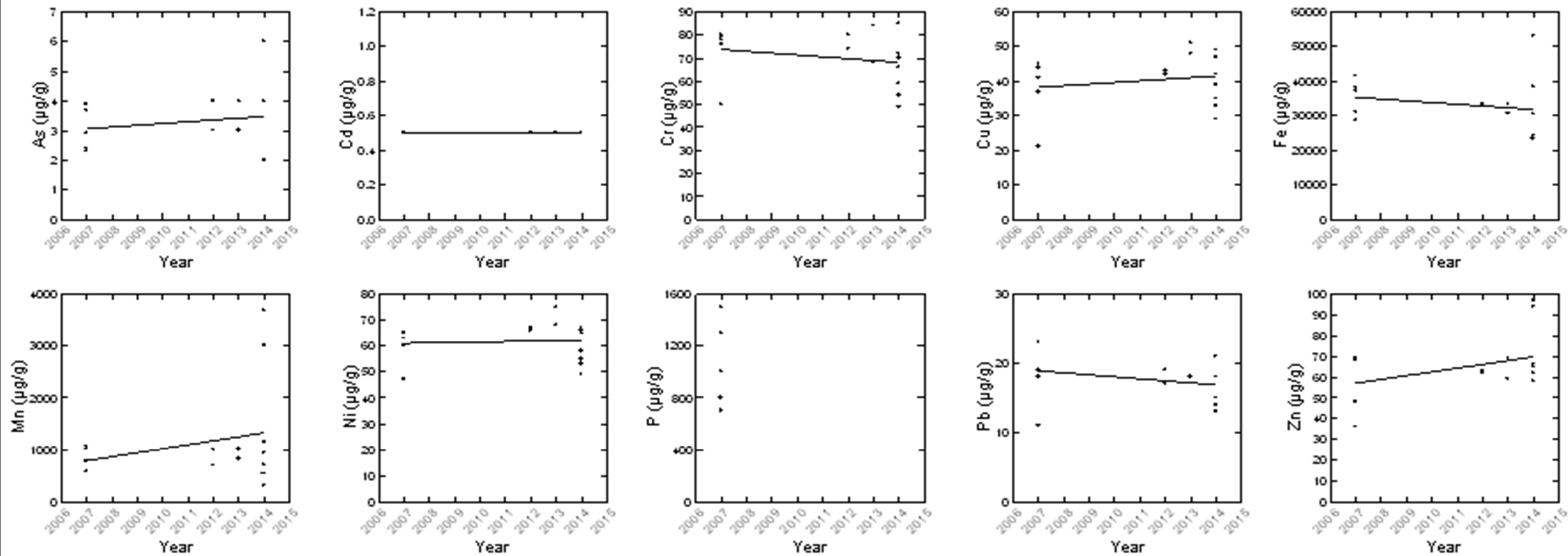
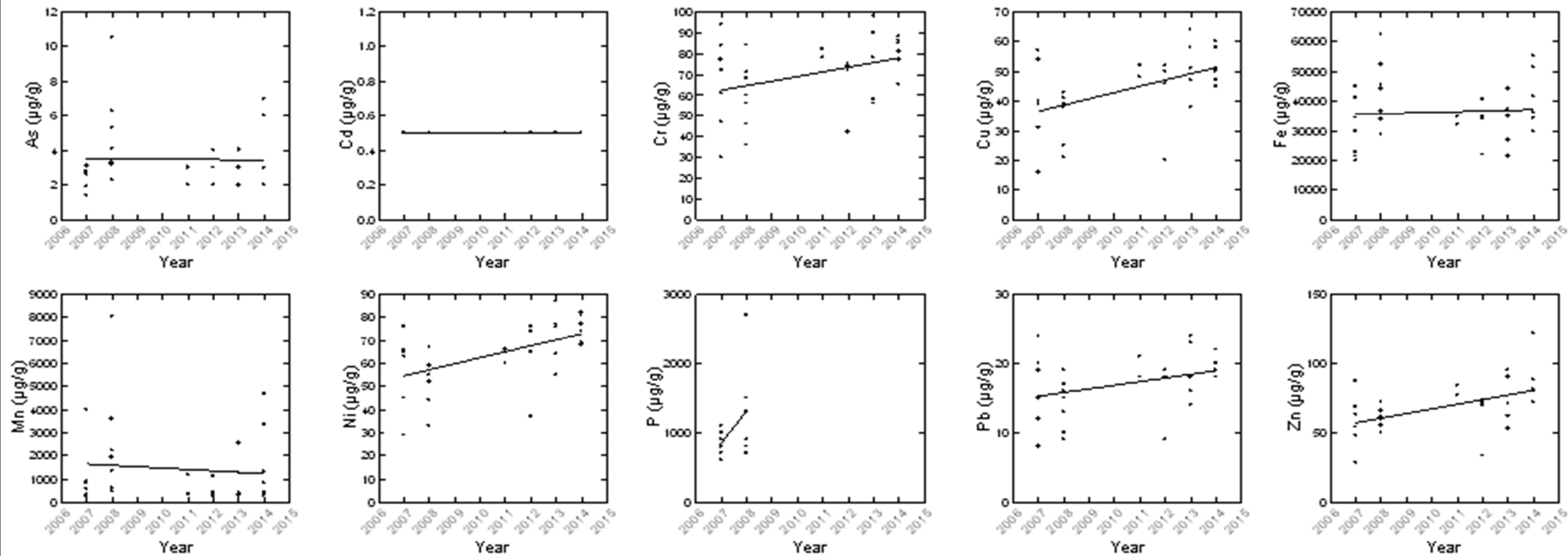


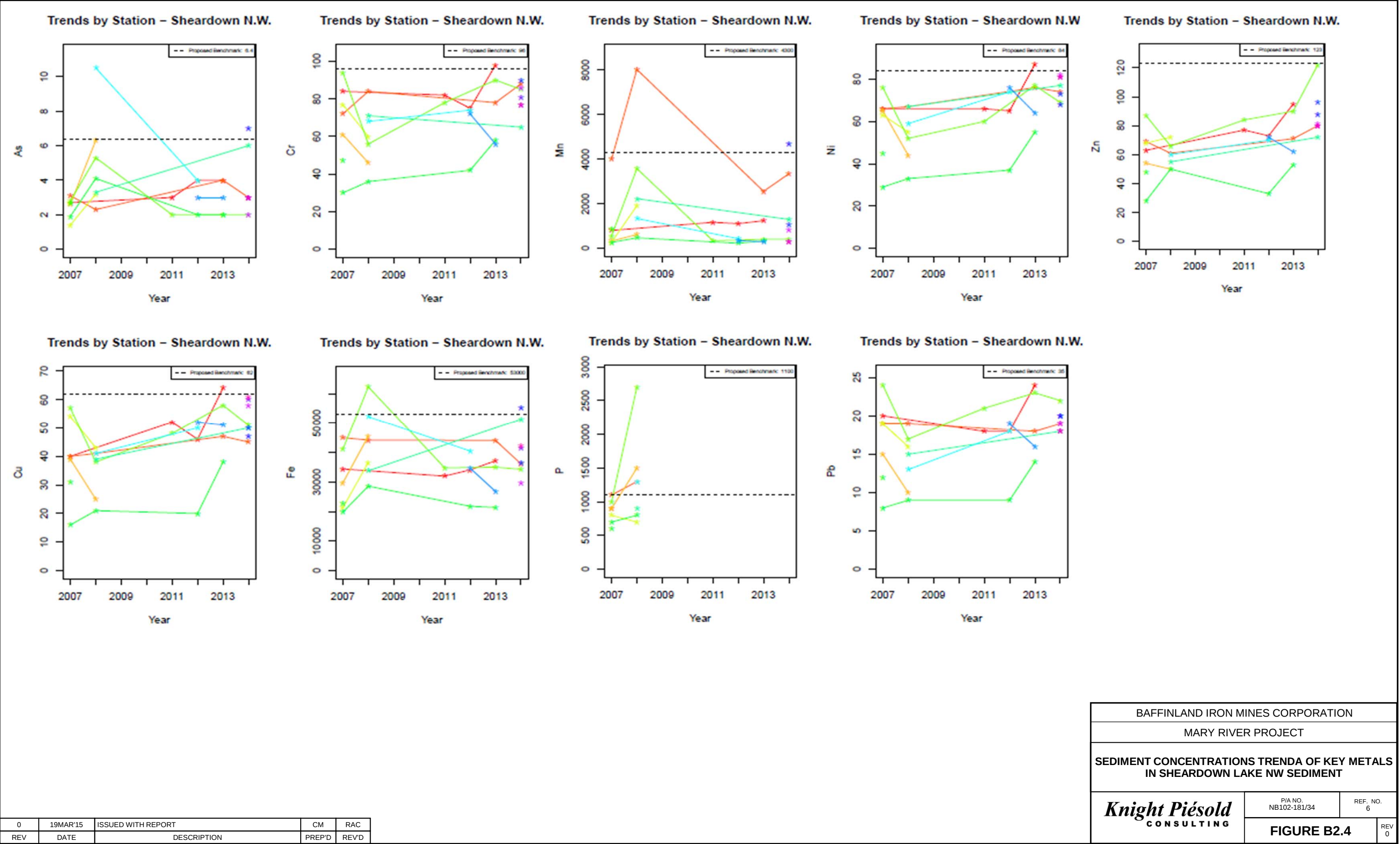


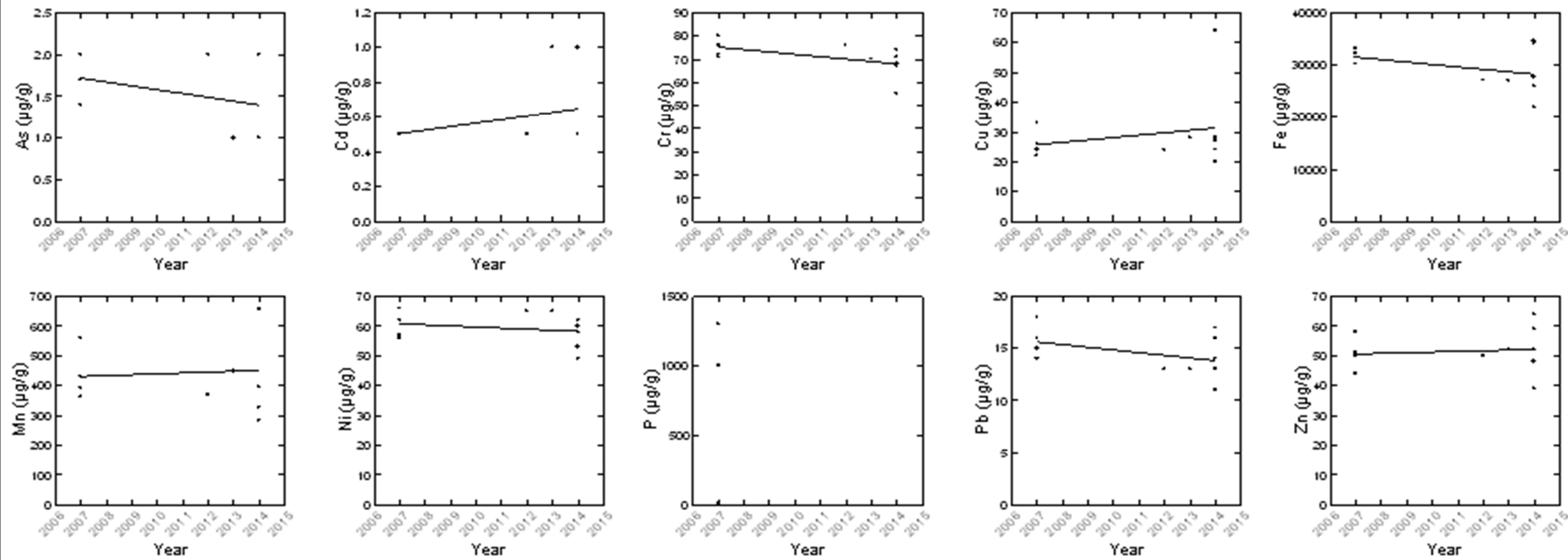
0	19MAR'15	ISSUED WITH REPORT	CM	RAC
REV	DATE	DESCRIPTION	PREP'D	REV'D

BAFFINLAND IRON MINES CORPORATION		
MARY RIVER PROJECT		
LINEAR REGRESSION OF KEY METALS CAMP LAKE SEDIMENT		
<i>Knight Piésold</i> CONSULTING	P/A NO. NB102-181/34	REF. NO. 6
	FIGURE B2.2	REV 0



BAFFINLAND IRON MINES CORPORATION				
MARY RIVER PROJECT				
LINEAR REGRESSION OF KEY METALS SHEARDOWN LAKE NW SEDIMENT				
<i>Knight Piésold</i> CONSULTING		P/A NO. NB102-181/34		REF. NO. 6
		FIGURE B2.3		REV 0
0	19MAR'15	ISSUED WITH REPORT	CM	RAC
REV	DATE	DESCRIPTION	PREP'D	REV'D





0					19MAR'15					ISSUED WITH REPORT					CM					RAC				
REV					DATE					DESCRIPTION					PREP'D					REV'D				

BAFFINLAND IRON MINES CORPORATION										MARY RIVER PROJECT										LINEAR REGRESSION OF KEY METALS SHEARDOWN LAKE SE SEDIMENT											
<i>Knight Piésold</i> CONSULTING										P/A NO. NB102-181/34										REF. NO. 6											
										FIGURE B2.5										REV 0											

APPENDIX C

2014 QA/QC

Appendix C1	2014 Blank Sample Results
Appendix C2	2014 Lake Water Quality QA/QC Results
Appendix C3	2014 Sediment Quality QA/QC Results

APPENDIX C1

2014 BLANK SAMPLE RESULTS

(Page C1-1)

TABLE C1.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QA/QC SAMPLE BLANK SUMMARY

Print Mar/19/15 12:36:16

	Sample ID	FIELD BLANK	FIELD BLANK	FIELD BLANK
	Date Sampled	27/07/2014	22/08/2014	25/08/2014
PARAMETER	MDL	(STREAM)	(STREAM)	(LAKE)
Physical Tests				
Alkalinity (Total as CaCO3)	5	<5	<5	<5
Conductivity (µS/cm)	5	<5	<5	<5
Hardness as CaCO3 (Dissolved)	1	<1	<1	<1
Hardness as CaCO3 (Total)	1	<1	<1	<1
pH (pH units)	-	5.82	6.2	5.77
Total Dissolved Solids	1	<1	<1	<1
Total Suspended Solids	2	<2	<2	<2
Turbidity (NTU)	0.1	0.2	<0.1	0.3
Dissolved Anions				
Bromide	0.25	<0.25	<0.25	<0.25
Chloride	1	<1	<1	<1
Sulphate	1	<1	<1	<1
Nutrients				
Ammonia (Total)	0.02	0.12	0.16	0.07
Nitrate (as N)	0.1	<0.1	<0.1	<0.1
Nitrate+Nitrite (Dissolved)	0.1	<0.1	<0.1	<0.1
Nitrite (as N)	0.005	<0.005	<0.005	<0.005
Nitrogen Kjeldahl (Total)	0.1	<0.1	0.11	<0.1
Phosphorus (Nutrient) Total	0.003	<0.003	<0.003	<0.003
Dissolved Metals				
Aluminum	0.003	<0.003	<0.003	<0.003
Antimony	0.0001	<0.0001	<0.0001	<0.0001
Arsenic	0.0001	<0.0001	<0.0001	<0.0001
Barium	0.00005	<0.00005	0.00043	<0.00005
Beryllium	0.0005	<0.0005	<0.0005	<0.0005
Bismuth	0.0005	<0.0005	<0.0005	<0.0005
Boron	0.01	<0.01	<0.01	<0.01
Cadmium	0.00001	<0.00001	<0.00001	<0.00001
Calcium	0.05	<0.05	0.22	<0.05
Chromium	0.0005	<0.0005	<0.0005	<0.0005
Cobalt	0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0005	<0.0005	0.0083	<0.0005
Iron	0.03	<0.03	<0.03	<0.03
Lead	0.00005	<0.00005	0.00007	<0.00005
Lithium	0.001	<0.001	<0.001	<0.001
Magnesium	0.05	<0.05	<0.05	<0.05
Manganese	0.00005	<0.00005	0.00124	<0.00005
Mercury	0.00001	<0.00001	<0.00001	<0.00001
Molybdenum	0.00005	<0.00005	<0.00005	<0.00005
Nickel	0.0005	<0.0005	<0.0005	<0.0005
Potassium	0.2	<0.2	<0.2	<0.2
Selenium	0.001	<0.001	<0.001	<0.001
Silicon	0.1	<0.1	<0.1	<0.1
Silver	0.00001	<0.00001	<0.00001	<0.00001
Sodium	0.05	<0.05	<0.05	<0.05
Strontium	0.0001	<0.0001	0.0008	<0.0001
Thallium	0.0001	<0.0001	<0.0001	<0.0001
Tin	0.0001	<0.0001	<0.0001	<0.0001
Titanium	0.01	<0.01	<0.01	<0.01
Uranium	0.00001	<0.00001	<0.00001	<0.00001
Vanadium	0.001	<0.001	<0.001	<0.001
Zinc	0.003	<0.003	<0.003	<0.003
Total Metals				
Aluminum	0.003	<0.003	<0.003	<0.003
Antimony	0.0001	<0.0001	<0.0001	<0.0001
Arsenic	0.0001	<0.0001	<0.0001	<0.0001
Barium	0.00005	<0.00005	0.00047	<0.00005
Beryllium	0.0005	<0.0005	<0.0005	<0.0005
Bismuth	0.0005	<0.0005	<0.0005	<0.0005
Boron	0.01	<0.01	<0.01	<0.01
Cadmium	0.00001	<0.00001	<0.00001	<0.00001
Calcium	0.05	<0.05	0.23	<0.05
Chromium	0.0005	<0.0005	<0.0005	<0.0005
Cobalt	0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0005	<0.0005	0.0085	<0.0005
Iron	0.03	<0.03	<0.03	<0.03
Lead	0.00005	<0.00005	0.00008	<0.00005
Lithium	0.001	<0.001	<0.001	<0.001
Magnesium	0.05	<0.05	<0.05	<0.05
Manganese	0.00005	<0.00005	0.00127	<0.00005
Mercury	0.00001	<0.00001	<0.00001	<0.00001
Molybdenum	0.00005	<0.00005	<0.00005	<0.00005
Nickel	0.0005	<0.0005	<0.0005	<0.0005
Potassium	0.2	<0.2	<0.2	<0.2
Selenium	0.001	<0.001	<0.001	<0.001
Silicon	0.1	<0.1	<0.1	<0.1
Silver	0.00001	<0.00001	<0.00001	<0.00001
Sodium	0.05	<0.05	<0.05	<0.05
Strontium	0.0001	<0.0001	0.0009	<0.0001
Thallium	0.0001	<0.0001	<0.0001	<0.0001
Tin	0.0001	<0.0001	<0.0001	<0.0001
Titanium	0.01	<0.01	<0.01	<0.01
Uranium	0.00001	<0.00001	<0.00001	<0.00001
Vanadium	0.001	<0.001	<0.001	<0.001
Zinc	0.003	<0.003	<0.003	<0.003
Organics				
Carbon Organic (Dissolved)	<0.5	<0.5	<0.5	<0.5
Carbon Organic (Total)	<0.5	<0.5	<0.5	<0.5
Chlorophyll-a mg/m3	<0.2	<0.2	-	<0.2
Pheophytin-a mg/m3	<0.2	<0.2	-	1.3
Phenol	<0.001	<0.001	<0.001	<0.001

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- NOTES:
1. MDL - METHOD DETECTION LIMIT PROVIDED BY EXOVA LABORATORIES 2014.
 2. UNITS ARE IN mg/L UNLESS OTHERWISE STATED.
 3. BOLD VALUES INDICATE CONCENTRATIONS GREATER THAN THE MDL.
 4. BOLD AND SHADED VALUES INDICATE CONCENTRATIONS GREATER THAN FIVE TIMES THE MDL.

0	19MAR15	ISSUED WITH REPORT NB102-181/34-6	DKK	RAC
REV	DATE	DESCRIPTION	PREP'D	REV'D

APPENDIX C2

2014 LAKE WATER QUALITY QA/QC RESULTS

(Pages C2-1 to C2-5)

TABLE C2.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QA/QC LAKE DUPLICATE SAMPLE SUMMARY

Print Mar/19/15 12:36:16

Station ID Date Sampled		CAMP LAKE												MARY LAKE																											
		JLO-02-D 27/07/2014	Duplicate	RPD (%)	JLO-02-D 23/08/2014	Duplicate	RPD (%)	JLO-02-S 27/07/2014	Duplicate	RPD (%)	JLO-02-S 23/08/2014	Duplicate	RPD (%)	BLO-01-D 26/08/2014	Duplicate	RPD (%)	BLO-01-S 26/08/2014	Duplicate	RPD (%)	BLO-03-D 01/05/2014	Duplicate	RPD (%)	BLO-03-D 26/07/2014	Duplicate	RPD (%)	BLO-03-S 01/05/2014	Duplicate	RPD (%)	BLO-04-D 01/05/2014	Duplicate	RPD (%)	BLO-04-S 01/05/2014	Duplicate	RPD (%)	BLO-04-S 25/08/2014	Duplicate	RPD (%)				
Physical Tests		MDL																																							
Alkalinity (Total as CaCO3)		5	57	57	0.00%	59	59	0.00%	55	55	0.00%	59	60	1.68%	62	62	0.00%	62	62	0.00%	38	39	2.60%	25	24		41	41	0.00%	25	25	0.00%	35	37	5.56%	41	43	4.76%	32	33	3.08%
Conductivity (µS/cm)		5	125	125	0.00%	128	128	0.00%	120	120	0.00%	128	129	0.78%	131	130	0.77%	130	130	0.00%				53	53	0.00%		54	54	0.00%						70	71	1.42%			
Hardness as CaCO3 (Dissolved)		1	65	65	0.00%	66	66	0.00%	62	62	0.00%	67	66	1.50%	67	67	0.00%	67	68	1.48%	37.7	38.5	2.10%	25	25	0.00%	40.6	41	0.98%	26	26	0.00%	37.2	37	0.54%	42.3	43.3	2.34%	34	35	2.90%
Hardness as CaCO3 (Total)		1	63	63	0.00%	64	65	1.55%	61	61	0.00%	65	65	0.00%	66	66	0.00%	66	66	0.00%	38.7	37	4.49%	26	26	0.00%	42.6	41.5	2.62%	27	27	0.00%	36.8	36.4	1.09%	43.8	43.8	0.00%	34	34	0.00%
pH (pH units)		1	7.91	7.91	0.00%	7.95	7.93	0.25%	7.93	7.91	0.25%	7.93	7.94	0.13%	8.05	8.08	0.37%	8.03	8.08	0.62%	6.75	6.77	0.30%	7.58	7.58	0.00%	7.13	6.78	5.03%	7.58	7.62	0.53%	6.76	6.75	0.15%	6.83	6.83	0.00%	7.7	7.7	0.00%
Total Dissolved Solids		1	81	81	0.00%	83	83	0.00%	78	78	0.00%	83	84	1.20%	85	84	1.18%	84	84	0.00%	51	51	0.00%	34	34	0.00%	56	57	1.77%	35	35	0.00%	51	51	0.00%	58	58	0.00%	46	46	0.00%
Total Suspended Solids		2	<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2		<2	<2	
Turbidity (NTU)		0.1	0.8	0.5	46.15%	0.4	0.4		0.4	0.4		0.5	0.6	18.18%	0.9	1	10.53%	0.9	1	10.53%	0.2	0.1		2.2	1	75.00%	0.2	0.2		1	1.9	62.07%	0.2	0.2		0.1	0.2		3.2	1.5	72.34%
Bromide (Dissolved)		0.25	<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25		<0.25	<0.25	
Chloride (Dissolved)		1	3	3		3	3		3	3		3	3		2	2		2	2		2	2		1	1		3	3		1	1		2	2		3	3		1	2	
Sulphate (Dissolved)		1	2	2		2	2		2	2		2	2		2	2		2	2		1	1		1	1		1	2		1	1		1	1		2	2		1	1	

TABLE C2.2

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QAI/QC LAKE SAMPLES METALS SUMMARY

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Lake Name	Station ID	Sample Date	Analyte	MDL	Dissolved	Total	Percent Difference
Camp Lake	JL0-01-S	03/05/2014	Lithium (Li)	0.0005	0.00099	0.00088	11.76
Camp Lake	JL0-02-S	30/04/2014	Molybdenum (Mo)	0.00005	0.000298	0.000268	10.60
Camp Lake	JL0-02-S	30/04/2014	Strontium (Sr)	0.0004	0.0116	0.0108	7.14
Camp Lake	JL0-02-S	30/04/2014	Uranium (U)	0.00001	0.000775	0.000702	9.88
Camp Lake	JL0-07-D	30/04/2014	Lithium (Li)	0.0005	0.00092	0.00072	24.39
Camp Lake	JL0-07-D	30/04/2014	Molybdenum (Mo)	0.00005	0.000269	0.000193	32.90
Camp Lake	JL0-07-D	30/04/2014	Uranium (U)	0.00001	0.000715	0.000497	35.97
Camp Lake	JL0-07-S	30/04/2014	Barium (Ba)	0.00005	0.00681	0.00607	11.49
Camp Lake	JL0-07-S	30/04/2014	Lithium (Li)	0.0005	0.00088	0.00069	24.20
Camp Lake	JL0-07-S	30/04/2014	Potassium (K)	0.05	1.07	0.966	10.22
Camp Lake	JL0-07-S	30/04/2014	Sodium (Na)	0.0012	1.29	1.17	9.76
Camp Lake	JL0-07-S	30/04/2014	Strontium (Sr)	0.0004	0.0115	0.0109	5.36
Camp Lake	JL0-09-S	30/04/2014	Molybdenum (Mo)	0.00005	0.000278	0.000261	6.31
Camp Lake	JL0-09-S	30/04/2014	Strontium (Sr)	0.0004	0.0115	0.0101	12.96
Camp Lake	JL0-09-S	30/04/2014	Uranium (U)	0.00001	0.000751	0.000651	14.27
Camp Lake	JL0-01-D	23/08/2014	Tin (Sn)	0.0001	0.0023	<0.0001	183.33
Camp Lake	JL0-01-S	23/08/2014	Molybdenum (Mo)	0.00005	0.00026	0.00022	16.67
Camp Lake	JL0-07-S	23/08/2014	Molybdenum (Mo)	0.00005	0.00032	0.00029	9.84
Camp Lake	JL0-07-S	23/08/2014	Sodium (Na)	0.05	0.86	0.81	5.99
Camp Lake	JL0-09-D	23/08/2014	Lead (Pb)	0.00005	0.00064	<0.00005	171.01
Camp Lake	JL0-09-D	23/08/2014	Molybdenum (Mo)	0.00005	0.00041	0.00037	10.26
Camp Lake	JL0-09-S	23/08/2014	Manganese (Mn)	0.00005	0.00142	0.00014	164.10
Camp Lake	JL0-09-S	23/08/2014	Molybdenum (Mo)	0.00005	0.00056	0.00052	7.41
Camp Lake	JL0-09-S	23/08/2014	Silicon (Si)	0.1	0.5	0.4	22.22
Mary Lake	BL0-01-A-D	30/04/2014	Strontium (Sr)	0.0004	0.0146	0.0135	7.83
Mary Lake	BL0-01-A-D	30/04/2014	Uranium (U)	0.00001	0.00193	0.00182	5.87
Mary Lake	BL0-01-A-S	30/04/2014	Strontium (Sr)	0.0004	0.015	0.0139	7.61
Mary Lake	BL0-01-B-S	30/04/2014	Molybdenum (Mo)	0.00005	0.000284	0.000269	5.42
Mary Lake	BL0-01-D	30/04/2014	Strontium (Sr)	0.0004	0.0148	0.0137	7.72
Mary Lake	BL0-01-D	30/04/2014	Uranium (U)	0.00001	0.0026	0.0024	8.00
Mary Lake	BL0-03-D(Dup)	05/01/2014	Silicon (Si)	0.05	0.32	0.3	6.45
Mary Lake	BL0-04-D(Dup)	05/01/2014	Barium (Ba)	0.00005	0.00401	0.00379	5.64
Mary Lake	BL0-04-D	01/05/2014	Barium (Ba)	0.00005	0.00411	0.00381	7.58
Mary Lake	BL0-05-A-D	02/05/2014	Barium (Ba)	0.00005	0.00431	0.00409	5.24
Mary Lake	BL0-05-A-D	02/05/2014	Potassium (K)	0.05	0.553	0.525	5.19
Mary Lake	BL0-05-B-D	01/05/2014	Potassium (K)	0.05	0.688	0.591	15.17
Mary Lake	BL0-05-B-D	01/05/2014	Sodium (Na)	0.0012	1.48	1.34	9.93
Mary Lake	BL0-09-D	02/05/2014	Silicon (Si)	0.05	0.75	0.34	75.23
Mary Lake	BL0-01-A-D	26/07/2014	Sodium (Na)	0.05	0.6	0.53	12.39
Mary Lake	BL0-01-B-D	26/07/2014	Sodium (Na)	0.05	0.69	0.61	12.31
Mary Lake	BL0-01-D	26/07/2014	Sodium (Na)	0.05	0.59	0.49	18.52
Mary Lake	BL0-01-S	26/07/2014	Sodium (Na)	0.05	0.9	0.85	5.71
Mary Lake	BL0-03-D(Dup)	26/07/2014	Sodium (Na)	0.05	0.62	0.55	11.97
Mary Lake	BL0-03-D	26/07/2014	Sodium (Na)	0.05	0.62	0.54	13.79
Mary Lake	BL0-03-S(Dup)	26/07/2014	Sodium (Na)	0.05	0.64	0.56	13.33
Mary Lake	BL0-03-S	26/07/2014	Sodium (Na)	0.05	0.63	0.56	11.76
Mary Lake	BL0-04-S	27/07/2014	Sodium (Na)	0.05	0.62	0.58	6.67
Mary Lake	BL0-05-A-D	27/07/2014	Sodium (Na)	0.05	0.6	0.56	6.90
Mary Lake	BL0-05-A-S	27/07/2014	Sodium (Na)	0.05	0.72	0.68	5.71

TABLE C2.2

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QAI/QC LAKE SAMPLES METALS SUMMARY

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Lake Name	Station ID	Sample Date	Analyte	MDL	Dissolved	Total	Percent Difference
Mary Lake	BL0-05-B-D	27/07/2014	Sodium (Na)	0.05	0.6	0.53	12.39
Mary Lake	BL0-05-B-S	27/07/2014	Sodium (Na)	0.05	0.62	0.58	6.67
Mary Lake	BL0-05-B-S	27/07/2014	Strontium (Sr)	0.0001	0.004	0.0038	5.13
Mary Lake	BL0-05-D(Dup)	27/07/2014	Sodium (Na)	0.05	0.64	0.58	9.84
Mary Lake	BL0-05-D	27/07/2014	Sodium (Na)	0.05	0.64	0.55	15.13
Sheardown Lake NW	DD-HAB9-STN1-S	05/05/2014	Aluminum (Al)	0.001	0.007	<0.001	150.00
Sheardown Lake NW	DD-HAB9-STN1-S	05/05/2014	Barium (Ba)	0.00005	0.00614	0.00568	7.78
Sheardown Lake NW	DD-HAB9-STN1-S	05/05/2014	Magnesium (Mg)	0.1	9.4	8.91	5.35
Sheardown Lake NW	DD-HAB9-STN1-S	05/05/2014	Potassium (K)	0.05	1.09	1.02	6.64
Sheardown Lake NW	DD-HAB9-STN1-S	05/05/2014	Silicon (Si)	0.05	0.8	0.76	5.13
Sheardown Lake NW	DL0-01-1-D	05/05/2014	Copper (Cu)	0.0002	0.0011	0.00088	22.22
Sheardown Lake NW	DL0-01-1-S	05/05/2014	Lithium (Li)	0.0005	0.0007	0.00065	7.41
Sheardown Lake NW	DL0-01-2-D	04/05/2014	Lithium (Li)	0.0005	0.00101	0.0009	11.52
Sheardown Lake NW	DL0-01-2-S	04/05/2014	Lithium (Li)	0.0005	0.00101	0.00078	25.70
Sheardown Lake NW	DL0-01-2-S	04/05/2014	Potassium (K)	0.05	1.12	1.06	5.50
Sheardown Lake NW	DL0-01-4-S	04/05/2014	Lithium (Li)	0.0005	0.00095	0.00074	24.85
Sheardown Lake NW	DL0-01-7-D	04/05/2014	Lithium (Li)	0.0005	0.00091	0.00082	10.40
Sheardown Lake NW	DL0-01-7-D	04/05/2014	Potassium (K)	0.05	1.07	1.01	5.77
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Barium (Ba)	0.00005	0.00637	0.00598	6.32
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Lead (Pb)	0.00005	0.00863	0.00006	197.24
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Lithium (Li)	0.0005	0.00097	0.00075	25.58
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Magnesium (Mg)	0.1	9.54	9.06	5.16
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Potassium (K)	0.05	1.12	1.05	6.45
Sheardown Lake NW	DL0-01-7-S	04/05/2014	Silicon (Si)	0.05	0.79	0.74	6.54
Sheardown Lake NW	DD-HAB9-STN1-D	25/07/2014	Molybdenum (Mo)	0.00005	0.00056	0.00029	63.53
Sheardown Lake NW	DD-HAB9-STN1-D	25/07/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DD-HAB9-STN1-S(Dup)	25/07/2014	Molybdenum (Mo)	0.00005	0.00066	0.00025	90.11
Sheardown Lake NW	DD-HAB9-STN1-S(Dup)	25/07/2014	Uranium (U)	0.00001	0.00081	0.00068	17.45
Sheardown Lake NW	DD-HAB9-STN1-S	25/07/2014	Molybdenum (Mo)	0.00005	0.00076	0.00026	98.04
Sheardown Lake NW	DD-HAB9-STN1-S	25/07/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DL0-01-1-D	25/07/2014	Strontium (Sr)	0.0001	0.0069	0.0064	7.52
Sheardown Lake NW	DL0-01-1-S	25/07/2014	Strontium (Sr)	0.0001	0.0069	0.0065	5.97
Sheardown Lake NW	DL0-01-2-D	25/07/2014	Molybdenum (Mo)	0.00005	0.0004	0.00024	50.00
Sheardown Lake NW	DL0-01-2-S	25/07/2014	Molybdenum (Mo)	0.00005	0.00039	0.00027	36.36
Sheardown Lake NW	DL0-01-2-S	25/07/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DL0-01-4-D	25/07/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DL0-01-4-D	25/07/2014	Strontium (Sr)	0.0001	0.0072	0.0064	11.76
Sheardown Lake NW	DL0-01-4-S	25/07/2014	Molybdenum (Mo)	0.00005	0.00044	0.00031	34.67
Sheardown Lake NW	DL0-01-5-D	25/07/2014	Strontium (Sr)	0.0001	0.007	0.0065	7.41
Sheardown Lake NW	DL0-01-5-S	25/07/2014	Strontium (Sr)	0.0001	0.007	0.0065	7.41
Sheardown Lake NW	DL0-01-7-D	25/07/2014	Molybdenum (Mo)	0.00005	0.00042	0.0003	33.33
Sheardown Lake NW	DL0-01-7-S	25/07/2014	Molybdenum (Mo)	0.00005	0.00045	0.00028	46.58
Sheardown Lake NW	DL0-01-7-S	25/07/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DL0-01-7-S	25/07/2014	Strontium (Sr)	0.0001	0.0079	0.007	12.08
Sheardown Lake NW	DL0-01-1-S	25/08/2014	Silicon (Si)	0.1	0.7	0.6	15.38

TABLE C2.2

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QA/QC LAKE SAMPLES METALS SUMMARY

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Lake Name	Station ID	Sample Date	Analyte	MDL	Dissolved	Total	Percent Difference
Sheardown Lake NW	DL0-01-2-D	25/08/2014	Silicon (Si)	0.1	0.7	0.6	15.38
Sheardown Lake NW	DL0-01-2-D	25/08/2014	Sodium (Na)	0.05	0.9	0.84	6.90
Sheardown Lake NW	DL0-01-4-D	25/08/2014	Sodium (Na)	0.05	0.9	0.84	6.90
Sheardown Lake NW	DL0-01-4-S	25/08/2014	Molybdenum (Mo)	0.00005	0.00071	0.00065	8.82
Sheardown Lake NW	DL0-01-5-D	24/08/2014	Strontium (Sr)	0.0001	0.008	0.0076	5.13
Sheardown Lake NW	DL0-01-5-S	24/08/2014	Barium (Ba)	0.00005	0.00497	0.00472	5.16
Sheardown Lake NW	DL0-01-5-S	24/08/2014	Strontium (Sr)	0.0001	0.008	0.0076	5.13
Sheardown Lake SE	DL0-02-3-D	04/05/2014	Lithium (Li)	0.0005	0.00093	0.00086	7.82
Sheardown Lake SE	DL0-02-3-D	04/05/2014	Potassium (K)	0.05	1	0.948	5.34
Sheardown Lake SE	DL0-02-3-D	04/05/2014	Zinc (Zn)	0.00033	0.0035	<0.003	15.38
Sheardown Lake SE	DL0-02-3-S	04/05/2014	Lithium (Li)	0.0005	0.00092	0.00081	12.72
Sheardown Lake SE	DL0-02-4-D	03/05/2014	Lithium (Li)	0.0005	0.00082	0.00071	14.38
Sheardown Lake SE	DL0-02-6-D	04/05/2014	Potassium (K)	0.05	1.04	0.968	7.17
Sheardown Lake SE	DL0-02-6-D	04/05/2014	Sodium (Na)	0.0012	1.4	1.32	5.88
Sheardown Lake SE	DL0-02-6-S	04/05/2014	Lithium (Li)	0.0005	0.00093	0.00078	17.54
Sheardown Lake SE	DL0-02-7-D	04/05/2014	Potassium (K)	0.05	1.08	1	7.69
Sheardown Lake SE	DL0-02-7-S	04/05/2014	Lithium (Li)	0.0005	0.00101	0.00079	24.44
Sheardown Lake SE	DL0-02-7-S	04/05/2014	Potassium (K)	0.05	1.08	1	7.69
Sheardown Lake SE	DL0-02-7-S	04/05/2014	Sodium (Na)	0.0012	1.47	1.39	5.59
Sheardown Lake SE	DL0-02-8-S	03/05/2014	Barium (Ba)	0.00005	0.00751	0.00611	20.56
Sheardown Lake SE	DL0-02-8-S	03/05/2014	Potassium (K)	0.05	1.27	0.977	26.08
Sheardown Lake SE	DL0-02-8-S	03/05/2014	Sodium (Na)	0.0012	1.69	1.39	19.48
Sheardown Lake SE	DL0-02-4-D	24/07/2014	Molybdenum (Mo)	0.00005	0.00047	0.00013	113.33
Sheardown Lake SE	DL0-02-4-S	24/07/2014	Molybdenum (Mo)	0.00005	0.00062	0.00015	122.08
Sheardown Lake SE	DL0-02-6-D	24/07/2014	Molybdenum (Mo)	0.00005	0.00025	0.0002	22.22
Sheardown Lake SE	DL0-02-7-S	24/07/2014	Molybdenum (Mo)	0.00005	0.00026	0.00018	36.36
Sheardown Lake SE	DL0-02-8-D	24/07/2014	Molybdenum (Mo)	0.00005	0.00028	0.00016	54.55
Sheardown Lake SE	DL0-02-8-S	24/07/2014	Molybdenum (Mo)	0.00005	0.0003	0.00013	79.07
Sheardown Lake SE	DL0-02-3-D	24/08/2014	Molybdenum (Mo)	0.00005	0.00042	0.00037	12.66
Sheardown Lake SE	DL0-02-3-S	24/08/2014	Molybdenum (Mo)	0.00005	0.00045	0.00039	14.29
Sheardown Lake SE	DL0-02-6-D(Dup)	24/08/2014	Molybdenum (Mo)	0.00005	0.0004	0.00038	5.13
Sheardown Lake SE	DL0-02-6-D(Dup)	24/08/2014	Strontium (Sr)	0.0001	0.0077	0.0072	6.71
Sheardown Lake SE	DL0-02-6-D	24/08/2014	Molybdenum (Mo)	0.00005	0.00042	0.00038	10.00
Sheardown Lake SE	DL0-02-6-S(Dup)	24/08/2014	Molybdenum (Mo)	0.00005	0.0004	0.00036	10.53
Sheardown Lake SE	DL0-02-6-S(Dup)	24/08/2014	Strontium (Sr)	0.0001	0.0076	0.0071	6.80
Sheardown Lake SE	DL0-02-7-D	24/08/2014	Molybdenum (Mo)	0.00005	0.00042	0.00036	15.38
Sheardown Lake SE	DL0-02-7-D	24/08/2014	Sodium (Na)	0.05	0.74	0.69	6.99
Sheardown Lake SE	DL0-02-7-S	24/08/2014	Molybdenum (Mo)	0.00005	0.00042	0.00031	30.14
Sheardown Lake SE	DL0-02-8-D	24/08/2014	Molybdenum (Mo)	0.00005	0.00045	0.00042	6.90
Sheardown Lake SE	DL0-02-8-S	24/08/2014	Molybdenum (Mo)	0.00005	0.00049	0.00046	6.32

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NOTES:

1. UNITS ARE mg/L.
2. BOLD SHADED VALUES INDICATE PERCENT DIFFERENCE GREATER THAN 30%.

0	19MAR15	ISSUED WITH REPORT N8102-181/34-6	DKK	RAC
REV	DATE	DESCRIPTION	PREP'D	REV'D

APPENDIX C3

2014 SEDIMENT QUALITY QA/QC RESULTS

(Page C3-1)

TABLE C3.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 WATER AND SEDIMENT CREMP MONITORING REPORT
2014 QA/QC DUPLICATE SEDIMENT SAMPLE SUMMARY

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Station ID Date Sampled		BL0-03 August-23-14	Duplicate August-23-14	RPD (%)	DL0-01-9 August-24-14	Duplicate August-24-14	RPD (%)	JL0-17 July-22-14	Duplicate July-22-14	RPD (%)
ANALYTE	MDL									
Moisture and Nutrients										
Moisture (%)	0.1	33.1	31.5	4.95	84.6	84	0.71	45.3	51.3	12.42
TKN	0.01	0.07	0.04	54.55	0.56	0.51	9.35	0.1	0.1	0.00
TOC	0.01	0.4	0.33	19.18	4.78	5.21	8.61	0.94	0.94	0.00
NO2	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
NO3	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
NO2+NO3	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
Metals										
Mercury	0.1	<0.1	<0.1	0.00	<0.1	<0.1	0.00	<0.1	<0.1	0.00
Silver	0.2	6	6	0.00	10	10	0.00	9	8	11.76
Aluminum	5	28	29	3.51	55	55	0.00	38	36	5.41
Arsenic	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
Boron	0.5	<0.5	<0.5	0.00	1.2	1.3	8.00	<0.5	<0.5	0.00
Barium	1	10	9	10.53	18	18	0.00	13	13	0.00
Beryllium	1	<0.5	<0.5	0.00	<0.5	<0.5	0.00	<0.5	<0.5	0.00
Calcium	100	<100	<100	0.00	200	300	40.00	200	200	0.00
Cadmium	0.5	33	34	2.99	81	77	5.06	49	45	8.51
Cobalt	1	7	7	0.00	13	13	0.00	13	13	0.00
Chromium	1	20200	19700	2.51	41500	42300	1.91	23400	22300	4.81
Copper	1	8580	8480	1.17	16000	16600	3.68	9820	9150	7.06
Iron	5	1	1	0.00	3	3	0.00	4	4	0.00
Potassium	100	2400	2200	8.70	4400	4600	4.44	2700	2600	3.77
Magnesium	100	6000	5700	5.13	11100	11100	0.00	8000	7800	2.53
Manganese	1	839	859	2.36	302	306	1.32	1150	1180	2.58
Molybdenum	1	<0.2	<0.2	0.00	0.2	0.2	0.00	<0.2	<0.2	0.00
Sodium	100	1900	1800	5.41	5300	4800	9.90	3000	3100	3.28
Nickel	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
Lead	1	42	41	2.41	88	91	3.35	61	62	1.63
Antimony	1	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
Selenium	1	25	25	0.00	81	81	0.00	49	49	0.00
Strontium	1	40	39	2.53	80	80	0.00	62	50	21.43
Thallium	1	<1	<1	0.00	4	5	22.22	1	1	0.00
Vanadium	2	<1	<1	0.00	<1	<1	0.00	<1	<1	0.00
Zinc	2	15	15	0.00	60	61	1.65	29	29	0.00
Particle Size Distribution										
Sand (%)	1	4	6	40.00	22	27	20.41	31	29	6.67
Silt (%)	1	8	8	0.00	30	36	18.18	8	6	28.57
Clay (%)	1	88	86	2.30	48	37	25.88	61	65	6.35

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NOTES:

1. UNITS ARE µg/g UNLESS OTHERWISE NOTED.

2. BOLD SHADED VALUES INDICATE PERCENT DIFFERENCE GREATER THAN 20% AND WERE AT LEAST ONE CONCENTRATION IS >5X METHOD DETECTION LIMIT (MDL).

0	19MAR15	ISSUED WITH REPORT NB102-181/34-6	DKK	RAC
REV	DATE	DESCRIPTION	PREPD	REV'D