

# Analysis Report



CANTEST LTD.

Professional  
Analytical  
Services

**REPORT ON:** Analysis of Tissue Samples

**REPORTED TO:** Environmental Dynamics Inc.  
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Prince George, BC  
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4606 Canada Way  
Burnaby, B.C.  
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Att'n: Pat Tobler

**cc:** Environmental Dynamics 3128 3rd Avenue Whitehorse YK Y1A 1E7

**CHAIN OF CUSTODY:** 53944, 53945, 53946, 192285, 192286, 192287, 192246

**PROJECT NAME:** Mt. Nansen Terrestrial + Aquatic

**P.O. NUMBER:** 10139

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**NUMBER OF SAMPLES:** 69

**REPORT DATE:** February 1, 2006

**DATE SUBMITTED:** December 20, 2005

**GROUP NUMBER:** 61220106

**SAMPLE TYPE:** Tissue

**NOTE:** Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

## TEST METHODS:

**Moisture Content of Plant Tissue** - analysis was performed gravimetrically by heating a pre-weighed portion of sample at 105C and measuring the weight loss.

**Mercury in Tissue** - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Cold Vapour Atomic Absorption Spectrophotometry or Cold Vapour Atomic Fluorescence Spectrophotometry.

**Metals in Tissue** - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Inductively Coupled Argon Plasma Spectroscopy (ICP), ICP Mass Spectrometry (ICP/MS), or Atomic Absorption techniques.

## TEST RESULTS:

(See following pages)

CANTEST LTD.

Richard S. Jornitz  
Supervisor, Inorganic Testing

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Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	CANTEST ID	Moisture
VIC5-CCG-2	512200454	76.2
VIC4-CCG-1	512200455	73.4
VIC4-CCG-5	512200456	75.9
VIC3-CCG-1A & 1B	512200457	76.0
VIC4-CCG-4	512200459	74.6
VIC4-CCG-2	512200461	74.1
VIC5-CCG-1	512200463	73.4
VIC4-CCG-3	512200465	75.1
VIC1-CCG-1	512200468	74.2
VIC6-CCG-1	512200470	76.3
VIC5-CCG-4	512200472	70.5
VIC5-CCG-3A & 3B	512200474	71.6
VIC6-CCG-2	512200486	75.1
VIC3-CCG-3	512200489	75.4
VIC3-CCG-2	512200491	75.1
VIC1-CCG-4	512200493	73.7
VIC1-CCG-5	512200496	72.2
VIC1-CCG-3	512200499	73.0
VIC1-CCG-2	512200503	75.0
VIC5-BB-L-1	512200507	60.5
VIC3-BB-L-1	512200510	64.7
VIC3-BB-T-1	512200513	80.0
VIC5-BB-T-1	512200517	80.0
VIC3-GR-T-1	512200520	78.0
VIC3-GR-T-2	512200524	77.6
VIC3-GR-T-3A	512200527	77.2
VIC3-GR-K-1	512200530	71.6
VIC3-GR-L-1	512200532	72.5
VIC4-GR-T-1	512200534	78.0
VIC4-GR-L-1	512200537	69.9
VIC4-GR-K-1	512200539	76.0
Pond-SHRE-1 (whole body grind)	512200541	64.4
SM4-SHRE-1 (whole body grind)	512200544	68.3
SM4-SHRE-2 (whole body grind)	512200546	71.4
SM4-SHRE-3 (whole body grind)	512200553	70.9
SM4-SHRE-4 (whole body grind)	512200555	67.7
RAW-RBVO-1-K	512200557	73.1
RAW-GRJA-1-K	512200559	75.7

(Continued on next page)



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Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	CANTEST ID	Moisture
MINE-SQUI-1-K	512200562	75.3
MINE-GRSQ-1-K	512200564	73.8
MINE-GRJA-1-K	512200566	74.4
MINE-RBVO-1-K	512200568	74.1
MINE-RBVO-2-K	512200571	74.9
MINE-RBVO-3-K	512200573	73.3
RAW-GRJA-1-L	512200575	71.8
RAW-GRJA-2-L	512200577	71.3
RAW-RBVO-1-L	512200580	69.4
RAW-RBVO-2-L	512200583	71.5
RAW-RBVO-3-L	512200585	71.1
MINE-GRSQ-1-L	512200587	69.8
MINE-SQUI-1-L	512200589	71.8
MINE-GRJA-1-L	512200593	70.4
MINE-GRJA-2-L	512200595	71.4
MINE-RBVO-1-L	512200597	71.8
MINE-RBVO-2-L	512200599	69.9
MINE-RBVO-3-L	512200601	67.2
MINE-RBVO-4-L	512200604	69.8
MINE-RBVO-5-L	512200606	70.6
MINE-RBVO-6-L	512200608	70.5
MINE-RBVO-7-L	512200611	70.2
LELA-D4-1	512200613	49.4
LELA-B5-1	512200615	61.4
VAVI-B3-1	512200617	84.6
EMNI-B2-1	512200619	84.0
SASP-B1-1	512200621	57.8
LELA-B4-1	512200624	47.7
VAVI-R3-1	512200626	85.6
LELA-B1-1	512200628	48.4
VIC3-GR-T-3B	601170153	78.2
DETECTION LIMIT UNITS		0.1 %

% = percent



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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC5-CCG-2	VIC4-CCG-1	VIC4-CCG-5	VIC3-CCG-1 A & 1B	DETECTION LIMIT
CANTEST ID:		512200454	512200455	512200456	512200457	
Aluminum	Al	73.1	194	44.9	68.4	0.5
Antimony	Sb	<	<	<	<	0.1
Arsenic	As	0.4	1.8	1.2	1.2	0.1
Barium	Ba	9.8	14.8	10.0	12.5	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	<	<	<	<	2
Cadmium	Cd	0.03	0.14	0.17	0.43	0.02
Calcium	Ca	34200	29300	42900	46000	1
Chromium	Cr	0.2	0.3	<	<	0.1
Cobalt	Co	0.1	0.4	0.3	0.4	0.1
Copper	Cu	3.5	4.3	3.0	4.1	0.1
Iron	Fe	333	657	266	339	5
Lead	Pb	<	0.4	0.1	0.1	0.1
Magnesium	Mg	1430	1190	1420	1540	0.5
Manganese	Mn	77.9	59.9	37.4	64.2	0.1
Mercury	Hg	0.083	0.031	0.057	0.088	0.01
Molybdenum	Mo	0.2	<	<	<	0.1
Nickel	Ni	0.3	0.5	0.2	0.2	0.1
Phosphorus	P	25500	21800	26600	30000	0.5
Potassium	K	13900	11200	12600	14400	1
Selenium	Se	1.1	3.9	5.6	2.7	0.2
Silicon	Si	104	86	105	104	10
Silver	Ag	<	0.01	0.02	0.01	0.01
Sodium	Na	4240	4420	4530	5290	1
Strontium	Sr	80.5	63.4	75.0	102	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	0.03	0.03	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	12.3	18.4	13.4	15.0	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.2	2.1	1.1	1.0	0.5
Zinc	Zn	84.4	74.9	82.4	91.4	0.5
Zirconium	Zr	<	<	<	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC4-CCG-4	VIC4-CCG-2	VIC5-CCG-1	VIC4-CCG-3	DETECTION LIMIT
CANTEST ID:		512200459	512200461	512200463	512200465	
Aluminum	Al	156	147	55.7	33.9	0.5
Antimony	Sb	<	<	<	<	0.1
Arsenic	As	1.6	1.6	0.3	0.8	0.1
Barium	Ba	15.1	11.6	12.1	7.5	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	<	<	<	<	2
Cadmium	Cd	0.09	0.21	0.02	0.12	0.02
Calcium	Ca	54300	41800	44900	40600	1
Chromium	Cr	0.3	0.2	<	<	0.1
Cobalt	Co	0.3	0.4	<	0.2	0.1
Copper	Cu	3.1	4.8	3.5	3.1	0.1
Iron	Fe	532	511	311	220	5
Lead	Pb	0.3	0.4	<	<	0.1
Magnesium	Mg	1460	1340	1560	1340	0.5
Manganese	Mn	68.9	56.6	119	39.2	0.1
Mercury	Hg	0.040	0.065	0.091	0.049	0.01
Molybdenum	Mo	0.1	0.2	0.2	<	0.1
Nickel	Ni	0.3	0.3	0.2	0.1	0.1
Phosphorus	P	32100	26900	28300	25800	0.5
Potassium	K	13300	13100	14700	13700	1
Selenium	Se	4.5	5.3	1.2	4.0	0.2
Silicon	Si	95	97	150	91	10
Silver	Ag	0.01	0.03	<	<	0.01
Sodium	Na	5040	5390	4150	5240	1
Strontium	Sr	89.5	85.3	84.4	71.5	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	0.02	<	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	20.7	16.8	14.6	12.1	0.3
Uranium	U	0.04	0.05	<	<	0.04
Vanadium	V	2.7	1.8	1.0	1.0	0.5
Zinc	Zn	74.2	94.9	86.8	67.3	0.5
Zirconium	Zr	<	<	<	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC1-CCG-1	VIC6-CCG-1	VIC5-CCG-4	VIC5-CCG-3 A & 3B	DETECTION LIMIT
CANTEST ID:		512200468	512200470	512200472	512200474	
Aluminum	Al	41.0	69.2	19.7	22.6	0.5
Antimony	Sb	<	<	< 0.4	<	0.1
Arsenic	As	0.8	1.0	< 0.4	0.3	0.1
Barium	Ba	8.8	7.4	9.1	16.7	0.1
Beryllium	Be	<	<	< 0.08	<	0.02
Boron	B	<	<	< 8	<	2
Cadmium	Cd	0.28	0.51	< 0.08	0.03	0.02
Calcium	Ca	43000	28100	32700	39700	1
Chromium	Cr	<	0.1	< 0.4	<	0.1
Cobalt	Co	0.3	0.4	< 0.4	<	0.1
Copper	Cu	3.8	3.9	4.1	3.1	0.1
Iron	Fe	244	394	217	188	5
Lead	Pb	<	0.1	< 0.4	<	0.1
Magnesium	Mg	1250	1260	1480	1350	0.5
Manganese	Mn	33.3	57.9	19.7	45.1	0.1
Mercury	Hg	0.062	0.035	0.087	0.059	0.01
Molybdenum	Mo	<	<	< 0.4	0.2	0.1
Nickel	Ni	0.1	0.3	< 0.4	0.1	0.1
Phosphorus	P	26600	21000	21900	23900	0.5
Potassium	K	12400	13800	13000	12500	1
Selenium	Se	6.4	2.0	< 0.8	0.8	0.2
Silicon	Si	102	103	279	114	10
Silver	Ag	<	0.01	< 0.04	<	0.01
Sodium	Na	5640	4840	4620	3940	1
Strontium	Sr	84.9	54.4	64.0	71.0	0.05
Tellurium	Te	<	<	< 0.4	<	0.1
Thallium	Tl	<	<	< 0.08	<	0.02
Tin	Sn	<	<	< 0.4	<	0.1
Titanium	Ti	13.1	12.5	11.2	10.5	0.3
Uranium	U	<	0.04	< 0.16	<	0.04
Vanadium	V	1.0	1.3	< 2	0.7	0.5
Zinc	Zn	83.6	76.9	86.0	73.1	0.5
Zirconium	Zr	<	<	< 12	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC6-CCG-2	VIC3-CCG-3	VIC3-CCG-2	VIC1-CCG-4	DETECTION LIMIT
CANTEST ID:		512200486	512200489	512200491	512200493	
Aluminum	Al	40.2	154	145	62.5	0.5
Antimony	Sb	< 0.5	<	<	<	0.1
Arsenic	As	< 0.5	2.0	1.7	0.9	0.1
Barium	Ba	12.8	16.8	11.8	7.4	0.1
Beryllium	Be	< 0.1	<	<	<	0.02
Boron	B	< 10	<	<	<	2
Cadmium	Cd	0.11	0.13	0.23	0.31	0.02
Calcium	Ca	42900	57500	53100	33600	1
Chromium	Cr	< 0.5	0.3	0.3	0.1	0.1
Cobalt	Co	< 0.5	0.4	0.4	0.3	0.1
Copper	Cu	4.4	4.4	4.3	3.7	0.1
Iron	Fe	261	600	499	272	5
Lead	Pb	< 0.5	0.3	0.4	0.1	0.1
Magnesium	Mg	1630	1910	1470	1310	0.5
Manganese	Mn	22.8	103	63.5	40.0	0.1
Mercury	Hg	0.110	0.073	0.034	0.071	0.01
Molybdenum	Mo	< 0.5	0.1	0.1	<	0.1
Nickel	Ni	< 0.5	0.4	0.4	0.1	0.1
Phosphorus	P	26700	36700	32100	23100	0.5
Potassium	K	14400	17800	13900	13200	1
Selenium	Se	1.1	1.9	4.3	3.2	0.2
Silicon	Si	165	122	110	94	10
Silver	Ag	< 0.05	0.02	0.02	<	0.01
Sodium	Na	5430	6870	5880	4360	1
Strontium	Sr	81.2	118	89.4	63.8	0.05
Tellurium	Te	< 0.5	<	<	<	0.1
Thallium	Tl	< 0.1	0.03	0.02	<	0.02
Tin	Sn	< 0.5	<	<	<	0.1
Titanium	Ti	14.5	23.4	19.1	13.0	0.3
Uranium	U	< 0.2	0.06	0.05	<	0.04
Vanadium	V	< 2.5	2.1	2.1	1.0	0.5
Zinc	Zn	103	103	86.8	84.9	0.5
Zirconium	Zr	< 15	<	<	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC1-CCG-5	VIC1-CCG-3	VIC1-CCG-2	VIC5-BB-L-1	DETECTION LIMIT
CANTEST ID:		512200496	512200499	512200503	512200507	
Aluminum	Al	23.0	77.4	133	5.2	0.5
Antimony	Sb	<	<	<	< 0.2	0.1
Arsenic	As	0.7	0.8	1.0	2.1	0.1
Barium	Ba	10.4	8.5	10.9	< 0.2	0.1
Beryllium	Be	<	<	<	< 0.04	0.02
Boron	B	<	<	<	< 4	2
Cadmium	Cd	0.22	0.21	0.25	0.05	0.02
Calcium	Ca	44300	38400	40900	402	1
Chromium	Cr	<	0.1	0.2	< 0.2	0.1
Cobalt	Co	0.3	0.4	0.4	< 0.2	0.1
Copper	Cu	3.5	3.9	3.9	20.6	0.1
Iron	Fe	218	314	470	110	5
Lead	Pb	<	0.1	0.4	< 0.2	0.1
Magnesium	Mg	1390	1200	1450	391	0.5
Manganese	Mn	58.3	20.3	36.5	3.3	0.1
Mercury	Hg	0.091	0.050	0.067	0.035	0.01
Molybdenum	Mo	<	0.1	0.1	0.4	0.1
Nickel	Ni	0.2	0.2	0.2	< 0.2	0.1
Phosphorus	P	27600	24700	27100	5440	0.5
Potassium	K	12800	12800	14400	5890	1
Selenium	Se	3.4	5.6	4.7	0.6	0.2
Silicon	Si	90	99	104	97	10
Silver	Ag	0.01	<	<	< 0.02	0.01
Sodium	Na	4340	4800	5310	2510	1
Strontium	Sr	87.2	69.7	81.7	0.86	0.05
Tellurium	Te	<	<	<	< 0.2	0.1
Thallium	Tl	<	<	<	< 0.04	0.02
Tin	Sn	<	<	<	< 0.2	0.1
Titanium	Ti	13.2	14.1	16.6	2.9	0.3
Uranium	U	<	<	0.04	< 0.08	0.04
Vanadium	V	0.8	1.3	1.6	< 1	0.5
Zinc	Zn	82.3	76.9	76.7	51.5	0.5
Zirconium	Zr	<	<	<	< 6	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		VIC3-BB-L-1	VIC3-BB-T-1	VIC5-BB-T-1	VIC3-GR-T-1	DETECTION LIMIT
CANTEST ID:		512200510	512200513	512200517	512200520	
Aluminum	Al	3.5	7.1	1.8	36.8	0.5
Antimony	Sb	< 0.2	< 0.2	<	<	0.1
Arsenic	As	14.1	2.8	0.7	0.3	0.1
Barium	Ba	< 0.2	1.1	0.5	2.3	0.1
Beryllium	Be	< 0.04	< 0.04	<	<	0.02
Boron	B	< 4	< 4	<	<	2
Cadmium	Cd	0.92	< 0.04	<	0.11	0.02
Calcium	Ca	347	2310	2140	4510	1
Chromium	Cr	0.3	0.4	0.4	0.5	0.1
Cobalt	Co	0.3	< 0.2	<	0.1	0.1
Copper	Cu	21.3	3.1	2.2	2.8	0.1
Iron	Fe	176	50	27	130	5
Lead	Pb	< 0.2	< 0.2	<	<	0.1
Magnesium	Mg	598	1480	1770	1670	0.5
Manganese	Mn	7.2	7.7	5.7	8.4	0.1
Mercury	Hg	0.049	0.172	0.115	0.155	0.01
Molybdenum	Mo	0.7	< 0.2	0.2	<	0.1
Nickel	Ni	< 0.2	< 0.2	<	<	0.1
Phosphorus	P	7530	11500	11400	14400	0.5
Potassium	K	9130	20000	20900	23400	1
Selenium	Se	2.2	1.0	0.4	2.6	0.2
Silicon	Si	99	87	72	93	10
Silver	Ag	0.08	< 0.02	<	<	0.01
Sodium	Na	3060	3860	4030	3550	1
Strontium	Sr	0.88	5.10	3.94	7.40	0.05
Tellurium	Te	< 0.2	< 0.2	<	<	0.1
Thallium	Tl	< 0.04	< 0.04	<	<	0.02
Tin	Sn	< 0.2	< 0.2	<	<	0.1
Titanium	Ti	3.2	4.7	4.3	8.0	0.3
Uranium	U	< 0.08	< 0.08	<	<	0.04
Vanadium	V	< 1	< 1	<	0.6	0.5
Zinc	Zn	59.3	35.6	33.8	30.6	0.5
Zirconium	Zr	< 6	< 6	<	<	3

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CLIENT SAMPLE IDENTIFICATION:		VIC3-GR-T-2	VIC3-GR-T-3A	VIC3-GR-K-1	VIC3-GR-L-1	DETECTION LIMIT
CANTEST ID:		512200524	512200527	512200530	512200532	
Aluminum	Al	17.0	9.0	32.3	4.3	0.5
Antimony	Sb	<	<	< 0.6	< 0.2	0.1
Arsenic	As	0.2	0.3	< 0.6	0.4	0.1
Barium	Ba	0.7	0.5	1.2	0.2	0.1
Beryllium	Be	<	<	< 0.12	< 0.04	0.02
Boron	B	<	<	< 12	< 4	2
Cadmium	Cd	<	0.08	0.79	0.55	0.02
Calcium	Ca	2700	2140	1520	439	1
Chromium	Cr	0.3	0.4	1.9	0.4	0.1
Cobalt	Co	0.1	<	1.0	0.7	0.1
Copper	Cu	2.5	2.6	6.0	9.1	0.1
Iron	Fe	86	53	905	398	5
Lead	Pb	<	<	< 0.6	< 0.2	0.1
Magnesium	Mg	1520	1540	842	847	0.5
Manganese	Mn	3.4	2.9	5.3	7.9	0.1
Mercury	Hg	0.149	0.132	0.233	0.344	0.01
Molybdenum	Mo	<	<	< 0.6	0.3	0.1
Nickel	Ni	<	<	< 0.6	< 0.2	0.1
Phosphorus	P	12900	12000	10800	12400	0.5
Potassium	K	22700	21800	12600	13300	1
Selenium	Se	1.7	1.1	10.3	8.4	0.2
Silicon	Si	81	72	161	74	10
Silver	Ag	<	0.01	0.14	0.08	0.01
Sodium	Na	2780	3080	3260	4550	1
Strontium	Sr	4.19	3.44	2.59	0.88	0.05
Tellurium	Te	<	<	< 0.6	< 0.2	0.1
Thallium	Tl	<	<	< 0.12	0.06	0.02
Tin	Sn	<	<	< 0.6	< 0.2	0.1
Titanium	Ti	6.4	4.8	8.3	4.6	0.3
Uranium	U	<	<	< 0.24	< 0.08	0.04
Vanadium	V	<	<	< 3	< 1	0.5
Zinc	Zn	21.7	27.4	84.6	74.3	0.5
Zirconium	Zr	<	<	< 18	< 6	3

Results expressed as micrograms per gram, dry basis ( $\mu\text{g/g}$ )  
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REPORTED TO: Environmental Dynamics Inc.



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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:	VIC4-GR-T-1	VIC4-GR-L-1	VIC4-GR-K-1	Pond-SHRE-1 (whole body grind)	DETECTION LIMIT	
CANTEST ID:	512200534	512200537	512200539	512200541		
Aluminum	Al	4.7	2.9	6.9	11.0	0.5
Antimony	Sb	<	< 0.3	< 0.4	<	0.1
Arsenic	As	0.2	0.4	0.8	1.9	0.1
Barium	Ba	0.5	< 0.3	0.6	4.3	0.1
Beryllium	Be	<	< 0.06	< 0.08	<	0.02
Boron	B	<	< 6	< 8	<	2
Cadmium	Cd	0.04	0.94	1.36	1.81	0.02
Calcium	Ca	3160	397	2280	31600	1
Chromium	Cr	0.2	0.6	< 0.4	0.1	0.1
Cobalt	Co	0.3	1.9	3.6	0.1	0.1
Copper	Cu	2.2	18.0	5.9	13.1	0.1
Iron	Fe	38	427	1020	455	5
Lead	Pb	<	< 0.3	< 0.4	0.5	0.1
Magnesium	Mg	1520	728	1110	1490	0.5
Manganese	Mn	2.4	5.2	4.1	15.8	0.1
Mercury	Hg	0.124	0.302	0.250	0.169	0.01
Molybdenum	Mo	<	< 0.3	< 0.4	0.6	0.1
Nickel	Ni	<	< 0.3	< 0.4	0.2	0.1
Phosphorus	P	12700	10100	13500	19900	0.5
Potassium	K	48400	12100	15400	9640	1
Selenium	Se	2.7	15.4	24.7	2.1	0.2
Silicon	Si	62	77	106	65	10
Silver	Ag	<	0.07	0.07	0.02	0.01
Sodium	Na	2700	4750	4650	4770	1
Strontium	Sr	4.59	0.81	3.43	10.7	0.05
Tellurium	Te	<	< 0.3	< 0.4	<	0.1
Thallium	Tl	<	< 0.06	< 0.08	<	0.02
Tin	Sn	<	< 0.3	< 0.4	<	0.1
Titanium	Ti	4.7	3.9	5.1	8.6	0.3
Uranium	U	<	< 0.12	< 0.16	<	0.04
Vanadium	V	<	< 1.5	< 2	<	0.5
Zinc	Zn	22.4	64.6	85.4	101	0.5
Zirconium	Zr	<	< 9	< 12	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		SM4-SHRE-1 (whole body grind)	SM4-SHRE-2 (whole body grind)	SM4-SHRE-3 (whole body grind)	SM4-SHRE-4 (whole body grind)	DETECTION LIMIT
CANTEST ID:		512200544	512200546	512200553	512200555	
Aluminum	Al	8.1	10.5	6.8	6.3	0.5
Antimony	Sb	<	<	<	<	0.1
Arsenic	As	0.2	0.2	0.1	0.2	0.1
Barium	Ba	5.3	7.8	3.5	12.6	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	3	<	<	<	2
Cadmium	Cd	1.72	0.31	0.37	1.61	0.02
Calcium	Ca	32200	24400	21000	22000	1
Chromium	Cr	0.1	<	<	<	0.1
Cobalt	Co	<	<	<	<	0.1
Copper	Cu	11.7	10.3	10.8	11.9	0.1
Iron	Fe	428	261	307	312	5
Lead	Pb	0.1	<	0.2	0.3	0.1
Magnesium	Mg	1520	1320	1090	1300	0.5
Manganese	Mn	15.7	26.7	25.6	44.9	0.1
Mercury	Hg	0.110	0.039	0.021	0.091	0.01
Molybdenum	Mo	0.5	0.3	0.3	0.3	0.1
Nickel	Ni	0.3	0.2	0.2	0.1	0.1
Phosphorus	P	21000	18700	17200	16400	0.5
Potassium	K	10600	11900	11100	9950	1
Selenium	Se	1.4	1.0	1.0	1.1	0.2
Silicon	Si	56	67	55	60	10
Silver	Ag	0.01	0.04	0.03	0.04	0.01
Sodium	Na	4850	4710	5250	4270	1
Strontium	Sr	9.09	8.39	6.50	9.23	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	8.5	8.2	6.9	6.7	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	<	<	<	<	0.5
Zinc	Zn	95.0	91.8	81.8	94.9	0.5
Zirconium	Zr	<	<	<	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		RAW-RBVO-1-K	RAW-GRJA-1-K	MINE-SQUI-1-K	MINE-GRSQ-1-K	DETECTION LIMIT
CANTEST ID:		512200557	512200559	512200562	512200564	
Aluminum	Al	2.4	2.3	2.1	2.7	0.5
Antimony	Sb	< 0.3	< 0.3	< 0.3	<	0.2
Arsenic	As	< 0.3	< 0.3	< 0.3	9.8	0.1
Barium	Ba	0.6	< 0.3	< 0.3	< 0.2	0.1
Beryllium	Be	< 0.06	< 0.06	< 0.06	<	0.04
Boron	B	< 6	< 6	< 6	<	4
Cadmium	Cd	5.12	7.35	1.86	44.8	0.02
Calcium	Ca	300	299	285	433	1
Chromium	Cr	1.4	0.5	0.5	0.6	0.1
Cobalt	Co	< 0.3	< 0.3	< 0.3	<	0.2
Copper	Cu	18.6	20.3	17.2	12.1	0.1
Iron	Fe	470	399	312	124	5
Lead	Pb	< 0.3	< 0.3	< 0.3	3.5	0.1
Magnesium	Mg	753	686	870	479	0.5
Manganese	Mn	8.5	10.9	13.3	3.4	0.1
Mercury	Hg	0.238	0.124	0.041	0.678	0.02
Molybdenum	Mo	2.0	1.9	0.6	1.0	0.1
Nickel	Ni	0.5	< 0.3	< 0.3	< 0.2	0.1
Phosphorus	P	11000	11700	10900	8510	0.5
Potassium	K	7970	6580	7130	4860	1
Selenium	Se	2.5	2.2	1.2	4.1	0.2
Silicon	Si	74	63	94	78	10
Silver	Ag	< 0.03	< 0.03	< 0.03	<	0.02
Sodium	Na	3880	4440	2550	2710	1
Strontium	Sr	0.56	0.26	0.55	0.20	0.05
Tellurium	Te	< 0.3	< 0.3	< 0.3	<	0.2
Thallium	Tl	< 0.06	< 0.06	< 0.06	<	0.04
Tin	Sn	< 0.3	< 0.3	< 0.3	<	0.2
Titanium	Ti	3.5	3.6	3.6	2.9	0.3
Uranium	U	< 0.12	< 0.12	< 0.12	<	0.08
Vanadium	V	< 1.5	< 1.5	< 1.5	<	1
Zinc	Zn	80.3	85.2	89.6	80.2	0.5
Zirconium	Zr	< 9	< 9	< 9	<	6

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		MINE-GRJA-1-K	MINE-RBVO-1-K	MINE-RBVO-2-K	MINE-RBVO-3-K	DETECTION LIMIT
CANTEST ID:		512200566	512200568	512200571	512200573	
Aluminum	Al	2.3	2.7	2.3	2.7	0.5
Antimony	Sb	<	<	<	<	0.3
Arsenic	As	<	0.4	<	<	0.3
Barium	Ba	0.4	< 0.3	0.5	0.5	0.1
Beryllium	Be	<	<	<	<	0.06
Boron	B	<	<	<	<	6
Cadmium	Cd	13.7	15.9	14.1	24.3	0.02
Calcium	Ca	359	296	288	300	1
Chromium	Cr	0.6	0.6	0.4	0.5	0.1
Cobalt	Co	<	<	<	<	0.3
Copper	Cu	17.1	19.9	17.1	18.7	0.1
Iron	Fe	494	414	412	295	5
Lead	Pb	< 0.3	0.9	1.0	0.5	0.1
Magnesium	Mg	734	758	557	692	0.5
Manganese	Mn	12.4	12.7	11.5	10.9	0.1
Mercury	Hg	<	0.297	0.153	0.158	0.03
Molybdenum	Mo	1.8	1.6	1.2	1.7	0.1
Nickel	Ni	<	<	<	<	0.3
Phosphorus	P	11400	11300	10500	11000	0.5
Potassium	K	7990	7550	5580	7600	1
Selenium	Se	2.3	2.2	2.1	2.1	0.2
Silicon	Si	74	78	92	74	10
Silver	Ag	<	0.04	<	<	0.03
Sodium	Na	4170	3790	3070	3750	1
Strontium	Sr	0.37	0.34	0.31	0.35	0.05
Tellurium	Te	<	<	<	<	0.3
Thallium	Tl	<	<	<	<	0.06
Tin	Sn	<	<	<	<	0.3
Titanium	Ti	4.0	3.7	3.5	3.6	0.3
Uranium	U	<	<	<	<	0.12
Vanadium	V	<	<	<	<	1.5
Zinc	Zn	88.9	86.1	86.3	85.5	0.5
Zirconium	Zr	<	<	<	<	9

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		RAW-GRJA-1 -L	RAW-GRJA-2 -L	RAW-RBVO-1 -L	RAW-RBVO-2 -L	DETECTION LIMIT
CANTEST ID:		512200575	512200577	512200580	512200583	
Aluminum	Al	1.0	1.2	2.2	1.6	0.5
Antimony	Sb	<	<	<	< 0.2	0.1
Arsenic	As	<	<	<	< 0.2	0.1
Barium	Ba	0.2	0.2	0.2	0.3	0.1
Beryllium	Be	<	<	<	< 0.04	0.02
Boron	B	<	<	<	< 4	2
Cadmium	Cd	1.75	5.60	2.15	1.58	0.02
Calcium	Ca	225	204	217	474	1
Chromium	Cr	<	<	<	< 0.2	0.1
Cobalt	Co	<	<	<	< 0.2	0.1
Copper	Cu	15.3	15.5	16.5	16.5	0.1
Iron	Fe	6960	7880	777	717	5
Lead	Pb	<	<	<	< 0.2	0.1
Magnesium	Mg	692	627	711	711	0.5
Manganese	Mn	4.6	5.5	10.7	9.5	0.1
Mercury	Hg	0.082	0.087	0.080	0.050	0.01
Molybdenum	Mo	4.1	4.4	3.7	3.8	0.1
Nickel	Ni	<	<	<	< 0.2	0.1
Phosphorus	P	10900	9790	10100	10400	0.5
Potassium	K	8020	6060	8360	8060	1
Selenium	Se	1.4	1.4	1.9	1.4	0.2
Silicon	Si	47	64	39	49	10
Silver	Ag	<	<	<	< 0.02	0.01
Sodium	Na	4110	3380	3280	3710	1
Strontium	Sr	0.14	0.14	0.20	0.41	0.05
Tellurium	Te	<	<	<	< 0.2	0.1
Thallium	Tl	<	<	<	< 0.04	0.02
Tin	Sn	<	<	<	< 0.2	0.1
Titanium	Ti	3.3	3.0	2.9	3.0	0.3
Uranium	U	<	<	<	< 0.08	0.04
Vanadium	V	<	<	<	< 1	0.5
Zinc	Zn	83.5	90.0	89.0	87.2	0.5
Zirconium	Zr	<	<	<	< 6	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		RAW-RBVO-3-L	MINE-GRSQ-1-L	MINE-SQUI-1-L	MINE-GRJA-1-L	DETECTION LIMIT
CANTEST ID:		512200585	512200587	512200589	512200593	
Aluminum	Al	2.3	2.2	3.2	2.0	0.5
Antimony	Sb	< 0.2	<	< 0.2	<	0.1
Arsenic	As	< 0.2	5.4	< 0.2	0.8	0.1
Barium	Ba	< 0.2	0.3	< 0.2	0.3	0.1
Beryllium	Be	< 0.04	<	< 0.04	<	0.02
Boron	B	< 4	<	< 4	<	2
Cadmium	Cd	0.70	12.1	0.82	9.93	0.02
Calcium	Ca	273	199	268	287	1
Chromium	Cr	< 0.2	0.2	0.3	<	0.1
Cobalt	Co	< 0.2	<	< 0.2	<	0.1
Copper	Cu	16.3	18.6	14.1	15.5	0.1
Iron	Fe	621	111	870	9180	5
Lead	Pb	< 0.2	1.0	< 0.2	0.2	0.1
Magnesium	Mg	664	596	624	704	0.5
Manganese	Mn	7.6	7.5	12.2	10.3	0.1
Mercury	Hg	0.088	0.108	< 0.02	0.076	0.01
Molybdenum	Mo	3.3	3.4	1.2	3.9	0.1
Nickel	Ni	< 0.2	<	< 0.2	<	0.1
Phosphorus	P	9970	8840	8990	10700	0.5
Potassium	K	7200	7580	6160	7850	1
Selenium	Se	2.0	1.6	0.5	1.5	0.2
Silicon	Si	52	57	59	58	10
Silver	Ag	< 0.02	0.05	< 0.02	0.11	0.01
Sodium	Na	3450	1770	2480	3070	1
Strontium	Sr	0.28	0.23	0.29	0.16	0.05
Tellurium	Te	< 0.2	<	< 0.2	<	0.1
Thallium	Tl	< 0.04	<	< 0.04	<	0.02
Tin	Sn	< 0.2	<	< 0.2	<	0.1
Titanium	Ti	2.8	2.8	2.7	3.3	0.3
Uranium	U	< 0.08	<	< 0.08	<	0.04
Vanadium	V	< 1	<	< 1	<	0.5
Zinc	Zn	82.5	93.5	69.2	91.3	0.5
Zirconium	Zr	< 6	<	< 6	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		MINE-GRJA-2-L	MINE-RBVO-1-L	MINE-RBVO-2-L	MINE-RBVO-3-L	DETECTION LIMIT
CANTEST ID:		512200595	512200597	512200599	512200601	
Aluminum	Al	1.4	2.5	1.7	1.6	0.5
Antimony	Sb	< 0.2	<	< 0.2	<	0.1
Arsenic	As	0.7	<	0.4	<	0.1
Barium	Ba	0.5	0.3	< 0.2	<	0.1
Beryllium	Be	< 0.04	<	< 0.04	<	0.02
Boron	B	< 4	<	< 4	<	2
Cadmium	Cd	3.12	8.80	6.00	36.6	0.02
Calcium	Ca	313	324	198	176	1
Chromium	Cr	< 0.2	<	< 0.2	0.2	0.1
Cobalt	Co	< 0.2	0.2	< 0.2	<	0.1
Copper	Cu	13.4	18.2	15.8	17.7	0.1
Iron	Fe	6870	389	522	604	5
Lead	Pb	0.3	<	< 0.2	<	0.1
Magnesium	Mg	648	662	599	665	0.5
Manganese	Mn	8.8	14.4	10.8	9.1	0.1
Mercury	Hg	0.048	0.115	0.048	0.075	0.01
Molybdenum	Mo	3.2	2.9	2.8	3.3	0.1
Nickel	Ni	< 0.2	<	< 0.2	<	0.1
Phosphorus	P	10200	9920	8910	9390	0.5
Potassium	K	6780	7250	6330	6700	1
Selenium	Se	1.0	1.6	1.6	1.7	0.2
Silicon	Si	68	45	42	41	10
Silver	Ag	0.04	<	< 0.02	0.03	0.01
Sodium	Na	2950	2880	2750	2840	1
Strontium	Sr	0.34	0.24	0.17	0.15	0.05
Tellurium	Te	< 0.2	<	< 0.2	<	0.1
Thallium	Tl	< 0.04	<	< 0.04	<	0.02
Tin	Sn	< 0.2	<	< 0.2	<	0.1
Titanium	Ti	3.2	2.8	2.5	2.5	0.3
Uranium	U	< 0.08	<	< 0.08	<	0.04
Vanadium	V	< 1	<	< 1	<	0.5
Zinc	Zn	80.3	92.5	83.8	107	0.5
Zirconium	Zr	< 6	<	< 6	<	3

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**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		MINE-RBVO-4-L	MINE-RBVO-5-L	MINE-RBVO-6-L	MINE-RBVO-7-L	DETECTION LIMIT
CANTEST ID:		512200604	512200606	512200608	512200611	
Aluminum	Al	1.7	1.8	1.7	1.7	0.5
Antimony	Sb	< 0.2	< 0.2	< 0.2	<	0.1
Arsenic	As	< 0.2	< 0.2	< 0.2	0.8	0.1
Barium	Ba	< 0.2	0.6	< 0.2	<	0.1
Beryllium	Be	< 0.04	< 0.04	< 0.04	<	0.02
Boron	B	< 4	< 4	< 4	<	2
Cadmium	Cd	8.38	6.23	11.6	11.0	0.02
Calcium	Ca	170	381	233	206	1
Chromium	Cr	0.4	0.3	0.5	0.3	0.1
Cobalt	Co	< 0.2	< 0.2	< 0.2	<	0.1
Copper	Cu	14.7	17.0	13.6	15.5	0.1
Iron	Fe	441	418	538	426	5
Lead	Pb	< 0.2	< 0.2	< 0.2	0.4	0.1
Magnesium	Mg	704	669	606	667	0.5
Manganese	Mn	9.3	14.2	8.1	12.9	0.1
Mercury	Hg	0.033	0.064	0.099	0.117	0.01
Molybdenum	Mo	3.0	2.4	3.1	3.8	0.1
Nickel	Ni	< 0.2	< 0.2	< 0.2	<	0.1
Phosphorus	P	9350	9660	8970	9660	0.5
Potassium	K	6720	7420	6080	6920	1
Selenium	Se	1.1	1.2	1.4	1.7	0.2
Silicon	Si	48	48	54	50	10
Silver	Ag	< 0.02	0.04	0.03	0.04	0.01
Sodium	Na	3230	2610	3190	3340	1
Strontium	Sr	0.16	0.41	0.16	0.12	0.05
Tellurium	Te	< 0.2	< 0.2	< 0.2	<	0.1
Thallium	Tl	< 0.04	< 0.04	< 0.04	<	0.02
Tin	Sn	< 0.2	< 0.2	< 0.2	<	0.1
Titanium	Ti	2.5	2.6	2.5	2.6	0.3
Uranium	U	< 0.08	< 0.08	< 0.08	<	0.04
Vanadium	V	< 1	< 1	< 1	<	0.5
Zinc	Zn	85.7	89.3	92.7	88.4	0.5
Zirconium	Zr	< 6	< 6	< 6	<	3

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GROUP NUMBER: 61220106

**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		LELA-D4-1	LELA-B5-1	VAVI-B3-1	EMNI-B2-1	DETECTION LIMIT
CANTEST ID:		512200613	512200615	512200617	512200619	
Aluminum	Al	28.3	14.8	23.3	2.9	0.5
Antimony	Sb	<	<	<	< 0.2	0.1
Arsenic	As	<	<	<	< 0.2	0.1
Barium	Ba	64.8	44.3	23.9	7.5	0.1
Beryllium	Be	<	<	<	< 0.04	0.02
Boron	B	15	18	11	9	2
Cadmium	Cd	<	<	<	< 0.04	0.02
Calcium	Ca	5080	4010	1220	668	1
Chromium	Cr	<	<	<	< 0.2	0.1
Cobalt	Co	<	<	<	< 0.2	0.1
Copper	Cu	2.6	3.9	3.9	5.1	0.1
Iron	Fe	54	36	16	14	5
Lead	Pb	<	<	<	< 0.2	0.1
Magnesium	Mg	1270	1190	732	446	0.5
Manganese	Mn	644	1230	558	130	0.1
Mercury	Hg	<	<	<	< 0.02	0.01
Molybdenum	Mo	0.3	<	<	< 0.2	0.1
Nickel	Ni	0.3	0.3	0.4	0.3	0.1
Phosphorus	P	1340	1400	1160	659	0.5
Potassium	K	4410	4210	6100	7020	1
Selenium	Se	<	<	<	< 0.4	0.2
Silicon	Si	112	80	78	75	10
Silver	Ag	<	<	<	< 0.02	0.01
Sodium	Na	13	5	4	18	1
Strontium	Sr	9.28	4.05	1.06	0.88	0.05
Tellurium	Te	<	<	<	< 0.2	0.1
Thallium	Tl	0.07	<	<	< 0.04	0.02
Tin	Sn	<	<	<	< 0.2	0.1
Titanium	Ti	1.1	0.7	0.5	< 0.6	0.3
Uranium	U	<	<	<	< 0.08	0.04
Vanadium	V	<	<	<	< 1	0.5
Zinc	Zn	27.8	25.1	7.8	5.7	0.5
Zirconium	Zr	<	<	<	< 6	3

Results expressed as micrograms per gram, dry basis ( $\mu\text{g/g}$ )  
 < = Less than detection limit



REPORTED TO: Environmental Dynamics Inc.



REPORT DATE: February 1, 2006

GROUP NUMBER: 61220106

**Metals Analysis in Tissue**

CLIENT SAMPLE IDENTIFICATION:		SASP-B1-1	LELA-B4-1	VAVI-R3-1	LELA-B1-1	DETECTION LIMIT
CANTEST ID:		512200621	512200624	512200626	512200628	
Aluminum	Al	102	30.5	15.3	35.3	0.5
Antimony	Sb	0.6	<	<	0.3	0.1
Arsenic	As	4.7	<	0.3	4.1	0.1
Barium	Ba	68.9	70.2	8.6	64.0	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	8	14	12	10	2
Cadmium	Cd	0.81	<	<	0.04	0.02
Calcium	Ca	8250	4140	1100	4250	1
Chromium	Cr	0.5	<	<	<	0.1
Cobalt	Co	1.0	<	<	<	0.1
Copper	Cu	5.5	3.5	4.4	3.8	0.1
Iron	Fe	209	43	22	87	5
Lead	Pb	5.9	<	<	3.8	0.1
Magnesium	Mg	2870	1070	652	784	0.5
Manganese	Mn	435	1170	402	1420	0.1
Mercury	Hg	<	<	<	<	0.01
Molybdenum	Mo	<	<	<	<	0.1
Nickel	Ni	2.4	0.5	<	0.4	0.1
Phosphorus	P	1230	1240	1080	1200	0.5
Potassium	K	6110	3740	6410	3210	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	166	85	92	91	10
Silver	Ag	0.11	<	<	0.06	0.01
Sodium	Na	13	3	3	7	1
Strontium	Sr	71.8	6.79	1.58	5.72	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	0.06	<	0.11	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	1.8	0.7	0.5	0.8	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	<	<	<	<	0.5
Zinc	Zn	147	20.1	12.4	22.4	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ( $\mu\text{g/g}$ )  
 < = Less than detection limit



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REPORT DATE: February 1, 2006

GROUP NUMBER: 61220106

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		VIC3-GR-T-3B	DETECTION LIMIT
CANTEST ID:		601170153	
Aluminum	Al	2.1	0.5
Antimony	Sb	<	0.1
Arsenic	As	0.2	0.1
Barium	Ba	0.2	0.1
Beryllium	Be	<	0.02
Boron	B	<	2
Cadmium	Cd	<	0.02
Calcium	Ca	1530	1
Chromium	Cr	0.2	0.1
Cobalt	Co	<	0.1
Copper	Cu	2.8	0.1
Iron	Fe	36	5
Lead	Pb	<	0.1
Magnesium	Mg	1490	0.5
Manganese	Mn	1.4	0.1
Mercury	Hg	0.118	0.01
Molybdenum	Mo	<	0.1
Nickel	Ni	<	0.1
Phosphorus	P	11400	0.5
Potassium	K	21900	1
Selenium	Se	1.5	0.2
Silicon	Si	64	10
Silver	Ag	<	0.01
Sodium	Na	3190	1
Strontium	Sr	1.78	0.05
Tellurium	Te	<	0.1
Thallium	Tl	<	0.02
Tin	Sn	<	0.1
Titanium	Ti	4.5	0.3
Uranium	U	<	0.04
Vanadium	V	<	0.5
Zinc	Zn	24.5	0.5
Zirconium	Zr	<	3

Results expressed as micrograms per gram, dry basis ( $\mu\text{g/g}$ )  
< = Less than detection limit



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REPORT DATE: February 1, 2006

GROUP NUMBER: 61220106

**Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 75413)**

Parameter		Blank (ug/g)	Blank Limits	Duplicate (R.P.D.) 512200455	Duplicate Limits	Duplicate (R.P.D.) 512200470	Duplicate Limits
Aluminum	Al	< 0.5	0.2	15.5	20	0.3	20
Antimony	Sb	< 0.1	0.001	NC	20	NC	20
Arsenic	As	< 0.1	0.002	16.2	20	0	20
Barium	Ba	< 0.1	0.001	10.9	20	13.5	20
Beryllium	Be	< 0.02	0.001	NC	20	NC	20
Boron	B	< 2	0.02	NC	20	NC	20
Cadmium	Cd	< 0.02	0.0004	15.4	20	1.9	20
Calcium	Ca	< 1	0.3	6.5	20	2.1	20
Chromium	Cr	< 0.1	0.001	0	20	PASS	20
Cobalt	Co	< 0.1	0.001	PASS	20	PASS	20
Copper	Cu	< 0.1	0.001	6.9	20	2.6	20
Iron	Fe	< 5	0.05	6.9	20	6.3	20
Lead	Pb	< 0.1	0.002	0	20	PASS	20
Magnesium	Mg	< 0.5	0.2	8.4	20	5.6	20
Manganese	Mn	< 0.1	0.01	2.1	20	2	20
Mercury	Hg	-	-	19.4	20	(*)	20
Molybdenum	Mo	< 0.1	0.002	NC	20	NC	20
Nickel	Ni	< 0.1	0.003	0	20	PASS	20
Phosphorus	P	< 0.5	0.1	6	20	0.5	20
Potassium	K	< 1	0.3	2.7	20	4.3	20
Selenium	Se	< 0.2	0.004	2.6	20	0	20
Silver	Ag	< 0.01	0.001	NC	20	PASS	20
Sodium	Na	< 1	0.5	1.8	20	0.2	20
Strontium	Sr	< 0.05	0.002	7.7	20	2	20
Tellurium	Te	< 0.1	0.002	NC	20	NC	20
Thallium	Tl	< 0.02	0.002	NC	20	NC	20
Tin	Sn	< 0.1	0.01	NC	20	NC	20
Titanium	Ti	< 0.3	0.01	9	20	0.8	20
Uranium	U	< 0.04	0.002	NC	20	PASS	20
Vanadium	V	< 0.5	0.002	PASS	20	PASS	20
Zinc	Zn	< 0.5	0.04	0.9	20	2.1	20
Zirconium	Zr	< 3	0.04	NC	20	NC	20

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.

(\*) = Quality Control results exceeded internally set limits; after review by Quality Assurance Unit, non-conformance overridden and batch sample analysis results released for reporting



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GROUP NUMBER: 61220106

**Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 75413)**

Parameter		Duplicate (R.P.D.) 512200527	Duplicate Limits	NIST1570a Spinach Leaves (% Recovery)	NIST1570a Spinach Leaves Limits	NRC TORT-2, "Lobster Tissue" (% Recovery)	NRC TORT-2, "Lobster Tissue" Limits
Aluminum	Al	15.6	20	30	17 - 93	-	-
Antimony	Sb	NC	20	-	-	-	-
Arsenic	As	PASS	20	-	-	87	66 - 113
Barium	Ba	18.2	20	-	-	-	-
Beryllium	Be	NC	20	-	-	-	-
Boron	B	NC	20	93	63 - 143	-	-
Cadmium	Cd	PASS	20	67	39 - 114	81	63 - 118
Calcium	Ca	4.7	20	79	60 - 120	-	-
Chromium	Cr	0	20	-	-	61	60 - 120
Cobalt	Co	NC	20	77	50 - 150	98	60 - 120
Copper	Cu	3.9	20	89	62 - 124	89	60 - 120
Iron	Fe	7.5	20	-	-	90	60 - 120
Lead	Pb	NC	20	-	-	114	39 - 150
Magnesium	Mg	1.9	20	-	-	-	-
Manganese	Mn	10.9	20	82	53 - 134	85	60 - 120
Mercury	Hg	5.3	20	83	59 - 119	85	85 - 115
Molybdenum	Mo	NC	20	-	-	95	60 - 120
Nickel	Ni	NC	20	79	58 - 126	80	50 - 122
Phosphorus	P	1.7	20	93	60 - 120	-	-
Potassium	K	4.1	20	98	60 - 120	-	-
Selenium	Se	8.7	20	-	-	85	67 - 118
Silver	Ag	PASS	20	-	-	-	-
Sodium	Na	1.3	20	100	60 - 120	-	-
Strontium	Sr	18.9	20	89	60 - 120	84	60 - 120
Tellurium	Te	NC	20	-	-	-	-
Thallium	Tl	NC	20	-	-	-	-
Tin	Sn	NC	20	-	-	-	-
Titanium	Ti	2.1	20	-	-	-	-
Uranium	U	NC	20	-	-	-	-
Vanadium	V	NC	20	88	50 - 150	110	60 - 120
Zinc	Zn	9.5	20	75	48 - 110	87	53 - 125
Zirconium	Zr	NC	20	-	-	-	-

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.



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**Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 75414)**

Parameter	Duplicate (R.P.D.) 512200587	Duplicate Limits	Duplicate (R.P.D.) 512200589	Duplicate Limits	Duplicate (R.P.D.) 512200613	Duplicate Limits
Mercury Hg	9.3	20	NC	20	NC	20

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.





REPORTED TO: Environmental Dynamics Inc.



REPORT DATE: February 1, 2006

GROUP NUMBER: 61220106

**Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 75414)**

Parameter	NIST1570a Spinach Leaves (% Recovery)	NIST1570a Spinach Leaves Limits	NRC TORT-2, "Lobster Tissue" (% Recovery)	NRC TORT-2, "Lobster Tissue" Limits
Mercury Hg	93	59 - 119	100	85 - 115

ug/g = micrograms per gram, dry basis



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**Instrument Quality Control for the Mercury Monitor (QC# 150799)**

QC Type: Calibration Verification

Parameter		% Recovery	Limits
Mercury	Hg	97	90 - 110



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**Instrument Quality Control for the Mercury Monitor (QC# 151044)**

QC Type: Calibration Verification

Parameter		% Recovery	Limits
Mercury	Hg	103	90 - 110



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**Batch Quality Control Frequency Summary**

Metals Plant Tissue Digestion (Batch# 75413)

QC Type	No. Samples
NIST1570a Spinach Leaves	1
NRC TORT-2, "Lobster Tissue"	1
Blank	2
Duplicate	3

Metals Plant Tissue Digestion (Batch# 75414)

QC Type	No. Samples
NIST1570a Spinach Leaves	1
NRC TORT-2, "Lobster Tissue"	1
Blank	2
Duplicate	3

Metals Plant Tissue Digestion (Batch# 75413)

QC Type	No. Samples
Batch Size	37

Metals Plant Tissue Digestion (Batch# 75414)

QC Type	No. Samples
Batch Size	32

