



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Environmental Dynamics
Report to: Environmental Dynamics
 Suite 206, 4133-4th Avenue
 Whitehorse, BC, Canada
 Y1A 1H8
 Attn: Pat Tobler
 Sampled By:
 Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 433207
 Control Number:
 Date Received: Dec 30, 2005
 Date Reported: Jan 10, 2006
 Report Number: 800368

Analyte	Units	NWL Number	433207-1	433207-2	433207-3	Detection Limit
		Sample Description Matrix	D@R-1 / -2 / -3 Soil	UD-1 / -2 / -3 Soil	VIC - DSD-1 / -2 / -3 Soil	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	6150	7500	6190	1
Antimony	Strong Acid Extractable	ug/g	1.5	1.1	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	186	34.2	7.71	0.20
Barium	Strong Acid Extractable	ug/g	50.4	48.7	67.1	0.02
Beryllium	Strong Acid Extractable	ug/g	0.19	0.23	0.20	0.02
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	<0.05	0.70	0.2	0.05
Calcium	Strong Acid Extractable	ug/g	4600	5670	3900	2
Chromium	Strong Acid Extractable	ug/g	15.4	14.0	19.7	0.02
Cobalt	Strong Acid Extractable	ug/g	3.3	3.6	3.1	0.05
Copper	Strong Acid Extractable	ug/g	7.03	16.6	8.51	0.05
Iron	Strong Acid Extractable	ug/g	19900	16400	18100	1
Lead	Strong Acid Extractable	ug/g	22.4	8.10	9.18	0.3
Lithium	Strong Acid Extractable	ug/g	5.14	6.78	5.06	0.1
Magnesium	Strong Acid Extractable	ug/g	2480	2880	2120	10
Manganese	Strong Acid Extractable	ug/g	195	276	311	0.3
Molybdenum	Strong Acid Extractable	ug/g	0.1	0.2	0.60	0.1
Nickel	Strong Acid Extractable	ug/g	8.0	9.2	7.7	0.1
Phosphorus	Strong Acid Extractable	ug/g	724	568	592	0.5
Potassium	Strong Acid Extractable	ug/g	593	786	538	5
Selenium	Strong Acid Extractable	ug/g	0.96	0.84	0.96	0.3
Silicon	Strong Acid Extractable	ug/g	102	95.2	92.9	0.3
Silver	Strong Acid Extractable	ug/g	<0.15	<0.15	<0.15	0.15
Sodium	Strong Acid Extractable	ug/g	208	285	191	1
Strontium	Strong Acid Extractable	ug/g	23.6	31.4	25.5	0.02
Sulfur	Strong Acid Extractable	ug/g	284	249	109	1
Thallium	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Tin	Strong Acid Extractable	ug/g	1.0	0.81	5.15	0.2
Titanium	Strong Acid Extractable	ug/g	172	343	297	0.05
Uranium	Strong Acid Extractable	ug/g	17	19	25	3
Vanadium	Strong Acid Extractable	ug/g	46.4	37.2	46.5	0.2
Zinc	Strong Acid Extractable	ug/g	65.5	51.3	78.9	0.1
Zirconium	Strong Acid Extractable	ug/g	2.0	2.3	2.3	0.05



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Analyte	Matrix	NWL Number	433207-4	433207-5	433207-6	Detection Limit
		Sample Description	VIC@R-1 / -2 / -3	VIC-USB-1 / -2 / -3	BSP-1 / -2 / -3	
	Units	Results	Results	Results	Results	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	4090	5870	6990	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	0.62	0.5
Arsenic	Strong Acid Extractable	ug/g	7.69	2.5	12.7	0.20
Barium	Strong Acid Extractable	ug/g	57.5	71.0	48.0	0.02
Beryllium	Strong Acid Extractable	ug/g	0.15	0.17	0.20	0.02
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.1	0.1	0.1	0.05
Calcium	Strong Acid Extractable	ug/g	2070	3390	6490	2
Chromium	Strong Acid Extractable	ug/g	7.67	10.8	11.9	0.02
Cobalt	Strong Acid Extractable	ug/g	2.5	2.6	3.1	0.05
Copper	Strong Acid Extractable	ug/g	4.9	5.64	5.58	0.05
Iron	Strong Acid Extractable	ug/g	9960	13400	12200	1
Lead	Strong Acid Extractable	ug/g	5.17	4.9	5.02	0.3
Lithium	Strong Acid Extractable	ug/g	3.4	4.9	6.38	0.1
Magnesium	Strong Acid Extractable	ug/g	1490	2040	2960	10
Manganese	Strong Acid Extractable	ug/g	233	141	354	0.3
Molybdenum	Strong Acid Extractable	ug/g	0.3	0.3	0.2	0.1
Nickel	Strong Acid Extractable	ug/g	4.7	5.6	8.2	0.1
Phosphorus	Strong Acid Extractable	ug/g	334	600	491	0.5
Potassium	Strong Acid Extractable	ug/g	430	500	713	5
Selenium	Strong Acid Extractable	ug/g	0.60	0.52	0.67	0.3
Silicon	Strong Acid Extractable	ug/g	44	79.2	56.3	0.3
Silver	Strong Acid Extractable	ug/g	<0.15	<0.15	<0.15	0.15
Sodium	Strong Acid Extractable	ug/g	122	174	268	1
Strontium	Strong Acid Extractable	ug/g	15.8	24.9	31.9	0.02
Sulfur	Strong Acid Extractable	ug/g	53.3	76.5	179	1
Thallium	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Tin	Strong Acid Extractable	ug/g	4.8	1.0	0.50	0.2
Titanium	Strong Acid Extractable	ug/g	181	246	296	0.05
Uranium	Strong Acid Extractable	ug/g	10	19	14	3
Vanadium	Strong Acid Extractable	ug/g	22.6	33.0	27.9	0.2
Zinc	Strong Acid Extractable	ug/g	29.4	30.6	41.9	0.1
Zirconium	Strong Acid Extractable	ug/g	1.8	1.8	2.2	0.05



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Analyte	Units	NWL Number	433207-7	433207-8	433207-9	Detection Limit
		Sample Description	VIC-DSB-1 / -2 / -3	1-V5	1-D-1	
		Matrix	Soil	Soil	Soil	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	4540	6550	7840	1
Antimony	Strong Acid Extractable	ug/g	<0.50	<0.5	57.0	0.5
Arsenic	Strong Acid Extractable	ug/g	4.5	5.00	1080	0.20
Barium	Strong Acid Extractable	ug/g	54.6	71.9	94.1	0.02
Beryllium	Strong Acid Extractable	ug/g	0.16	0.19	0.20	0.02
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.1	0.1	4.8	0.05
Calcium	Strong Acid Extractable	ug/g	2370	3400	4480	2
Chromium	Strong Acid Extractable	ug/g	10.3	10.3	11.7	0.02
Cobalt	Strong Acid Extractable	ug/g	2.8	2.6	4.0	0.05
Copper	Strong Acid Extractable	ug/g	5.39	10.6	43.6	0.05
Iron	Strong Acid Extractable	ug/g	16100	11400	18200	1
Lead	Strong Acid Extractable	ug/g	6.73	6.04	324	0.3
Lithium	Strong Acid Extractable	ug/g	3.8	5.99	7.79	0.1
Magnesium	Strong Acid Extractable	ug/g	1620	2290	3210	10
Manganese	Strong Acid Extractable	ug/g	183	154	385	0.3
Molybdenum	Strong Acid Extractable	ug/g	0.3	0.3	0.3	0.1
Nickel	Strong Acid Extractable	ug/g	4.7	6.0	7.7	0.1
Phosphorus	Strong Acid Extractable	ug/g	397	577	556	0.5
Potassium	Strong Acid Extractable	ug/g	420	546	930	5
Selenium	Strong Acid Extractable	ug/g	0.76	0.53	0.61	0.3
Silicon	Strong Acid Extractable	ug/g	75.4	64.8	89.0	0.3
Silver	Strong Acid Extractable	ug/g	<0.15	<0.15	<0.15	0.15
Sodium	Strong Acid Extractable	ug/g	125	196	205	1
Strontium	Strong Acid Extractable	ug/g	21.5	25.6	26.5	0.02
Sulfur	Strong Acid Extractable	ug/g	63.5	68.8	2560	1
Thallium	Strong Acid Extractable	ug/g	<0.2	<0.2	0.59	0.3
Tin	Strong Acid Extractable	ug/g	0.80	0.61	1.4	0.2
Titanium	Strong Acid Extractable	ug/g	243	253	248	0.05
Uranium	Strong Acid Extractable	ug/g	18	16	12	3
Vanadium	Strong Acid Extractable	ug/g	39.9	26.1	26.4	0.2
Zinc	Strong Acid Extractable	ug/g	28.8	35.0	744	0.1
Zirconium	Strong Acid Extractable	ug/g	1.9	1.9	1.9	0.05



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NWL Number 433207-10
 Sample Description 1-D-2
 Matrix Soil

Analyte	Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion					
Aluminum	Strong Acid Extractable	ug/g	6680		1
Antimony	Strong Acid Extractable	ug/g	<0.5		0.5
Arsenic	Strong Acid Extractable	ug/g	11.0		0.20
Barium	Strong Acid Extractable	ug/g	50.1		0.02
Beryllium	Strong Acid Extractable	ug/g	0.19		0.02
Bismuth	Strong Acid Extractable	ug/g	<0.5		0.5
Cadmium	Strong Acid Extractable	ug/g	0.07		0.05
Calcium	Strong Acid Extractable	ug/g	3390		2
Chromium	Strong Acid Extractable	ug/g	13.2		0.02
Cobalt	Strong Acid Extractable	ug/g	2.5		0.05
Copper	Strong Acid Extractable	ug/g	9.23		0.05
Iron	Strong Acid Extractable	ug/g	13400		1
Lead	Strong Acid Extractable	ug/g	4.5		0.3
Lithium	Strong Acid Extractable	ug/g	5.90		0.1
Magnesium	Strong Acid Extractable	ug/g	2570		10
Manganese	Strong Acid Extractable	ug/g	107		0.3
Molybdenum	Strong Acid Extractable	ug/g	0.2		0.1
Nickel	Strong Acid Extractable	ug/g	7.4		0.1
Phosphorus	Strong Acid Extractable	ug/g	504		0.5
Potassium	Strong Acid Extractable	ug/g	686		5
Selenium	Strong Acid Extractable	ug/g	0.4		0.3
Silicon	Strong Acid Extractable	ug/g	50.5		0.3
Silver	Strong Acid Extractable	ug/g	<0.15		0.15
Sodium	Strong Acid Extractable	ug/g	223		1
Strontium	Strong Acid Extractable	ug/g	22.4		0.02
Sulfur	Strong Acid Extractable	ug/g	143		1
Thallium	Strong Acid Extractable	ug/g	<0.2		0.3
Tin	Strong Acid Extractable	ug/g	0.80		0.2
Titanium	Strong Acid Extractable	ug/g	292		0.05
Uranium	Strong Acid Extractable	ug/g	15		3
Vanadium	Strong Acid Extractable	ug/g	33.2		0.2
Zinc	Strong Acid Extractable	ug/g	37.1		0.1
Zirconium	Strong Acid Extractable	ug/g	2.1		0.05



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Page: 5 of 6

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Metals (Strong Acid Leachable) in solids	US EPA	Metals & Trace Elements by ICP-AES, 6010B	6-Jan-06	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

US EPA US Environmental Protection Agency Test Methods

Comments:

Confirmed to use regular hotblock method , as per conversation with Pat,, Bill and Juliet on morning of Jan4th. jtJan4th 2006.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

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NWL Lot ID: 433207
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 Date Received: Dec 30, 2005
 Date Reported: Feb 20, 2006
 Report Number: 818583

Analyte	Units	NWL Number	433207-11	433207-12	433207-13	Detection Limit
		Sample Description	D@R-1/2/3 / HCL Peroxide Digestion Soil	UD-1/2/3 / HCL Peroxide Digestion Soil	VIC-DSD-1/2/3 / HCL Peroxide Digestion Soil	
Metals						
Aluminum	ug/g		2540	3100	2030	1
Antimony	ug/g		<0.5	<0.5	<0.5	0.5
Arsenic	ug/g		163	27.3	3.4	0.20
Barium	ug/g		29.6	35.6	46.4	0.02
Beryllium	ug/g		0.090	0.11	0.090	0.02
Bismuth	ug/g		<0.5	<0.5	<0.5	0.5
Cadmium	ug/g		<0.05	0.2	0.1	0.05
Calcium	ug/g		2700	4020	1790	2
Chromium	ug/g		4.62	5.50	7.00	0.02
Cobalt	ug/g		1.8	2.5	1.8	0.05
Copper	ug/g		5.39	15.1	5.29	0.05
Iron	ug/g		7040	7040	4530	1
Lead	ug/g		20.4	5.64	6.79	0.3
Lithium	ug/g		2.5	3.3	1.9	0.1
Magnesium	ug/g		1260	1540	875	10
Manganese	ug/g		122	188	197	0.3
Molybdenum	ug/g		<0.05	<0.05	0.2	0.1
Nickel	ug/g		4.6	6.0	3.7	0.1
Phosphorus	ug/g		721	646	433	0.5
Potassium	ug/g		290	360	180	5
Selenium	ug/g		<0.2	<0.2	<0.2	0.3
Silicon	ug/g		1210	1270	1050	0.3
Silver	ug/g		<0.15	<0.15	<0.15	0.15
Sodium	ug/g		80.5	99.2	50.8	1
Strontium	ug/g		12.3	17.2	12.1	0.02
Sulfur	ug/g		154	147	38	1
Thallium	ug/g		<0.2	<0.2	<0.2	0.3
Tin	ug/g		3.2	0.4	3.6	0.2
Titanium	ug/g		64.9	87.9	55.5	0.05
Uranium	ug/g		9.7	9.6	7.5	3
Vanadium	ug/g		8.86	10.4	8.58	0.2
Zinc	ug/g		38.4	34.8	46.0	0.1
Zirconium	ug/g		<0.05	<0.05	<0.05	0.05



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Analyte	Units	NWL Number	433207-14	433207-15	433207-16	Detection Limit
		Sample Description	VIC@R-1/2/3 / HCL Peroxide Digestion Soil	VIC-USB-1/2/3 / HCL Peroxide Digestion Soil	BSP-1/2/3 / HCL Peroxide Digestion Soil	
Metals						
Aluminum	ug/g		1380	1950	2810	1
Antimony	ug/g		<0.5	<0.5	<0.5	0.5
Arsenic	ug/g		7.32	1.7	5.73	0.20
Barium	ug/g		36.4	45.0	28.6	0.02
Beryllium	ug/g		0.075	0.080	0.095	0.02
Bismuth	ug/g		<0.5	0.6	<0.5	0.5
Cadmium	ug/g		0.1	0.07	0.09	0.05
Calcium	ug/g		943	1310	4440	2
Chromium	ug/g		2.44	3.11	4.74	0.02
Cobalt	ug/g		1.6	1.5	2.2	0.05
Copper	ug/g		2.7	3.5	4.0	0.05
Iron	ug/g		3720	4000	5550	1
Lead	ug/g		5.05	3.6	4.6	0.3
Lithium	ug/g		1.2	1.8	3.1	0.1
Magnesium	ug/g		610	806	1610	10
Manganese	ug/g		199	84.3	289	0.3
Molybdenum	ug/g		0.1	0.09	0.05	0.1
Nickel	ug/g		2.4	2.8	5.2	0.1
Phosphorus	ug/g		257	385	522	0.5
Potassium	ug/g		120	160	340	5
Selenium	ug/g		<0.2	<0.2	<0.2	0.3
Silicon	ug/g		775	1000	1170	0.3
Silver	ug/g		<0.15	<0.15	<0.15	0.15
Sodium	ug/g		39	44	90.4	1
Strontium	ug/g		8.16	12.4	17.4	0.02
Sulfur	ug/g		22	23	111	1
Thallium	ug/g		<0.2	<0.2	<0.2	0.3
Tin	ug/g		0.5	0.52	<0.2	0.2
Titanium	ug/g		32.3	56.7	70.6	0.05
Uranium	ug/g		6.3	5	6.6	3
Vanadium	ug/g		6.42	7.41	9.17	0.2
Zinc	ug/g		16.4	16.6	28.3	0.1
Zirconium	ug/g		<0.05	<0.05	<0.05	0.05



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Analyte	Units	NWL Number	433207-17	433207-18	433207-19	Detection Limit
		Sample Description	1-V5 / HCL Peroxide Digestion	1-D-1 / HCL Peroxide Digestion	1-D-2 / HCL Peroxide Digestion	
		Matrix	Soil	Soil	Soil	
Metals						
Aluminum	ug/g		2740	3490	2870	1
Antimony	ug/g		<0.5	4.6	<0.5	0.5
Arsenic	ug/g		3.5	182	16.8	0.20
Barium	ug/g		52.9	54.2	32.2	0.02
Beryllium	ug/g		0.10	0.12	0.090	0.02
Bismuth	ug/g		<0.5	0.6	<0.5	0.5
Cadmium	ug/g		0.1	2.6	0.1	0.05
Calcium	ug/g		2460	3360	2210	2
Chromium	ug/g		4.62	5.95	4.88	0.02
Cobalt	ug/g		1.8	2.6	1.5	0.05
Copper	ug/g		9.88	27.7	8.32	0.05
Iron	ug/g		4980	9470	4900	1
Lead	ug/g		5.94	283	13.7	0.3
Lithium	ug/g		2.8	3.8	2.9	0.1
Magnesium	ug/g		1190	1940	1390	10
Manganese	ug/g		100	297	53.8	0.3
Molybdenum	ug/g		0.1	0.06	0.06	0.1
Nickel	ug/g		3.9	4.9	4.6	0.1
Phosphorus	ug/g		892	629	717	0.5
Potassium	ug/g		190	400	310	5
Selenium	ug/g		<0.2	0.3	<0.2	0.3
Silicon	ug/g		1170	1380	1130	0.3
Silver	ug/g		<0.15	<0.15	<0.15	0.15
Sodium	ug/g		55.5	57.5	64.5	1
Strontium	ug/g		14.9	15.6	11.0	0.02
Sulfur	ug/g		36	330	96.8	1
Thallium	ug/g		<0.2	0.2	<0.2	0.3
Tin	ug/g		0.64	0.94	0.59	0.2
Titanium	ug/g		62.7	138	85.3	0.05
Uranium	ug/g		11	7.6	8.6	3
Vanadium	ug/g		9.22	13.4	8.86	0.2
Zinc	ug/g		24.2	400	39.6	0.1
Zirconium	ug/g		<0.05	0.3	<0.05	0.05



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Environmental Dynamics
Report to: Environmental Dynamics
Suite 206, 4133-4th Avenue
Whitehorse, BC, Canada
Y1A 1H8
Attn: Pat Tobler
Sampled By:
Company:

Project
ID:
Name:
Location:
LSD:
P.O.:
Acct. Code: (Additional)

NWL Lot ID: 433207
Control Number:
Date Received: Dec 30, 2005
Date Reported: Feb 20, 2006
Report Number: 818583

Page: 4 of 5

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Metals in solids	US EPA	Metals & Trace Elements by ICP-AES, 6010B	16-Jan-06	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

US EPA US Environmental Protection Agency Test Methods

Comments:

Method deviation: A client specified method was used for the partial extraction of metals from the soil matrix. The sample was dried and sieved to -100mesh. A sub-sample was extracted with 2M HCl-1% H₂O₂ for three hours at 50C with agitation. Deviation approved by Marie England on Dec 31,2005.
Report 818583 is an addendum to report 800368.

QC sample Certified Reference Material NIST Montana soil failed target criteria (low recovery) using client requested digest of 5 mL 2N HCl + 1 mL 1% H₂O₂. [CN 17-Jan-2006]

QC sample for CRM NIST Montana soil failed criteria (low recovery) using client requested digest (5 mL of 2N HCl + 1 mL 1% H₂O₂).

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory