



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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 27, 2012

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CERTIFICATE OF ANALYSIS

WHI12000699.1

CLIENT JOB INFORMATION

Project: CFC
Shipment ID: 2012-SUG04
P.O. Number: KGC-12-1730
Number of Samples: 130

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
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Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	130	Dry at 60C			WHI
SS80	129	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	130	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
		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
1286882	Soil	0.5	27.0	11.3	53	<0.1	30.8	11.8	501	3.34	10.6	1.5	2.5	15.5	29	<0.1	0.5	0.3	68	0.51
1286888	Soil	0.6	7.3	2.9	59	<0.1	25.2	20.0	525	4.34	3.7	5.9	1.2	6.9	23	<0.1	0.2	<0.1	65	0.52
1286872	Soil	1.2	10.3	8.7	34	<0.1	14.3	7.9	314	2.19	8.7	0.5	0.9	8.7	16	<0.1	0.5	0.1	54	0.20
1286890	Soil	0.8	17.9	4.6	53	<0.1	36.1	18.5	303	3.84	6.4	3.5	3.0	9.6	24	<0.1	0.5	0.2	65	0.37
1286856	Soil	0.4	22.4	7.9	55	<0.1	41.4	11.3	376	3.80	5.5	4.3	<0.5	14.0	11	0.1	0.4	0.2	74	0.16
1286887	Soil	0.7	12.8	5.4	60	<0.1	62.6	19.2	628	4.38	6.5	2.2	<0.5	8.2	34	<0.1	0.3	<0.1	90	0.67
1289420	Soil	0.7	11.7	10.0	27	<0.1	15.7	6.3	493	1.56	8.4	0.8	0.7	20.0	11	<0.1	0.4	0.1	30	0.12
1289423	Soil	1.0	10.5	11.6	38	<0.1	15.5	6.3	299	2.05	17.8	1.2	<0.5	11.3	16	<0.1	0.5	0.1	48	0.20
1286868	Soil	0.3	6.3	7.6	30	<0.1	3.5	2.0	117	1.28	9.8	0.8	<0.5	20.2	6	<0.1	0.2	0.1	12	0.07
1286889	Soil	0.9	16.0	6.6	38	<0.1	20.6	10.2	251	2.86	5.7	3.5	5.0	7.5	23	<0.1	0.4	0.2	62	0.33
1286885	Soil	0.7	21.6	10.5	41	<0.1	21.9	8.6	272	2.71	8.2	2.0	2.8	7.6	23	<0.1	0.5	0.2	63	0.33
1289427	Soil	1.1	12.5	9.5	37	<0.1	16.8	7.1	473	2.38	7.8	0.5	<0.5	8.1	18	<0.1	0.5	0.1	57	0.21
1289421	Soil	0.8	13.2	14.7	39	<0.1	22.8	8.0	279	2.34	19.9	1.0	<0.5	9.3	17	<0.1	0.4	0.1	58	0.20
1286884	Soil	0.7	22.6	9.9	45	<0.1	21.1	10.9	256	2.87	8.3	1.5	2.3	13.0	25	<0.1	0.6	0.2	66	0.34
1286867	Soil	1.2	13.5	12.3	37	<0.1	17.8	7.3	251	2.24	16.5	1.2	1.8	16.3	14	<0.1	0.5	0.1	51	0.14
1286886	Soil	0.8	13.6	8.2	37	<0.1	19.1	8.4	190	2.83	10.2	0.3	2.0	3.7	16	<0.1	0.5	0.1	66	0.19
1289006	Soil	0.3	36.4	8.3	75	<0.1	48.3	16.1	529	3.69	2.4	0.3	1.1	3.7	68	<0.1	0.2	<0.1	47	1.73
1289850	Soil	0.7	5.4	7.8	39	<0.1	7.8	4.5	131	1.44	3.3	0.8	<0.5	17.5	7	<0.1	0.2	0.2	29	0.12
1289008	Soil	0.4	29.9	4.7	80	<0.1	66.9	20.7	207	4.23	1.9	0.4	<0.5	11.0	12	<0.1	0.3	<0.1	60	0.22
1286883	Soil	1.1	12.8	11.7	44	<0.1	14.5	9.1	251	2.81	11.1	0.5	<0.5	5.1	19	<0.1	0.5	0.2	61	0.31
1286870	Soil	1.7	7.3	6.8	28	<0.1	9.7	3.9	135	1.75	7.2	1.7	<0.5	28.0	9	<0.1	0.5	0.1	30	0.10
1286877	Soil	0.9	13.1	31.7	39	0.2	17.5	7.3	244	2.24	7.1	0.4	0.6	3.5	17	<0.1	0.5	0.2	55	0.24
1286881	Soil	0.5	13.4	6.8	44	<0.1	10.9	9.6	435	3.32	8.5	2.0	1.2	19.3	23	<0.1	0.5	0.2	70	0.41
1286880	Soil	0.8	15.4	10.3	44	<0.1	18.7	9.5	253	3.05	10.4	0.9	3.1	13.6	20	<0.1	0.5	0.2	63	0.26
1286871	Soil	3.0	15.5	11.4	39	<0.1	16.9	6.8	240	2.58	12.5	1.1	1.7	19.9	14	<0.1	0.6	0.2	48	0.15
1286879	Soil	0.8	18.6	13.3	56	<0.1	16.0	12.8	326	4.20	42.4	1.0	0.8	10.1	33	<0.1	0.7	0.4	95	0.34
1286878	Soil	1.0	12.3	15.3	34	0.1	14.8	7.7	235	2.20	7.4	0.7	1.7	6.4	17	<0.1	0.6	0.2	50	0.21
1286873	Soil	1.0	12.4	7.2	32	<0.1	13.6	6.2	432	2.08	8.2	0.7	1.1	7.5	15	<0.1	0.5	0.2	45	0.17
1289424	Soil	0.8	14.6	9.1	36	<0.1	18.4	7.9	239	2.44	10.4	0.8	<0.5	9.8	18	<0.1	0.4	0.1	56	0.21
1286866	Soil	0.6	6.8	8.9	20	<0.1	7.9	3.6	117	1.35	23.9	1.4	<0.5	21.1	10	<0.1	0.4	0.1	24	0.11



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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
1286882	Soil	35	77	1.03	288	0.101	<1	1.94	0.018	0.34	0.2	0.06	8.9	0.3	<0.05	7	<0.5
1286888	Soil	20	56	1.85	542	0.147	<1	2.67	0.015	1.38	<0.1	0.01	7.0	0.6	<0.05	9	<0.5
1286872	Soil	11	26	0.37	195	0.045	<1	1.39	0.009	0.04	0.1	0.02	2.3	<0.1	<0.05	5	<0.5
1286890	Soil	25	109	1.37	327	0.111	<1	2.27	0.009	0.37	<0.1	0.05	9.1	0.3	<0.05	8	<0.5
1286856	Soil	49	76	1.17	304	0.131	<1	1.90	0.010	0.93	<0.1	0.06	10.8	0.5	<0.05	9	<0.5
1286887	Soil	20	247	2.44	484	0.115	<1	3.14	0.013	0.48	0.1	0.04	10.9	0.4	<0.05	10	<0.5
1289420	Soil	13	23	0.18	105	0.020	<1	0.75	0.005	0.05	0.1	0.02	2.7	0.1	<0.05	3	<0.5
1289423	Soil	9	27	0.41	178	0.042	<1	1.45	0.008	0.04	0.1	<0.01	2.5	0.1	<0.05	4	<0.5
1286868	Soil	26	7	0.18	48	0.007	<1	0.74	0.002	0.06	<0.1	0.03	2.1	0.1	<0.05	3	<0.5
1286889	Soil	22	43	0.81	302	0.087	<1	1.77	0.012	0.11	<0.1	0.03	6.2	0.1	<0.05	6	<0.5
1286885	Soil	23	40	0.64	269	0.075	<1	1.65	0.015	0.09	0.1	0.03	6.2	0.1	<0.05	5	<0.5
1289427	Soil	10	29	0.44	232	0.049	<1	1.65	0.010	0.05	0.1	0.01	2.6	0.1	<0.05	6	<0.5
1289421	Soil	9	34	0.48	242	0.048	<1	1.63	0.009	0.04	<0.1	0.01	3.2	0.2	<0.05	5	<0.5
1286884	Soil	33	47	0.70	296	0.099	<1	1.94	0.012	0.11	0.1	0.03	7.0	0.1	<0.05	6	<0.5
1286867	Soil	19	32	0.39	160	0.044	<1	1.55	0.008	0.04	<0.1	0.02	3.4	0.1	<0.05	5	<0.5
1286886	Soil	6	40	0.54	196	0.068	<1	1.99	0.009	0.07	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5
1289006	Soil	8	73	1.13	195	0.137	<1	1.87	0.009	0.50	<0.1	0.02	2.1	0.3	<0.05	5	<0.5
1289850	Soil	37	15	0.22	99	0.023	<1	1.12	0.006	0.10	0.1	<0.01	1.3	0.2	<0.05	5	<0.5
1289008	Soil	22	90	1.39	304	0.157	<1	2.47	0.009	1.09	<0.1	<0.01	3.3	0.5	<0.05	10	<0.5
1286883	Soil	10	44	0.80	210	0.081	1	1.87	0.008	0.15	0.1	0.01	4.7	0.2	<0.05	6	<0.5
1286870	Soil	12	17	0.32	106	0.039	<1	1.29	0.006	0.09	0.1	0.01	1.9	0.1	<0.05	4	<0.5
1286877	Soil	9	30	0.43	220	0.050	<1	1.46	0.009	0.04	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5
1286881	Soil	48	19	1.08	271	0.131	<1	1.89	0.009	0.54	0.2	0.04	9.0	0.4	<0.05	7	<0.5
1286880	Soil	26	41	0.66	225	0.079	<1	2.00	0.010	0.10	<0.1	0.04	5.6	0.1	<0.05	6	<0.5
1286871	Soil	16	28	0.43	190	0.047	<1	1.75	0.008	0.09	0.1	0.03	2.4	0.2	<0.05	5	<0.5
1286879	Soil	28	39	1.05	300	0.102	<1	2.39	0.007	0.27	0.2	0.03	8.9	0.4	<0.05	8	<0.5
1286878	Soil	14	30	0.41	196	0.061	<1	1.29	0.010	0.07	0.1	0.01	3.2	0.1	<0.05	4	<0.5
1286873	Soil	18	24	0.32	172	0.042	<1	1.11	0.009	0.05	0.1	0.02	3.1	<0.1	<0.05	4	<0.5
1289424	Soil	11	36	0.49	187	0.059	<1	1.61	0.008	0.05	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5
1286866	Soil	15	13	0.19	94	0.017	<1	0.91	0.005	0.04	<0.1	0.03	1.8	<0.1	<0.05	3	<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	2	0.01	0.001
1286869	Soil	1.3	10.0	10.4	46	<0.1	13.0	7.2	681	2.23	19.2	0.8	5.9	10.8	14	<0.1	0.6	0.1	50	0.18	0.020
1286874	Soil	1.4	10.0	24.1	39	<0.1	11.7	8.2	523	2.73	6.8	1.0	<0.5	6.7	17	<0.1	0.8	0.2	58	0.29	0.033
1289849	Soil	0.5	25.9	5.3	79	<0.1	54.0	18.3	474	4.39	5.5	0.4	<0.5	9.1	16	<0.1	0.2	<0.1	66	0.28	0.063
1289020	Soil	0.8	9.4	6.4	55	<0.1	16.5	7.6	221	2.41	5.5	0.3	2.0	5.6	10	<0.1	0.4	<0.1	45	0.13	0.023
1289014	Soil	1.0	27.5	27.0	59	<0.1	30.6	11.1	425	2.80	199.1	1.3	9.7	13.6	16	<0.1	2.2	0.1	40	0.24	0.036
1289023	Soil	1.2	42.7	6.6	86	<0.1	41.4	15.4	538	3.93	8.8	0.8	<0.5	5.6	18	0.1	0.3	<0.1	102	0.34	0.059
1289007	Soil	0.4	43.7	4.2	99	<0.1	107.0	26.2	812	5.20	2.0	0.3	<0.5	6.4	19	<0.1	<0.1	<0.1	65	0.55	0.065
1289027	Soil	0.7	41.2	9.0	65	<0.1	55.3	17.4	215	3.83	4.0	1.5	3.2	14.4	15	<0.1	0.4	0.2	63	0.32	0.048
1289011	Soil	0.5	21.7	12.3	54	0.1	45.9	14.1	640	3.05	2.9	0.9	1.3	4.3	80	<0.1	0.2	<0.1	50	6.18	0.067
1289019	Soil	0.7	38.6	12.5	53	0.2	49.2	16.2	461	3.64	5.6	1.3	1.5	9.0	67	0.1	0.4	0.1	44	4.07	0.054
1289030	Soil	1.1	35.1	12.6	60	<0.1	40.4	15.1	431	3.99	16.7	0.6	1.5	6.5	18	<0.1	1.5	0.2	79	0.33	0.028
1289848	Soil	1.4	52.6	13.0	106	<0.1	52.5	21.1	634	6.26	20.0	2.0	0.7	13.5	22	<0.1	0.9	0.1	23	0.22	0.018
1289005	Soil	0.5	55.8	5.9	97	<0.1	59.6	29.2	603	4.81	0.7	1.2	1.5	11.6	21	<0.1	<0.1	<0.1	55	0.40	0.075
1289013	Soil	0.6	45.8	16.6	103	0.2	64.1	24.2	1084	5.35	67.3	1.2	4.8	14.6	28	<0.1	2.1	0.2	62	2.04	0.150
1289010	Soil	1.2	35.5	12.2	68	0.1	94.9	24.5	901	5.10	67.9	0.8	3.6	6.0	21	<0.1	1.7	0.1	49	1.08	0.030
1289016	Soil	0.5	17.8	8.0	41	<0.1	38.5	10.0	275	2.85	7.0	0.8	2.0	8.5	23	<0.1	0.6	0.1	47	0.38	0.035
1289004	Soil	0.3	45.8	7.0	106	<0.1	74.4	19.3	424	5.04	2.1	1.1	1.8	13.0	27	<0.1	0.1	<0.1	53	0.42	0.045
1289012	Soil	1.4	39.3	14.7	45	0.4	65.6	22.9	661	3.60	38.7	0.7	10.8	3.7	89	0.1	3.4	0.1	47	4.80	0.044
1289022	Soil	0.4	47.4	5.4	89	<0.1	52.3	20.4	295	4.85	1.7	1.1	0.9	10.1	20	<0.1	0.3	<0.1	46	0.44	0.040
1289018	Soil	0.8	40.9	9.5	46	<0.1	39.3	17.6	248	2.91	6.2	0.3	0.7	2.5	24	<0.1	0.4	0.1	60	0.45	0.068
1289026	Soil	1.8	34.8	9.4	96	<0.1	40.5	14.8	405	3.70	6.0	0.7	1.2	5.4	20	0.3	0.3	0.1	73	0.41	0.058
1289495	Soil	2.7	70.4	10.0	155	0.3	82.2	18.9	501	4.34	18.3	1.5	1.0	7.7	18	0.3	1.3	0.2	89	0.51	0.078
1289017	Soil	0.8	32.5	5.9	76	<0.1	49.6	17.0	442	4.11	3.3	0.6	1.6	6.7	19	<0.1	0.2	<0.1	46	0.29	0.039
1289029	Soil	0.6	40.1	10.4	72	<0.1	58.5	19.8	220	4.07	4.8	1.2	1.3	16.8	17	<0.1	0.4	0.2	59	0.30	0.025
1289015	Soil	0.6	38.7	6.4	91	<0.1	58.3	22.3	367	4.56	3.0	1.1	1.9	12.4	24	1.4	1.0	0.2	69	0.48	0.098
1289454	Soil	2.9	74.5	11.0	137	0.2	61.8	18.3	525	4.34	27.5	1.6	2.6	8.9	23	0.2	0.5	0.2	66	0.67	0.059
1289009	Soil	0.6	38.1	2.5	74	<0.1	57.0	21.8	533	4.72	1.2	0.6	1.0	9.0	20	<0.1	<0.1	<0.1	47	0.30	0.049
1289003	Soil	0.5	29.3	28.0	71	<0.1	50.0	17.2	608	3.97	42.3	1.3	<0.5	14.4	15	<0.1	0.9	0.2	27	0.29	0.035
1289002	Soil	0.8	16.6	13.2	61	<0.1	25.0	11.7	334	3.29	5.8	1.3	6.0	14.6	20	<0.1	0.4	0.1	44	0.35	0.050
1289451	Rock Pulp	2.3	24.7	2.2	42	0.3	23.7	10.1	356	2.31	4.4	0.2	5.1	0.9	36	0.1	0.3	<0.1	60	0.80	0.056



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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
1286869	Soil	12	23	0.35	166	0.043	<1	1.40	0.008	0.06	<0.1	0.03	2.1	0.1	<0.05	6	<0.5
1286874	Soil	17	38	0.73	216	0.086	<1	1.45	0.008	0.16	0.2	0.01	3.3	0.2	<0.05	6	<0.5
1289849	Soil	20	85	1.24	293	0.135	<1	2.52	0.008	0.98	<0.1	0.01	5.2	0.4	<0.05	9	<0.5
1289020	Soil	9	30	0.59	98	0.073	<1	1.59	0.008	0.24	0.1	0.01	1.9	0.3	<0.05	6	<0.5
1289014	Soil	52	33	0.46	147	0.021	<1	1.37	0.007	0.14	<0.1	0.01	4.9	0.2	<0.05	5	<0.5
1289023	Soil	11	60	1.01	336	0.135	<1	2.09	0.008	0.59	0.1	0.03	4.9	0.4	<0.05	8	<0.5
1289007	Soil	18	110	2.14	269	0.237	2	2.82	0.008	1.46	0.1	<0.01	3.0	0.7	<0.05	7	<0.5
1289027	Soil	53	68	1.17	94	0.119	2	2.10	0.020	0.32	0.1	0.03	5.3	0.3	<0.05	8	<0.5
1289011	Soil	14	57	1.93	174	0.111	2	2.14	0.007	0.55	<0.1	0.02	4.2	0.4	<0.05	7	<0.5
1289019	Soil	33	45	0.67	153	0.028	2	1.48	0.010	0.14	0.2	0.04	5.5	0.2	<0.05	5	<0.5
1289030	Soil	22	51	0.68	312	0.068	2	1.70	0.010	0.34	0.1	0.02	7.9	0.2	<0.05	5	<0.5
1289848	Soil	42	17	0.16	290	0.002	2	0.60	0.003	0.07	<0.1	0.18	8.5	0.1	<0.05	1	<0.5
1289005	Soil	28	80	1.28	168	0.209	1	2.28	0.006	1.09	<0.1	<0.01	3.4	0.9	<0.05	8	<0.5
1289013	Soil	103	44	0.21	150	0.002	1	0.79	0.003	0.12	<0.1	0.10	15.3	0.3	<0.05	2	<0.5
1289010	Soil	28	49	0.51	192	0.023	1	1.43	0.008	0.08	<0.1	0.02	10.6	0.1	<0.05	4	<0.5
1289016	Soil	30	40	0.67	181	0.043	<1	1.53	0.010	0.08	0.1	0.02	4.7	0.1	<0.05	4	<0.5
1289004	Soil	38	92	1.22	154	0.102	<1	2.44	0.007	0.87	<0.1	0.02	6.7	0.7	<0.05	10	<0.5
1289012	Soil	18	50	0.54	181	0.033	2	1.22	0.010	0.14	0.1	0.05	9.1	0.1	<0.05	4	<0.5
1289022	Soil	31	50	1.18	209	0.195	<1	2.38	0.008	0.88	<0.1	<0.01	2.5	0.5	<0.05	7	<0.5
1289018	Soil	7	85	0.77	180	0.074	<1	1.64	0.008	0.09	0.1	<0.01	5.0	0.2	<0.05	5	<0.5
1289026	Soil	14	56	0.89	153	0.096	2	1.74	0.011	0.56	0.2	<0.01	4.4	0.3	<0.05	6	<0.5
1289495	Soil	27	85	0.71	438	0.044	2	1.74	0.005	0.41	0.1	0.03	8.4	0.3	<0.05	6	1.0
1289017	Soil	11	61	1.18	191	0.185	<1	2.15	0.007	0.94	<0.1	<0.01	1.6	0.5	<0.05	6	<0.5
1289029	Soil	39	60	1.11	107	0.162	1	2.23	0.010	0.77	<0.1	0.01	4.9	0.6	<0.05	7	<0.5
1289015	Soil	26	85	1.45	255	0.178	2	3.85	0.011	1.13	0.1	<0.01	3.9	0.6	<0.05	9	<0.5
1289454	Soil	31	51	0.68	239	0.038	1	1.53	0.008	0.41	0.2	0.02	6.0	0.2	<0.05	5	0.5
1289009	Soil	13	74	1.17	193	0.225	<1	2.19	0.007	1.22	<0.1	<0.01	2.4	0.6	<0.05	7	<0.5
1289003	Soil	39	28	0.13	106	0.002	1	0.75	0.002	0.13	<0.1	0.11	10.1	0.2	<0.05	2	<0.5
1289002	Soil	22	48	0.84	125	0.040	1	1.70	0.008	0.30	<0.1	0.01	4.9	0.2	<0.05	7	<0.5
1289451	Rock Pulp	4	30	0.78	92	0.107	2	1.46	0.077	0.11	13.4	0.01	4.3	<0.1	<0.05	5	<0.5



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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
			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
1289028	Soil		0.8	57.5	26.2	81	<0.1	65.1	23.5	340	5.23	7.2	1.4	3.8	17.1	12	<0.1	0.4	0.3	80
1289024	Soil		1.7	58.8	4.4	227	0.3	88.1	24.2	630	5.38	1.8	1.7	3.5	8.3	22	0.4	0.2	<0.1	77
1289021	Soil		0.1	23.0	6.7	10	0.1	21.9	7.4	71	1.19	0.9	0.8	0.7	1.6	439	<0.1	0.1	<0.1	8
1289025	Soil		1.4	32.7	11.3	93	0.1	44.3	17.1	496	3.98	7.3	0.6	2.8	5.4	21	0.2	0.3	0.1	66
1289491	Soil		1.3	18.1	6.2	62	0.1	23.2	12.9	421	3.62	10.3	0.7	1.0	3.2	69	<0.1	0.5	0.2	84
1289457	Soil		0.8	53.8	4.0	126	<0.1	79.4	29.3	783	6.24	66.1	0.6	<0.5	7.1	22	<0.1	<0.1	<0.1	86
1289471	Soil		0.8	22.9	10.5	52	<0.1	314.5	24.5	534	3.63	20.6	1.1	1.4	14.4	29	<0.1	0.9	0.2	52
1289463	Soil		0.8	54.7	18.3	72	0.1	62.7	24.3	642	4.24	1285	1.2	1.3	8.8	114	0.3	4.5	0.1	63
1289492	Soil		1.5	27.8	11.3	178	0.2	35.7	11.6	350	3.22	35.3	1.0	2.0	4.5	20	0.6	0.9	0.3	52
1289456	Soil		1.2	58.5	12.9	106	<0.1	77.1	23.7	605	6.03	116.3	1.0	1.7	15.3	15	<0.1	1.1	0.2	88
1289459	Soil		0.5	39.9	8.4	69	<0.1	68.4	34.8	499	3.46	233.3	0.5	<0.5	8.7	65	<0.1	0.2	<0.1	52
1289462	Soil		1.4	30.9	11.5	73	<0.1	49.5	16.2	674	4.21	66.4	1.1	1.3	9.3	27	<0.1	1.5	0.1	69
1289493	Soil		2.3	47.7	7.8	82	0.4	38.0	14.1	1181	3.38	18.4	0.8	1.3	3.6	16	0.5	0.7	0.2	59
1289455	Soil		0.7	46.0	3.3	113	<0.1	68.4	26.9	803	5.76	43.5	0.6	0.8	6.7	17	<0.1	0.2	<0.1	64
1289460	Soil		1.1	28.4	9.5	55	<0.1	42.5	15.3	1246	4.17	161.0	1.2	4.1	8.2	24	0.1	1.9	0.1	76
1289461	Soil		0.5	32.5	6.6	61	0.1	34.7	14.4	663	3.10	68.1	0.6	3.2	3.8	30	0.2	0.8	0.1	54
1289494	Soil		1.8	33.2	6.5	102	0.3	34.7	13.8	521	3.22	12.6	0.6	1.5	3.1	20	0.5	0.6	0.1	77
1289490	Soil		0.7	40.0	11.5	87	<0.1	52.8	19.5	614	5.05	6.5	1.2	0.9	11.6	17	0.1	0.4	0.3	51
1289458	Soil		0.8	43.4	6.2	97	<0.1	53.6	19.7	464	5.19	398.3	0.6	2.6	7.9	23	<0.1	0.3	<0.1	61
1289472	Soil		1.2	23.5	11.8	50	<0.1	22.5	11.1	346	2.97	11.0	1.1	1.7	12.5	19	<0.1	0.6	0.2	58
1289473	Soil		1.1	17.4	10.3	69	<0.1	18.6	14.9	643	3.89	11.3	0.9	1.2	6.0	19	<0.1	1.0	0.1	74
1289466	Soil		0.2	39.8	3.2	127	<0.1	66.9	20.5	710	3.70	28.3	0.9	1.8	5.1	23	<0.1	0.3	<0.1	42
1289452	Soil		0.6	28.7	7.1	50	<0.1	28.8	13.4	503	4.34	48.8	2.9	1.3	5.0	23	<0.1	0.8	2.0	69
1289122	Soil		1.1	9.2	10.4	28	<0.1	11.3	4.3	167	1.78	10.8	1.0	1.7	5.8	13	0.1	0.8	0.2	50
1289475	Soil		1.3	87.7	8.9	78	0.1	112.1	32.6	891	5.74	325.0	0.9	2.2	6.0	38	0.1	3.2	0.1	95
1289465	Soil		0.7	27.0	26.9	56	<0.1	15.9	7.9	344	2.59	13.1	1.5	2.1	13.7	18	0.2	0.6	0.1	50
1285700	Soil		0.3	46.1	10.8	52	<0.1	44.9	14.1	381	3.63	17.5	4.1	1.1	16.5	20	<0.1	0.5	0.3	52
1289129	Soil		0.8	9.9	6.1	35	<0.1	15.4	11.1	238	3.14	6.0	0.2	1.1	1.4	17	<0.1	0.2	0.1	72
1289474	Soil		1.7	33.2	14.4	80	<0.1	54.8	23.3	816	5.00	714.2	0.9	2.3	11.3	19	0.2	3.9	0.2	57
1289468	Soil		0.2	42.0	6.6	63	<0.1	43.8	16.1	329	4.10	6.8	0.8	1.1	16.1	15	<0.1	0.1	0.1	57



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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
1289028	Soil	29	82	1.39	126	0.168	1	2.67	0.007	0.88	<0.1	0.02	7.0	0.5	<0.05	10	<0.5	<0.2
1289024	Soil	29	67	1.36	358	0.220	<1	2.49	0.010	1.16	<0.1	0.02	3.6	0.8	<0.05	7	<0.5	<0.2
1289021	Soil	5	10	0.14	55	0.013	1	0.19	0.004	0.01	<0.1	0.03	1.9	<0.1	<0.05	<1	<0.5	<0.2
1289025	Soil	16	59	0.97	185	0.110	1	1.95	0.011	0.74	0.1	0.03	4.8	0.4	<0.05	6	<0.5	<0.2
1289491	Soil	9	98	0.57	822	0.052	2	1.40	0.010	0.24	0.1	0.02	9.8	0.2	<0.05	4	0.5	<0.2
1289457	Soil	7	112	2.02	131	0.206	<1	2.82	0.006	1.44	0.2	<0.01	4.6	0.7	<0.05	8	<0.5	<0.2
1289471	Soil	56	335	1.39	191	0.055	3	1.84	0.014	0.15	<0.1	0.02	7.3	0.2	<0.05	7	<0.5	<0.2
1289463	Soil	38	76	0.73	143	0.019	2	1.29	0.012	0.05	<0.1	0.03	8.1	<0.1	<0.05	6	<0.5	<0.2
1289492	Soil	15	34	0.37	677	0.027	<1	1.52	0.009	0.08	0.2	0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1289456	Soil	43	82	0.91	117	0.065	1	1.53	0.004	0.68	0.1	0.02	15.5	0.4	<0.05	6	<0.5	<0.2
1289459	Soil	28	57	1.03	534	0.024	4	1.94	0.004	0.26	<0.1	0.02	7.1	0.2	<0.05	6	<0.5	<0.2
1289462	Soil	25	74	0.98	160	0.020	1	1.95	0.008	0.04	<0.1	<0.01	6.1	<0.1	<0.05	9	<0.5	<0.2
1289493	Soil	11	35	0.50	738	0.057	3	1.34	0.010	0.27	0.2	0.02	5.5	0.2	<0.05	5	0.6	<0.2
1289455	Soil	23	82	1.97	177	0.164	1	2.55	0.005	1.52	0.1	0.01	4.1	0.9	<0.05	6	<0.5	<0.2
1289460	Soil	32	43	0.31	486	0.015	2	1.19	0.010	0.05	0.1	0.03	13.5	0.6	<0.05	4	<0.5	<0.2
1289461	Soil	19	38	0.52	246	0.041	2	1.37	0.017	0.05	0.1	0.04	5.5	<0.1	<0.05	4	<0.5	<0.2
1289494	Soil	10	44	0.68	564	0.078	2	1.62	0.010	0.43	0.1	0.01	5.6	0.3	<0.05	5	0.7	<0.2
1289490	Soil	30	55	0.89	340	0.027	1	1.76	0.006	0.35	<0.1	<0.01	6.8	0.1	<0.05	7	<0.5	<0.2
1289458	Soil	17	83	1.21	218	0.080	2	2.27	0.006	0.69	<0.1	0.01	7.9	0.6	<0.05	8	<0.5	<0.2
1289472	Soil	31	35	0.45	212	0.044	1	1.40	0.010	0.09	0.1	<0.01	5.8	0.1	<0.05	5	<0.5	<0.2
1289473	Soil	23	31	0.48	288	0.022	2	1.43	0.009	0.07	<0.1	0.01	7.5	<0.1	<0.05	5	<0.5	<0.2
1289466	Soil	14	80	1.36	198	0.112	<1	1.92	0.004	0.87	<0.1	0.01	3.7	0.7	<0.05	5	<0.5	<0.2
1289452	Soil	15	55	1.24	360	0.092	2	2.00	0.008	0.52	<0.1	0.04	10.7	0.6	<0.05	5	<0.5	<0.2
1289122	Soil	14	24	0.25	93	0.043	1	0.80	0.005	0.05	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1289475	Soil	27	190	1.56	248	0.020	3	2.10	0.021	0.05	<0.1	0.03	19.7	0.2	<0.05	7	0.6	<0.2
1289465	Soil	36	28	0.52	176	0.065	1	1.21	0.009	0.16	0.2	0.02	5.9	0.2	<0.05	4	<0.5	<0.2
1285700	Soil	35	80	1.00	346	0.087	<1	1.79	0.009	0.54	<0.1	0.02	5.1	0.3	<0.05	6	<0.5	<0.2
1289129	Soil	5	34	1.00	275	0.112	1	1.85	0.010	0.28	0.2	<0.01	2.1	0.2	<0.05	6	<0.5	<0.2
1289474	Soil	39	46	0.22	239	0.005	1	0.95	0.007	0.09	0.1	0.04	9.3	0.1	<0.05	4	<0.5	<0.2
1289468	Soil	45	69	1.08	326	0.171	<1	2.06	0.008	0.99	<0.1	<0.01	8.1	0.4	<0.05	8	<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
1289464	Soil	0.4	29.1	4.8	69	<0.1	57.4	15.5	472	4.44	14.0	2.1	1.5	19.5	12	<0.1	0.1	<0.1	53	0.22	0.068
1289469	Soil	3.4	107.1	40.0	334	<0.1	62.5	18.2	892	5.98	142.5	2.9	2.3	11.1	18	0.7	1.2	0.6	83	0.54	0.200
1289476	Soil	0.8	75.5	7.5	68	<0.1	111.9	30.0	754	5.28	236.3	0.9	1.7	7.3	32	0.1	2.3	0.1	99	0.81	0.080
1289467	Soil	0.2	18.3	7.5	82	<0.1	64.8	24.8	694	5.56	6.9	0.4	2.1	7.3	26	<0.1	0.2	<0.1	79	0.53	0.033
1289453	Soil	0.5	18.0	19.6	60	<0.1	26.9	10.7	322	3.56	10.2	2.9	1.1	32.0	12	<0.1	0.4	0.3	25	0.29	0.118
1289470	Soil	0.6	28.6	12.0	50	0.3	29.9	12.1	429	3.09	158.2	0.9	1.8	4.0	220	0.1	1.1	0.1	45	8.52	0.065
1289143	Soil	1.9	37.9	5.5	98	0.3	23.1	14.7	1197	4.21	37.0	0.3	0.9	1.8	32	0.3	0.2	0.1	52	0.46	0.063
1289124	Soil	1.2	149.9	2044	54	17.1	18.6	7.7	214	2.48	18.5	1.1	18.7	7.0	17	0.5	19.0	0.7	56	0.24	0.040
1289133	Soil	0.5	121.3	6.9	34	<0.1	148.7	19.1	273	2.36	5.5	0.3	0.6	2.2	10	<0.1	0.2	<0.1	48	0.17	0.009
1289140	Soil	1.1	44.7	5.7	88	<0.1	48.2	20.5	564	4.65	24.3	1.0	1.4	4.7	26	<0.1	0.9	<0.1	75	0.54	0.048
1289127	Soil	0.8	17.6	7.4	38	<0.1	41.0	12.1	823	3.05	6.1	0.3	0.5	1.7	22	<0.1	0.5	0.2	50	0.44	0.056
1289120	Soil	1.1	18.9	13.2	45	0.1	25.1	10.4	393	2.87	20.8	0.7	2.8	8.2	19	0.1	0.6	0.1	65	0.21	0.033
1289136	Soil	1.2	14.0	12.2	43	0.1	17.6	8.2	277	2.60	16.1	0.5	2.0	4.2	19	<0.1	0.5	0.4	62	0.35	0.021
1289150	Soil	0.5	47.9	3.9	53	<0.1	50.7	23.8	457	3.71	5.1	0.4	0.7	4.5	27	<0.1	0.4	<0.1	69	0.63	0.085
1289132	Soil	0.2	18.9	1.9	37	<0.1	59.3	16.3	267	3.19	8.2	0.5	<0.5	6.7	46	<0.1	0.3	0.5	63	0.28	0.044
1289121	Soil	1.2	15.2	11.9	55	<0.1	22.1	10.0	307	3.05	14.7	1.2	2.2	10.7	12	0.1	0.6	0.3	67	0.13	0.058
1289151	Soil	2.4	24.3	2.0	40	0.3	21.8	10.0	370	2.26	4.3	0.2	1.2	0.7	33	0.1	0.3	<0.1	61	0.73	0.058
1289154	Soil	0.5	28.4	2.6	65	<0.1	20.5	23.5	536	4.11	3.9	0.4	1.6	2.9	28	<0.1	0.1	<0.1	74	0.48	0.124
1289137	Soil	1.2	21.2	19.9	67	0.1	23.5	14.8	385	3.86	11.5	0.5	1.7	4.0	35	0.1	1.2	0.2	71	0.38	0.034
1289128	Soil	0.7	16.6	4.9	70	<0.1	11.9	19.0	552	4.24	4.3	0.6	1.3	3.3	28	<0.1	0.2	0.1	91	0.52	0.097
1289130	Soil	0.3	16.8	2.7	53	<0.1	69.2	22.1	510	3.51	1.2	0.5	1.8	6.1	23	<0.1	<0.1	0.2	60	0.64	0.065
1289138	Soil	0.4	42.2	7.3	77	<0.1	61.0	21.7	633	5.28	63.8	1.8	6.5	13.3	12	<0.1	1.1	0.2	61	0.49	0.065
1289153	Soil	0.4	13.6	3.3	80	<0.1	63.0	27.7	687	5.23	3.1	0.4	0.8	4.7	29	<0.1	0.1	<0.1	89	0.45	0.124
1289148	Soil	0.5	40.8	5.2	98	<0.1	61.4	22.4	716	5.64	11.7	0.4	<0.5	9.2	27	<0.1	0.4	<0.1	70	0.71	0.061
1289147	Soil	0.9	32.9	8.5	65	<0.1	40.3	14.9	358	3.69	21.1	0.9	3.9	5.7	31	0.1	0.6	0.1	60	0.66	0.058
1289141	Soil	1.5	47.5	5.0	86	<0.1	49.3	19.6	431	4.84	41.6	1.2	1.2	7.9	23	0.1	1.0	<0.1	71	0.49	0.057
1289144	Soil	0.4	44.6	10.2	88	<0.1	61.2	19.0	439	5.08	32.6	0.8	4.9	8.9	44	<0.1	0.8	<0.1	69	0.71	0.069
1289152	Soil	0.8	13.6	12.5	56	<0.1	17.0	11.7	374	3.00	8.1	0.5	1.5	7.4	21	<0.1	0.5	<0.1	61	0.29	0.026
1289131	Soil	0.5	17.7	7.6	44	<0.1	33.7	11.0	251	2.88	8.3	1.0	3.0	13.9	19	<0.1	0.4	0.1	59	0.23	0.025
1289142	Soil	1.0	27.2	5.2	64	<0.1	54.1	14.3	266	3.85	23.6	0.5	1.6	4.0	17	<0.1	0.5	<0.1	63	0.32	0.034



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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
1289464	Soil	69	70	0.95	285	0.158	<1	1.66	0.005	1.03	<0.1	0.01	9.8	0.5	<0.05	7	<0.5	<0.2
1289469	Soil	48	44	0.39	279	0.028	2	1.17	0.006	0.24	0.2	0.05	9.9	0.6	<0.05	5	0.8	<0.2
1289476	Soil	24	215	1.62	244	0.028	2	2.21	0.025	0.05	<0.1	0.02	19.6	0.2	<0.05	7	<0.5	<0.2
1289467	Soil	21	89	1.59	369	0.202	<1	2.99	0.009	1.20	0.2	0.03	6.4	0.6	<0.05	12	<0.5	<0.2
1289453	Soil	60	25	0.50	160	0.076	2	1.16	0.006	0.47	0.1	<0.01	5.4	0.4	<0.05	4	<0.5	<0.2
1289470	Soil	22	39	0.68	215	0.034	3	1.62	0.009	0.16	0.1	0.06	6.6	0.3	<0.05	5	<0.5	<0.2
1289143	Soil	6	32	0.34	221	0.063	2	0.90	0.010	0.13	0.2	0.01	3.6	0.2	<0.05	4	<0.5	<0.2
1289124	Soil	15	31	0.44	251	0.043	1	1.56	0.008	0.06	0.3	0.11	3.5	<0.1	<0.05	4	<0.5	0.3
1289133	Soil	4	45	1.72	104	0.045	<1	1.79	0.007	0.03	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1289140	Soil	12	71	1.21	207	0.108	1	2.11	0.011	0.41	0.1	0.01	5.6	0.6	<0.05	6	<0.5	<0.2
1289127	Soil	5	60	1.02	142	0.043	<1	1.68	0.009	0.04	0.2	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
1289120	Soil	11	37	0.44	241	0.061	1	2.23	0.009	0.05	0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
1289136	Soil	13	30	0.38	280	0.037	<1	1.56	0.010	0.05	0.1	0.05	2.8	0.1	<0.05	6	<0.5	<0.2
1289150	Soil	13	101	1.55	165	0.086	<1	2.20	0.008	0.14	<0.1	0.01	5.3	0.2	<0.05	7	<0.5	<0.2
1289132	Soil	17	104	1.31	331	0.134	<1	2.10	0.009	0.44	0.1	<0.01	4.0	0.5	<0.05	9	<0.5	<0.2
1289121	Soil	14	36	0.40	182	0.054	<1	2.23	0.009	0.05	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1289151	Soil	3	30	0.75	91	0.091	3	1.34	0.070	0.10	10.9	<0.01	4.2	<0.1	0.06	5	<0.5	<0.2
1289154	Soil	11	32	1.88	576	0.153	<1	2.50	0.009	0.71	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2
1289137	Soil	11	46	0.94	173	0.072	4	2.18	0.008	0.09	0.1	0.01	3.5	<0.1	<0.05	8	<0.5	<0.2
1289128	Soil	8	23	1.84	466	0.174	2	2.56	0.007	0.80	0.1	0.02	5.4	0.5	<0.05	6	<0.5	<0.2
1289130	Soil	19	193	2.46	328	0.175	2	2.61	0.009	0.75	0.1	<0.01	4.0	0.4	<0.05	7	<0.5	<0.2
1289138	Soil	51	64	0.42	156	0.043	3	0.99	0.005	0.30	<0.1	0.08	11.3	2.5	<0.05	4	<0.5	<0.2
1289153	Soil	14	78	2.78	416	0.229	<1	3.30	0.009	1.21	0.1	0.02	3.7	0.6	<0.05	8	<0.5	<0.2
1289148	Soil	23	94	1.38	146	0.040	3	2.37	0.006	0.24	<0.1	<0.01	8.2	0.2	<0.05	10	<0.5	<0.2
1289147	Soil	19	61	0.77	151	0.095	2	1.68	0.015	0.19	0.1	0.03	5.4	0.2	<0.05	5	<0.5	<0.2
1289141	Soil	14	60	1.02	206	0.118	2	1.92	0.011	0.37	<0.1	0.02	6.9	0.4	<0.05	7	<0.5	<0.2
1289144	Soil	34	92	1.23	135	0.067	2	1.98	0.012	0.16	0.2	0.05	9.7	0.2	<0.05	8	<0.5	<0.2
1289152	Soil	9	25	0.74	231	0.097	2	1.89	0.008	0.16	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
1289131	Soil	43	47	0.69	223	0.081	2	1.88	0.011	0.10	0.1	0.01	4.4	0.1	<0.05	6	<0.5	<0.2
1289142	Soil	7	73	0.88	153	0.094	1	1.98	0.011	0.22	<0.1	0.01	4.1	0.2	<0.05	7	<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	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
1289135	Soil	1.0	28.7	22.9	62	0.2	30.7	15.2	1007	3.87	20.0	1.3	11.6	8.4	45	0.1	1.4	0.3	55	1.81	0.037
1289134	Soil	0.2	37.2	17.8	49	<0.1	134.4	24.8	802	3.96	12.9	2.0	11.7	6.5	52	<0.1	1.2	<0.1	88	0.97	0.054
1289139	Soil	0.9	41.8	6.5	96	<0.1	67.8	22.5	562	5.22	40.6	0.6	0.9	3.8	37	<0.1	1.5	<0.1	68	0.64	0.058
1289145	Soil	0.9	37.1	4.0	88	<0.1	84.9	25.4	502	5.04	18.3	0.4	2.3	6.2	26	<0.1	0.2	<0.1	73	0.53	0.060
1289155	Soil	0.3	31.6	2.7	77	<0.1	30.5	24.6	629	4.67	3.1	0.5	0.7	4.6	32	<0.1	<0.1	<0.1	83	0.48	0.109
1289123	Soil	0.6	8.1	7.0	25	<0.1	7.6	3.7	132	1.73	8.1	0.8	<0.5	14.8	12	<0.1	0.4	0.2	25	0.16	0.017
1289149	Soil	0.6	36.0	9.1	68	<0.1	39.3	13.8	439	3.43	18.5	0.9	2.9	6.7	42	<0.1	0.7	0.1	62	1.11	0.059
1289146	Soil	1.2	57.2	11.1	104	<0.1	54.6	21.0	576	5.37	91.8	1.1	<0.5	8.7	29	0.1	2.7	<0.1	60	0.66	0.090
1289419	Soil	0.6	12.9	13.1	28	<0.1	12.7	5.7	140	1.82	8.8	0.7	2.7	22.7	11	<0.1	0.4	0.4	35	0.12	0.015
1289422	Soil	0.9	21.0	12.0	36	<0.1	25.5	8.9	228	2.27	22.0	2.0	<0.5	28.0	18	0.2	0.6	<0.1	55	0.19	0.015



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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
1289135	Soil	31	35	0.39	494	0.038	2	1.59	0.013	0.08	0.2	0.05	7.6	0.1	<0.05	5	<0.5	<0.2
1289134	Soil	62	200	2.60	241	0.053	3	2.79	0.030	0.04	0.2	0.03	11.8	<0.1	<0.05	8	<0.5	<0.2
1289139	Soil	8	95	1.47	207	0.139	1	2.46	0.010	0.60	<0.1	<0.01	4.6	0.2	<0.05	8	<0.5	<0.2
1289145	Soil	17	141	1.48	212	0.163	<1	2.76	0.008	0.55	<0.1	0.02	5.0	0.3	<0.05	9	<0.5	<0.2
1289155	Soil	14	56	2.27	912	0.218	2	2.75	0.011	1.02	<0.1	<0.01	3.1	0.5	<0.05	8	<0.5	<0.2
1289123	Soil	22	15	0.30	98	0.030	1	1.22	0.005	0.10	0.1	0.01	2.0	0.2	<0.05	4	<0.5	<0.2
1289149	Soil	26	52	0.70	182	0.067	2	1.67	0.020	0.07	0.1	0.04	7.3	0.1	<0.05	6	<0.5	<0.2
1289146	Soil	19	65	1.09	155	0.062	3	2.04	0.010	0.30	0.1	0.02	7.6	0.8	<0.05	6	<0.5	<0.2
1289419	Soil	11	22	0.30	120	0.030	<1	1.33	0.006	0.05	0.3	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
1289422	Soil	17	43	0.50	157	0.074	<1	1.58	0.009	0.07	0.1	0.01	5.3	0.1	<0.05	5	<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																					
1286884	Soil	0.7	22.6	9.9	45	<0.1	21.1	10.9	256	2.87	8.3	1.5	2.3	13.0	25	<0.1	0.6	0.2	66	0.34	0.022
REP 1286884	QC	0.8	22.7	9.9	46	<0.1	20.9	10.6	259	2.90	8.7	1.6	6.4	13.2	25	<0.1	0.6	0.2	66	0.35	0.022
1289023	Soil	1.2	42.7	6.6	86	<0.1	41.4	15.4	538	3.93	8.8	0.8	<0.5	5.6	18	0.1	0.3	<0.1	102	0.34	0.059
REP 1289023	QC	1.2	41.9	6.5	84	<0.1	39.7	15.0	527	3.85	8.9	0.8	0.9	5.5	18	0.1	0.3	<0.1	97	0.34	0.059
1289018	Soil	0.8	40.9	9.5	46	<0.1	39.3	17.6	248	2.91	6.2	0.3	0.7	2.5	24	<0.1	0.4	0.1	60	0.45	0.068
REP 1289018	QC	0.8	41.6	9.4	46	<0.1	41.4	18.3	257	3.03	6.6	0.4	<0.5	2.5	25	<0.1	0.4	0.1	62	0.46	0.071
1289465	Soil	0.7	27.0	26.9	56	<0.1	15.9	7.9	344	2.59	13.1	1.5	2.1	13.7	18	0.2	0.6	0.1	50	0.25	0.037
REP 1289465	QC	0.8	27.6	28.1	62	<0.1	17.4	8.3	349	2.72	12.5	1.5	2.0	13.9	19	0.1	0.7	0.1	56	0.27	0.038
1289154	Soil	0.5	28.4	2.6	65	<0.1	20.5	23.5	536	4.11	3.9	0.4	1.6	2.9	28	<0.1	0.1	<0.1	74	0.48	0.124
REP 1289154	QC	0.3	27.7	2.6	67	<0.1	19.8	23.8	532	4.16	4.2	0.4	<0.5	2.9	27	<0.1	0.2	<0.1	74	0.46	0.122
1289134	Soil	0.2	37.2	17.8	49	<0.1	134.4	24.8	802	3.96	12.9	2.0	11.7	6.5	52	<0.1	1.2	<0.1	88	0.97	0.054
REP 1289134	QC	0.1	38.0	17.8	52	<0.1	132.3	24.7	783	3.97	12.8	2.0	10.2	6.4	53	<0.1	1.0	<0.1	90	0.98	0.054
1289419	Soil	0.6	12.9	13.1	28	<0.1	12.7	5.7	140	1.82	8.8	0.7	2.7	22.7	11	<0.1	0.4	0.4	35	0.12	0.015
REP 1289419	QC	0.9	12.6	13.0	29	<0.1	11.5	5.4	137	1.78	8.0	0.7	1.9	23.0	12	<0.1	0.4	0.3	34	0.11	0.014
Reference Materials																					
STD DS9	Standard	12.1	105.0	111.2	305	1.7	36.9	7.2	540	2.17	22.8	2.2	115.8	5.6	58	2.4	4.9	5.1	39	0.66	0.075
STD DS9	Standard	13.1	106.0	112.0	299	1.8	39.7	7.4	565	2.27	25.2	2.4	118.0	5.5	64	2.6	5.4	6.2	42	0.67	0.082
STD DS9	Standard	13.2	108.7	120.1	296	1.8	39.5	7.5	568	2.35	24.0	2.7	100.8	6.8	71	2.3	5.5	4.6	42	0.69	0.080
STD DS9	Standard	13.1	109.7	128.0	311	2.0	42.5	7.6	578	2.36	24.5	2.8	115.3	6.7	67	2.5	5.6	6.2	41	0.72	0.082
STD DS9	Standard	13.1	114.3	122.6	309	1.8	41.1	7.8	570	2.33	26.7	2.9	106.0	6.3	74	2.3	5.7	7.2	41	0.71	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
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
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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Report Date: August 27, 2012

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QUALITY CONTROL REPORT

WHI12000699.1

	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	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																		
1286884	Soil	33	47	0.70	296	0.099	<1	1.94	0.012	0.11	0.1	0.03	7.0	0.1	<0.05	6	<0.5	<0.2
REP 1286884	QC	34	46	0.72	306	0.099	<1	2.00	0.011	0.11	0.1	0.03	7.0	0.1	<0.05	6	<0.5	<0.2
1289023	Soil	11	60	1.01	336	0.135	<1	2.09	0.008	0.59	0.1	0.03	4.9	0.4	<0.05	8	<0.5	<0.2
REP 1289023	QC	11	58	0.99	336	0.127	<1	1.96	0.009	0.57	0.1	<0.01	5.1	0.3	<0.05	8	<0.5	<0.2
1289018	Soil	7	85	0.77	180	0.074	<1	1.64	0.008	0.09	0.1	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2
REP 1289018	QC	8	89	0.81	183	0.076	<1	1.71	0.008	0.09	0.1	0.01	5.6	0.1	<0.05	5	<0.5	<0.2
1289465	Soil	36	28	0.52	176	0.065	1	1.21	0.009	0.16	0.2	0.02	5.9	0.2	<0.05	4	<0.5	<0.2
REP 1289465	QC	37	31	0.55	183	0.078	2	1.27	0.010	0.16	0.1	0.02	6.2	0.2	<0.05	5	<0.5	<0.2
1289154	Soil	11	32	1.88	576	0.153	<1	2.50	0.009	0.71	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2
REP 1289154	QC	11	31	1.86	595	0.153	<1	2.43	0.009	0.68	<0.1	<0.01	2.5	0.3	<0.05	6	<0.5	<0.2
1289134	Soil	62	200	2.60	241	0.053	3	2.79	0.030	0.04	0.2	0.03	11.8	<0.1	<0.05	8	<0.5	<0.2
REP 1289134	QC	63	203	2.64	242	0.056	3	2.80	0.031	0.04	0.1	0.03	12.1	<0.1	<0.05	8	<0.5	<0.2
1289419	Soil	11	22	0.30	120	0.030	<1	1.33	0.006	0.05	0.3	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
REP 1289419	QC	12	22	0.28	121	0.029	2	1.28	0.005	0.05	0.2	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	11	113	0.60	308	0.096	3	0.85	0.081	0.34	3.0	0.19	2.2	5.3	0.08	5	4.7	4.8
STD DS9	Standard	12	118	0.60	300	0.098	3	0.85	0.082	0.33	3.0	0.20	2.5	5.2	0.17	4	5.3	4.7
STD DS9	Standard	13	121	0.62	295	0.114	3	0.90	0.088	0.36	3.0	0.20	2.5	5.4	0.14	4	4.7	5.1
STD DS9	Standard	13	126	0.64	303	0.114	4	0.92	0.091	0.37	3.0	0.24	2.5	5.7	0.17	4	5.2	5.1
STD DS9	Standard	12	122	0.61	292	0.117	2	0.89	0.081	0.35	3.0	0.22	2.5	5.4	0.12	5	4.8	4.9
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