	QC	12	27	0.56	221	0.075	<1	1.50	0.017	0.05	0.2	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
1285745	Soil	7	169	2.95	1179	0.224	2	3.19	0.013	0.88	<0.1	0.01	15.0	0.4	<0.05	10	<0.5	<0.2
REP 1285745	QC	7	165	2.96	1165	0.219	<1	3.17	0.013	0.88	<0.1	<0.01	14.2	0.4	<0.05	10	<0.5	<0.2
1285733	Soil	12	60	1.48	261	0.118	1	2.15	0.012	0.47	0.2	0.03	5.2	0.3	<0.05	8	0.7	<0.2
REP 1285733	QC	11	60	1.48	260	0.119	2	2.15	0.012	0.44	0.1	0.03	5.3	0.3	<0.05	7	<0.5	<0.2
1285737	Soil	14	39	1.09	277	0.086	<1	1.89	0.014	0.09	0.2	0.03	6.5	<0.1	<0.05	6	<0.5	<0.2
REP 1285737	QC	13	38	1.09	272	0.085	<1	1.90	0.014	0.09	0.1	0.03	6.4	0.1	<0.05	6	<0.5	<0.2
1285593	Soil	11	27	1.67	294	0.205	<1	2.35	0.009	0.84	0.1	0.01	5.7	0.5	<0.05	8	<0.5	<0.2
REP 1285593	QC	11	27	1.66	292	0.197	<1	2.28	0.009	0.94	0.1	<0.01	5.6	0.5	<0.05	8	<0.5	<0.2
1285248	Soil	18	32	0.74	393	0.122	1	1.91	0.015	0.09	0.2	0.04	6.2	0.3	<0.05	6	<0.5	<0.2
REP 1285248	QC	18	34	0.74	396	0.133	1	1.99	0.016	0.09	0.1	0.03	6.8	0.3	<0.05	6	<0.5	<0.2
1289253	Soil	11	30	0.64	224	0.115	1	1.74	0.016	0.06	0.1	0.04	4.3	0.2	<0.05	6	<0.5	<0.2
REP 1289253	QC	11	30	0.64	228	0.117	1	1.78	0.015	0.07	0.1	0.05	4.3	0.3	<0.05	6	<0.5	<0.2
1285232	Soil	12	34	0.70	231	0.133	2	2.02	0.016	0.08	0.2	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
REP 1285232	QC	12	33	0.69	231	0.127	2	1.97	0.016	0.08	0.2	0.06	4.4	0.2	<0.05	6	<0.5	<0.2
1285238	Soil	13	36	0.65	315	0.113	1	1.94	0.016	0.08	0.1	0.03	5.5	0.2	<0.05	6	<0.5	<0.2
REP 1285238	QC	13	36	0.64	312	0.113	2	1.97	0.018	0.08	0.1	0.05	5.4	0.2	<0.05	6	<0.5	<0.2
1294943	Soil	17	38	0.68	231	0.135	1	1.73	0.020	0.12	0.2	0.04	6.7	0.2	<0.05	6	<0.5	<0.2
REP 1294943	QC	17	37	0.69	230	0.138	2	1.78	0.021	0.12	0.2	0.03	6.9	0.2	<0.05	6	0.5	<0.2
1294926	Soil	13	32	0.61	203	0.080	2	1.72	0.014	0.05	0.2	0.03	5.2	0.3	<0.05	6	<0.5	<0.2
REP 1294926	QC	13	31	0.59	208	0.082	2	1.79	0.014	0.05	0.2	0.04	5.0	0.3	<0.05	6	<0.5	<0.2
1289926	Soil	12	62	1.34	221	0.166	3	2.17	0.018	0.26	<0.1	0.03	4.7	0.2	<0.05	8	<0.5	<0.2
REP 1289926	QC	12	64	1.34	228	0.173	1	2.29	0.018	0.27	<0.1	0.02	5.4	0.2	<0.05	8	<0.5	<0.2
1289918	Soil	15	57	0.78	1024	0.068	2	1.82	0.020	0.08	0.2	0.08	6.6	0.1	<0.05	6	<0.5	<0.2
REP 1289918	QC	16	58	0.78	1052	0.070	2	1.86	0.020	0.07	0.1	0.05	6.4	0.1	<0.05	6	1.0	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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

**Client:** Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 25, 2012

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## QUALITY CONTROL REPORT

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		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
1289760	Soil	1.1	10.7	7.3	60	0.1	12.8	12.8	625	3.12	14.1	1.6	6.0	5.8	27	0.1	0.9	<0.1	75	0.48
REP 1289760	QC	1.1	10.3	7.5	56	0.1	11.3	13.1	635	3.12	12.4	1.7	7.9	5.9	27	0.1	0.9	<0.1	72	0.45
1289761	Soil	0.4	20.1	11.4	62	<0.1	18.3	10.7	235	3.38	15.7	1.9	5.3	8.7	24	0.1	0.8	0.1	85	0.40
REP 1289761	QC	0.5	20.2	10.4	64	<0.1	17.6	11.1	245	3.43	16.2	1.9	8.2	8.7	26	0.2	0.9	0.1	85	0.42
1289317	Soil	0.9	43.2	9.5	59	<0.1	37.0	13.1	464	2.84	5.5	1.2	2.6	3.5	40	0.1	0.4	0.2	55	1.40
REP 1289317	QC	0.5	43.0	9.5	61	<0.1	39.1	12.8	478	2.87	6.1	1.2	2.6	3.6	39	0.2	0.3	0.2	56	1.40
1294257	Soil	0.9	22.6	11.4	72	0.1	41.5	16.2	618	3.23	14.1	0.8	10.1	4.1	17	<0.1	0.4	<0.1	67	0.33
REP 1294257	QC	0.8	23.2	11.7	71	0.1	39.8	16.1	614	3.19	14.2	0.8	9.6	4.2	17	<0.1	0.4	<0.1	67	0.30
Reference Materials																				
STD DS9	Standard	13.8	111.0	123.4	311	1.9	39.7	7.8	592	2.48	24.3	2.6	128.0	6.4	67	2.7	5.8	6.4	41	0.70
STD DS9	Standard	11.9	101.2	118.9	295	2.0	38.1	6.7	558	2.27	24.0	2.6	112.8	6.0	63	2.3	5.4	4.7	38	0.67
STD DS9	Standard	12.8	104.5	123.9	304	1.8	40.1	7.6	571	2.28	24.7	2.9	133.7	6.3	66	2.0	5.9	6.2	43	0.72
STD DS9	Standard	13.6	107.3	124.9	317	1.8	39.4	7.5	593	2.39	26.0	2.8	136.7	6.6	83	2.4	6.4	6.5	40	0.73
STD DS9	Standard	12.2	102.9	120.0	297	1.7	37.3	6.9	546	2.18	25.4	2.6	124.5	6.1	71	2.1	6.1	6.3	38	0.66
STD DS9	Standard	12.0	91.4	105.5	284	1.7	37.2	7.1	542	2.21	24.2	2.1	119.8	5.4	58	2.3	4.7	4.7	38	0.66
STD DS9	Standard	13.4	103.7	119.0	308	1.7	37.8	7.7	595	2.34	24.9	3.0	120.5	6.9	79	2.4	5.6	6.2	39	0.75
STD DS9	Standard	14.6	110.7	125.4	308	1.8	41.9	7.7	586	2.35	24.6	2.8	137.3	6.9	69	2.4	5.6	4.8	43	0.73
STD DS9	Standard	11.7	106.4	120.2	308	1.8	40.1	7.5	531	2.23	25.8	2.5	137.5	5.7	65	2.1	5.7	4.7	38	0.66
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
BLK	Blank	<0.1	0.2	<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	0.8	<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
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	0.1	<0.1	2	0.02	1.0	<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



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Kaminak Gold Corporation**

1020 - 800 West Pender Street

Vancouver BC V6C 2V6 Canada

Project: **SUG**

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## QUALITY CONTROL REPORT

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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1289760	Soil	13	27	0.66	235	0.110	3	1.80	0.021	0.08	0.2	0.03	4.8	0.3	<0.05	6	<0.5	<0.2
REP 1289760	QC	13	27	0.66	228	0.107	1	1.78	0.021	0.07	0.2	0.04	4.6	0.2	<0.05	6	0.5	<0.2
1289761	Soil	16	36	0.76	244	0.156	1	2.30	0.019	0.10	0.2	0.02	5.8	0.2	<0.05	7	<0.5	<0.2
REP 1289761	QC	16	36	0.78	244	0.160	2	2.41	0.020	0.10	0.1	0.02	5.9	0.2	<0.05	7	0.5	<0.2
1289317	Soil	14	66	1.14	207	0.071	1	1.67	0.014	0.14	0.3	0.05	5.1	0.2	<0.05	5	<0.5	<0.2
REP 1289317	QC	14	68	1.13	203	0.073	<1	1.66	0.013	0.15	0.3	0.06	5.4	0.2	0.09	5	0.5	<0.2
1294257	Soil	10	67	1.25	119	0.091	<1	2.02	0.010	0.13	0.2	0.04	4.1	0.2	<0.05	6	<0.5	<0.2
REP 1294257	QC	10	67	1.23	121	0.090	<1	2.08	0.009	0.12	0.2	0.04	3.9	0.2	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	13	124	0.63	305	0.113	3	0.90	0.092	0.36	3.2	0.23	2.6	5.6	0.18	5	5.4	4.7
STD DS9	Standard	12	113	0.59	280	0.098	2	0.86	0.092	0.34	2.8	0.21	2.4	5.5	0.15	5	5.1	4.5
STD DS9	Standard	13	123	0.62	301	0.111	3	0.92	0.091	0.37	2.8	0.22	2.8	5.5	0.17	4	5.3	4.9
STD DS9	Standard	14	116	0.65	322	0.116	1	0.96	0.089	0.37	3.0	0.21	2.8	5.8	0.15	5	5.0	5.5
STD DS9	Standard	11	117	0.58	288	0.101	3	0.83	0.068	0.34	3.0	0.21	2.3	5.4	0.13	4	4.7	4.1
STD DS9	Standard	10	114	0.58	282	0.095	2	0.87	0.080	0.38	2.7	0.18	2.1	5.3	0.10	4	5.1	5.2
STD DS9	Standard	15	116	0.62	319	0.121	<1	0.99	0.088	0.38	3.2	0.20	3.6	5.5	0.12	5	4.9	5.3
STD DS9	Standard	15	123	0.66	300	0.116	4	0.97	0.083	0.36	3.2	0.18	2.7	6.1	0.14	5	4.6	4.6
STD DS9	Standard	10	116	0.59	279	0.096	2	0.84	0.081	0.36	2.7	0.24	2.7	5.7	0.15	4	6.1	5.1
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
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	2	<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