

ENVIRONMENTAL IMPACT STATEMENT

MINAGO PROJECT

VOLUME III – Part I

LABORATORY CERTIFIED REPORTS

VOLUME III - LIST OF APPENDICES

Volume III - Part I:

APPENDIX L7.3 Certified Laboratory Reports for Soils - 2007 Results (Jul. 2007)

APPENDIX L7.5 Certified Laboratory Reports for Surface Water Quality

Appendix L7.5-A: Data Quality Objectives – ALS Vancouver
& Summary of Data Analysis for Water
Samples with Higher reported Dissolved versus
Total Element Concentrations

Appendix L7.5-B:
Summary of 2006 Trip Blank Water Quality Results
Summary of Sept.- Oct 2007 & May 2008 Blanks Water Quality Results
Summary of March 2008 Blanks Water Quality Results

Appendix L7.5-C: May 2006 Results
Appendix L7.5-D: June 2006 Results
Appendix L7.5-E: July 2006 Results
Appendix L7.5-F: August 2006 Results
Appendix L7.5-G: September 2006 Results
Appendix L7.5-H: October 2006 Results

Appendix L7.5-I: May 2007 Results
Appendix L7.5-J: June 2007 Results
Appendix L7.5-K: July 2007 Results
Appendix L7.5-L: August 2007 Results
Appendix L7.5-M: September 2007 Results
Appendix L7.5-N: October 2007 Results



APPENDIX L7.3

Certified Laboratory Reports for Soils

2007 Results (Jul. 2007)



Environmental Division

ANALYTICAL REPORT

CASH CLIENTS-WINNIPEG

ATTN: DR. DAVID MCHAINA

Reported On: 29-OCT-07 01:38 PM

VICTORY NICKEL INC.
STE 1802 -80 RICHMOND ST W
TORONTO ON M5H 2A4

Revision: 1

Lab Work Order #: L533759

Date Received: 25-JUL-07

Project P.O. #:

Job Reference: MINAGO

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

APPROVED BY: _____

M. E. Bell

MARILYN BELL

Project Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

Manitoba Technology Centre Ltd.
Part of the **ALS Laboratory Group**

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ALS LABORATORY GROUP ANALYTICAL REPORT

L7.3-4

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L533759-3 MINAGO SAMPLE 2 (0 - 15 CM)								
Sampled By: LT / DMM on 18-JUL-07								
Matrix: SOIL								
Cyanide, Total	41		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	88.4		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Metals								
Silver (Ag)-Total	8		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	715		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	2.34		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	13.8		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	33.7	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	<0.06		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	<0.02		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	30800	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.11		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cobalt (Co)-Total	0.89		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	1.2		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	2.9		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	5690		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Potassium (K)-Total	142		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Magnesium (Mg)-Total	4140		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Manganese (Mn)-Total	126	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Molybdenum (Mo)-Total	0.36		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Sodium (Na)-Total	132	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Nickel (Ni)-Total	1.9		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Lead (Pb)-Total	1.24		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Selenium (Se)-Total	0.7		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Strontium (Sr)-Total	69.7	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Titanium (Ti)-Total	21.5		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Uranium (U)-Total	0.11		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Vanadium (V)-Total	1.96		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Zinc (Zn)-Total	29	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
L533759-4 MINAGO SAMPLE 2 (15 - 30 CM)								
Sampled By: LT / DMM on 18-JUL-07								
Matrix: SOIL								
Cyanide, Total	9		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	44.7		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Metals								
Silver (Ag)-Total	<1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	2210		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	1.91		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	13.1		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	47.4	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	0.07		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	0.05		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	64800	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.09		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cobalt (Co)-Total	1.54		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	10.9		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	4.6		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	2850		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986

ALS LABORATORY GROUP ANALYTICAL REPORT

L7.3-5

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L533759-4	MINAGO SAMPLE 2 (15 - 30 CM)								
Sampled By:	LT / DMM on 18-JUL-07								
Matrix:	SOIL								
Metals									
	Potassium (K)-Total	538		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Magnesium (Mg)-Total	33900		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Manganese (Mn)-Total	162	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Molybdenum (Mo)-Total	0.30		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Sodium (Na)-Total	110	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Nickel (Ni)-Total	7.7		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Lead (Pb)-Total	4.17		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Selenium (Se)-Total	0.3		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Strontium (Sr)-Total	30.5	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Titanium (Ti)-Total	134		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Uranium (U)-Total	0.16		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Vanadium (V)-Total	5.11		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Zinc (Zn)-Total	9	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
L533759-5	MINAGO SAMPLE 3 (0 - 30 CM)								
Sampled By:	LT / DMM on 18-JUL-07								
Matrix:	SOIL								
Metals									
	Cyanide, Total	30		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
	Loss on Ignition @ 550 C	85.9		0	%	07-AUG-07	07-AUG-07	MMC	R558484
	Silver (Ag)-Total	<1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Aluminum (Al)-Total	648		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Arsenic (As)-Total	18.6		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Boron (B)-Total	14.4		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Barium (Ba)-Total	365	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Beryllium (Be)-Total	<0.06		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Bismuth (Bi)-Total	0.07		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Calcium (Ca)-Total	29400	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Cadmium (Cd)-Total	0.35		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Cobalt (Co)-Total	5.25		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Chromium (Cr)-Total	1.2		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Copper (Cu)-Total	7.3		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Iron (Fe)-Total	9140		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Potassium (K)-Total	197		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Magnesium (Mg)-Total	4270		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Manganese (Mn)-Total	5560	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Molybdenum (Mo)-Total	0.55		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Sodium (Na)-Total	62	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Nickel (Ni)-Total	1.8		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Lead (Pb)-Total	3.40		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Selenium (Se)-Total	0.9		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Strontium (Sr)-Total	67.9	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Titanium (Ti)-Total	19.9		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Uranium (U)-Total	0.13		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Vanadium (V)-Total	1.72		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
	Zinc (Zn)-Total	90	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986

ALS LABORATORY GROUP ANALYTICAL REPORT

L7.3-6

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L533759-5 MINAGO SAMPLE 3 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
L533759-6 MINAGO SAMPLE 4 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Metals								
Cyanide, Total	39		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	85.4		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Silver (Ag)-Total	<1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	613		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	2.15		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	28.2		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	51.8	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	<0.06		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	0.05		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	32500	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.16		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cobalt (Co)-Total	0.44		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	1.2		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	5.4		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	3620		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Potassium (K)-Total	227		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Magnesium (Mg)-Total	5480		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Manganese (Mn)-Total	566	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Molybdenum (Mo)-Total	0.39		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Sodium (Na)-Total	103	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Nickel (Ni)-Total	2.3		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Lead (Pb)-Total	5.09		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Selenium (Se)-Total	0.6		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Strontium (Sr)-Total	108	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Titanium (Ti)-Total	18.6		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Uranium (U)-Total	0.14		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Vanadium (V)-Total	1.89		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Zinc (Zn)-Total	13	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
L533759-7 MINAGO SAMPLE 5 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Metals								
Cyanide, Total	23		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	88.2		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Silver (Ag)-Total	<1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	782		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	1.77		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	9.3		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	23.0	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	<0.06		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	0.05		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	23900	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.12		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986

ALS LABORATORY GROUP ANALYTICAL REPORT

L7.3-7

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L533759-7 MINAGO SAMPLE 5 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Metals								
Cobalt (Co)-Total	0.44		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	1.4		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	5.8		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	1590		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Potassium (K)-Total	262		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Magnesium (Mg)-Total	6010		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Manganese (Mn)-Total	30.9	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Molybdenum (Mo)-Total	0.72		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Sodium (Na)-Total	85	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Nickel (Ni)-Total	2.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Lead (Pb)-Total	5.38		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Selenium (Se)-Total	0.5		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Strontium (Sr)-Total	47.3	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Titanium (Ti)-Total	28.3		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Uranium (U)-Total	0.19		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Vanadium (V)-Total	2.02		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Zinc (Zn)-Total	5	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
L533759-8 MINAGO SAMPLE 6 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Cyanide, Total	10		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	33.9		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Metals								
Silver (Ag)-Total	1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	5690		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	2.48		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	9.0		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	67.2	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	0.26		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	0.09		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	51500	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.16		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cobalt (Co)-Total	4.86		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	19.8		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	10.9		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	10900		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Potassium (K)-Total	1100		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Magnesium (Mg)-Total	19700		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Manganese (Mn)-Total	700	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Molybdenum (Mo)-Total	0.33		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Sodium (Na)-Total	132	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Nickel (Ni)-Total	14.6		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Lead (Pb)-Total	5.65		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Selenium (Se)-Total	0.4		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Strontium (Sr)-Total	45.8	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Titanium (Ti)-Total	367		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986

ALS LABORATORY GROUP ANALYTICAL REPORT

L7.3-8

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L533759-8 MINAGO SAMPLE 6 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Metals								
Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Uranium (U)-Total	1.57		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Vanadium (V)-Total	16.1		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Zinc (Zn)-Total	33	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
L533759-9 MINAGO SAMPLE 7 (0 - 30 CM) Sampled By: LT / DMM on 18-JUL-07 Matrix: SOIL								
Cyanide, Total	6		1	mg/kg	08-AUG-07	15-AUG-07	DXN	R561492
Loss on Ignition @ 550 C	54.4		0	%	07-AUG-07	07-AUG-07	MMC	R558484
Metals								
Silver (Ag)-Total	<1		1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Aluminum (Al)-Total	5000		3	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Arsenic (As)-Total	3.20		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Boron (B)-Total	10.7		0.6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Barium (Ba)-Total	72.9	RAMB	0.04	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Beryllium (Be)-Total	0.23		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Bismuth (Bi)-Total	0.10		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Calcium (Ca)-Total	37500	RAMB	7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cadmium (Cd)-Total	0.16		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Cobalt (Co)-Total	4.49		0.01	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Chromium (Cr)-Total	15.0		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Copper (Cu)-Total	11.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Iron (Fe)-Total	9050		6	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Potassium (K)-Total	966		7	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Magnesium (Mg)-Total	11700		2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Manganese (Mn)-Total	1060	RAMB	0.09	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Molybdenum (Mo)-Total	0.59		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Sodium (Na)-Total	317	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Nickel (Ni)-Total	14.6		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Lead (Pb)-Total	7.76		0.05	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Selenium (Se)-Total	0.4		0.1	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Tin (Sn)-Total	<4		4	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Strontium (Sr)-Total	37.8	RAMB	0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Titanium (Ti)-Total	312		0.03	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Thallium (Tl)-Total	<0.2		0.2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Uranium (U)-Total	1.26		0.02	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Vanadium (V)-Total	14.1		0.06	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
Zinc (Zn)-Total	25	RAMB	2	mg/kg	08-AUG-07	08-AUG-07	DAG	R558986
* Refer to Referenced Information for Qualifiers (if any) and Methodology.								

Reference Information

L7.3-9**Sample Parameter Qualifier key listed:**

Qualifier	Description
RAMB	Result Adjusted For Method Blank
RRA	Reported Result Is The Average Of 2 Or More Analyses

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
B-HOTW-AG-SK	Soil	Available Boron, Hot water (ug/cc)		Methods of Soil Analysis (1996) SSSA
CL-AG-SK	Soil	Available Chloride (ug/cc)		NCR-13 (1998) P.26
CN-TOT-WP	Soil	Cyanide, Total		EPA 9013A

Total Cyanides in Soil, Vegetation and Tissue: The sample is extracted with a strong base for 16 hours, then filtered. The filtrate is then analyzed for total cyanide as follows: Simple cyanides are converted to hydrogen cyanide (HCN) by distillation. Complex cyanides are not easily decomposed. Low power UV radiation is used to break down organic, metallic and alkali complexed compounds to free cyanide. The distillation step isolates HCN from simple cyanides under specific acidic conditions. The liberated HCN is converted to cyanogen chloride with chloramine-T. This further reacts with barbituric acid and isonicotinic acid to form a highly coloured complex.

LOI-550-SK	Soil	Loss on Ignition @ 550 C		CSSS (1993) p.461-462
M.R. Carter (ed.). Soil Sampling and Methods of Analysis, Canadian Society of Soil Science (1993).p.461 & 462. Lewis Publishers Ann Arbor, MI				
METAL-DTPA-AG-SK	Soil	Avail Micronutrients (Cu,Fe,Zn,Mn) ug/cc		CSSS 1993
METAL-LOW-EXD-WP	Soil	Metals		EPA SW846 3050B Rev 2 1996
NO3-AG-SK	Soil	Available Nitrate-N (ug/cc)		CSSS 1993
PH,EC-AG-SK	Soil	pH & EC 1:2 soil to water (Ag. Method)		CSSS 16.3,18.3.1 - 1:2 water extract
PO4/K-AG-SK	Soil	Available Phosphate & Potassium (ug/cc)		COMM SOIL SCI 25 5&6
SO4-AG-SK	Soil	Available Sulfate-S (ug/cc)		NCR-13 (1998) P35-39
TEXTURE-HAND-SK	Soil	Qualitative Soil Texture- manual		Qualitative

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA	WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million.

mg/L (units) - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

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Tel: (204) 255-9720
Fax (204) 255-9721
Toll Free: 1-800-607-7555

**CHAIN OF CUSTODY
ANALYTICAL REQUEST FORM**

ANALYSIS REQUESTED:

DSPD under the
Regular Price

Physical/Heavy
Soil Package 4 (Sample Depth)
ICP Metal Screening
Loss on Ignition
CYANIDE-TOTAL

SAMPLE RECEIVED (Y OR N)
SAMPLE BROKEN (Y OR N)

L 533759

DATE SUBMITTED: 23-Jul-2007
DATE REQUIRED: Regular Price

SERVICE REQUESTED:
 REGULAR
 PRIORITY (90% SURCHARGE)
 EMERGENCY (100% SURCHARGE)

PRICING (CHECK ONE):
AS PER QUOTE #: Standard
AS PER LIST PRICE:

SAMPLE ID	SAMPLED BY	DATE / TIME SAMPLED	SAMPLE TYPE	LAB SAMPLE NO.
H1NR60				
Sample 1 → 0-15cm	LT/DHM	18-Jul-2007	Soil	1
Sample 1 → 15-30cm	LT/DHM	18-Jul-2007	Soil	2
Sample 2 → 0-15cm	LT/DHM	18-Jul-2007	Soil	3
Sample 2 → 15-30cm	LT/DHM	18-Jul-2007	Soil	4
Sample 3 → 0-30cm	LT/DHM	18-Jul-2007	Soil	5
Sample 4 → 0-30cm	LT/DHM	18-Jul-2007	Soil	6
Sample 5 → 0-30cm	LT/DHM	18-Jul-2007	Soil	7
Sample 6 → 0-30cm	LT/DHM	18-Jul-2007	Soil	8
Sample 7 → 0-30cm	LT/DHM	18-Jul-2007	Soil	9
All soils appear to be organic soils.				
			PREPARED	

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.

3. ALS's liability limited to cost of analysis.

NOTE: Failure to properly complete all portions of this form may delay analysis.

NOTE: Shaded areas MUST be completed in full by client for sample processing to occur.

CLIENT: Victory Dickel Inc.

CONTACT: Dr. David McFarlane

REPORT ADDRESS: Suite 1802

80 Richmond St. W.
Toronto, Ont.
H5H 2R4

PHONE: 519-241-9655

FAX: 416-626-0890

NO. SAMPLES SUBMITTED: Nine (9)

NO. BOTTLES/SAMPLES: None

RELINQUISHED BY: _____ DATE: _____

RELINQUISHED BY: _____ DATE: _____

RECEIVED BY: AM DATE: 24 Jul 07

RECEIVED BY: _____ DATE: _____

ALS LAB: _____

ALS LAB: _____

SAMPLE CONDITION UPON RECEIPT: ACCEPTABLE NON ACCEPTABLE

FROZEN: _____ COLD: _____ AMBIENT: _____

OTHER/BREAKAGE, LEAKAGE, ETC.): _____

WHITE - File Copy
GREEN - Final Report
PINK - Invoicing
BLUE - Client Support
YELLOW - Customer

REF. OCT. / 2006

L7.3-10

APPENDIX L7.5

Certified Laboratory Reports for Surface Water Quality

	Page
Appendix L7.5-A: Data Quality Objectives – ALS Vancouver & Summary of Data Analysis for Water Samples with higher reported Dissolved versus Total Elemental Concentrations_____	L7.5-1
Appendix L7.5-B: Summary of 2006 Trip Blank Water Quality Results Summary of Sept.-Oct. 2007 & May 2008 Blanks WQ Results Summary of March 2008 Blanks Water Quality Results_____	L7.5-7
Appendix L7.5-C: May 2006 Results_____	L7.5-11
Appendix L7.5-D: June 2006 Results_____	L7.5-36
Appendix L7.5-E: July 2006 Results_____	L7.5-61
Appendix L7.5-F: August 2006 Results_____	L7.5-94
Appendix L7.5-G: September 2006 Results_____	L7.5-117
Appendix L7.5-H: October 2006 Results_____	L7.5-140
Appendix L7.5-I: May 2007 Results_____	L7.5-161
Appendix L7.5-J: June 2007 Results_____	L7.5-194
Appendix L7.5-K: July 2007 Results_____	L7.5-240
Appendix L7.5-L: August 2007 Results_____	L7.5-280
Appendix L7.5-M: September 2007 Results_____	L7.5-328
Appendix L7.5-N: October 2007 Results_____	L7.5-433
Appendix L7.5-O: March 2008 Results_____	L7.5-495
Appendix L7.5-P: May 2008 Results_____	L7.5-516

APPENDIX L7.5-A

Data Quality Objectives – ALS Vancouver

&

**Summary of Data Analysis for Water Samples with Higher
reported Dissolved versus Total Element Concentrations**

Data Quality Objectives – ALS Vancouver

DATA QUALITY OBJECTIVES – WATER
Last updated October 19, 2006

Mobile Laboratories	ACCURACY ¹ DQO	PRECISION ² DQO
Extractable Hydrocarbons by GC	60% to 130% Recovery	40% Relative Percent Difference
Non-halogenated Volatile Organics	70% to 130% Recovery	30% Relative Percent Difference
Trace Metals	ACCURACY ¹ DQO	PRECISION ² DQO
All metals	75% to 125% Recovery	20% Relative Percent Difference
Trace Organics	ACCURACY ¹ DQO	PRECISION ² DQO
Acid Extractable Herbicides	50% to 150% Recovery	N/A (whole sample analysis)
Chlorinated Hydrocarbons	50% to 150% Recovery	N/A (whole sample analysis)
Chlorinated Phenolics	50% to 150% Recovery	N/A (whole sample analysis)
Extractable Hydrocarbons by GC	60% to 140% Recovery	N/A (whole sample analysis)
Oil and Grease (gravimetric)	75% to 125% Recovery	N/A (whole sample analysis)
Halogenated Volatile Organics		
- Ambient gases, Dichloromethane	50% to 150% Recovery	30% Relative Percent Difference
- Others	65% to 135% Recovery	
Non-Chlorinated Phenolics		
- Cresols	40% to 140% Recovery	N/A (whole sample analysis)
- Dimethyl Phenol	30% to 150% Recovery	
- Others	50% to 150% Recovery	
Non-halogenated Volatile Organics		
- BTEX compounds	70% to 130% Recovery	30% Relative Percent Difference
- Volatile Hydrocarbons (VH)	70% to 130% Recovery	
- Other non-routine compounds	70% to 130% Recovery	
Organochlorine Pesticides	50% to 150% Recovery	N/A (whole sample analysis)
Organophosphate Pesticides	50% to 150% Recovery	N/A (whole sample analysis)
Polychlorinated Biphenyls	60% to 140% Recovery	N/A (whole sample analysis)
Polycyclic Aromatic Hydrocarbons		
- Naphthalene,	60% to 140% Recovery	N/A (whole sample analysis)
- Acridine, Quinoline	50% to 150% Recovery	
- Others	65% to 135% Recovery	
Resin Acids and Fatty Acids		
- Levopimaric acid	20% to 150% Recovery	50% Relative Percent Difference
- Neoabietic acid	35% to 150% Recovery	
- Others	50% to 150% Recovery	
Glycols	65% to 135% Recovery	30% Relative Percent Difference
Water Quality	ACCURACY ¹ DQO	PRECISION ² DQO
Bacteriological Tests		
Coliform Bacteria - Fecal	Not Available ³	25% (36% by MPN analysis)
Coliform Bacteria - Total	Not Available ³	25% (36% by MPN analysis)
Cyanides (Total and WAD)	85% to 115% Recovery	20% Relative Percent Difference
Thiocyanate SCN	85% to 115% Recovery	20% Relative Percent Difference
Cyanate CNO	80% to 120% Recovery	20% Relative Percent Difference
Dissolved Anions	85% to 115% Recovery	20% Relative Percent Difference
Sulphide S	75% to 125% Recovery	20% Relative Percent Difference
Nutrients	85% to 115% Recovery	20% Relative Percent Difference
Total Nitrogen	80% to 120% Recovery	20% Relative Percent Difference
Total Kjeldahl Nitrogen TKN	80% to 120% Recovery	20% Relative Percent Difference
Organic Parameters	85% to 115% Recovery	25% Relative Percent Difference
Total Organic Carbon TOC	85% to 115% Recovery	20% Relative Percent Difference
Chemical Oxygen Demand COD	85% to 115% Recovery	20% Relative Percent Difference
Biological Oxygen Demand BOD	75% to 125% Recovery	25% Relative Percent Difference
Physical Tests	85% to 115% Recovery	20% Relative Percent Difference
Hardness CaCO3	75% to 125% Recovery	20% Relative Percent Difference
Total Suspended Solid TSS	80% to 120% Recovery	25% Relative Percent Difference

DQO for Contamination Control (Method Blanks): For all tests, method blank concentrations must be less than Commonly Reported Detection Limit (CRDL). Parameters like pH, acidity and alkalinity where no true method blank exists by definition, “zero” spike samples are analyzed; however, they can not be guaranteed to be less than their applicable method detection limit.

The Data Quality Objectives in these tables describe the minimum criteria for acceptance of Quality Control sample data without qualification. Wherever possible, these values have been derived from statistical analysis of actual QC data, and represent a 99% confidence interval. Typically 99% of all QC data analyzed by ALSE will lie within these limits.

Where DQO criteria are not met, and where reported results may be significantly affected, the analysis will be repeated or the reported result will be qualified.

Footnotes and Explanations:

- 1) Accuracy is measured as Percent Difference from True Value or Certified Target for Reference Materials and/or Method Analyte Spikes and Surrogates where applicable. An additional value of +/- 1 detection limit is added to the Accuracy DQO range to deal with variability near the detection limit.

Example DQO for Accuracy: Result is within [(DQO% Recovery x True Value) + DL]

- 2) Precision is measured as the absolute value of Relative Percent Difference for Laboratory Duplicate Samples. $RPD = |(Result2 - Result1) / Mean| * 100\%$. An additional value of +/- $\sqrt{2}$ multiplied by the detection limit is added to the Precision DQO range to deal with variability of the two results near the detection limit.

Example DQO for Precision: Difference between results is $\leq | [(RPD\% * Mean) + ((\sqrt{2}) \times DL)] |$

- 3) Reference materials are not available for bacteriological parameters.

Summary of Data Analysis for Water Samples with Higher reported Dissolved versus Total Element Concentrations

Issue: Dissolved element concentrations reported by the testing laboratories were at times higher than the reported total element concentrations. In theory, dissolved element concentrations are never higher than the total element concentrations.

Investigation: As part of the investigation of this finding, error bounds were calculated for all of the Minago WQ data based on the Data Quality Objectives (DQO) for precision provided by the ALS Vancouver Laboratory. Precision was assumed to be the absolute value of the Relative Percent Difference (RPD) for laboratory duplicate samples plus/minus the additional value of square root of 2 multiplied by the detection limit (DL) to deal with variability of the two results near the detection limit. Thus, the difference between results was assumed to be: $\leq |RPD \times mean| + (\sqrt{2} \times DL)$. A sample calculation of the error bounds is given below.

Example Calculation of Error Bounds:

Aug. 2007 data for aluminum recorded at MRW1:

Total Aluminum (T-Al)	0.0210 ± Δ T-Al mg/L
<u>Dissolved Aluminum (D-Al)</u>	<u>0.0278 ± Δ D-Al mg/L</u>
Difference:	-0.0068 mg/L

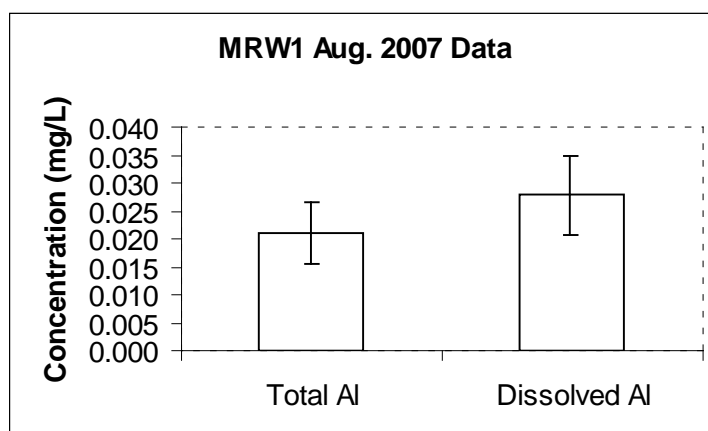
1. Assume RPD% for aluminum is 20%, thus the RPD factor is 0.2.
2. In this example: Mean = 0.0210 mg/L for Total aluminum
Mean = 0.0278 mg/L for Dissolved aluminum
3. In this example: DL = 0.001 mg/L.

$$\text{Allowable Difference (Error): } \Delta \text{ T-Al} = 0.2 \times 0.0210 + 0.00141 = 0.00561 \text{ mg/L}$$

$$\text{Allowable Difference (Error): } \Delta \text{ D-Al} = 0.2 \times 0.0278 + 0.00141 = 0.00697 \text{ mg/L}$$

Thus, the range for Total Aluminum (T-AL ± ΔT-Al) is: 0.01539 mg/L < T-Al < 0.02661 mg/L, and the range for Dissolved Aluminum (D-AL ± ΔD-Al) is: 0.02083 mg/L < D-Al < 0.03477 mg/L.

Therefore, T-AL and D-Al share the same region and are not significantly different.



Error Bound Calculations:

The error bounds were calculated for all Minago water quality data in a similar fashion to the sample calculation presented above. The following assumptions were made in the error bound calculations and comparisons of dissolved and total element concentrations:

- if the measured concentration of an element was below the detection limit, the value for that concentration was set to half of the detection limit;
- if no replicate laboratory data existed for a parameter or if the measured RPD% value was greater than 20%, the RPD% value was set to 20% in the first set of calculations;
- in another set of calculations, all RPD% values were set to 20%.

Results of the Investigation re. Higher Dissolved versus Total Element Concentrations

All Minago water samples for which the reported dissolved element concentrations were higher than the total element concentrations were identified. For these water samples, an analysis was undertaken to determine whether those differences were actually significant based on the calculated error bounds (as was illustrated above). For the vast majority of water samples, the differences between the measured total and dissolved element concentrations were not significant. However, for some of the water samples the differences were significant. Table L7.5-1 summarizes the number of test results for which the differences were significantly different and could not solely be explained with the error bounds. Details of the element concentrations for these water samples and their error bounds are presented at the end of each of the appendices containing the laboratory certified reports.

Table L7.5-1 Number of Test Results with Significant Higher Dissolved versus Total Concentrations

Sampling Date	Number of Results that could not be fully explained with the error bounds assuming RPD as measured or 20% for which no RPD existed	Number of Results that could not be fully explained with the error bounds assuming RPD was 20%	Consultant / Lab
03-May-06	1	1	Wardrop / Maxxam
16-May-06	5	0	Wardrop / Maxxam
20-Jun-06	0	0	Wardrop / Maxxam
18-Jul-06	18	0	Wardrop / Maxxam
22-Aug-06	3	0	Wardrop / Maxxam
19-Sep-06	6	0	Wardrop / Maxxam
12-Oct-06	3	0	Wardrop / Maxxam
15-May-07	5	3	URS / ALS Vancouver
12-Jun-07	1	0	URS / ALS Vancouver
15-Jul-07	4	0	URS / ALS Vancouver
15-Aug-07	6	5	URS / ALS Vancouver
12-Sep-07	3	2	KR Design / ALS Vancouver
15-Oct-07	0	0	KR Design / ALS Vancouver
11-Mar-08	1	0	KR Design / ALS Vancouver
6-9 May-08	32	0	KR Design / ALS Vancouver

For samples where the differences were significant, the error might be due to laboratory method variability as well as other factors such as:

- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples.

APPENDIX L7.5-B

Summary of 2006 Trip Blank Water Quality Results
Summary of Sept.-Oct. 2007 & May 2008 Blanks WQ Results
Summary of March 2008 Blanks Water Quality Results

SUMMARY OF TRIP BLANK RESULTS FOR 2006 WATER QUALITY ANALYSES

			May 3, 2006	June 20, 2006	July 18-20, 2006	August 22- 24, 2006	September 19-20, 2006	October 12, 2006
	Units	RDL						
Physical/Chemical Properties								
Alkalinity (PP as CaCO ₃)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alkalinity (Total as CaCO ₃)	mg/L	0.5	0.7	0.6	<0.5	0.8	1.8	<0.5
Total Dissolved Solids	mg/L	1	<1	<1	<1	<1	<1	<1
Total Hardness (CaCO ₃)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Total Suspended Solids	mg/L	1	<1	<1	<1	<1	<1	<1
True Colour	Col. Unit	5	<5	<5	<5	<5	<5	<5
Turbidity	NTU	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Major Ions								
Dissolved Calcium (Ca)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dissolved Chloride (Cl)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Magnesium (Mg)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dissolved Potassium (K)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dissolved Sodium (Na)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dissolved Sulphate (SO ₄)	mg/L	0.5	<0.5	0.6	<5 (1)	<0.5	<0.5	<0.5
Fluoride (F)	mg/L		n/a	n/a	<0.01	<0.01	0.01	0.01
Nutrients								
Ammonia (N)	mg/L	0.005	<0.005	<0.005	<0.005	0.007	0.005	0.007
Dissolved Inorganic Carbon (C)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Organic Carbon (C)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Phosphorus (P)	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Nitrate (N)	mg/L	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02
Nitrite (N)	mg/L	0.005	0.047	<0.005	<0.005	<0.005	0.005	<0.005
Total Inorganic Carbon (C)	mg/L	0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
Total Kjeldahl Nitrogen (Calc)	mg/L	0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
Total Organic Carbon (C)	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phosphorus (P)	mg/L	0.002	0.002	<0.002	0.003	<0.002	<0.002	<0.002
Radiochemical								
Radium 226	Bq/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Dissolved Metals								
Aluminum (Al)	mg/L	0.0002	<0.0002	0.0004	0.0003	<0.0002	0.0003	<0.0002
Antimony (Sb)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Arsenic (As)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Barium (Ba)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Beryllium (Be)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Bismuth (Bi)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Boron (B)	mg/L	0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Cadmium (Cd)	mg/L	0.00001	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chromium (Cr)	mg/L	0.0002	<0.0002	0.0002	0.0004	<0.0002	<0.0002	<0.0002
Cobalt (Co)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Copper (Cu)	mg/L	0.0001	<0.0001	0.0001	0.0002	<0.0001	<0.0001	<0.0001
Iron (Fe)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Lithium (Li)	mg/L	0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
Manganese (Mn)	mg/L	0.00002	<0.00002	0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Mercury (Hg)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum (Mo)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Nickel (Ni)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Selenium (Se)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon (Si)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver (Ag)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium (Sr)	mg/L	0.00001	0.00004	<0.00001	0.00002	<0.00001	<0.00001	0.00003
Thallium (Tl)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin (Sn)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Titanium (Ti)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Uranium (U)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Vanadium (V)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Zinc (Zn)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Metals								
Aluminum (Al)	mg/L	0.0002	<0.0002	0.0018	0.0010	0.0019	0.0007	<0.0002
Antimony (Sb)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Arsenic (As)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002
Barium (Ba)	mg/L	0.00002	<0.00002	0.00005	0.00003	0.00004	0.00010	<0.00002
Beryllium (Be)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Bismuth (Bi)	mg/L	0.00005	<0.00005	<0.00005	0.00005	0.00009	<0.00005	<0.00005
Boron (B)	mg/L	0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Cadmium (Cd)	mg/L	0.00001	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium (Ca)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium (Cr)	mg/L	0.0002	<0.0002	0.0010	0.0005	0.0006	0.0007	<0.0002
Cobalt (Co)	mg/L	0.00002	<0.00002	0.00003	<0.00002	<0.00002	0.00022	<0.00002
Copper (Cu)	mg/L	0.0001	<0.0001	0.0002	0.0001	0.0001	<0.0001	<0.0001
Iron (Fe)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead (Pb)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Lithium (Li)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Magnesium (Mg)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Manganese (Mn)	mg/L	0.00002	<0.00002	0.00023	0.00012	0.00007	0.00004	0.00002
Mercury (Hg)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum (Mo)	mg/L	0.00002	<0.00002	0.00006	<0.00002	<0.00002	<0.00002	<0.00002
Nickel (Ni)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Potassium (K)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium (Se)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon (Si)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver (Ag)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001
Sodium (Na)	mg/L	0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Strontium (Sr)	mg/L	0.00001	<0.00001	0.00003	0.00006	0.00002	0.00002	0.00004
Thallium (Tl)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin (Sn)	mg/L	0.00005	<0.00005	0.00007	0.00006	<0.00005	<0.00005	<0.00005
Titanium (Ti)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Uranium (U)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001
Vanadium (V)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Zinc (Zn)	mg/L	0.0005	<0.0005	<0.0005	0.0006	0.0005	<0.0005	<0.0005

RESULTS OF ANALYSIS	Units	Deionized water for these samples was prepared by the ALS Winnipeg Lab				Concentrations in the Deionized Water at the time of preparation at ALS Winnipeg Lab
		FILTER BLANK	SAMPLE OF DEIONIZED WATER	FIELD BLANK	TRAVEL BLANK	
Sample ID						
Date Sampled		11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08	
Time Sampled		00:00	00:00	00:00	00:00	
ALS Sample ID		L610409-4	L610409-5	L610409-6	L610409-7	
Matrix		Water	Water	Water	Water	
Concentrations as measured by ALS Vancouver						
Physical Tests						
Hardness (as CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	
Total Elements						
Aluminum (Al)-Total	mg/L	-	<0.0010	<0.0010	<0.0010	<0.005
Antimony (Sb)-Total	mg/L	-	0.000844	0.000836	0.000798	<0.001
Arsenic (As)-total	mg/L	-	<0.000030	<0.000030	<0.000030	<0.0005
Barium (Ba)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.0003
Beryllium (Be)-total	mg/L	-	<0.00020	<0.00020	<0.00020	<0.001
Bismuth (Bi)-Total	mg/L	-	<0.00050	<0.00050	<0.00050	<0.0001
Boron (B)-total	mg/L	-	0.0034	0.0019	0.0018	<0.03
Cadmium (Cd)-Total	mg/L	-	<0.000017	<0.000017	<0.000017	<0.00002
Calcium (Ca)-Total	mg/L	-	<0.020	0.18	<0.020	<0.1
Chromium (Cr)-Total	mg/L	-	0.00027	<0.00010	<0.00010	<0.001
Cobalt (Co)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.0002
Copper (Cu)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.001
Iron (Fe)-Total	mg/L	-	<0.010	<0.010	<0.010	<0.05
Lead (Pb)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.0005
Lithium (Li)-Total	mg/L	-	<0.0050	<0.0050	<0.0050	<0.01
Magnesium (Mg)-Total	mg/L	-	0.0327	<0.0050	<0.0050	<0.01
Manganese (Mn)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.0003
Mercury (Hg)-Total	mg/L	-	<0.000010	<0.000010	<0.000010	<0.0001
Molybdenum (Mo)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.0002
Nickel (Ni)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.002
Phosphorus (P)-Total	mg/L	-	<0.30	<0.30	<0.30	<0.05
Potassium (K)-Total	mg/L	-	<0.050	<0.050	<0.050	<0.1
Selenium (Se)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.001
Silicon (Si)-Total	mg/L	-	<0.050	<0.050	<0.050	<0.3
Silver (Ag)-Total	mg/L	-	<0.000010	<0.000010	<0.000010	<0.0001
Sodium (Na)-Total	mg/L	-	<0.010	<0.010	<0.010	<0.03
Strontium (Sr)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.0001
Thallium (Tl)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.0001
Tin (Sn)-Total	mg/L	-	<0.00010	<0.00010	<0.00010	<0.0006
Titanium (Ti)-Total	mg/L	-	<0.010	<0.010	<0.010	<0.0009
Uranium (U)-Total	mg/L	-	<0.000010	<0.000010	<0.000010	<0.0001
Vanadium (V)-Total	mg/L	-	<0.000050	<0.000050	<0.000050	<0.001
Zinc (Zn)-Total	mg/L	-	<0.0010	<0.0010	<0.0010	<0.01
Dissolved Elements						
Aluminum (Al)-Dissolved	mg/L	<0.0010	-	-	-	<0.001
Antimony (Sb)-Dissolved	mg/L	0.000961	-	-	-	<0.001
Arsenic (As)-Dissolved	mg/L	<0.000030	-	-	-	<0.0005
Barium (Ba)-Dissolved	mg/L	<0.000050	-	-	-	<0.0003
Beryllium (Be)-Dissolved	mg/L	<0.00020	-	-	-	<0.001
Bismuth (Bi)-Dissolved	mg/L	<0.00050	-	-	-	<0.0003
Boron (B)-Dissolved	mg/L	0.0031	-	-	-	<0.02
Cadmium (Cd)-Dissolved	mg/L	<0.000017	-	-	-	<0.00002
Calcium (Ca)-Dissolved	mg/L	<0.020	-	-	-	<0.05
Chromium (Cr)-Dissolved	mg/L	<0.00010	-	-	-	<0.001
Cobalt (Co)-Dissolved	mg/L	<0.00010	-	-	-	<0.0002
Copper (Cu)-Dissolved	mg/L	<0.00010	-	-	-	<0.0004
Iron (Fe)-Dissolved	mg/L	<0.010	-	-	-	<0.01
Lead (Pb)-Dissolved	mg/L	<0.000050	-	-	-	<0.0001
Lithium (Li)-Dissolved	mg/L	<0.0050	-	-	-	<0.005
Magnesium (Mg)-Dissolved	mg/L	0.0081	-	-	-	<0.01
Manganese (Mn)-Dissolved	mg/L	<0.000050	-	-	-	<0.0002
Mercury (Hg)-Dissolved	mg/L	<0.000010	-	-	-	<0.00005
Molybdenum (Mo)-Dissolved	mg/L	<0.000050	-	-	-	<0.0001
Nickel (Ni)-Dissolved	mg/L	<0.00010	-	-	-	<0.0002
Phosphorus (P)-Dissolved	mg/L	<0.30	-	-	-	<0.02
Potassium (K)-Dissolved	mg/L	<0.050	-	-	-	<0.05
Selenium (Se)-Dissolved	mg/L	<0.00010	-	-	-	<0.001
Silicon (Si)-Dissolved	mg/L	<0.050	-	-	-	<0.2
Silver (Ag)-Dissolved	mg/L	<0.000010	-	-	-	<0.0001
Sodium (Na)-Dissolved	mg/L	<0.010	-	-	-	<0.02
Strontium (Sr)-Dissolved	mg/L	<0.00010	-	-	-	<0.0001
Thallium (Tl)-Dissolved	mg/L	<0.000050	-	-	-	<0.0001
Tin (Sn)-Dissolved	mg/L	<0.00010	-	-	-	<0.0003
Titanium (Ti)-Dissolved	mg/L	<0.010	-	-	-	<0.0005
Uranium (U)-Dissolved	mg/L	<0.000010	-	-	-	<0.0001
Vanadium (V)-Dissolved	mg/L	<0.000050	-	-	-	<0.001
Zinc (Zn)-Dissolved	mg/L	<0.0010	-	-	-	<0.005

APPENDIX L7.5-C

Certified Laboratory Reports for Surface Water Quality

May 2006 Results



Your Project #: 065133 0200

Your C.O.C. #: 30344

Attention: DOUG RAMSEY
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 4M8

Report Date: 2006/06/06

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A620630****Received: 2006/05/19, 8:50**

Sample Matrix: Water

Samples Received: 5

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	5	2006/05/23	2006/05/23	ING413 Rev.1.7	Based on SM2320B
Chloride (IC)	2	N/A	2006/05/19	ING303 Rev.3.4	SM - 4110B
Chloride (IC)	3	N/A	2006/05/24	ING303 Rev.3.4	SM - 4110B
Colour (True)	5	N/A	2006/05/23	ING250 Rev 1.0	Based on SM-2120B
Carbon (DOC)	5	N/A	2006/05/23	ING211 Rev. 2.4	Based on SM-5310C
Hardness Total (calculated as CaCO3)	5	N/A	2006/05/24		
Hardness (calculated as CaCO3)	5	N/A	2006/05/24		
Mercury (Dissolved)	5	2006/05/25	2006/05/25	ING143 Rev.6.2	Based on EPA 245.1
Mercury (Total)	5	2006/05/25	2006/05/25	ING143 Rev.6.2	Based on EPA 245.1
Elements by ICP-AES (dissolved)	5	2006/05/24	2006/05/24	ING101 Rev.4.0	Based on EPA 6010B
Elements by ICPMS (dissolved) @	5	2006/05/23	2006/05/23	ING113 Rev. 1.1	Based on EPA 200.8
Elements by ICPMS (total) @	5	N/A	2006/05/23	ING113 Rev.1.1	Based on EPA 200.8
Elements by ICP-AES (total)	1	N/A	2006/05/24	ING101 Rev 4.0	Based on EPA 6010B
Elements by ICP-AES (total)	4	N/A	2006/05/25	ING101 Rev 4.0	Based on EPA 6010B
Nitrogen (Total)	5	2006/05/29	2006/05/29	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	5	N/A	2006/05/25	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate + Nitrite (N)	5	N/A	2006/05/24	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	5	N/A	2006/05/24	ING233 Rev.4.3	EPA 353.2
Nitrogen - Nitrate (as N)	5	N/A	2006/05/24		
Filter and HNO3 Preserve for Metals	5	2006/05/24	2006/05/24	QAP103 Rev 1.2	Based on EPA 200.2
Sulphate (SO4)	2	N/A	2006/05/19	ING303 Rev. 3.4	
Sulphate (SO4)	3	N/A	2006/05/24	ING303 Rev. 3.4	
Sublet (Inorganics) @	5	N/A	2006/05/29		
Sublet (ORGANICS)	5	N/A	2006/06/06		
Carbon (Total Inorganic)	5	N/A	2006/05/25	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	5	N/A	2006/05/24		
Carbon (Total Organic)	5	N/A	2006/05/23	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) @	5	2006/05/23	2006/05/23	ING 237 Rev 5.0	Based on SM-4500P F
Total Phosphorus	5	N/A	2006/05/23	ING237 Rev.5.0	SM 4500
Total Suspended Solids	5	N/A	2006/05/24	ING444 Rev.2.3	Based on SM-2540 D

..12

Your Project #: 065133 0200
Your C.O.C. #: 30344

Attention: DOUG RAMSEY
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 4M8

Report Date: 2006/06/06

CERTIFICATE OF ANALYSIS

-2-

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity	5	N/A	2006/05/23	ING 415 Rev.3.1	SM - 2130B

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) SCC/CAEAL

MAXXAM Analytics Inc.

ROB MACARTHUR
Customer Service Rep

RM1/rml
encl.

Validated by : 
ROB MACARTHUR
Customer Service Rep

Total cover pages: 2

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B36445	B36446		
Sampling Date		2006/05/16 15:30	2006/05/17 14:00		
COC Number		30344	30344		
	Units	OCW1	OCW2	RDL	QC Batch
Parameter					
Subcontract Parameter	N/A	ATTACHED	ATTACHED	N/A	1155891
Preparation					
Filter and HNO3 Preservation	N/A	Yes	Yes	N/A	1142789
ANIONS					
Nitrite (N)	mg/L	<0.005	<0.005	0.005	1142780
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	160	170	0.5	1142358
Nitrate (N)	mg/L	<0.02	<0.02	0.02	1142362
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	160	170	0.5	1142359
Dissolved Organic Carbon (C)	mg/L	14.5	13.1	0.5	1141252
Alkalinity (Total as CaCO3)	mg/L	146	162	0.5	1140320
Total Organic Carbon (C)	mg/L	12.7	11.9	0.5	1141253
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	0.5	1140320
Bicarbonate (HCO3)	mg/L	178	198	0.5	1140320
Carbonate (CO3)	mg/L	<0.5	<0.5	0.5	1140320
Hydroxide (OH)	mg/L	<0.5	<0.5	0.5	1140320
Anions					
Dissolved Sulphate (SO4)	mg/L	1.5	1.6	0.5	1139666
Dissolved Chloride (Cl)	mg/L	1.6	<0.5	0.5	1139667
MISCELLANEOUS					
True Colour	Col. Unit	30	30	5	1140500
Nutrients					
Total Kjeldahl Nitrogen (Calc)	mg/L	0.37	0.33	0.02	1142372
Dissolved Phosphorus (P)	mg/L	0.003	0.003	0.002	1140387
Ammonia (N)	mg/L	0.008	0.007	0.005	1143821
Total Inorganic Carbon (C)	mg/L	35.7	37.8	0.5	1143807
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	0.02	1142778
Total Nitrogen (N)	mg/L	0.37	0.33	0.02	1146263
Total Phosphorus (P)	mg/L	0.008	0.006	0.002	1140393
Physical Properties					
Total Suspended Solids	mg/L	<1	1	1	1141067
RDL = Reportable Detection Limit					



Maxxam Job #: A620630
 Report Date: 2006/06/06

WARDROP ENGINEERING INC.
 Client Project #: 065133 0200
 Site Reference:
 Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B36445	B36446		
Sampling Date		2006/05/16	2006/05/17		
		15:30	14:00		
COC Number		30344	30344		
	Units	OCW1	OCW2	RDL	QC Batch
Turbidity	NTU	0.4	0.3	0.1	1140474
RDL = Reportable Detection Limit					

Maxxam Job #: A620630
 Report Date: 2006/06/06

 WARDROP ENGINEERING INC.
 Client Project #: 065133 0200
 Site Reference:
 Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B36447	B36448	B36449		
Sampling Date		2006/05/17 15:00	2006/05/17 18:00	2006/05/17 15:30		
COC Number		30344	30344	30344		
	Units	OCW3	MINAGO	X	RDL	QC Batch
Parameter						
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1155891
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1142789
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1142780
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	190	110	160	0.5	1142358
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1142362
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	190	110	160	0.5	1142359
Dissolved Organic Carbon (C)	mg/L	11.6	13.9	12.2	0.5	1141252
Alkalinity (Total as CaCO3)	mg/L	185	104	147	0.5	1140320
Total Organic Carbon (C)	mg/L	11.1	14.2	12.4	0.5	1141253
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1140320
Bicarbonate (HCO3)	mg/L	225	127	180	0.5	1140320
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	0.5	1140320
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	0.5	1140320
Anions						
Dissolved Sulphate (SO4)	mg/L	2.6	0.9	1.4	0.5	1142820
Dissolved Chloride (Cl)	mg/L	0.6	0.7	<0.5	0.5	1142819
MISCELLANEOUS						
True Colour	Col. Unit	30	40	40	5	1140500
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.30	0.49	0.38	0.02	1142372
Dissolved Phosphorus (P)	mg/L	0.003	0.013	0.004	0.002	1140387
Ammonia (N)	mg/L	0.010	<0.005	0.008	0.005	1143821
Total Inorganic Carbon (C)	mg/L	42.4	25.3	35.6	0.5	1143807
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1142778
Total Nitrogen (N)	mg/L	0.30	0.49	0.38	0.02	1146263
Total Phosphorus (P)	mg/L	0.006	0.017	0.006	0.002	1140393
Physical Properties						
Total Suspended Solids	mg/L	1	2	2	1	1141067
RDL = Reportable Detection Limit						

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B36447	B36448	B36449		
Sampling Date		2006/05/17 15:00	2006/05/17 18:00	2006/05/17 15:30		
COC Number		30344	30344	30344		
	Units	OCW3	MINAGO	X	RDL	QC Batch

Turbidity	NTU	0.3	2.4	0.7	0.1	1140474
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RDL = Reportable Detection Limit

Maxxam Job #: A620630
 Report Date: 2006/06/06

 WARDROP ENGINEERING INC.
 Client Project #: 065133 0200
 Site Reference:
 Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36445		B36446		
Sampling Date		2006/05/16 15:30		2006/05/17 14:00		
COC Number		30344		30344		
	Units	OCW1	QC Batch	OCW2	RDL	QC Batch

Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	<0.008	1142818	<0.008	0.008	1142818
Dissolved Calcium (Ca)	mg/L	34.6	1142818	38.1	0.05	1142818
Dissolved Iron (Fe)	mg/L	0.033	1142818	0.021	0.005	1142818
Dissolved Magnesium (Mg)	mg/L	17.3	1142818	18.9	0.05	1142818
Dissolved Phosphorus (P)	mg/L	<0.1	1142818	<0.1	0.1	1142818
Dissolved Silicon (Si)	mg/L	1.87	1142818	1.75	0.05	1142818
Dissolved Sodium (Na)	mg/L	2.04	1142818	2.13	0.05	1142818
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	2.4	1141463	1.8	0.2	1141463
Dissolved Antimony (Sb)	ug/L	<0.05	1141463	<0.05	0.05	1141463
Dissolved Arsenic (As)	ug/L	0.3	1141463	0.3	0.1	1141463
Dissolved Barium (Ba)	ug/L	19.3	1141463	22.0	0.02	1141463
Dissolved Beryllium (Be)	ug/L	<0.05	1141463	<0.05	0.05	1141463
Dissolved Bismuth (Bi)	ug/L	<0.05	1141463	<0.05	0.05	1141463
Dissolved Cadmium (Cd)	ug/L	0.01	1141463	0.01	0.01	1141463
Dissolved Chromium (Cr)	ug/L	0.7	1141463	0.8	0.2	1141463
Dissolved Cobalt (Co)	ug/L	<0.02	1141463	<0.02	0.02	1141463
Dissolved Copper (Cu)	ug/L	<0.1	1141463	<0.1	0.1	1141463
Dissolved Lead (Pb)	ug/L	0.05	1141463	0.03	0.02	1141463
Dissolved Lithium (Li)	ug/L	2.1	1141463	2.4	0.2	1141463
Dissolved Manganese (Mn)	ug/L	3.39	1141463	0.83	0.02	1141463
Dissolved Molybdenum (Mo)	ug/L	0.08	1141463	0.09	0.02	1141463
Dissolved Nickel (Ni)	ug/L	<0.5	1141463	<0.5	0.5	1141463
Dissolved Potassium (K)	ug/L	497	1141463	573	50	1141463
Dissolved Selenium (Se)	ug/L	<0.5	1141463	<0.5	0.5	1141463
Dissolved Silver (Ag)	ug/L	<0.01	1141463	<0.01	0.01	1141463
Dissolved Strontium (Sr)	ug/L	33.8	1141463	37.0	0.01	1141463
Dissolved Thallium (Tl)	ug/L	<0.05	1141463	<0.05	0.05	1141463
Dissolved Tin (Sn)	ug/L	<0.05	1141463	<0.05	0.05	1141463
Dissolved Titanium (Ti)	ug/L	<0.5	1141463	<0.5	0.5	1141463
Dissolved Uranium (U)	ug/L	0.16	1141463	0.22	0.01	1141463
Dissolved Vanadium (V)	ug/L	0.07	1141463	0.05	0.05	1141463

RDL = Reportable Detection Limit

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36445		B36446		
Sampling Date		2006/05/16		2006/05/17		
		15:30		14:00		
COC Number		30344		30344		
	Units	OCW1	QC Batch	OCW2	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.5	1141463	<0.5	0.5	1141463
Mercury by CVAA						
Dissolved Mercury (Hg)	ug/L	<0.05	1143295	<0.05	0.05	1143295
Total Mercury (Hg)	ug/L	0.07	1143294	<0.05	0.05	1143294
Total Metals by ICP						
Total Boron (B)	mg/L	<0.008	1142747	0.012	0.008	1144272
Total Calcium (Ca)	mg/L	33.1	1142747	35.1	0.05	1144272
Total Iron (Fe)	mg/L	0.084	1142747	0.043	0.005	1144272
Total Magnesium (Mg)	mg/L	16.5	1142747	18.0	0.05	1144272
Total Phosphorus (P)	mg/L	<0.1	1142747	<0.1	0.1	1144272
Total Silicon (Si)	mg/L	1.90	1142747	1.77	0.05	1144272
Total Sodium (Na)	mg/L	1.91	1142747	1.95	0.05	1144272
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	24.0	1141486	9.3	0.2	1141486
Total Antimony (Sb)	ug/L	<0.05	1141486	<0.05	0.05	1141486
Total Arsenic (As)	ug/L	0.3	1141486	0.4	0.1	1141486
Total Barium (Ba)	ug/L	18.8	1141486	20.5	0.02	1141486
Total Beryllium (Be)	ug/L	<0.05	1141486	<0.05	0.05	1141486
Total Bismuth (Bi)	ug/L	<0.05	1141486	<0.05	0.05	1141486
Total Cadmium (Cd)	ug/L	0.01	1141486	<0.01	0.01	1141486
Total Chromium (Cr)	ug/L	0.3	1141486	0.3	0.2	1141486
Total Cobalt (Co)	ug/L	0.04	1141486	0.03	0.02	1141486
Total Copper (Cu)	ug/L	0.6	1141486	0.2	0.1	1141486
Total Lead (Pb)	ug/L	0.04	1141486	0.04	0.02	1141486
Total Lithium (Li)	ug/L	2.7	1141486	2.7	0.2	1141486
Total Manganese (Mn)	ug/L	12.7	1141486	4.22	0.02	1141486
Total Molybdenum (Mo)	ug/L	0.08	1141486	0.09	0.02	1141486
Total Nickel (Ni)	ug/L	<0.5	1141486	<0.5	0.5	1141486
Total Potassium (K)	ug/L	544	1141486	603	50	1141486
Total Selenium (Se)	ug/L	<0.5	1141486	<0.5	0.5	1141486
Total Silver (Ag)	ug/L	<0.01	1141486	<0.01	0.01	1141486
Total Strontium (Sr)	ug/L	35.0	1141486	35.4	0.01	1141486
Total Thallium (Tl)	ug/L	<0.05	1141486	<0.05	0.05	1141486
RDL = Reportable Detection Limit						

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36445		B36446		
Sampling Date		2006/05/16 15:30		2006/05/17 14:00		
COC Number		30344		30344		
	Units	OCW1	QC Batch	OCW2	RDL	QC Batch
Total Tin (Sn)	ug/L	<0.05	1141486	<0.05	0.05	1141486
Total Titanium (Ti)	ug/L	1.5	1141486	0.5	0.5	1141486
Total Uranium (U)	ug/L	0.17	1141486	0.22	0.01	1141486
Total Vanadium (V)	ug/L	0.11	1141486	0.08	0.05	1141486
Total Zinc (Zn)	ug/L	1.2	1141486	1.5	0.5	1141486
RDL = Reportable Detection Limit						

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36447	B36448	B36449		
Sampling Date		2006/05/17 15:00	2006/05/17 18:00	2006/05/17 15:30		
COC Number		30344	30344	30344		
	Units	OCW3	MINAGO	X	RDL	QC Batch

Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.009	0.011	0.009	0.008	1142818
Dissolved Calcium (Ca)	mg/L	42.9	24.4	34.9	0.05	1142818
Dissolved Iron (Fe)	mg/L	0.019	0.056	0.035	0.005	1142818
Dissolved Magnesium (Mg)	mg/L	21.2	11.7	17.5	0.05	1142818
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1142818
Dissolved Silicon (Si)	mg/L	1.96	2.28	1.86	0.05	1142818
Dissolved Sodium (Na)	mg/L	2.04	3.33	2.05	0.05	1142818
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	1.5	13.4	2.7	0.2	1141463
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1141463
Dissolved Arsenic (As)	ug/L	0.3	0.6	0.3	0.1	1141463
Dissolved Barium (Ba)	ug/L	25.3	9.18	17.1	0.02	1141463
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1141463
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	0.09	0.05	1141463
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1141463
Dissolved Chromium (Cr)	ug/L	0.8	<0.2	<0.2	0.2	1141463
Dissolved Cobalt (Co)	ug/L	<0.02	0.03	<0.02	0.02	1141463
Dissolved Copper (Cu)	ug/L	<0.1	0.4	1.5	0.1	1141463
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	0.25	0.02	1141463
Dissolved Lithium (Li)	ug/L	2.6	2.5	2.2	0.2	1141463
Dissolved Manganese (Mn)	ug/L	1.13	0.78	3.04	0.02	1141463
Dissolved Molybdenum (Mo)	ug/L	0.10	0.08	0.07	0.02	1141463
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	0.5	0.5	1141463
Dissolved Potassium (K)	ug/L	631	636	486	50	1141463
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1141463
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1141463
Dissolved Strontium (Sr)	ug/L	38.6	33.6	31.1	0.01	1141463
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1141463
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	<0.05	0.05	1141463
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.5	1141463
Dissolved Uranium (U)	ug/L	0.31	0.12	0.16	0.01	1141463
Dissolved Vanadium (V)	ug/L	0.06	0.29	0.06	0.05	1141463

RDL = Reportable Detection Limit

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36447	B36448	B36449		
Sampling Date		2006/05/17 15:00	2006/05/17 18:00	2006/05/17 15:30		
COC Number		30344	30344	30344		
	Units	OCW3	MINAGO	X	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	2.2	0.5	1141463
Mercury by CVAA						
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1143295
Total Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1143294
Total Metals by ICP						
Total Boron (B)	mg/L	<0.008	0.009	0.010	0.008	1144272
Total Calcium (Ca)	mg/L	40.5	23.5	33.3	0.05	1144272
Total Iron (Fe)	mg/L	0.039	0.189	0.362	0.005	1144272
Total Magnesium (Mg)	mg/L	20.7	11.6	17.0	0.05	1144272
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1144272
Total Silicon (Si)	mg/L	2.04	2.65	2.07	0.05	1144272
Total Sodium (Na)	mg/L	2.05	3.33	1.98	0.05	1144272
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	8.4	75.3	60.8	0.2	1141486
Total Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1141486
Total Arsenic (As)	ug/L	0.3	0.6	0.4	0.1	1141486
Total Barium (Ba)	ug/L	24.4	9.34	27.6	0.02	1141486
Total Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1141486
Total Bismuth (Bi)	ug/L	0.23	0.08	<0.05	0.05	1141486
Total Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1141486
Total Chromium (Cr)	ug/L	0.5	0.5	0.7	0.2	1141486
Total Cobalt (Co)	ug/L	0.03	0.08	0.29	0.02	1141486
Total Copper (Cu)	ug/L	0.4	5.6	0.5	0.1	1141486
Total Lead (Pb)	ug/L	0.03	0.73	0.12	0.02	1141486
Total Lithium (Li)	ug/L	3.1	2.7	2.7	0.2	1141486
Total Manganese (Mn)	ug/L	2.76	16.9	475	0.02	1141486
Total Molybdenum (Mo)	ug/L	0.12	0.08	0.07	0.02	1141486
Total Nickel (Ni)	ug/L	<0.5	0.6	<0.5	0.5	1141486
Total Potassium (K)	ug/L	705	660	709	50	1141486
Total Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1141486
Total Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1141486
Total Strontium (Sr)	ug/L	38.9	32.3	34.3	0.01	1141486
Total Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1141486
RDL = Reportable Detection Limit						

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B36447	B36448	B36449		
Sampling Date		2006/05/17 15:00	2006/05/17 18:00	2006/05/17 15:30		
COC Number		30344	30344	30344		
	Units	OCW3	MINAGO	X	RDL	QC Batch

Total Tin (Sn)	ug/L	<0.05	0.60	<0.05	0.05	1141486
Total Titanium (Ti)	ug/L	0.6	3.5	3.3	0.5	1141486
Total Uranium (U)	ug/L	0.34	0.12	0.19	0.01	1141486
Total Vanadium (V)	ug/L	0.09	0.44	0.29	0.05	1141486
Total Zinc (Zn)	ug/L	<0.5	4.8	2.3	0.5	1141486

RDL = Reportable Detection Limit

Maxxam Job #: A620630
Report Date: 2006/06/06

WARDROP ENGINEERING INC.
Client Project #: 065133 0200
Site Reference:
Sampler Initials:

General Comments

Results relate only to the items tested.

Quality Assurance Report
Maxxam Job Number: VA620630

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1139666 AH3	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/05/19		95	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2006/05/19		103	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/05/19	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/05/19	4.3		%	25
1139667 AH3	MATRIX SPIKE	Dissolved Chloride (Cl)	2006/05/19		97	%	80 - 120
	SPIKE	Dissolved Chloride (Cl)	2006/05/19		103	%	80 - 120
	BLANK	Dissolved Chloride (Cl)	2006/05/19	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)	2006/05/19	NC		%	25
1140320 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/05/23		96	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/05/23		100	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/05/23	0.7, RDL=0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/05/23	<0.5		mg/L	
		Bicarbonate (HCO3)	2006/05/23	0.9, RDL=0.5		mg/L	
		Carbonate (CO3)	2006/05/23	<0.5		mg/L	
		Hydroxide (OH)	2006/05/23	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2006/05/23	0.7		%	25
		Alkalinity (PP as CaCO3)	2006/05/23	NC		%	25
		Bicarbonate (HCO3)	2006/05/23	0.6		%	25
	Carbonate (CO3)	2006/05/23	NC		%	25	
	Hydroxide (OH)	2006/05/23	NC		%	25	
1140387 SC2	MATRIX SPIKE	Dissolved Phosphorus (P)	2006/05/23		86	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2006/05/23		108	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2006/05/23	<0.002		mg/L	
	RPD	Dissolved Phosphorus (P)	2006/05/23	NC		%	20
1140393 SC2	MATRIX SPIKE	Total Phosphorus (P)	2006/05/23		85	%	80 - 120
	SPIKE	Total Phosphorus (P)	2006/05/23		117	%	80 - 120
	BLANK	Total Phosphorus (P)	2006/05/23	<0.002		mg/L	
	RPD	Total Phosphorus (P)	2006/05/23	NC		%	25
1140474 CK	SPIKE	Turbidity	2006/05/23		102	%	80 - 120
	BLANK	Turbidity	2006/05/23	<0.1		NTU	
	RPD	Turbidity	2006/05/23	0.7		%	25
1141067 WAY	SPIKE	Total Suspended Solids	2006/05/24		100	%	N/A
	BLANK	Total Suspended Solids	2006/05/24	<1		mg/L	
1141252 MX	MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/05/23		109	%	80 - 120
	SPIKE	Dissolved Organic Carbon (C)	2006/05/23		105	%	80 - 120
	BLANK	Dissolved Organic Carbon (C)	2006/05/23	<0.5		mg/L	
	RPD	Dissolved Organic Carbon (C)	2006/05/23	1.9		%	20
1141253 MX	MATRIX SPIKE	Total Organic Carbon (C)	2006/05/23		112	%	80 - 120
	SPIKE	Total Organic Carbon (C)	2006/05/23		109	%	80 - 120
	BLANK	Total Organic Carbon (C)	2006/05/23	<0.5		mg/L	
	RPD [B36445-01]	Total Organic Carbon (C)	2006/05/23	2.5		%	20
	RPD [B36449-01]	Total Organic Carbon (C)	2006/05/23	0.7		%	20
1141463 DJ	MATRIX SPIKE	Dissolved Arsenic (As)	2006/05/23		103	%	75 - 125
		Dissolved Cadmium (Cd)	2006/05/23		101	%	75 - 125
		Dissolved Chromium (Cr)	2006/05/23		102	%	75 - 125
		Dissolved Cobalt (Co)	2006/05/23		103	%	75 - 125
		Dissolved Copper (Cu)	2006/05/23		109	%	75 - 125
		Dissolved Lead (Pb)	2006/05/23		101	%	75 - 125
		Dissolved Selenium (Se)	2006/05/23		106	%	75 - 125
		Dissolved Thallium (Tl)	2006/05/23		97	%	75 - 125
		Dissolved Zinc (Zn)	2006/05/23		106	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2006/05/23		115	%	75 - 125
		Dissolved Cadmium (Cd)	2006/05/23		112	%	75 - 125
		Dissolved Chromium (Cr)	2006/05/23		115	%	75 - 125
		Dissolved Cobalt (Co)	2006/05/23		112	%	75 - 125
		Dissolved Copper (Cu)	2006/05/23		118	%	75 - 125

WARDROP ENGINEERING INC.
maxxamanalytix.com
Attention: DOUG RAMSEY
Client Project #: 065133 0200
P.O. #:
Site Reference:

Quality Assurance Report (Continued)
Maxxam Job Number: VA620630

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1141463 DJ	SPIKE	Dissolved Lead (Pb)	2006/05/23		106	%	75 - 125		
		Dissolved Selenium (Se)	2006/05/23		118	%	75 - 125		
		Dissolved Thallium (Tl)	2006/05/23		104	%	75 - 125		
		Dissolved Zinc (Zn)	2006/05/23		115	%	75 - 125		
	BLANK	Dissolved Aluminum (Al)	2006/05/23	<0.2			ug/L		
		Dissolved Antimony (Sb)	2006/05/23	<0.05			ug/L		
		Dissolved Arsenic (As)	2006/05/23	<0.1			ug/L		
		Dissolved Barium (Ba)	2006/05/23	0.03, RDL=0.02			ug/L		
		Dissolved Beryllium (Be)	2006/05/23	<0.05			ug/L		
		Dissolved Bismuth (Bi)	2006/05/23	<0.05			ug/L		
		Dissolved Cadmium (Cd)	2006/05/23	<0.01			ug/L		
		Dissolved Chromium (Cr)	2006/05/23	<0.2			ug/L		
		Dissolved Cobalt (Co)	2006/05/23	<0.02			ug/L		
		Dissolved Copper (Cu)	2006/05/23	<0.1			ug/L		
		Dissolved Lead (Pb)	2006/05/23	<0.02			ug/L		
		Dissolved Lithium (Li)	2006/05/23	<0.2			ug/L		
		Dissolved Manganese (Mn)	2006/05/23	<0.02			ug/L		
		Dissolved Molybdenum (Mo)	2006/05/23	<0.02			ug/L		
		Dissolved Nickel (Ni)	2006/05/23	<0.5			ug/L		
		Dissolved Potassium (K)	2006/05/23	<50			ug/L		
		Dissolved Selenium (Se)	2006/05/23	<0.5			ug/L		
		Dissolved Silver (Ag)	2006/05/23	<0.01			ug/L		
		Dissolved Strontium (Sr)	2006/05/23	<0.01			ug/L		
		Dissolved Thallium (Tl)	2006/05/23	<0.05			ug/L		
		Dissolved Tin (Sn)	2006/05/23	<0.05			ug/L		
		Dissolved Titanium (Ti)	2006/05/23	<0.5			ug/L		
		Dissolved Uranium (U)	2006/05/23	<0.01			ug/L		
		Dissolved Vanadium (V)	2006/05/23	<0.05			ug/L		
		Dissolved Zinc (Zn)	2006/05/23	<0.5			ug/L		
		RPD [B36449-01]	Dissolved Aluminum (Al)	2006/05/23	4.3			%	25
			Dissolved Antimony (Sb)	2006/05/23	NC			%	25
			Dissolved Arsenic (As)	2006/05/23	NC			%	25
			Dissolved Barium (Ba)	2006/05/23	0.8			%	25
			Dissolved Beryllium (Be)	2006/05/23	NC			%	25
			Dissolved Bismuth (Bi)	2006/05/23	NC			%	25
			Dissolved Cadmium (Cd)	2006/05/23	NC			%	25
			Dissolved Chromium (Cr)	2006/05/23	NC			%	25
			Dissolved Cobalt (Co)	2006/05/23	NC			%	25
			Dissolved Copper (Cu)	2006/05/23	8.5			%	25
			Dissolved Lead (Pb)	2006/05/23	6.5			%	25
	Dissolved Lithium (Li)		2006/05/23	2.3			%	25	
	Dissolved Manganese (Mn)		2006/05/23	4.2			%	25	
	Dissolved Molybdenum (Mo)		2006/05/23	NC			%	25	
	Dissolved Nickel (Ni)		2006/05/23	NC			%	25	
	Dissolved Potassium (K)		2006/05/23	2.1			%	25	
	Dissolved Selenium (Se)		2006/05/23	NC			%	25	
	Dissolved Silver (Ag)		2006/05/23	NC			%	25	
	Dissolved Strontium (Sr)		2006/05/23	0.4			%	25	
	Dissolved Thallium (Tl)		2006/05/23	NC			%	25	
	Dissolved Tin (Sn)	2006/05/23	NC			%	25		
Dissolved Titanium (Ti)	2006/05/23	NC			%	25			
Dissolved Uranium (U)	2006/05/23	1.3			%	25			
Dissolved Vanadium (V)	2006/05/23	NC			%	25			
Dissolved Zinc (Zn)	2006/05/23	NC			%	25			
1141486 DJ	MATRIX SPIKE [B36449-01]	Total Arsenic (As)	2006/05/23		106	%	75 - 125		

WARDROP ENGINEERING INC. maxxamanalytics.com
 Attention: DOUG RAMSEY
 Client Project #: 065133 0200
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA620630

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1141486 DJ	MATRIX SPIKE [B36449-01]	Total Cadmium (Cd)	2006/05/23		102	%	75 - 125	
		Total Chromium (Cr)	2006/05/23		112	%	75 - 125	
		Total Cobalt (Co)	2006/05/23		106	%	75 - 125	
		Total Copper (Cu)	2006/05/23		106	%	75 - 125	
		Total Lead (Pb)	2006/05/23		108	%	75 - 125	
		Total Selenium (Se)	2006/05/23		105	%	75 - 125	
		Total Thallium (Tl)	2006/05/23		106	%	75 - 125	
		Total Zinc (Zn)	2006/05/23		106	%	75 - 125	
		SPIKE	Total Arsenic (As)	2006/05/23		108	%	75 - 125
			Total Cadmium (Cd)	2006/05/23		110	%	75 - 125
			Total Chromium (Cr)	2006/05/23		119	%	75 - 125
			Total Cobalt (Co)	2006/05/23		114	%	75 - 125
	Total Copper (Cu)		2006/05/23		116	%	75 - 125	
	Total Lead (Pb)		2006/05/23		115	%	75 - 125	
	Total Selenium (Se)		2006/05/23		107	%	75 - 125	
	Total Thallium (Tl)		2006/05/23		111	%	75 - 125	
	Total Zinc (Zn)		2006/05/23		116	%	75 - 125	
	BLANK		Total Aluminum (Al)	2006/05/23		<0.2		ug/L
		Total Antimony (Sb)	2006/05/23		<0.05		ug/L	
		Total Arsenic (As)	2006/05/23		<0.1		ug/L	
		Total Barium (Ba)	2006/05/23		0.03, RDL=0.02		ug/L	
		Total Beryllium (Be)	2006/05/23		<0.05		ug/L	
		Total Bismuth (Bi)	2006/05/23		<0.05		ug/L	
		Total Cadmium (Cd)	2006/05/23		<0.01		ug/L	
		Total Chromium (Cr)	2006/05/23		<0.2		ug/L	
		Total Cobalt (Co)	2006/05/23		<0.02		ug/L	
		Total Copper (Cu)	2006/05/23		<0.1		ug/L	
		Total Lead (Pb)	2006/05/23		<0.02		ug/L	
		Total Lithium (Li)	2006/05/23		<0.2		ug/L	
		Total Manganese (Mn)	2006/05/23		<0.02		ug/L	
		Total Molybdenum (Mo)	2006/05/23		<0.02		ug/L	
		Total Nickel (Ni)	2006/05/23		<0.5		ug/L	
		Total Potassium (K)	2006/05/23		<50		ug/L	
		Total Selenium (Se)	2006/05/23		<0.5		ug/L	
		Total Silver (Ag)	2006/05/23		<0.01		ug/L	
		Total Strontium (Sr)	2006/05/23		<0.01		ug/L	
		Total Thallium (Tl)	2006/05/23		<0.05		ug/L	
		Total Tin (Sn)	2006/05/23		<0.05		ug/L	
		Total Titanium (Ti)	2006/05/23		<0.5		ug/L	
		Total Uranium (U)	2006/05/23		<0.01		ug/L	
		Total Vanadium (V)	2006/05/23		<0.05		ug/L	
		Total Zinc (Zn)	2006/05/23		<0.5		ug/L	
RPD [B36449-01]		Total Aluminum (Al)	2006/05/23		2.0		%	25
		Total Antimony (Sb)	2006/05/23		NC		%	25
		Total Arsenic (As)	2006/05/23		NC		%	25
		Total Barium (Ba)	2006/05/23		1.5		%	25
		Total Beryllium (Be)	2006/05/23		NC		%	25
	Total Bismuth (Bi)	2006/05/23		NC		%	25	
	Total Cadmium (Cd)	2006/05/23		NC		%	25	
	Total Chromium (Cr)	2006/05/23		NC		%	25	
	Total Cobalt (Co)	2006/05/23		1.4		%	25	
	Total Copper (Cu)	2006/05/23		NC		%	25	
	Total Lead (Pb)	2006/05/23		17.6		%	25	
	Total Lithium (Li)	2006/05/23		0.1		%	25	
	Total Manganese (Mn)	2006/05/23		1.7		%	25	

WARDROP ENGINEERING INC
Attention: DOUG RAMSEY
Client Project #: 065133 0200
P.O. #:
Site Reference:

Quality Assurance Report (Continued)
Maxxam Job Number: VA620630

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1141486 DJ	RPD [B36449-01]	Total Molybdenum (Mo)	2006/05/23	NC		%	25
		Total Nickel (Ni)	2006/05/23	NC		%	25
		Total Potassium (K)	2006/05/23	2.3		%	25
		Total Selenium (Se)	2006/05/23	NC		%	25
		Total Silver (Ag)	2006/05/23	NC		%	25
		Total Strontium (Sr)	2006/05/23	0.8		%	25
		Total Thallium (Tl)	2006/05/23	NC		%	25
		Total Tin (Sn)	2006/05/23	NC		%	25
		Total Titanium (Ti)	2006/05/23	3.0		%	25
		Total Uranium (U)	2006/05/23	1.6		%	25
		Total Vanadium (V)	2006/05/23	1.7		%	25
		Total Zinc (Zn)	2006/05/23	NC		%	25
		1142747 KL1	BLANK	Total Boron (B)	2006/05/24	<0.008	
Total Calcium (Ca)	2006/05/24			<0.05		mg/L	
Total Iron (Fe)	2006/05/24			<0.005		mg/L	
Total Magnesium (Mg)	2006/05/24			<0.05		mg/L	
Total Phosphorus (P)	2006/05/24			<0.1		mg/L	
Total Silicon (Si)	2006/05/24			<0.05		mg/L	
RPD	Total Sodium (Na)		2006/05/24	<0.05		mg/L	
	Total Boron (B)		2006/05/24	NC		%	25
	Total Calcium (Ca)		2006/05/24	8.1		%	25
	Total Iron (Fe)		2006/05/24	21.1		%	25
	Total Magnesium (Mg)		2006/05/24	7.7		%	25
	Total Phosphorus (P)		2006/05/24	NC		%	25
	Total Silicon (Si)		2006/05/24	7.7		%	25
1142778 BH2	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/05/24		91	%	80 - 120
		Nitrate plus Nitrite (N)	2006/05/24		113	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2006/05/24	<0.02		mg/L	
		Nitrate plus Nitrite (N)	2006/05/24	NC		%	25
1142780 BH2	MATRIX SPIKE	Nitrite (N)	2006/05/24		89	%	80 - 120
		Nitrite (N)	2006/05/24		98	%	80 - 120
	BLANK	Nitrite (N)	2006/05/24	<0.005		mg/L	
		Nitrite (N)	2006/05/24	NC		%	25
1142818 KL1	BLANK	Dissolved Boron (B)	2006/05/24	<0.008		mg/L	
		Dissolved Calcium (Ca)	2006/05/24	<0.05		mg/L	
		Dissolved Iron (Fe)	2006/05/24	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2006/05/24	<0.05		mg/L	
		Dissolved Phosphorus (P)	2006/05/24	<0.1		mg/L	
		Dissolved Silicon (Si)	2006/05/24	<0.05		mg/L	
	RPD	Dissolved Sodium (Na)	2006/05/24	0.09, RDL=0.05		mg/L	
		Dissolved Calcium (Ca)	2006/05/24	0.5		%	25
		Dissolved Magnesium (Mg)	2006/05/24	0.4		%	25
		Dissolved Chloride (Cl)	2006/05/24		104	%	80 - 120
1142819 AH3	MATRIX SPIKE	Dissolved Chloride (Cl)	2006/05/24		104	%	80 - 120
		Dissolved Chloride (Cl)	2006/05/24	<0.5		mg/L	
	BLANK	Dissolved Chloride (Cl)	2006/05/24	<0.5		%	25
		Dissolved Chloride (Cl)	2006/05/24	3.5		%	25
1142820 AH3	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/05/24		102	%	75 - 125
		Dissolved Sulphate (SO4)	2006/05/24		104	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/05/24	<0.5		mg/L	
		Dissolved Sulphate (SO4)	2006/05/24	0.5		%	25
1143294 GS2	[B36445-01]	Total Mercury (Hg)	2006/05/25		101	%	70 - 130
		QC STANDARD	2006/05/25		100	%	80 - 120
		SPIKE	2006/05/25		106	%	80 - 120
		BLANK	2006/05/25	<0.05		ug/L	
		Total Mercury (Hg)	2006/05/25				

Quality Assurance Report (Continued)

Maxxam Job Number: VA620630

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1143294 GS2	RPD [B36445-01]	Total Mercury (Hg)	2006/05/25	NC		%	25
1143295 GS2	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/05/25		75	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/05/25		97	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/05/25		100	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/05/25	<0.05		ug/L	
	RPD [B36449-01]	Dissolved Mercury (Hg)	2006/05/25	NC		%	25
1143807 MX	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/05/25		120	%	80 - 120
	SPIKE	Total Inorganic Carbon (C)	2006/05/25		103	%	80 - 120
	BLANK	Total Inorganic Carbon (C)	2006/05/25	<0.5		mg/L	
	RPD	Total Inorganic Carbon (C)	2006/05/25	3.3		%	25
1143821 SC2	MATRIX SPIKE	Ammonia (N)	2006/05/25		95	%	80 - 120
	SPIKE	Ammonia (N)	2006/05/25		99	%	80 - 120
	BLANK	Ammonia (N)	2006/05/25	<0.005		mg/L	
	RPD	Ammonia (N)	2006/05/25	NC		%	25
1144272 KL1	BLANK	Total Boron (B)	2006/05/25	<0.008		mg/L	
		Total Calcium (Ca)	2006/05/25	<0.05		mg/L	
		Total Iron (Fe)	2006/05/25	<0.005		mg/L	
		Total Magnesium (Mg)	2006/05/25	<0.05		mg/L	
		Total Phosphorus (P)	2006/05/25	<0.1		mg/L	
		Total Silicon (Si)	2006/05/25	<0.05		mg/L	
		Total Sodium (Na)	2006/05/25	<0.05		mg/L	
	RPD	Total Boron (B)	2006/05/25	NC		%	25
		Total Calcium (Ca)	2006/05/25	2.1		%	25
		Total Iron (Fe)	2006/05/25	NC		%	25
		Total Magnesium (Mg)	2006/05/25	0.5		%	25
		Total Phosphorus (P)	2006/05/25	NC		%	25
		Total Silicon (Si)	2006/05/25	2.7		%	25
		Total Sodium (Na)	2006/05/25	2.3		%	25
1146263 CMP	MATRIX SPIKE	Total Nitrogen (N)	2006/05/29		117	%	80 - 120
	SPIKE	Total Nitrogen (N)	2006/05/29		98	%	80 - 120
	BLANK	Total Nitrogen (N)	2006/05/29	<0.02		mg/L	
	RPD	Total Nitrogen (N)	2006/05/29	10.9		%	25

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Your Project #: A620630
Your C.O.C. #: na

Attention: Rob Macarthur
Maxxam Analytics Inc
8577 Commerce Crt
Burnaby, BC
V5A 4N5

Report Date: 2006/05/26

CERTIFICATE OF ANALYSIS

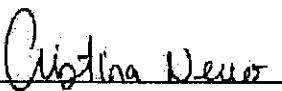
MAXXAM JOB #: A648582

Received: 2006/05/24, 10:48

Sample Matrix: Water
Samples Received: 5

<u>Analyses</u>	<u>Quantity</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Laboratory Method</u>	<u>Method Reference</u>
Total Dissolved Solids	5	N/A	2006/05/26	Ont SOP-0076	APHA 2540C

Validated by :


CHRISTINA NERVO
Scientific Services

Total cover pages: 1

Page 1 de 4

Maxxam Job #: A648582
Report Date: 2006/05/26

Maxxam Analytics Inc
Client Project #: A620630
Project name:
Sampler Initials:

RESULTS OF ANALYSES OF WATER

Maxxam ID		M18519	M18520	M18521		
Sampling Date		2006/05/16	2006/05/16	2006/05/16		
COC Number		na	na	na		
	Units	B36445-01RIOCW1	B36446-01RIOCW2	B36447-01RIOCW3	RDL	QC Batch

INORGANICS						
Total Dissolved Solids	mg/L	170	186	214	1	978121

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		M18522	M18523		
Sampling Date		2006/05/16	2006/05/16		
COC Number		na	na		
	Units	B36448-01RMINAGO	B36449-01RIX	RDL	QC Batch

INORGANICS					
Total Dissolved Solids	mg/L	120	166	1	978121

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A648582
Report Date: 2006/05/26

Maxxam Analytics Inc
Client Project #: A620630
Project name:
Sampler Initials:

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics Inc
Attention: Rob Macarthur
Client Project #: A620630
P.O. #:
Project name:

Quality Assurance Report
Maxxam Job Number: MA648582

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
978121 SUN	QC STANDARD	Total Dissolved Solids	2006/05/26		96	%	85 - 115
	Method Blank	Total Dissolved Solids	2006/05/26	<1		mg/L	
	RPD [M18519-01]	Total Dissolved Solids	2006/05/26	6.1		%	25

RPD = Relative Percent Difference
QC Standard = Quality Control Standard



ANALYSIS REPORT

Becquerel Laboratories Inc.
6790 Kitimat Rd., Unit 4
Mississauga, Ontario
Canada, L5N 5L9

Phone: (905) 826-3080
FAX: (905) 826-4151

Batch: T06-00613.0

Date: 05-Jun-2006

Maxxam Analytics Inc

8577 Commerce Court
Burnaby, B.C., V5A 4N5

Phone: (604) 444-4808

FAX: (604) 444-4511

Client Ref. A620630

5 water samples Sampled: 16-May-2006 Received: 24-May-2006 Page 1 of 1

<u>Results of Analysis</u>						
Sample	Test	Result	Units	Date	Method	
B36447-01R \ OCW3	Ra-226	< 0.01	Bq/l	02-Jun-2006	ALPHA	
B36446-01R \ OCW2	Ra-226	< 0.01	Bq/l	02-Jun-2006	ALPHA	
B36448-01R \ MINAGO	Ra-226	< 0.01	Bq/l	02-Jun-2006	ALPHA	
B36445-01R \ OCW1	Ra-226	< 0.01	Bq/l	05-Jun-2006	ALPHA	
B36449-01R \ X	Ra-226	< 0.01	Bq/l	05-Jun-2006	ALPHA	

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

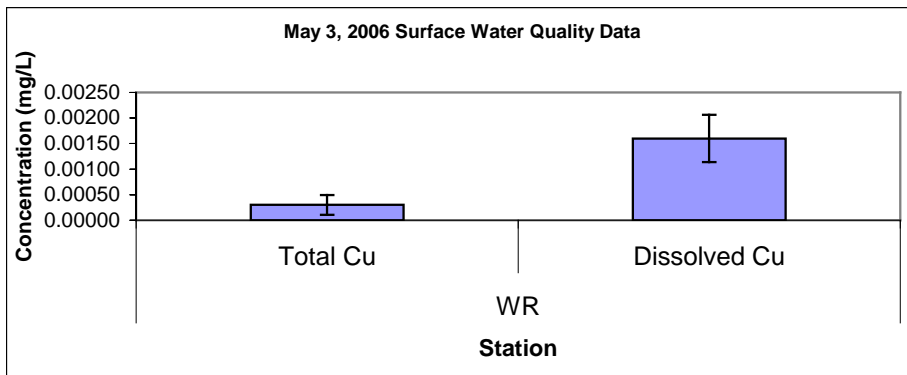
Units: Bq/l Becquerels per litre

These results relate only to the samples analysed and only to the items tested.
These results have not been corrected for blanks.

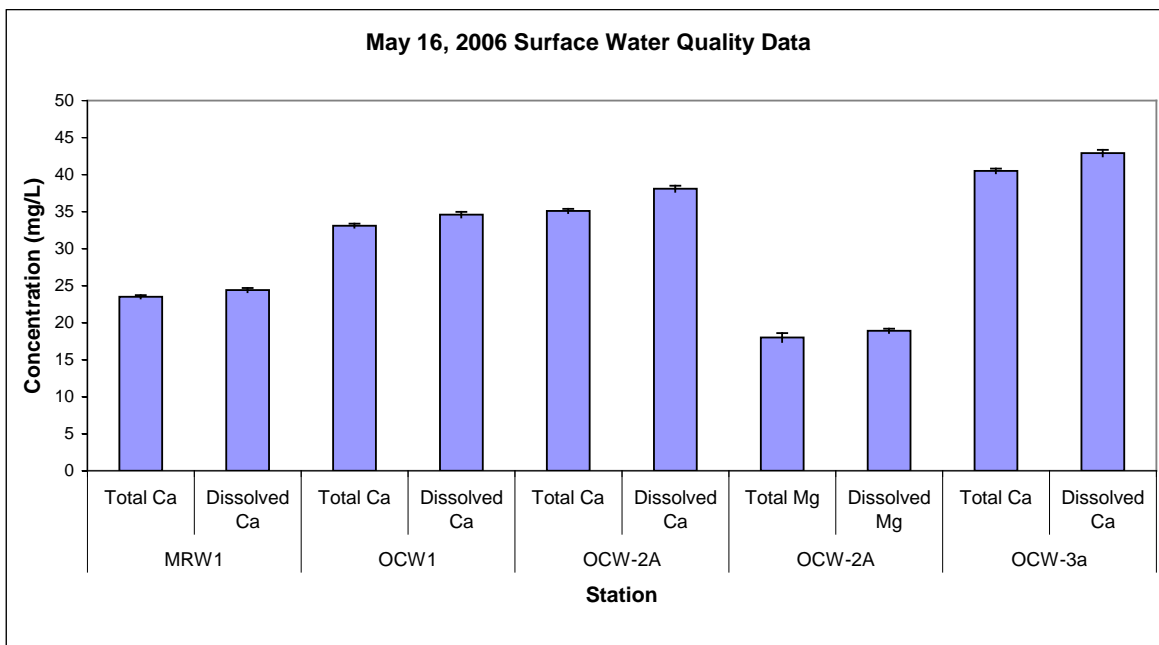
06-Jun-2006 approved by: Donald D. Burgess
Donald D. Burgess PhD
Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.

May 3, 2006 Minago Surface Water Quality Data
 for which the measured Dissolved concentration was higher than the Total concentration



May 16, 2006 Minago Surface Water Quality Data
 for which the measured Dissolved concentrations were higher than the Total concentrations



APPENDIX L7.5-D

Certified Laboratory Reports for Surface Water Quality

June 2006 Results

Your Project #: 06513302-00
 Your C.O.C. #: 30342

Attention: Dave Tyson
 WARDROP ENGINEERING INC.
 386 BROADWAY #400
 WINNIPEG, MB
 CANADA R3C 4M8

Report Date: 2006/07/05

This report dated: 2006/07/05 supersedes previous report dated: 2006/07/04

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A626528

Received: 2006/06/22, 10:55

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	5	2006/06/23	2006/06/23	ING413 Rev.1.7	Based on SM2320B
Chlorophyll A (water)(sin)	4	N/A	2006/06/23	ING206 Rev.3.0	Based on SM-10200 H
Chloride by Automated Colourimetry @	5	N/A	2006/06/27	BRN-SOP 00116	Based on EPA 325.2
Colour (True)	5	N/A	2006/06/26	ING250 Rev 1.0	Based on SM-2120B
Carbon (DOC)	5	N/A	2006/06/27	ING211 Rev. 2.4	Based on SM-5310C
Fluoride	5	N/A	2006/06/26	ING222 Rev.4.2	SM - 4500 F C
Hardness Total (calculated as CaCO3)	5	N/A	2006/06/23		
Hardness (calculated as CaCO3)	5	N/A	2006/06/23		
Mercury (Dissolved)	5	2006/07/04	2006/07/04	ING143 Rev.6.2	Based on EPA 245.1
Mercury (Total)	5	2006/07/04	2006/07/04	ING143 Rev.6.2	Based on EPA 245.1
Elements by ICP-AES (dissolved)	5	2006/06/23	2006/06/26	ING101 Rev.4.0	Based on EPA 6010B
Elements by ICPMS (dissolved) @	5	2006/06/26	2006/06/26	ING113 Rev. 1.1	Based on EPA 200.8
Elements by ICPMS (total) @	5	N/A	2006/06/26	ING113 Rev.1.1	Based on EPA 200.8
Elements by ICP-AES (total)	5	N/A	2006/06/27	ING101 Rev 4.0	Based on EPA 6010B
Nitrogen (Total)	5	2006/06/26	2006/06/26	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	5	N/A	2006/06/26	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate + Nitrite (N)	5	N/A	2006/06/27	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	5	N/A	2006/06/27	ING233 Rev.4.3	EPA 353.2
Nitrogen - Nitrate (as N)	5	N/A	2006/06/23		
Filter and HNO3 Preserve for Metals	5	2006/06/27	2006/06/27	QAP103 Rev 1.2	Based on EPA 200.2
Sulphate by Automated Colourimetry @	5	N/A	2006/06/27	BRN-SOP 00117	Based on EPA 375.4
Sublet (Inorganics) @	5	N/A	2006/06/28		
Carbon (DIC)	4	N/A	2006/06/26	ING247 Rev.1.0	Based on SM-5310C
Carbon (DIC)	1	N/A	2006/06/29	ING247 Rev.1.0	Based on SM-5310C
Carbon (Total Inorganic)	5	N/A	2006/06/26	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	5	N/A	2006/06/23		
Carbon (Total Organic)	5	N/A	2006/06/27	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) @	5	2006/06/27	2006/06/27	ING 237 Rev 5.0	Based on SM-4500P F
Total Phosphorus	5	N/A	2006/06/27	ING237 Rev.5.0	SM 4500
Total Suspended Solids	5	N/A	2006/06/26	ING444 Rev.2.3	Based on SM-2540 D
Turbidity	5	N/A	2006/06/27	ING 415 Rev.3.1	SM - 2130B

- (1) This test was performed by Ext. Sublet from Vancouver
- (2) SCC/CAEAL



Your Project #: 06513302-00
Your C.O.C. #: 30342

Attention: Dave Tyson
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 4M8

Report Date: 2006/07/05

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B73516	B73517	B73518		
Sampling Date		2006/06/20 10:00	2006/06/20 11:00	2006/06/20 13:30		
COC Number		30342	30342	30342		
	Units	MRW-1	OCW-1	OCW-2	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.09	0.12	0.12	0.01	1176357
Parameter						
Chlorophyll a	ug/L	1.3	<0.5	<0.5	0.5	1175197
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1179812
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1178478
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1176665
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	130	180	190	0.5	1174686
Nitrate (N)	mg/L	<0.02	<0.02	0.03	0.02	1174689
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	130	180	190	0.5	1174687
Dissolved Organic Carbon (C)	mg/L	16.0	15.9	15.4	0.5	1178129
Alkalinity (Total as CaCO3)	mg/L	133	175	187	0.5	1175229
Total Organic Carbon (C)	mg/L	16.0	17.0	15.6	0.5	1178145
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1175229
Bicarbonate (HCO3)	mg/L	162	214	228	0.5	1175229
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	0.5	1175229
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	0.5	1175229
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1178419
Chloride (Cl)	mg/L	0.8	<0.5	<0.5	0.5	1178435
MISCELLANEOUS						
True Colour	Col. Unit	50	60	60	5	1176384
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.61	0.49	0.42	0.02	1174699
Dissolved Phosphorus (P)	mg/L	0.008	0.002	<0.002	0.002	1178101
Ammonia (N)	mg/L	<0.005	<0.005	<0.005	0.005	1177174
Dissolved Inorganic Carbon (C)	mg/L	31.9	41.9	44.2	0.5	1176468
Total Inorganic Carbon (C)	mg/L	31.9	41.3	44.1	0.5	1176441
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	0.03	0.02	1176633
RDL = Reportable Detection Limit						

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B73516	B73517	B73518		
Sampling Date		2006/06/20 10:00	2006/06/20 11:00	2006/06/20 13:30		
COC Number		30342	30342	30342		
	Units	MRW-1	OCW-1	OCW-2	RDL	QC Batch
Total Nitrogen (N)	mg/L	0.61	0.49	0.45	0.02	1176388
Total Phosphorus (P)	mg/L	0.027	0.009	0.011	0.002	1178119
Physical Properties						
Total Suspended Solids	mg/L	3	2	<1	1	1175519
Turbidity	NTU	0.8	0.7	0.2	0.1	1176463
RDL = Reportable Detection Limit						

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B73519		B73520		
Sampling Date		2006/06/20 14:25		2006/06/22		
COC Number		30342		30342		
	Units	OCW-3	QC Batch	TRIP BLANK	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.14	1176357	<0.01	0.01	1176357
Parameter						
Chlorophyll a	ug/L	<0.5	1175197		0.5	1175197
Subcontract Parameter	N/A	ATTACHED	1179812	ATTACHED	N/A	1179812
Preparation						
Filter and HNO3 Preservation	N/A	Yes	1178478	Yes	N/A	1178478
ANIONS						
Nitrite (N)	mg/L	<0.005	1176665	<0.005	0.005	1176665
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	210	1174686	<0.5	0.5	1174686
Nitrate (N)	mg/L	0.02	1174689	0.02	0.02	1174689
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	210	1174687	<0.5	0.5	1174687
Dissolved Organic Carbon (C)	mg/L	13.6	1178129	<0.5	0.5	1178129
Alkalinity (Total as CaCO3)	mg/L	200	1175229	0.6	0.5	1175229
Total Organic Carbon (C)	mg/L	14.3	1178145	<0.5	0.5	1178145
Alkalinity (PP as CaCO3)	mg/L	<0.5	1175229	<0.5	0.5	1175229
Bicarbonate (HCO3)	mg/L	245	1175229	0.8	0.5	1175229
Carbonate (CO3)	mg/L	<0.5	1175229	<0.5	0.5	1175229
Hydroxide (OH)	mg/L	<0.5	1175229	<0.5	0.5	1175229
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	1178419	0.6	0.5	1178419
Chloride (Cl)	mg/L	<0.5	1178435	<0.5	0.5	1178435
MISCELLANEOUS						
True Colour	Col. Unit	60	1176384	<5	5	1176384
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.39	1174699	<0.02	0.02	1174699
Dissolved Phosphorus (P)	mg/L	0.003	1178101	<0.002	0.002	1178101
Ammonia (N)	mg/L	0.016	1177174	<0.005	0.005	1177174
Dissolved Inorganic Carbon (C)	mg/L	46.9	1176468	<0.5	0.5	1181251
Total Inorganic Carbon (C)	mg/L	47.1	1176441	<0.5	0.5	1176441
Nitrate plus Nitrite (N)	mg/L	0.02	1176633	0.02	0.02	1176633
RDL = Reportable Detection Limit						



Maxxam Job #: A626528
 Report Date: 2006/07/05

L7.5-42

WARDROP ENGINEERING INC.
 Client Project #: 06513302-00
 Site Reference:
 Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		B73519		B73520		
Sampling Date		2006/06/20 14:25		2006/06/22		
COC Number		30342		30342		
	Units	OCW-3	QC Batch	TRIP BLANK	RDL	QC Batch

Total Nitrogen (N)	mg/L	0.41	1176388	<0.02	0.02	1176388
Total Phosphorus (P)	mg/L	0.010	1178119	<0.002	0.002	1178119
Physical Properties						
Total Suspended Solids	mg/L	<1	1175519	<1	1	1175519
Turbidity	NTU	0.2	1176463	<0.1	0.1	1176463

RDL = Reportable Detection Limit

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73516	B73517	B73518		
Sampling Date		2006/06/20	2006/06/20	2006/06/20		
		10:00	11:00	13:30		
COC Number		30342	30342	30342		
	Units	MRW-1	OCW-1	OCW-2	RDL	QC Batch

Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.012	0.009	<0.008	0.008	1175578
Dissolved Calcium (Ca)	mg/L	29.6	41.5	42.6	0.05	1175578
Dissolved Iron (Fe)	mg/L	0.051	0.038	0.032	0.005	1175578
Dissolved Magnesium (Mg)	mg/L	13.2	19.0	19.6	0.05	1175578
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1175578
Dissolved Silicon (Si)	mg/L	2.00	2.78	2.75	0.05	1175578
Dissolved Sodium (Na)	mg/L	4.11	2.13	1.98	0.05	1175578
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1175578
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	5.8	4.1	2.1	0.2	1176635
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1176635
Dissolved Arsenic (As)	ug/L	0.8	0.4	0.3	0.1	1176635
Dissolved Barium (Ba)	ug/L	10.1	24.6	26.4	0.02	1176635
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1176635
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	<0.05	0.05	1176635
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1176635
Dissolved Chromium (Cr)	ug/L	0.3	<0.2	<0.2	0.2	1176635
Dissolved Cobalt (Co)	ug/L	0.06	<0.02	<0.02	0.02	1176635
Dissolved Copper (Cu)	ug/L	0.4	0.2	0.1	0.1	1176635
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	<0.02	0.02	1176635
Dissolved Lithium (Li)	ug/L	3.3	2.9	2.9	0.2	1176635
Dissolved Manganese (Mn)	ug/L	0.86	1.86	0.64	0.02	1176635
Dissolved Molybdenum (Mo)	ug/L	0.10	0.10	0.09	0.02	1176635
Dissolved Nickel (Ni)	ug/L	0.6	<0.5	<0.5	0.5	1176635
Dissolved Potassium (K)	ug/L	540	195	181	50	1176635
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1176635
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1176635
Dissolved Strontium (Sr)	ug/L	45.6	47.0	46.3	0.01	1176635
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1176635
Dissolved Tin (Sn)	ug/L	0.11	<0.05	<0.05	0.05	1176635
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.5	1176635
Dissolved Uranium (U)	ug/L	0.12	0.14	0.15	0.01	1176635

RDL = Reportable Detection Limit

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73516	B73517	B73518		
Sampling Date		2006/06/20 10:00	2006/06/20 11:00	2006/06/20 13:30		
COC Number		30342	30342	30342		
	Units	MRW-1	OCW-1	OCW-2	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.24	0.06	<0.05	0.05	1176635
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	<0.5	0.5	1176635
Mercury by CVAA						
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1184301
Total Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1184296
Total Metals by ICP						
Total Boron (B)	mg/L	0.013	0.018	0.010	0.008	1177172
Total Calcium (Ca)	mg/L	30.2	44.4	46.5	0.05	1177172
Total Iron (Fe)	mg/L	0.146	0.104	0.050	0.005	1177172
Total Magnesium (Mg)	mg/L	13.2	20.1	21.0	0.05	1177172
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1177172
Total Silicon (Si)	mg/L	2.10	3.13	2.98	0.05	1177172
Total Sodium (Na)	mg/L	4.03	2.19	2.07	0.05	1177172
Total Sulphur (S)	mg/L	0.5	0.4	0.4	0.1	1177172
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	61.0	53.3	5.6	0.2	1176832
Total Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1176832
Total Arsenic (As)	ug/L	0.8	0.4	0.4	0.1	1176832
Total Barium (Ba)	ug/L	11.4	25.4	27.9	0.02	1176832
Total Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1176832
Total Bismuth (Bi)	ug/L	<0.05	0.12	<0.05	0.05	1176832
Total Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1176832
Total Chromium (Cr)	ug/L	1.0	0.9	0.9	0.2	1176832
Total Cobalt (Co)	ug/L	0.11	0.07	0.05	0.02	1176832
Total Copper (Cu)	ug/L	0.7	0.3	0.3	0.1	1176832
Total Lead (Pb)	ug/L	0.04	0.03	<0.02	0.02	1176832
Total Lithium (Li)	ug/L	3.4	2.8	2.9	0.2	1176832
Total Manganese (Mn)	ug/L	27.1	15.0	6.78	0.02	1176832
Total Molybdenum (Mo)	ug/L	0.10	0.22	0.18	0.02	1176832
Total Nickel (Ni)	ug/L	0.9	<0.5	0.6	0.5	1176832
Total Potassium (K)	ug/L	590	201	188	50	1176832
Total Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1176832
Total Silver (Ag)	ug/L	<0.01	0.01	<0.01	0.01	1176832
RDL = Reportable Detection Limit						

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73516	B73517	B73518		
Sampling Date		2006/06/20 10:00	2006/06/20 11:00	2006/06/20 13:30		
COC Number		30342	30342	30342		
	Units	MRW-1	OCW-1	OCW-2	RDL	QC Batch
Total Strontium (Sr)	ug/L	52.6	49.6	51.1	0.01	1176832
Total Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1176832
Total Tin (Sn)	ug/L	0.05	<0.05	0.05	0.05	1176832
Total Titanium (Ti)	ug/L	2.0	2.5	<0.5	0.5	1176832
Total Uranium (U)	ug/L	0.12	0.15	0.15	0.01	1176832
Total Vanadium (V)	ug/L	0.44	0.18	0.06	0.05	1176832
Total Zinc (Zn)	ug/L	<0.5	<0.5	<0.5	0.5	1176832
RDL = Reportable Detection Limit						

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73519	B73520		
Sampling Date		2006/06/20 14:25	2006/06/22		
COC Number		30342	30342		
	Units	OCW-3	TRIP BLANK	RDL	QC Batch

Dissolved Metals by ICP					
Dissolved Boron (B)	mg/L	0.014	<0.008	0.008	1175578
Dissolved Calcium (Ca)	mg/L	46.9	<0.05	0.05	1175578
Dissolved Iron (Fe)	mg/L	0.032	<0.005	0.005	1175578
Dissolved Magnesium (Mg)	mg/L	21.5	<0.05	0.05	1175578
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	0.1	1175578
Dissolved Silicon (Si)	mg/L	2.97	<0.05	0.05	1175578
Dissolved Sodium (Na)	mg/L	2.07	<0.05	0.05	1175578
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	0.005	1175578
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	1.9	0.4	0.2	1176635
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Arsenic (As)	ug/L	0.3	<0.1	0.1	1176635
Dissolved Barium (Ba)	ug/L	30.4	<0.02	0.02	1176635
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	1176635
Dissolved Chromium (Cr)	ug/L	<0.2	0.2	0.2	1176635
Dissolved Cobalt (Co)	ug/L	<0.02	<0.02	0.02	1176635
Dissolved Copper (Cu)	ug/L	0.2	0.1	0.1	1176635
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	0.02	1176635
Dissolved Lithium (Li)	ug/L	3.0	0.3	0.2	1176635
Dissolved Manganese (Mn)	ug/L	1.14	0.02	0.02	1176635
Dissolved Molybdenum (Mo)	ug/L	0.12	<0.02	0.02	1176635
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	0.5	1176635
Dissolved Potassium (K)	ug/L	248	<50	50	1176635
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	0.5	1176635
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	0.01	1176635
Dissolved Strontium (Sr)	ug/L	50.2	<0.01	0.01	1176635
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	0.5	1176635
Dissolved Uranium (U)	ug/L	0.20	<0.01	0.01	1176635
RDL = Reportable Detection Limit					

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73519	B73520		
Sampling Date		2006/06/20 14:25	2006/06/22		
COC Number		30342	30342		
	Units	OCW-3	TRIP BLANK	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.05	<0.05	0.05	1176635
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	0.5	1176635
Mercury by CVAA					
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	0.05	1184301
Total Mercury (Hg)	ug/L	<0.05	<0.05	0.05	1184296
Total Metals by ICP					
Total Boron (B)	mg/L	0.016	<0.008	0.008	1177172
Total Calcium (Ca)	mg/L	49.0	<0.05	0.05	1177172
Total Iron (Fe)	mg/L	0.052	<0.005	0.005	1177172
Total Magnesium (Mg)	mg/L	22.2	<0.05	0.05	1177172
Total Phosphorus (P)	mg/L	<0.1	<0.1	0.1	1177172
Total Silicon (Si)	mg/L	3.17	<0.05	0.05	1177172
Total Sodium (Na)	mg/L	2.11	<0.05	0.05	1177172
Total Sulphur (S)	mg/L	0.5	<0.1	0.1	1177172
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	6.7	1.8	0.2	1176832
Total Antimony (Sb)	ug/L	<0.05	<0.05	0.05	1176832
Total Arsenic (As)	ug/L	0.3	<0.1	0.1	1176832
Total Barium (Ba)	ug/L	30.8	0.05	0.02	1176832
Total Beryllium (Be)	ug/L	<0.05	<0.05	0.05	1176832
Total Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	1176832
Total Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	1176832
Total Chromium (Cr)	ug/L	0.9	1.0	0.2	1176832
Total Cobalt (Co)	ug/L	0.05	0.03	0.02	1176832
Total Copper (Cu)	ug/L	0.2	0.2	0.1	1176832
Total Lead (Pb)	ug/L	<0.02	<0.02	0.02	1176832
Total Lithium (Li)	ug/L	2.9	<0.2	0.2	1176832
Total Manganese (Mn)	ug/L	5.16	0.23	0.02	1176832
Total Molybdenum (Mo)	ug/L	0.17	0.06	0.02	1176832
Total Nickel (Ni)	ug/L	0.5	<0.5	0.5	1176832
Total Potassium (K)	ug/L	241	<50	50	1176832
Total Selenium (Se)	ug/L	<0.5	<0.5	0.5	1176832
Total Silver (Ag)	ug/L	<0.01	<0.01	0.01	1176832
RDL = Reportable Detection Limit					

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		B73519	B73520		
Sampling Date		2006/06/20 14:25	2006/06/22		
COC Number		30342	30342		
	Units	OCW-3	TRIP BLANK	RDL	QC Batch

Total Strontium (Sr)	ug/L	51.7	0.03	0.01	1176832
Total Thallium (Tl)	ug/L	<0.05	<0.05	0.05	1176832
Total Tin (Sn)	ug/L	0.15	0.07	0.05	1176832
Total Titanium (Ti)	ug/L	<0.5	<0.5	0.5	1176832
Total Uranium (U)	ug/L	0.20	<0.01	0.01	1176832
Total Vanadium (V)	ug/L	0.08	<0.05	0.05	1176832
Total Zinc (Zn)	ug/L	<0.5	<0.5	0.5	1176832

RDL = Reportable Detection Limit

General Comments

Results relate only to the items tested.

WARDROP ENGINEERING INC.
 Attention: Dave Tyson
 Client Project #: 06513302-00
 P.O. #:
 Site Reference:

Quality Assurance Report
 Maxxam Job Number: VA626528

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1175197 NN	BLANK	Chlorophyll a	2006/06/23	<0.5		ug/L	
1175229 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/06/23		97	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/06/23		99	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/06/23	0.7, RDL=0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/06/23	<0.5		mg/L	
		Bicarbonate (HCO3)	2006/06/23	0.8, RDL=0.5		mg/L	
		Carbonate (CO3)	2006/06/23	<0.5		mg/L	
	RPD	Hydroxide (OH)	2006/06/23	<0.5		mg/L	
		Alkalinity (Total as CaCO3)	2006/06/23	0.9		%	25
		Alkalinity (PP as CaCO3)	2006/06/23	NC		%	25
		Bicarbonate (HCO3)	2006/06/23	0.9		%	25
		Carbonate (CO3)	2006/06/23	NC		%	25
		Hydroxide (OH)	2006/06/23	NC		%	25
1175519 WAY	SPIKE	Total Suspended Solids	2006/06/26		99	%	N/A
	BLANK	Total Suspended Solids	2006/06/26	<1		mg/L	
1175578 KL1	BLANK	Dissolved Boron (B)	2006/06/26	<0.008		mg/L	
		Dissolved Calcium (Ca)	2006/06/26	<0.05		mg/L	
		Dissolved Iron (Fe)	2006/06/26	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2006/06/26	<0.05		mg/L	
		Dissolved Phosphorus (P)	2006/06/26	<0.1		mg/L	
		Dissolved Silicon (Si)	2006/06/26	<0.05		mg/L	
		Dissolved Sodium (Na)	2006/06/26	<0.05		mg/L	
		Dissolved Zirconium (Zr)	2006/06/26	<0.005		mg/L	
	RPD	Dissolved Calcium (Ca)	2006/06/26	1.1		%	25
		Dissolved Magnesium (Mg)	2006/06/26	1		%	25
1176357 TG1	MATRIX SPIKE	Fluoride (F)	2006/06/26		119	%	80 - 120
	SPIKE	Fluoride (F)	2006/06/26		91	%	80 - 120
	BLANK	Fluoride (F)	2006/06/26	<0.01		mg/L	
	RPD	Fluoride (F)	2006/06/26	4.7		%	25
1176388 BH2	MATRIX SPIKE	Total Nitrogen (N)	2006/06/26		101	%	80 - 120
	[B73520-01]	Total Nitrogen (N)	2006/06/26		93	%	80 - 120
	SPIKE	Total Nitrogen (N)	2006/06/26	<0.02		mg/L	
	BLANK	Total Nitrogen (N)	2006/06/26	NC		%	25
	RPD [B73520-01]	Total Nitrogen (N)	2006/06/26			%	25
1176441 MX	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/06/26		119	%	80 - 120
	SPIKE	Total Inorganic Carbon (C)	2006/06/26		107	%	80 - 120
	BLANK	Total Inorganic Carbon (C)	2006/06/26	<0.5		mg/L	
	RPD	Total Inorganic Carbon (C)	2006/06/26	1.8		%	25
1176463 CK	SPIKE	Turbidity	2006/06/27		99	%	80 - 120
	BLANK	Turbidity	2006/06/27	<0.1		NTU	
	RPD	Turbidity	2006/06/27	1.6		%	25
1176468 MX	MATRIX SPIKE	Dissolved Inorganic Carbon (C)	2006/06/26		104	%	80 - 120
	SPIKE	Dissolved Inorganic Carbon (C)	2006/06/26		109	%	80 - 120
	BLANK	Dissolved Inorganic Carbon (C)	2006/06/26	<0.5		mg/L	
	RPD	Dissolved Inorganic Carbon (C)	2006/06/26	0.3		%	25
1176633 BH2	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/06/27		101	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2006/06/27		102	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2006/06/27	<0.02		mg/L	
	RPD	Nitrate plus Nitrite (N)	2006/06/27	0.3		%	25
1176635 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2006/06/26		98	%	75 - 125
		Dissolved Cadmium (Cd)	2006/06/26		105	%	75 - 125
		Dissolved Chromium (Cr)	2006/06/26		104	%	75 - 125
		Dissolved Cobalt (Co)	2006/06/26		106	%	75 - 125
		Dissolved Copper (Cu)	2006/06/26		115	%	75 - 125
		Dissolved Lead (Pb)	2006/06/26		110	%	75 - 125
		Dissolved Selenium (Se)	2006/06/26		108	%	75 - 125

WARDROP ENGINEERING INC.
 Attention: Dave Tyson
 Client Project #: 06513302-00
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA626528

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1176635 AA1	MATRIX SPIKE	Dissolved Thallium (Tl)	2006/06/26		104	%	75 - 125	
		Dissolved Zinc (Zn)	2006/06/26		107	%	75 - 125	
		Dissolved Arsenic (As)	2006/06/26		108	%	75 - 125	
		Dissolved Cadmium (Cd)	2006/06/26		103	%	75 - 125	
		Dissolved Chromium (Cr)	2006/06/26		115	%	75 - 125	
		Dissolved Cobalt (Co)	2006/06/26		119	%	75 - 125	
		Dissolved Copper (Cu)	2006/06/26		112	%	75 - 125	
		Dissolved Lead (Pb)	2006/06/26		111	%	75 - 125	
		Dissolved Selenium (Se)	2006/06/26		99	%	75 - 125	
		Dissolved Thallium (Tl)	2006/06/26		106	%	75 - 125	
	BLANK	Dissolved Zinc (Zn)	2006/06/26			100	%	75 - 125
		Dissolved Aluminum (Al)	2006/06/26		<0.2		ug/L	
		Dissolved Antimony (Sb)	2006/06/26		<0.05		ug/L	
		Dissolved Arsenic (As)	2006/06/26		<0.1		ug/L	
		Dissolved Barium (Ba)	2006/06/26		<0.02		ug/L	
		Dissolved Beryllium (Be)	2006/06/26		<0.05		ug/L	
		Dissolved Bismuth (Bi)	2006/06/26		0.06, RDL=0.05		ug/L	
		Dissolved Cadmium (Cd)	2006/06/26		<0.01		ug/L	
		Dissolved Chromium (Cr)	2006/06/26		0.2, RDL=0.2		ug/L	
		Dissolved Cobalt (Co)	2006/06/26		<0.02		ug/L	
		Dissolved Copper (Cu)	2006/06/26		<0.1		ug/L	
		Dissolved Lead (Pb)	2006/06/26		<0.02		ug/L	
		Dissolved Lithium (Li)	2006/06/26		0.3, RDL=0.2		ug/L	
		Dissolved Manganese (Mn)	2006/06/26		<0.02		ug/L	
		Dissolved Molybdenum (Mo)	2006/06/26		<0.02		ug/L	
		Dissolved Nickel (Ni)	2006/06/26		<0.5		ug/L	
		Dissolved Potassium (K)	2006/06/26		<50		ug/L	
		Dissolved Selenium (Se)	2006/06/26		<0.5		ug/L	
		Dissolved Silver (Ag)	2006/06/26		<0.01		ug/L	
		Dissolved Strontium (Sr)	2006/06/26		<0.01		ug/L	
		Dissolved Thallium (Tl)	2006/06/26		<0.05		ug/L	
		Dissolved Tin (Sn)	2006/06/26		<0.05		ug/L	
		Dissolved Titanium (Ti)	2006/06/26		<0.5		ug/L	
		Dissolved Uranium (U)	2006/06/26		<0.01		ug/L	
		Dissolved Vanadium (V)	2006/06/26		<0.05		ug/L	
	Dissolved Zinc (Zn)	2006/06/26		<0.5		ug/L		
	RPD	Dissolved Aluminum (Al)	2006/06/26		1.2		%	25
		Dissolved Antimony (Sb)	2006/06/26		1.4		%	25
		Dissolved Arsenic (As)	2006/06/26		18.8		%	25
		Dissolved Barium (Ba)	2006/06/26		0.4		%	25
		Dissolved Beryllium (Be)	2006/06/26		NC		%	25
		Dissolved Bismuth (Bi)	2006/06/26		NC		%	25
		Dissolved Cadmium (Cd)	2006/06/26		3.1		%	25
		Dissolved Chromium (Cr)	2006/06/26		2.0		%	25
		Dissolved Cobalt (Co)	2006/06/26		1.8		%	25
Dissolved Copper (Cu)		2006/06/26		1.3		%	25	
Dissolved Lead (Pb)		2006/06/26		2.2		%	25	
Dissolved Lithium (Li)		2006/06/26		1.7		%	25	
Dissolved Manganese (Mn)		2006/06/26		2.8		%	25	
Dissolved Molybdenum (Mo)		2006/06/26		0.07		%	25	
Dissolved Nickel (Ni)		2006/06/26		0.9		%	25	
Dissolved Potassium (K)	2006/06/26		0.4		%	25		
Dissolved Selenium (Se)	2006/06/26		1.9		%	25		
Dissolved Silver (Ag)	2006/06/26		NC		%	25		
Dissolved Strontium (Sr)	2006/06/26		2.6		%	25		
Dissolved Thallium (Tl)	2006/06/26		NC		%	25		

WARDROP ENGINEERING INC.
 Attention: Dave Tyson
 Client Project #: 06513302-00
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA626528

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1176635 AA1	RPD	Dissolved Tin (Sn)	2006/06/26	NC		%	25		
		Dissolved Titanium (Ti)	2006/06/26	NC		%	25		
		Dissolved Uranium (U)	2006/06/26	2.8		%	25		
		Dissolved Vanadium (V)	2006/06/26	NC		%	25		
		Dissolved Zinc (Zn)	2006/06/26	0.2		%	25		
1176665 BH2	MATRIX SPIKE	Nitrite (N)	2006/06/27		100	%	80 - 120		
	SPIKE	Nitrite (N)	2006/06/27		99	%	80 - 120		
	BLANK	Nitrite (N)	2006/06/27	<0.005		mg/L			
1176832 AA1	RPD [B73516-01]	Nitrite (N)	2006/06/27	NC		%	25		
		Total Arsenic (As)	2006/06/26		98	%	75 - 125		
		Total Cadmium (Cd)	2006/06/26		93	%	75 - 125		
		Total Chromium (Cr)	2006/06/26		99	%	75 - 125		
		Total Cobalt (Co)	2006/06/26		99	%	75 - 125		
		Total Copper (Cu)	2006/06/26		97	%	75 - 125		
		Total Lead (Pb)	2006/06/26		98	%	75 - 125		
		Total Selenium (Se)	2006/06/26		96	%	75 - 125		
		Total Thallium (Tl)	2006/06/26		96	%	75 - 125		
		Total Zinc (Zn)	2006/06/26		88	%	75 - 125		
		SPIKE	Total Arsenic (As)	2006/06/26		105	%	75 - 125	
			Total Cadmium (Cd)	2006/06/26		100	%	75 - 125	
			Total Chromium (Cr)	2006/06/26		115	%	75 - 125	
			Total Cobalt (Co)	2006/06/26		110	%	75 - 125	
			Total Copper (Cu)	2006/06/26		109	%	75 - 125	
	Total Lead (Pb)		2006/06/26		109	%	75 - 125		
	Total Selenium (Se)		2006/06/26		98	%	75 - 125		
	Total Thallium (Tl)		2006/06/26		107	%	75 - 125		
	Total Zinc (Zn)		2006/06/26		94	%	75 - 125		
	BLANK		Total Aluminum (Al)	2006/06/26	<0.2			ug/L	
			Total Antimony (Sb)	2006/06/26	<0.05			ug/L	
			Total Arsenic (As)	2006/06/26	<0.1			ug/L	
			Total Barium (Ba)	2006/06/26	<0.02			ug/L	
			Total Beryllium (Be)	2006/06/26	<0.05			ug/L	
			Total Bismuth (Bi)	2006/06/26	<0.05			ug/L	
		Total Cadmium (Cd)	2006/06/26	<0.01			ug/L		
		Total Chromium (Cr)	2006/06/26	<0.2			ug/L		
		Total Cobalt (Co)	2006/06/26	<0.02			ug/L		
		Total Copper (Cu)	2006/06/26	<0.1			ug/L		
		Total Lead (Pb)	2006/06/26	<0.02			ug/L		
		Total Lithium (Li)	2006/06/26	<0.2			ug/L		
		Total Manganese (Mn)	2006/06/26	<0.02			ug/L		
		Total Molybdenum (Mo)	2006/06/26	<0.02			ug/L		
Total Nickel (Ni)		2006/06/26	<0.5			ug/L			
Total Potassium (K)		2006/06/26	<50			ug/L			
Total Selenium (Se)		2006/06/26	<0.5			ug/L			
Total Silver (Ag)		2006/06/26	<0.01			ug/L			
Total Strontium (Sr)	2006/06/26	<0.01			ug/L				
Total Thallium (Tl)	2006/06/26	<0.05			ug/L				
Total Tin (Sn)	2006/06/26	<0.05			ug/L				
Total Titanium (Ti)	2006/06/26	<0.5			ug/L				
Total Uranium (U)	2006/06/26	<0.01			ug/L				
Total Vanadium (V)	2006/06/26	<0.05			ug/L				
Total Zinc (Zn)	2006/06/26	<0.5			ug/L				
RPD [B73516-01]	Total Aluminum (Al)	2006/06/26	3.7			%	25		
	Total Antimony (Sb)	2006/06/26	NC			%	25		
	Total Arsenic (As)	2006/06/26	2.4			%	25		

WARDROP ENGINEERING INC.
 Attention: Dave Tyson
 Client Project #: 06513302-00
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA626528

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1176832 AA1	RPD [B73516-01]	Total Barium (Ba)	2006/06/26	0.3		%	25
		Total Beryllium (Be)	2006/06/26	NC		%	25
		Total Bismuth (Bi)	2006/06/26	NC		%	25
		Total Cadmium (Cd)	2006/06/26	NC		%	25
		Total Chromium (Cr)	2006/06/26	NC		%	25
		Total Cobalt (Co)	2006/06/26	NC		%	25
		Total Copper (Cu)	2006/06/26	2.8		%	25
		Total Lead (Pb)	2006/06/26	NC		%	25
		Total Lithium (Li)	2006/06/26	3.9		%	25
		Total Manganese (Mn)	2006/06/26	1.3		%	25
		Total Molybdenum (Mo)	2006/06/26	3.9		%	25
		Total Nickel (Ni)	2006/06/26	NC		%	25
		Total Potassium (K)	2006/06/26	1.3		%	25
		Total Selenium (Se)	2006/06/26	NC		%	25
		Total Silver (Ag)	2006/06/26	NC		%	25
		Total Strontium (Sr)	2006/06/26	0.3		%	25
		Total Thallium (Tl)	2006/06/26	NC		%	25
		Total Tin (Sn)	2006/06/26	NC		%	25
		Total Titanium (Ti)	2006/06/26	NC		%	25
		Total Uranium (U)	2006/06/26	2.5		%	25
Total Vanadium (V)	2006/06/26	9.3		%	25		
Total Zinc (Zn)	2006/06/26	NC		%	25		
1177172 KL1	BLANK	Total Boron (B)	2006/06/27	<0.008		mg/L	
		Total Calcium (Ca)	2006/06/27	<0.05		mg/L	
		Total Iron (Fe)	2006/06/27	<0.005		mg/L	
		Total Magnesium (Mg)	2006/06/27	<0.05		mg/L	
		Total Phosphorus (P)	2006/06/27	<0.1		mg/L	
		Total Silicon (Si)	2006/06/27	<0.05		mg/L	
		Total Sodium (Na)	2006/06/27	<0.05		mg/L	
	RPD [B73516-01]	Total Sulphur (S)	2006/06/27	<0.1		mg/L	
		Total Boron (B)	2006/06/27	NC		%	25
		Total Calcium (Ca)	2006/06/27	6.5		%	25
		Total Iron (Fe)	2006/06/27	5.8		%	25
		Total Magnesium (Mg)	2006/06/27	7.0		%	25
		Total Phosphorus (P)	2006/06/27	NC		%	25
		Total Silicon (Si)	2006/06/27	6.4		%	25
1177174 CMP	MATRIX SPIKE	Ammonia (N)	2006/06/26		90	%	80 - 120
		Ammonia (N)	2006/06/26		102	%	80 - 120
	BLANK	Ammonia (N)	2006/06/26	<0.005		mg/L	
		Ammonia (N)	2006/06/26	NC		%	25
1178101 CMP	MATRIX SPIKE	Dissolved Phosphorus (P)	2006/06/27		84	%	80 - 120
		Dissolved Phosphorus (P)	2006/06/27		99	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2006/06/27	<0.002		mg/L	
		Dissolved Phosphorus (P)	2006/06/27	NC		%	20
1178119 CMP	MATRIX SPIKE	Total Phosphorus (P)	2006/06/27		101	%	80 - 120
		Total Phosphorus (P)	2006/06/27		102	%	80 - 120
	BLANK	Total Phosphorus (P)	2006/06/27	<0.002		mg/L	
		Total Phosphorus (P)	2006/06/27			%	
1178129 MX	MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/06/27		115	%	80 - 120
		Dissolved Organic Carbon (C)	2006/06/27		104	%	80 - 120
	BLANK	Dissolved Organic Carbon (C)	2006/06/27	<0.5		mg/L	
		Dissolved Organic Carbon (C)	2006/06/27	NC		%	20
1178145 MX	MATRIX SPIKE	Total Organic Carbon (C)	2006/06/27		113	%	80 - 120
	SPIKE	Total Organic Carbon (C)	2006/06/27		114	%	80 - 120
	BLANK	Total Organic Carbon (C)	2006/06/27	<0.5		mg/L	

WARDROP ENGINEERING INC.
 Attention: Dave Tyson
 Client Project #: 06513302-00
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA626528

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1178145 MX	RPD	Total Organic Carbon (C)	2006/06/27	NC		%	20
1178419 SC2	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/06/27		89	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2006/06/27		106	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/06/27	0.6, RDL=0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/06/27	0.4		%	20
1178435 SC2	MATRIX SPIKE	Chloride (Cl)	2006/06/27		93	%	80 - 120
	SPIKE	Chloride (Cl)	2006/06/27		114	%	80 - 120
	BLANK	Chloride (Cl)	2006/06/27	<0.5		mg/L	
	RPD	Chloride (Cl)	2006/06/27	0.6		%	20
1181251 MX	MATRIX SPIKE						
	[B73520-01]	Dissolved Inorganic Carbon (C)	2006/06/29		116	%	80 - 120
	SPIKE	Dissolved Inorganic Carbon (C)	2006/06/29		116	%	80 - 120
	BLANK	Dissolved Inorganic Carbon (C)	2006/06/29	<0.5		mg/L	
	RPD [B73520-01]	Dissolved Inorganic Carbon (C)	2006/06/29	NC		%	25
1184296 GS2	MATRIX SPIKE	Total Mercury (Hg)	2006/07/04		121	%	70 - 130
	QC STANDARD	Total Mercury (Hg)	2006/07/04		100	%	80 - 120
	SPIKE	Total Mercury (Hg)	2006/07/04		103	%	80 - 120
	BLANK	Total Mercury (Hg)	2006/07/04	<0.05		ug/L	
	RPD	Total Mercury (Hg)	2006/07/04	NC		%	25
1184301 GS2	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/07/04		98	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/07/04		94	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/07/04		108	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/07/04	<0.05		ug/L	
	RPD	Dissolved Mercury (Hg)	2006/07/04	NC		%	25

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Validation Signature Page

Maxxam Job #: A626528

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



DAVE HUANG,



ROB MACARTHUR, Customer Service Rep

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Your Project #: A626528
Your C.O.C. #: n/a

Attention: Rob Macarthur
Maxxam Analytics Inc
8577 Commerce Crt
Burnaby, BC
V5A 4N5

Report Date: 2006/06/28

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A662490

Received: 2006/06/23, 10:55

Sample Matrix: Water
Samples Received: 5

<u>Analyses</u>	<u>Quantity</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Laboratory Method</u>	<u>Method Reference</u>
Total Dissolved Solids	5	N/A	2006/06/27	Ont SOP-0076	APHA 2540C

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARIJANE CRUZ, PROJECT MANAGER ASSISTANT
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5700 Ext:5756

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Total cover pages: 1

Page 1 of 4

Maxxam Job #: A662490
Report Date: 2006/06/28

Maxxam Analytics Inc
Client Project #: A626528
Project name:
Sampler Initials:

RESULTS OF ANALYSES OF WATER

Maxxam ID		M74337	M74338	M74339	M74340	M74341		
Sampling Date		2006/06/20	2006/06/22	2006/06/22	2006/06/22	2006/06/22		
COC Number		n/a	n/a	n/a	n/a	n/a		
	Units	B73516-01R/ MRW-1	B73517-01R/ OCW-1	B73518-01R/ OCW-2	B73519-01R/ OCW-3	B73520-01R/ TRIP BLANK	RDL	QC Batch

INORGANICS								
Total Dissolved Solids	mg/L	143	188	209	202	<1	1	998830

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A662490
Report Date: 2006/06/28

Maxxam Analytics Inc
Client Project #: A626528
Project name:
Sampler Initials:

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics Inc
 Attention: Rob Macarthur
 Client Project #: A626528
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: MA662490

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
998830 SUN	QC STANDARD	Total Dissolved Solids	2006/06/27		97	%	85 - 115
	Method Blank	Total Dissolved Solids	2006/06/27	2, RDL=1		mg/L	
	RPD	Total Dissolved Solids	2006/06/27	NC		%	25

NC = Non-calculable
 RPD = Relative Percent Difference
 QC Standard = Quality Control Standard



ANALYSIS REPORT

Becquerel Laboratories Inc.
 6790 Kitimat Rd., Unit 4
 Mississauga, Ontario
 Canada, L5N 5L9

Phone: (905) 826-3080
 FAX: (905) 826-4151

Batch: T06-00768.0

Date: 05-Jul-2006

Maxxam Analytics Inc

8577 Commerce Court
 Burnaby, B.C., V5A 4N5

Phone: (604) 444-4808
 FAX: (604) 444-4511

attn: Rob MacArthur

Client Ref. A626528

4 water samples

Received: 23-Jun-2006

Page 1 of 1

Results of Analysis						
Sample	Test	Result	Units	Date	Method	
B73516-01R \ MRW-1	Ra-226	< 0.01	Bq/l	03-Jul-2006	ALPHA	
B73517-01R \ OCW-1	Ra-226	< 0.01	Bq/l	03-Jul-2006	ALPHA	
B73518-01R \ OCW-2	Ra-226	< 0.01	Bq/l	03-Jul-2006	ALPHA	
B73519-01R \ OCW-3	Ra-226	< 0.01	Bq/l	03-Jul-2006	ALPHA	

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

Units: Bq/l Becquerels per litre

These results relate only to the samples analysed and only to the items tested.
 These results have not been corrected for blanks.

05-Jul-2006 approved by: 

Donald D. Burgess PhD
 Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.

APPENDIX L7.5-E

Certified Laboratory Reports for Surface Water Quality

July 2006 Results

Your Project #: 06513302.00 - MINAGO
Site#: W051106
Your C.O.C. #: 08186361

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 4M8

Report Date: 2006/08/09

This report dated: 2006/08/09 supersedes previous report dated: 2006/07/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A632454
Received: 2006/07/22, 11:23

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	5	2006/07/25	2006/07/25	ING413 Rev.1.7	Based on SM2320B
Alkalinity - Water	1	2006/07/26	2006/07/26	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry @	6	N/A	2006/07/25	BRN-SOP 00116	Based on EPA 325.2
Colour (True)	5	N/A	2006/07/25	ING250 Rev 1.0	Based on SM-2120B
Colour (True)	1	N/A	2006/07/27	ING250 Rev 1.0	Based on SM-2120B
Carbon (DOC)	6	N/A	2006/07/25	ING211 Rev. 2.4	Based on SM-5310C
Fluoride	6	N/A	2006/07/27	ING222 Rev.4.2	SM - 4500 F C
Hardness Total (calculated as CaCO3)	6	N/A	2006/08/09		
Hardness (calculated as CaCO3)	6	N/A	2006/07/25		
Mercury (Dissolved)	6	2006/07/27	2006/07/27	ING143 Rev.6.2	Based on EPA 245.1
Mercury (Total)	6	2006/07/26	2006/07/26	ING143 Rev.6.2	Based on EPA 245.1
Elements by ICP-AES (dissolved)	6	2006/07/27	2006/07/28	ING101 Rev.4.0	Based on EPA 6010B
Elements by ICPMS (dissolved) @	6	2006/07/25	2006/07/26	ING113 Rev. 1.1	Based on EPA 200.8
Elements by ICPMS (total) @	6	N/A	2006/07/31	ING113 Rev.1.1	Based on EPA 200.8
Elements by ICP-AES (total)	6	N/A	2006/07/27	ING101 Rev 4.0	Based on EPA 6010B
Nitrogen (Total)	6	2006/07/26	2006/07/26	ING246 Rev.1.4	Based on SM-4500N C
Ammonia-N @	6	N/A	2006/07/27	ING 232 Rev.3.5	
Nitrate + Nitrite (N)	6	N/A	2006/07/26	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	6	N/A	2006/07/26	ING233 Rev.4.3	EPA 353.2
Nitrogen - Nitrate (as N)	6	N/A	2006/07/25		
Sulphate by Automated Colourimetry @	6	N/A	2006/07/25	BRN-SOP 00117	Based on EPA 375.4
Sublet (ORGANICS) @	6	N/A	2006/08/09		
Carbon (DIC)	6	N/A	2006/07/26	ING247 Rev.1.0	Based on SM-5310C
Carbon (Total Inorganic)	6	N/A	2006/07/26	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	5	N/A	2006/07/25		
TKN (Calc. TN, N/N) total	1	N/A	2006/07/26		
Carbon (Total Organic)	6	N/A	2006/07/25	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) @	6	2006/07/27	2006/07/27	ING 237 Rev 5.0	Based on SM-4500P F
Total Phosphorus	6	N/A	2006/07/27	ING237 Rev.5.0	SM 4500
Total Suspended Solids	6	N/A	2006/07/26	ING444 Rev.2.3	Based on SM-2540 D
Turbidity	6	N/A	2006/07/27	ING 415 Rev.3.1	SM - 2130B

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) SCC/CAEAL

..12

Your Project #: 06513302.00 - MINAGO
Site#: W051106
Your C.O.C. #: 08186361

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 4M8

Report Date: 2006/08/09

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11512	C11513		
Sampling Date		2006/07/18 17:54	2006/07/20 10:54		
COC Number		08186361	08186361		
	Units	MRW-1	OCW-1	RDL	QC Batch
Misc. Inorganics					
Fluoride (F)	mg/L	0.11	0.12	0.01	1212483
Parameter					
Subcontract Parameter	N/A	ATTACHED	ATTACHED	N/A	1227784
ANIONS					
Nitrite (N)	mg/L	<0.005	<0.005	0.005	1211795
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	160	240	0.5	1227166
Nitrate (N)	mg/L	<0.02	<0.02	0.02	1208980
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	160	240	0.5	1209796
Dissolved Organic Carbon (C)	mg/L	13.7	14.6	0.5	1209523
Alkalinity (Total as CaCO3)	mg/L	149	212	0.5	1208809
Total Organic Carbon (C)	mg/L	13.6	14.3	0.5	1209527
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	0.5	1208809
Bicarbonate (HCO3)	mg/L	182	259	0.5	1208809
Carbonate (CO3)	mg/L	<0.5	<0.5	0.5	1208809
Hydroxide (OH)	mg/L	<0.5	<0.5	0.5	1208809
Anions					
Dissolved Sulphate (SO4)	mg/L	<5 (1)	<5 (1)	5	1209848
Chloride (Cl)	mg/L	1.1	0.7	0.5	1209841
MISCELLANEOUS					
True Colour	Col. Unit	40	60	5	1209281
Nutrients					
Ammonia (N)	mg/L	<0.005	<0.005	0.005	1212757
Total Kjeldahl Nitrogen (Calc)	mg/L	0.69	0.55	0.02	1209587
Dissolved Phosphorus (P)	mg/L	0.007	0.003	0.002	1212591
Dissolved Inorganic Carbon (C)	mg/L	34.5	46.9	0.5	1210976
Total Inorganic Carbon (C)	mg/L	35.7	49.4	0.5	1210979
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	0.02	1211777
Total Nitrogen (N)	mg/L	0.69	0.55	0.02	1210974
Total Phosphorus (P)	mg/L	0.019	0.010	0.002	1212718
Physical Properties					
Total Suspended Solids	mg/L	4	<1	1	1209932
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.					

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11512	C11513		
Sampling Date		2006/07/18 17:54	2006/07/20 10:54		
COC Number		08186361	08186361		
	Units	MRW-1	OCW-1	RDL	QC Batch

Turbidity	NTU	1.9	0.4	0.1	1212536
-----------	-----	-----	-----	-----	---------

RDL = Reportable Detection Limit

Maxxam Job #: A632454
 Report Date: 2006/08/09

 WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 - MINAGO
 Site Reference:
 Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11514		C11515		
Sampling Date		2006/07/19 12:19		2006/07/19 13:37		
COC Number		08186361		08186361		
	Units	OCW-2A	RDL	OCW-3A	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.14	0.01	0.16	0.01	1212483
Parameter						
Subcontract Parameter	N/A	ATTACHED	N/A	ATTACHED	N/A	1227784
ANIONS						
Nitrite (N)	mg/L	0.005	0.005	<0.005	0.005	1211795
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	250	0.5	260	0.5	1227166
Nitrate (N)	mg/L	<0.02	0.02	<0.02	0.02	1208980
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	250	0.5	260	0.5	1209796
Dissolved Organic Carbon (C)	mg/L	14.1	0.5	12.5	0.5	1209523
Alkalinity (Total as CaCO3)	mg/L	222	0.5	254	0.5	1208809
Total Organic Carbon (C)	mg/L	14.0	0.5	12.7	0.5	1209527
Alkalinity (PP as CaCO3)	mg/L	<0.5	0.5	<0.5	0.5	1208809
Bicarbonate (HCO3)	mg/L	270	0.5	310	0.5	1208809
Carbonate (CO3)	mg/L	<0.5	0.5	<0.5	0.5	1208809
Hydroxide (OH)	mg/L	<0.5	0.5	<0.5	0.5	1208809
Anions						
Dissolved Sulphate (SO4)	mg/L	<5 (1)	5	<5 (1)	5	1209848
Chloride (Cl)	mg/L	<0.5	0.5	<0.5	0.5	1209841
MISCELLANEOUS						
True Colour	Col. Unit	60	5	60	5	1209281
Nutrients						
Ammonia (N)	mg/L	<0.005	0.005	<0.005	0.005	1212757
Total Kjeldahl Nitrogen (Calc)	mg/L	0.53	0.02	0.43	0.02	1209587
Dissolved Phosphorus (P)	mg/L	0.005	0.002	0.004	0.002	1212591
Dissolved Inorganic Carbon (C)	mg/L	47.9	0.5	54	5	1210976
Total Inorganic Carbon (C)	mg/L	59	5	61	5	1210979
Nitrate plus Nitrite (N)	mg/L	<0.02	0.02	<0.02	0.02	1211777
Total Nitrogen (N)	mg/L	0.53	0.02	0.43	0.02	1210974
Total Phosphorus (P)	mg/L	0.008	0.002	0.004	0.002	1212718
Physical Properties						
Total Suspended Solids	mg/L	11	1	<1	1	1209932
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11514		C11515		
Sampling Date		2006/07/19 12:19		2006/07/19 13:37		
COC Number		08186361		08186361		
	Units	OCW-2A	RDL	OCW-3A	RDL	QC Batch
Turbidity	NTU	0.5	0.1	0.3	0.1	1212536
RDL = Reportable Detection Limit						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11516			C11554		
Sampling Date		2006/07/20			2006/07/22		
		10:54			11:23		
COC Number		08186361			08186361		
	Units	DUPLICATE	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Misc. Inorganics							
Fluoride (F)	mg/L	0.16	0.01	1212483	<0.01	0.01	1212483
Parameter							
Subcontract Parameter	N/A	ATTACHED	N/A	1227784	ATTACHED	N/A	1227784
ANIONS							
Nitrite (N)	mg/L	<0.005	0.005	1211795	<0.005	0.005	1211795
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	240	0.5	1227166	<0.5	0.5	1227166
Nitrate (N)	mg/L	<0.02	0.02	1208980	<0.02	0.02	1209797
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	240	0.5	1209796	<0.5	0.5	1209796
Dissolved Organic Carbon (C)	mg/L	15.3	0.5	1209523	<0.5	0.5	1209523
Alkalinity (Total as CaCO3)	mg/L	211	0.5	1208809	<0.5	0.5	1211277
Total Organic Carbon (C)	mg/L	14.4	0.5	1209527	<0.5	0.5	1209527
Alkalinity (PP as CaCO3)	mg/L	<0.5	0.5	1208809	<0.5	0.5	1211277
Bicarbonate (HCO3)	mg/L	258	0.5	1208809	<0.5	0.5	1211277
Carbonate (CO3)	mg/L	<0.5	0.5	1208809	<0.5	0.5	1211277
Hydroxide (OH)	mg/L	<0.5	0.5	1208809	<0.5	0.5	1211277
Anions							
Dissolved Sulphate (SO4)	mg/L	<5 (1)	5	1209848	<5 (1)	5	1209848
Chloride (Cl)	mg/L	<0.5	0.5	1209841	<0.5	0.5	1209841
MISCELLANEOUS							
True Colour	Col. Unit	60	5	1209281	<5	5	1213607
Nutrients							
Ammonia (N)	mg/L	<0.005	0.005	1212757	<0.005	0.005	1212757
Total Kjeldahl Nitrogen (Calc)	mg/L	0.54	0.02	1209587	0.02	0.02	1211708
Dissolved Phosphorus (P)	mg/L	0.004	0.002	1212591	<0.002	0.002	1212591
Dissolved Inorganic Carbon (C)	mg/L	47.6	0.5	1210976	<0.5	0.5	1210976
Total Inorganic Carbon (C)	mg/L	55	5	1210979	<0.5	0.5	1210979
Nitrate plus Nitrite (N)	mg/L	<0.02	0.02	1211777	<0.02	0.02	1211777
Total Nitrogen (N)	mg/L	0.54	0.02	1210974	0.02	0.02	1210974
Total Phosphorus (P)	mg/L	0.007	0.002	1212718	0.003	0.002	1212718
Physical Properties							
Total Suspended Solids	mg/L	<1	1	1209932	<1	1	1209932
RDL = Reportable Detection Limit							
(1) MDL raised due to sample matrix interference.							

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C11516			C11554		
Sampling Date		2006/07/20 10:54			2006/07/22 11:23		
COC Number		08186361			08186361		
	Units	DUPLICATE	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Turbidity	NTU	0.4	0.1	1212536	<0.1	0.1	1212536
RDL = Reportable Detection Limit							

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11512		C11513		
Sampling Date		2006/07/18 17:54		2006/07/20 10:54		
COC Number		08186361		08186361		
	Units	MRW-1	RDL	OCW-1	RDL	QC Batch

Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.019	0.008	0.013	0.008	1212999
Dissolved Calcium (Ca)	mg/L	37.7	0.05	54.6	0.05	1212999
Dissolved Iron (Fe)	mg/L	0.036	0.005	0.063	0.005	1212999
Dissolved Magnesium (Mg)	mg/L	17.0	0.05	24.6	0.05	1212999
Dissolved Phosphorus (P)	mg/L	<0.1	0.1	<0.1	0.1	1212999
Dissolved Silicon (Si)	mg/L	3.00	0.05	5.19	0.05	1212999
Dissolved Sodium (Na)	mg/L	5.08	0.05	2.40	0.05	1212999
Dissolved Sulphur (S)	mg/L	0.6	0.1	0.4	0.1	1212999
Dissolved Zirconium (Zr)	mg/L	<0.005	0.005	<0.005	0.005	1212999
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	2.2	0.2	4.0	0.2	1210079
Dissolved Antimony (Sb)	ug/L	0.05	0.05	<0.05	0.05	1210079
Dissolved Arsenic (As)	ug/L	1.0	0.1	0.6	0.1	1210079
Dissolved Barium (Ba)	ug/L	10.1	0.02	29.3	0.02	1210079
Dissolved Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1210079
Dissolved Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1210079
Dissolved Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1210079
Dissolved Chromium (Cr)	ug/L	<0.2	0.2	<0.2	0.2	1210079
Dissolved Cobalt (Co)	ug/L	0.04	0.02	<0.02	0.02	1210079
Dissolved Copper (Cu)	ug/L	0.4	0.1	0.2	0.1	1210079
Dissolved Lead (Pb)	ug/L	0.13	0.02	0.04	0.02	1210079
Dissolved Lithium (Li)	ug/L	4.1	0.2	3.3	0.2	1210079
Dissolved Manganese (Mn)	ug/L	0.57	0.02	7.84	0.02	1210079
Dissolved Molybdenum (Mo)	ug/L	0.07	0.02	0.10	0.02	1210079
Dissolved Nickel (Ni)	ug/L	<0.5	0.5	<0.5	0.5	1210079
Dissolved Potassium (K)	ug/L	442	50	248	50	1210079
Dissolved Selenium (Se)	ug/L	<0.5	0.5	<0.5	0.5	1210079
Dissolved Silver (Ag)	ug/L	<0.01	0.01	<0.01	0.01	1210079
Dissolved Strontium (Sr)	ug/L	55.3	0.01	54.5	0.01	1210079
Dissolved Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1210079
Dissolved Tin (Sn)	ug/L	<0.05	0.05	<0.05	0.05	1210079
Dissolved Titanium (Ti)	ug/L	<0.5	0.5	<0.5	0.5	1210079

RDL = Reportable Detection Limit

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11512		C11513		
Sampling Date		2006/07/18 17:54		2006/07/20 10:54		
COC Number		08186361		08186361		
	Units	MRW-1	RDL	OCW-1	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.14	0.01	0.19	0.01	1210079
Dissolved Vanadium (V)	ug/L	0.14	0.05	<0.05	0.05	1210079
Dissolved Zinc (Zn)	ug/L	0.6	0.5	<0.5	0.5	1210079
Mercury by CVAA						
Dissolved Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1212554
Total Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1210718
Total Metals by ICP						
Total Boron (B)	mg/L	0.015	0.008	<0.008	0.008	1213824
Total Calcium (Ca)	mg/L	35.7	0.05	51.9	0.05	1213824
Total Iron (Fe)	mg/L	0.136	0.005	0.130	0.005	1213824
Total Magnesium (Mg)	mg/L	16.0	0.05	23.4	0.05	1213824
Total Phosphorus (P)	mg/L	<0.1	0.1	<0.1	0.1	1213824
Total Silicon (Si)	mg/L	2.82	0.05	4.79	0.05	1213824
Total Sodium (Na)	mg/L	4.71	0.05	2.26	0.05	1213824
Total Sulphur (S)	mg/L	0.6	0.1	0.4	0.1	1213824
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	52.6	0.2	32.9	0.2	1216216
Total Antimony (Sb)	ug/L	<0.05	0.05	<0.05	0.05	1216216
Total Arsenic (As)	ug/L	<2 (1)	2	<2 (1)	2	1216216
Total Barium (Ba)	ug/L	9.74	0.02	26.9	0.02	1216216
Total Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1216216
Total Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1216216
Total Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1216216
Total Chromium (Cr)	ug/L	<4 (1)	4	<4 (1)	4	1216216
Total Cobalt (Co)	ug/L	0.08	0.02	0.03	0.02	1216216
Total Copper (Cu)	ug/L	0.3	0.1	0.1	0.1	1216216
Total Lead (Pb)	ug/L	0.05	0.02	0.04	0.02	1216216
Total Lithium (Li)	ug/L	3.3	0.2	2.3	0.2	1216216
Total Manganese (Mn)	ug/L	25.7	0.02	22.5	0.02	1216216
Total Molybdenum (Mo)	ug/L	0.94	0.02	0.88	0.02	1216216
Total Nickel (Ni)	ug/L	<0.5	0.5	<0.5	0.5	1216216
Total Potassium (K)	ug/L	441	50	231	50	1216216
Total Selenium (Se)	ug/L	<10 (1)	10	<10 (1)	10	1216216
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11512		C11513		
Sampling Date		2006/07/18 17:54		2006/07/20 10:54		
COC Number		08186361		08186361		
	Units	MRW-1	RDL	OCW-1	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.01	0.01	<0.01	0.01	1216216
Total Strontium (Sr)	ug/L	52.8	0.01	52.8	0.01	1216216
Total Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1216216
Total Tin (Sn)	ug/L	0.06	0.05	<0.05	0.05	1216216
Total Titanium (Ti)	ug/L	<0.5 (f)	0.5	<10 (f)	10	1216216
Total Uranium (U)	ug/L	0.15	0.01	0.18	0.01	1216216
Total Vanadium (V)	ug/L	0.55	0.05	0.41	0.05	1216216
Total Zinc (Zn)	ug/L	<10 (f)	10	<10 (f)	10	1216216
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11514	C11515	C11516		
Sampling Date		2006/07/19 12:19	2006/07/19 13:37	2006/07/20 10:54		
COC Number		08186361	08186361	08186361		
	Units	OCW-2A	OCW-3A	DUPLICATE	RDL	QC Batch
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.011	0.012	0.009	0.008	1212999
Dissolved Calcium (Ca)	mg/L	56.4	59.7	54.3	0.05	1212999
Dissolved Iron (Fe)	mg/L	0.091	0.074	0.062	0.005	1212999
Dissolved Magnesium (Mg)	mg/L	25.5	27.2	24.6	0.05	1212999
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1212999
Dissolved Silicon (Si)	mg/L	5.38	5.55	5.18	0.05	1212999
Dissolved Sodium (Na)	mg/L	2.32	2.35	2.37	0.05	1212999
Dissolved Sulphur (S)	mg/L	0.4	0.4	0.3	0.1	1212999
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1212999
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	3.6	2.1	4.1	0.2	1210079
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1210079
Dissolved Arsenic (As)	ug/L	0.5	0.5	0.6	0.1	1210079
Dissolved Barium (Ba)	ug/L	31.8	34.3	28.6	0.02	1210079
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1210079
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	<0.05	0.05	1210079
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1210079
Dissolved Chromium (Cr)	ug/L	<0.2	<0.2	<0.2	0.2	1210079
Dissolved Cobalt (Co)	ug/L	<0.02	<0.02	0.02	0.02	1210079
Dissolved Copper (Cu)	ug/L	0.2	0.1	0.2	0.1	1210079
Dissolved Lead (Pb)	ug/L	0.02	<0.02	<0.02	0.02	1210079
Dissolved Lithium (Li)	ug/L	3.2	3.2	3.0	0.2	1210079
Dissolved Manganese (Mn)	ug/L	2.96	2.94	7.70	0.02	1210079
Dissolved Molybdenum (Mo)	ug/L	0.11	0.11	0.09	0.02	1210079
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	<0.5	0.5	1210079
Dissolved Potassium (K)	ug/L	271	339	240	50	1210079
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1210079
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1210079
Dissolved Strontium (Sr)	ug/L	55.8	56.2	55.0	0.01	1210079
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1210079
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	0.21	0.05	1210079
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.5	1210079
RDL = Reportable Detection Limit						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11514	C11515	C11516		
Sampling Date		2006/07/19 12:19	2006/07/19 13:37	2006/07/20 10:54		
COC Number		08186361	08186361	08186361		
	Units	OCW-2A	OCW-3A	DUPLICATE	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.18	0.21	0.18	0.01	1210079
Dissolved Vanadium (V)	ug/L	<0.05	<0.05	<0.05	0.05	1210079
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	<0.5	0.5	1210079
Mercury by CVAA						
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1212554
Total Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1210718
Total Metals by ICP						
Total Boron (B)	mg/L	0.008	0.009	<0.008	0.008	1213824
Total Calcium (Ca)	mg/L	53.8	57.2	51.3	0.05	1213824
Total Iron (Fe)	mg/L	0.244	0.109	0.136	0.005	1213824
Total Magnesium (Mg)	mg/L	24.3	26.2	23.3	0.05	1213824
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1213824
Total Silicon (Si)	mg/L	4.99	5.10	4.74	0.05	1213824
Total Sodium (Na)	mg/L	2.19	2.24	2.23	0.05	1213824
Total Sulphur (S)	mg/L	0.4	0.4	0.4	0.1	1213824
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	69.1	4.8	35.2	0.2	1216216
Total Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1216216
Total Arsenic (As)	ug/L	<2 (1)	<2 (1)	<2 (1)	2	1216216
Total Barium (Ba)	ug/L	29.2	32.7	27.7	0.02	1216216
Total Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1216216
Total Bismuth (Bi)	ug/L	<0.05	<0.05	<0.05	0.05	1216216
Total Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1216216
Total Chromium (Cr)	ug/L	<4 (1)	<4 (1)	<4 (1)	4	1216216
Total Cobalt (Co)	ug/L	0.07	<0.02	0.03	0.02	1216216
Total Copper (Cu)	ug/L	0.2	<0.1	0.2	0.1	1216216
Total Lead (Pb)	ug/L	0.07	0.02	0.04	0.02	1216216
Total Lithium (Li)	ug/L	2.6	2.8	2.6	0.2	1216216
Total Manganese (Mn)	ug/L	28.5	11.1	22.1	0.02	1216216
Total Molybdenum (Mo)	ug/L	0.94	0.87	1.08	0.02	1216216
Total Nickel (Ni)	ug/L	0.7	<0.5	0.5	0.5	1216216
Total Potassium (K)	ug/L	265	366	252	50	1216216
Total Selenium (Se)	ug/L	<10 (1)	<10 (1)	<10 (1)	10	1216216
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11514	C11515	C11516		
Sampling Date		2006/07/19 12:19	2006/07/19 13:37	2006/07/20 10:54		
COC Number		08186361	08186361	08186361		
	Units	OCW-2A	OCW-3A	DUPLICATE	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1216216
Total Strontium (Sr)	ug/L	51.0	55.4	53.1	0.01	1216216
Total Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1216216
Total Tin (Sn)	ug/L	0.05	0.07	0.07	0.05	1216216
Total Titanium (Ti)	ug/L	<10 (1)	<10 (1)	<10 (1)	10	1216216
Total Uranium (U)	ug/L	0.18	0.21	0.19	0.01	1216216
Total Vanadium (V)	ug/L	0.53	0.45	0.56	0.05	1216216
Total Zinc (Zn)	ug/L	<10 (1)	<10 (1)	<10 (1)	10	1216216
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11554		
Sampling Date		2006/07/22 11:23		
COC Number		08186361		
	Units	TRIP BLANK	RDL	QC Batch

Dissolved Metals by ICP				
Dissolved Boron (B)	mg/L	<0.008	0.008	1212999
Dissolved Calcium (Ca)	mg/L	<0.05	0.05	1212999
Dissolved Iron (Fe)	mg/L	<0.005	0.005	1212999
Dissolved Magnesium (Mg)	mg/L	<0.05	0.05	1212999
Dissolved Phosphorus (P)	mg/L	<0.1	0.1	1212999
Dissolved Silicon (Si)	mg/L	<0.05	0.05	1212999
Dissolved Sodium (Na)	mg/L	<0.05	0.05	1212999
Dissolved Sulphur (S)	mg/L	<0.1	0.1	1212999
Dissolved Zirconium (Zr)	mg/L	<0.005	0.005	1212999
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	0.3	0.2	1210079
Dissolved Antimony (Sb)	ug/L	<0.05	0.05	1210079
Dissolved Arsenic (As)	ug/L	<0.1	0.1	1210079
Dissolved Barium (Ba)	ug/L	<0.02	0.02	1210079
Dissolved Beryllium (Be)	ug/L	<0.05	0.05	1210079
Dissolved Bismuth (Bi)	ug/L	<0.05	0.05	1210079
Dissolved Cadmium (Cd)	ug/L	<0.01	0.01	1210079
Dissolved Chromium (Cr)	ug/L	0.4	0.2	1210079
Dissolved Cobalt (Co)	ug/L	<0.02	0.02	1210079
Dissolved Copper (Cu)	ug/L	0.2	0.1	1210079
Dissolved Lead (Pb)	ug/L	<0.02	0.02	1210079
Dissolved Lithium (Li)	ug/L	<0.2	0.2	1210079
Dissolved Manganese (Mn)	ug/L	<0.02	0.02	1210079
Dissolved Molybdenum (Mo)	ug/L	<0.02	0.02	1210079
Dissolved Nickel (Ni)	ug/L	<0.5	0.5	1210079
Dissolved Potassium (K)	ug/L	<50	50	1210079
Dissolved Selenium (Se)	ug/L	<0.5	0.5	1210079
Dissolved Silver (Ag)	ug/L	<0.01	0.01	1210079
Dissolved Strontium (Sr)	ug/L	0.02	0.01	1210079
Dissolved Thallium (Tl)	ug/L	<0.05	0.05	1210079
Dissolved Tin (Sn)	ug/L	<0.05	0.05	1210079
Dissolved Titanium (Ti)	ug/L	<0.5	0.5	1210079

RDL = Reportable Detection Limit

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11554		
Sampling Date		2006/07/22 11:23		
COC Number		08186361		
	Units	TRIP BLANK	RDL	QC Batch
Dissolved Uranium (U)	ug/L	<0.01	0.01	1210079
Dissolved Vanadium (V)	ug/L	<0.05	0.05	1210079
Dissolved Zinc (Zn)	ug/L	<0.5	0.5	1210079
Mercury by CVAA				
Dissolved Mercury (Hg)	ug/L	<0.05	0.05	1212554
Total Mercury (Hg)	ug/L	<0.05	0.05	1210718
Total Metals by ICP				
Total Boron (B)	mg/L	<0.008	0.008	1213824
Total Calcium (Ca)	mg/L	<0.05	0.05	1213824
Total Iron (Fe)	mg/L	<0.005	0.005	1213824
Total Magnesium (Mg)	mg/L	<0.05	0.05	1213824
Total Phosphorus (P)	mg/L	<0.1	0.1	1213824
Total Silicon (Si)	mg/L	<0.05	0.05	1213824
Total Sodium (Na)	mg/L	<0.05	0.05	1213824
Total Sulphur (S)	mg/L	0.1	0.1	1213824
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	1.0	0.2	1216216
Total Antimony (Sb)	ug/L	<0.05	0.05	1216216
Total Arsenic (As)	ug/L	<0.1	0.1	1216216
Total Barium (Ba)	ug/L	0.03	0.02	1216216
Total Beryllium (Be)	ug/L	<0.05	0.05	1216216
Total Bismuth (Bi)	ug/L	0.05	0.05	1216216
Total Cadmium (Cd)	ug/L	<0.01	0.01	1216216
Total Chromium (Cr)	ug/L	0.5	0.2	1216216
Total Cobalt (Co)	ug/L	<0.02	0.02	1216216
Total Copper (Cu)	ug/L	0.1	0.1	1216216
Total Lead (Pb)	ug/L	0.02	0.02	1216216
Total Lithium (Li)	ug/L	<0.2	0.2	1216216
Total Manganese (Mn)	ug/L	0.12	0.02	1216216
Total Molybdenum (Mo)	ug/L	<0.02	0.02	1216216
Total Nickel (Ni)	ug/L	<0.5	0.5	1216216
Total Potassium (K)	ug/L	<50	50	1216216
Total Selenium (Se)	ug/L	<0.5	0.5	1216216
RDL = Reportable Detection Limit				

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C11554		
Sampling Date		2006/07/22 11:23		
COC Number		08186361		
	Units	TRIP BLANK	RDL	QC Batch

Total Silver (Ag)	ug/L	<0.01	0.01	1216216
Total Strontium (Sr)	ug/L	0.06	0.01	1216216
Total Thallium (Tl)	ug/L	<0.05	0.05	1216216
Total Tin (Sn)	ug/L	0.06	0.05	1216216
Total Titanium (Ti)	ug/L	<0.5	0.5	1216216
Total Uranium (U)	ug/L	<0.01	0.01	1216216
Total Vanadium (V)	ug/L	<0.05	0.05	1216216
Total Zinc (Zn)	ug/L	0.6	0.5	1216216

RDL = Reportable Detection Limit

Maxxam Job #: A632454
Report Date: 2006/08/09

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 - MINAGO
Site Reference:
Sampler Initials: JM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

Sample C11512-01 Elements by ICP-AES (total): SUSPECTED METAL BOTTLE PRESERVED WITH H2SO4, SULFUR ANALYZED FROM GENERAL BOTTLE

Sample C11513-01 Elements by ICP-AES (total): SUSPECTED METAL BOTTLE PRESERVED WITH H2SO4, SULFUR ANALYZED FROM GENERAL BOTTLE

Sample C11514-01 Elements by ICP-AES (total): SUSPECTED METAL BOTTLE PRESERVED WITH H2SO4, SULFUR ANALYZED FROM GENERAL BOTTLE

Sample C11515-01 Elements by ICP-AES (total): SUSPECTED METAL BOTTLE PRESERVED WITH H2SO4, SULFUR ANALYZED FROM GENERAL BOTTLE

Sample C11516-01 Elements by ICP-AES (total): SUSPECTED METAL BOTTLE PRESERVED WITH H2SO4, SULFUR ANALYZED FROM GENERAL BOTTLE

Results relate only to the items tested.

Attention: Alison Reineke
 Client Project #: 06513302.00 - MINAGO
 P.O. #:
 Site Reference:

Quality Assurance Report
 Maxxam Job Number: VA632454

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
Num Init			yyyy/mm/dd				
1208809 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/07/25		99	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/07/25		95	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/07/25	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/07/25	<0.5		mg/L	
		Bicarbonate (HCO3)	2006/07/25	<0.5		mg/L	
		Carbonate (CO3)	2006/07/25	<0.5		mg/L	
		Hydroxide (OH)	2006/07/25	<0.5		mg/L	
	RPD [C11516-01]	Alkalinity (Total as CaCO3)	2006/07/25	0.04		%	25
		Alkalinity (PP as CaCO3)	2006/07/25	NC		%	25
		Bicarbonate (HCO3)	2006/07/25	0.04		%	25
		Carbonate (CO3)	2006/07/25	NC		%	25
		Hydroxide (OH)	2006/07/25	NC		%	25
1209523 TS1	MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/07/25		92	%	80 - 120
	SPIKE	Dissolved Organic Carbon (C)	2006/07/25		102	%	80 - 120
	BLANK	Dissolved Organic Carbon (C)	2006/07/25	<0.5		mg/L	
	RPD	Dissolved Organic Carbon (C)	2006/07/25	NC		%	20
1209527 TS1	MATRIX SPIKE	Total Organic Carbon (C)	2006/07/25		99	%	80 - 120
	SPIKE	Total Organic Carbon (C)	2006/07/25		102	%	80 - 120
	BLANK	Total Organic Carbon (C)	2006/07/25	<0.5		mg/L	
	RPD	Total Organic Carbon (C)	2006/07/25	NC		%	20
1209841 SC2	MATRIX SPIKE	Chloride (Cl)	2006/07/25		101	%	80 - 120
	SPIKE	Chloride (Cl)	2006/07/25		102	%	80 - 120
	BLANK	Chloride (Cl)	2006/07/25	<0.5		mg/L	
	RPD [C11513-01]	Chloride (Cl)	2006/07/25	NC		%	20
1209848 SC2	SPIKE	Dissolved Sulphate (SO4)	2006/07/25		102	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/07/25	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/07/25	1.1		%	20
1209932 WAY	SPIKE	Total Suspended Solids	2006/07/26		98	%	N/A
	BLANK	Total Suspended Solids	2006/07/26	<1		mg/L	
1210079 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2006/07/26		87	%	75 - 125
		Dissolved Cadmium (Cd)	2006/07/26		89	%	75 - 125
		Dissolved Chromium (Cr)	2006/07/26		86	%	75 - 125
		Dissolved Cobalt (Co)	2006/07/26		91	%	75 - 125
		Dissolved Copper (Cu)	2006/07/26		93	%	75 - 125
		Dissolved Lead (Pb)	2006/07/26		98	%	75 - 125
		Dissolved Selenium (Se)	2006/07/26		95	%	75 - 125
		Dissolved Thallium (Tl)	2006/07/26		94	%	75 - 125
		Dissolved Zinc (Zn)	2006/07/26		92	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2006/07/26		104	%	75 - 125
		Dissolved Cadmium (Cd)	2006/07/26		102	%	75 - 125
		Dissolved Chromium (Cr)	2006/07/26		110	%	75 - 125
		Dissolved Cobalt (Co)	2006/07/26		110	%	75 - 125
		Dissolved Copper (Cu)	2006/07/26		111	%	75 - 125
		Dissolved Lead (Pb)	2006/07/26		116	%	75 - 125
		Dissolved Selenium (Se)	2006/07/26		101	%	75 - 125
		Dissolved Thallium (Tl)	2006/07/26		113	%	75 - 125
		Dissolved Zinc (Zn)	2006/07/26		108	%	75 - 125
	BLANK	Dissolved Aluminum (Al)	2006/07/26	<0.2		ug/L	
		Dissolved Antimony (Sb)	2006/07/26	<0.05		ug/L	
		Dissolved Arsenic (As)	2006/07/26	<0.1		ug/L	
		Dissolved Barium (Ba)	2006/07/26	<0.02		ug/L	
		Dissolved Beryllium (Be)	2006/07/26	<0.05		ug/L	
		Dissolved Bismuth (Bi)	2006/07/26	<0.05		ug/L	
		Dissolved Cadmium (Cd)	2006/07/26	<0.01		ug/L	
		Dissolved Chromium (Cr)	2006/07/26	0.3, RDL=0.2		ug/L	
		Dissolved Cobalt (Co)	2006/07/26	<0.02		ug/L	

Attention: Alison Reineke
 Client Project #: 06513302.00 - MINAGO
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA632454

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1210079 AA1	BLANK	Dissolved Copper (Cu)	2006/07/26	<0.1		ug/L	
		Dissolved Lead (Pb)	2006/07/26	<0.02		ug/L	
		Dissolved Lithium (Li)	2006/07/26	<0.2		ug/L	
		Dissolved Manganese (Mn)	2006/07/26	<0.02		ug/L	
		Dissolved Molybdenum (Mo)	2006/07/26	0.03, RDL=0.02		ug/L	
		Dissolved Nickel (Ni)	2006/07/26	<0.5		ug/L	
		Dissolved Potassium (K)	2006/07/26	<50		ug/L	
		Dissolved Selenium (Se)	2006/07/26	<0.5		ug/L	
		Dissolved Silver (Ag)	2006/07/26	<0.01		ug/L	
		Dissolved Strontium (Sr)	2006/07/26	<0.01		ug/L	
		Dissolved Thallium (Tl)	2006/07/26	<0.05		ug/L	
		Dissolved Tin (Sn)	2006/07/26	<0.05		ug/L	
		Dissolved Titanium (Ti)	2006/07/26	<0.5		ug/L	
		Dissolved Uranium (U)	2006/07/26	<0.01		ug/L	
		Dissolved Vanadium (V)	2006/07/26	<0.05		ug/L	
	Dissolved Zinc (Zn)	2006/07/26	<0.5		ug/L		
	RPD	Dissolved Aluminum (Al)	2006/07/26	0.9		%	25
		Dissolved Antimony (Sb)	2006/07/26	2.2		%	25
		Dissolved Arsenic (As)	2006/07/26	7.6		%	25
		Dissolved Barium (Ba)	2006/07/26	0.08		%	25
		Dissolved Beryllium (Be)	2006/07/26	6.1		%	25
		Dissolved Bismuth (Bi)	2006/07/26	NC		%	25
		Dissolved Cadmium (Cd)	2006/07/26	6.8		%	25
		Dissolved Chromium (Cr)	2006/07/26	0.5		%	25
		Dissolved Cobalt (Co)	2006/07/26	0.1		%	25
		Dissolved Copper (Cu)	2006/07/26	0.2		%	25
		Dissolved Lead (Pb)	2006/07/26	1.5		%	25
		Dissolved Lithium (Li)	2006/07/26	NC		%	25
		Dissolved Manganese (Mn)	2006/07/26	2.8		%	25
		Dissolved Molybdenum (Mo)	2006/07/26	2.3		%	25
		Dissolved Nickel (Ni)	2006/07/26	0.5		%	25
		Dissolved Potassium (K)	2006/07/26	0.8		%	25
		Dissolved Selenium (Se)	2006/07/26	NC		%	25
Dissolved Silver (Ag)		2006/07/26	0		%	25	
Dissolved Strontium (Sr)	2006/07/26	0.7		%	25		
Dissolved Thallium (Tl)	2006/07/26	NC		%	25		
Dissolved Tin (Sn)	2006/07/26	NC		%	25		
Dissolved Titanium (Ti)	2006/07/26	0.5		%	25		
Dissolved Uranium (U)	2006/07/26	0.8		%	25		
Dissolved Vanadium (V)	2006/07/26	1.8		%	25		
Dissolved Zinc (Zn)	2006/07/26	2.5		%	25		
1210718 GS2	MATRIX SPIKE	Total Mercury (Hg)	2006/07/26		100	%	70 - 130
	[C11516-01]	Total Mercury (Hg)	2006/07/26		98	%	80 - 120
	QC STANDARD	Total Mercury (Hg)	2006/07/26		100	%	80 - 120
	SPIKE	Total Mercury (Hg)	2006/07/26	<0.05		ug/L	
	BLANK	Total Mercury (Hg)	2006/07/26	NC		%	25
1210974 MX	RPD [C11516-01]	Total Mercury (Hg)	2006/07/26			%	25
	MATRIX SPIKE	Total Nitrogen (N)	2006/07/26		98	%	80 - 120
	SPIKE	Total Nitrogen (N)	2006/07/26		95	%	80 - 120
1210976 TS1	BLANK	Total Nitrogen (N)	2006/07/26	<0.02		mg/L	
	RPD [C11516-01]	Total Nitrogen (N)	2006/07/26	0.9		%	25
	MATRIX SPIKE	Dissolved Inorganic Carbon (C)	2006/07/26		99	%	80 - 120
	SPIKE	Dissolved Inorganic Carbon (C)	2006/07/26		111	%	80 - 120
1210979 TS1	BLANK	Dissolved Inorganic Carbon (C)	2006/07/26	<0.5		mg/L	
	RPD	Dissolved Inorganic Carbon (C)	2006/07/26	0.2		%	25
	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/07/26		106	%	80 - 120

WARDROP ENGINEERING INC
Attention: Allison Reineke
Client Project #: 06513302.00 - MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA632454

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1210979 TS1	SPIKE	Total Inorganic Carbon (C)	2006/07/26		111	%	80 - 120
	BLANK	Total Inorganic Carbon (C)	2006/07/26	<0.5		mg/L	
	RPD	Total Inorganic Carbon (C)	2006/07/26	0.2		%	25
1211277 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/07/26		92	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/07/26		98	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/07/26	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/07/26	<0.5		mg/L	
		Bicarbonate (HCO3)	2006/07/26	0.6, RDL=0.5		mg/L	
		Carbonate (CO3)	2006/07/26	<0.5		mg/L	
		Hydroxide (OH)	2006/07/26	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2006/07/26	1.6		%	25
		Alkalinity (PP as CaCO3)	2006/07/26	NC		%	25
		Bicarbonate (HCO3)	2006/07/26	1.6		%	25
		Carbonate (CO3)	2006/07/26	NC		%	25
		Hydroxide (OH)	2006/07/26	NC		%	25
1211777 MX	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/07/26		99	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2006/07/26		109	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2006/07/26	<0.02		mg/L	
	RPD [C11554-01]	Nitrate plus Nitrite (N)	2006/07/26	NC		%	25
1211795 MX	MATRIX SPIKE	Nitrite (N)	2006/07/26		101	%	N/A
	SPIKE	Nitrite (N)	2006/07/26		101	%	N/A
	BLANK	Nitrite (N)	2006/07/26	<0.005		mg/L	
	RPD [C11554-01]	Nitrite (N)	2006/07/26	NC		%	25
1212483 TG1	MATRIX SPIKE	Fluoride (F)	2006/07/27		101	%	80 - 120
	SPIKE	Fluoride (F)	2006/07/27		102	%	80 - 120
	BLANK	Fluoride (F)	2006/07/27	<0.01		mg/L	
	RPD	Fluoride (F)	2006/07/27	NC		%	25
1212536 CK	SPIKE	Turbidity	2006/07/27		101	%	80 - 120
	BLANK	Turbidity	2006/07/27	<0.1		NTU	
	RPD	Turbidity	2006/07/27	0.3		%	25
1212554 GS2	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/07/27		122	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/07/27		102	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/07/27		104	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/07/27	<0.05		ug/L	
	RPD [C11554-01]	Dissolved Mercury (Hg)	2006/07/27	NC		%	25
1212591 CMP	MATRIX SPIKE	Dissolved Phosphorus (P)	2006/07/27		89	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2006/07/27		97	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2006/07/27	<0.002		mg/L	
	RPD [C11554-01]	Dissolved Phosphorus (P)	2006/07/27	NC		%	20
1212718 CMP	MATRIX SPIKE	Total Phosphorus (P)	2006/07/27		94	%	80 - 120
	SPIKE	Total Phosphorus (P)	2006/07/27		107	%	80 - 120
	BLANK	Total Phosphorus (P)	2006/07/27	<0.002		mg/L	
	RPD [C11554-01]	Total Phosphorus (P)	2006/07/27	NC		%	25
1212757 CMP	MATRIX SPIKE	Ammonia (N)	2006/07/27		97	%	80 - 120
	[C11554-01]	Ammonia (N)	2006/07/27		92	%	80 - 120
	SPIKE	Ammonia (N)	2006/07/27	<0.005		mg/L	
	BLANK	Ammonia (N)	2006/07/27	NC		%	25
	RPD [C11554-01]	Ammonia (N)	2006/07/27	NC		%	25
1212999 KL1	BLANK	Dissolved Boron (B)	2006/07/28	<0.008		mg/L	
		Dissolved Calcium (Ca)	2006/07/28	<0.05		mg/L	
		Dissolved Iron (Fe)	2006/07/28	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2006/07/28	<0.05		mg/L	
		Dissolved Phosphorus (P)	2006/07/28	<0.1		mg/L	
		Dissolved Silicon (Si)	2006/07/28	<0.05		mg/L	
		Dissolved Sodium (Na)	2006/07/28	<0.05		mg/L	
		Dissolved Sulphur (S)	2006/07/28	<0.1		mg/L	

WARDROP ENGINEERING INC
Attention: Alison Reineke
Client Project #: 06513302.00 - MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA632454

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1212999 KL1	BLANK	Dissolved Zirconium (Zr)	2006/07/28	<0.005		mg/L		
		Dissolved Boron (B)	2006/07/28	0.6		%	25	
	RPD	Dissolved Calcium (Ca)	2006/07/28	0.6		%	25	
		Dissolved Iron (Fe)	2006/07/28	0.4		%	25	
		Dissolved Magnesium (Mg)	2006/07/28	0.5		%	25	
		Dissolved Phosphorus (P)	2006/07/28	NC		%	25	
		Dissolved Silicon (Si)	2006/07/28	0.4		%	25	
		Dissolved Sodium (Na)	2006/07/28	0.1		%	25	
		Dissolved Sulphur (S)	2006/07/28	0.4		%	25	
1213824 KL1	BLANK	Dissolved Zirconium (Zr)	2006/07/28	NC		%	25	
		Total Boron (B)	2006/07/27	<0.008		mg/L		
		Total Calcium (Ca)	2006/07/27	<0.05		mg/L		
		Total Iron (Fe)	2006/07/27	<0.005		mg/L		
		Total Magnesium (Mg)	2006/07/27	<0.05		mg/L		
		Total Phosphorus (P)	2006/07/27	<0.1		mg/L		
		Total Silicon (Si)	2006/07/27	<0.05		mg/L		
		Total Sodium (Na)	2006/07/27	<0.05		mg/L		
		Total Sulphur (S)	2006/07/27	<0.1		mg/L		
	RPD	Total Boron (B)	2006/07/27	NC		%	25	
		Total Calcium (Ca)	2006/07/27	1		%	25	
		Total Iron (Fe)	2006/07/27	0.7		%	25	
		Total Magnesium (Mg)	2006/07/27	0.03		%	25	
		Total Phosphorus (P)	2006/07/27	NC		%	25	
		Total Silicon (Si)	2006/07/27	0.7		%	25	
		Total Sodium (Na)	2006/07/27	0.9		%	25	
		Total Sulphur (S)	2006/07/27	1.0		%	25	
		1216216 AA1	SPIKE	Total Arsenic (As)	2006/07/31		99	%
Total Cadmium (Cd)	2006/07/31				97	%	75 - 125	
Total Chromium (Cr)	2006/07/31				111	%	75 - 125	
Total Cobalt (Co)	2006/07/31				111	%	75 - 125	
Total Copper (Cu)	2006/07/31				109	%	75 - 125	
Total Lead (Pb)	2006/07/31				108	%	75 - 125	
Total Selenium (Se)	2006/07/31				94	%	75 - 125	
Total Thallium (Tl)	2006/07/31				105	%	75 - 125	
Total Zinc (Zn)	2006/07/31				96	%	75 - 125	
BLANK	Total Aluminum (Al)			2006/07/31	<0.2		ug/L	
	Total Antimony (Sb)			2006/07/31	<0.05		ug/L	
	Total Arsenic (As)			2006/07/31	<0.1		ug/L	
	Total Barium (Ba)		2006/07/31	<0.02		ug/L		
	Total Beryllium (Be)		2006/07/31	<0.05		ug/L		
	Total Bismuth (Bi)		2006/07/31	<0.05		ug/L		
	Total Cadmium (Cd)		2006/07/31	<0.01		ug/L		
	Total Chromium (Cr)		2006/07/31	<0.2		ug/L		
	Total Cobalt (Co)		2006/07/31	<0.02		ug/L		
	Total Copper (Cu)		2006/07/31	<0.1		ug/L		
	Total Lead (Pb)		2006/07/31	<0.02		ug/L		
	Total Lithium (Li)		2006/07/31	<0.2		ug/L		
	Total Manganese (Mn)		2006/07/31	<0.02		ug/L		
	Total Molybdenum (Mo)		2006/07/31	<0.02		ug/L		
	Total Nickel (Ni)		2006/07/31	<0.5		ug/L		
	Total Potassium (K)		2006/07/31	<50		ug/L		
	Total Selenium (Se)		2006/07/31	<0.5		ug/L		
	Total Silver (Ag)		2006/07/31	<0.01		ug/L		
Total Strontium (Sr)	2006/07/31		<0.01		ug/L			
Total Thallium (Tl)	2006/07/31		<0.05		ug/L			
Total Tin (Sn)	2006/07/31		<0.05		ug/L			

Attention: Alison Reineke
Client Project #: 06513302.00 - MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA632454

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1216216 AA1	BLANK	Total Titanium (Ti)	2006/07/31	<0.5		ug/L	
		Total Uranium (U)	2006/07/31	<0.01		ug/L	
		Total Vanadium (V)	2006/07/31	<0.05		ug/L	
		Total Zinc (Zn)	2006/07/31	<0.5		ug/L	

N/A = Not Applicable
NC = Non-calculable
RPD = Relative Percent Difference

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Your Project #: A632454
Site: MINAGO
Your C.O.C. #: 383134

Attention: Rob Macarthur
Maxxam Analytics Inc
8577 Commerce Crt
Burnaby, BC
V5A 4N5

Report Date: 2006/08/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A673896
Received: 2006/07/22, 10:24

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Total Dissolved Solids	6	N/A	2006/07/27	Ont SOP-0076	APHA 2540C

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARIJANE CRUZ, PROJECT MANAGER ASSISTANT
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5700 Ext:5756

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Page 1 of 5

Maxxam Job #: A673896
Report Date: 2006/08/09

Maxxam Analytics Inc
Client Project #: A632454
Project name: MINAGO
Sampler Initials:

RESULTS OF ANALYSES OF WATER

Maxxam ID		N25826	N25827	N25828	N25829		
Sampling Date		2006/07/18 17:54	2006/07/20 10:54	2006/07/19 12:19	2006/07/19 13:37		
COC Number		383134	383134	383134	383134		
	Units	MRW-1	OCW-1	OCW-2A	OCW-3A	RDL	QC Batch

INORGANICS							
Total Dissolved Solids	mg/L	183	231	238	240	1	1019234
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam ID		N25830	N25831		
Sampling Date		2006/07/20 10:54	2006/07/20		
COC Number		383134	383134		
	Units	DUPLICATE	TRIP BLANK	RDL	QC Batch

INORGANICS					
Total Dissolved Solids	mg/L	222	<1	1	1019234
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A673896
Report Date: 2006/08/09

Maxxam Analytics Inc
Client Project #: A632454
Project name: MINAGO
Sampler Initials:

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics Inc
 Attention: Rob Macarthur
 Client Project #: A632454
 P.O. #:
 Project name: MINAGO

Quality Assurance Report

Maxxam Job Number: MA673896

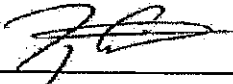
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1019234 SUN	QC STANDARD	Total Dissolved Solids	2006/07/27		95	%	85 - 115
	Method Blank	Total Dissolved Solids	2006/07/27	<1		mg/L	
	RPD	Total Dissolved Solids	2006/07/27	13.3		%	25

RPD = Relative Percent Difference
 QC Standard = Quality Control Standard

Validation Signature Page

Maxxam Job #: A673896

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



TROY CARRIERE, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.



ANALYSIS REPORT

Becquerel Laboratories Inc.
6790 Kitimat Rd., Unit 4
Mississauga, Ontario
Canada, L5N 5L9

Phone: (905) 826-3080
FAX: (905) 826-4151

Batch: T06-00910.0

Date: 09-Aug-2006

Maxxam Analytics Inc.

6740 Campobello Rd.,
Mississauga, ON, L5N 2L8

Phone: (905) 817-5700
FAX: (905) 817-5777

Client Ref. A673896

attn: Jaimie McCarthy

6 water samples

Received: 26-Jul-2006

Page 1 of 1

Results of Analysis						
Sample	Test	Result	Units	Date	Method	
Sampled: 18-Jul-2006						
N25826-02R\MRW-1	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	
Sampled: 20-Jul-2006						
N25827-02R\OCW-1	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	
Sampled: 19-Jul-2006						
N25828-02R\OCW-2A	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	
N25829-02R\OCW-3A	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	
Sampled: 20-Jul-2006						
N25830-02R\DUPLICATE	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	
N25831-02R\TRIP BLANK	Ra-226 <	0.01	Bq/l	03-Aug-2006	ALPHA	

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

Units: Bq/l Becquerels per litre

These results relate only to the samples analysed and only to the items tested.
These results have not been corrected for blanks.

09-Aug-2006 approved by: _____

Donald D. Burgess PhD
Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.



QUALITY REPORT

Becquerel Laboratories Inc.
6790 Kitimat Rd., Unit 4
Mississauga, Ontario
Canada, L5N 5L9

Phone: (905) 826-3080
FAX: (905) 826-4151

Batch: T06-00910.0

Date: 09-Aug-2006

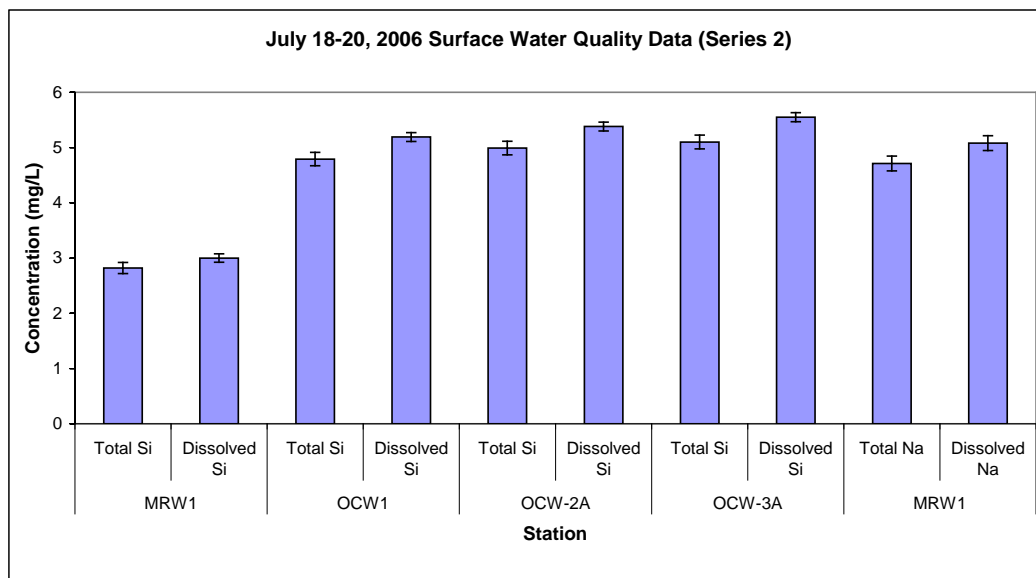
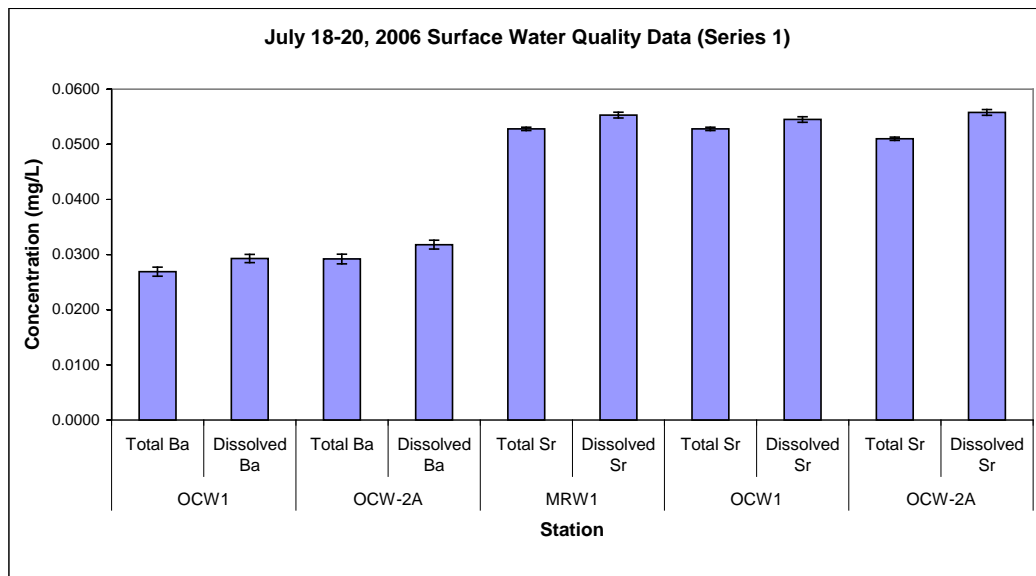
Standard	Analyte	Standards		Result	Expected Result
		Units			
Ra226.012	Ra-226	Bq/l		0.95	0.94

Analyte	Blanks		Result
	Units		
Ra-226	Bq/l		< 0.01

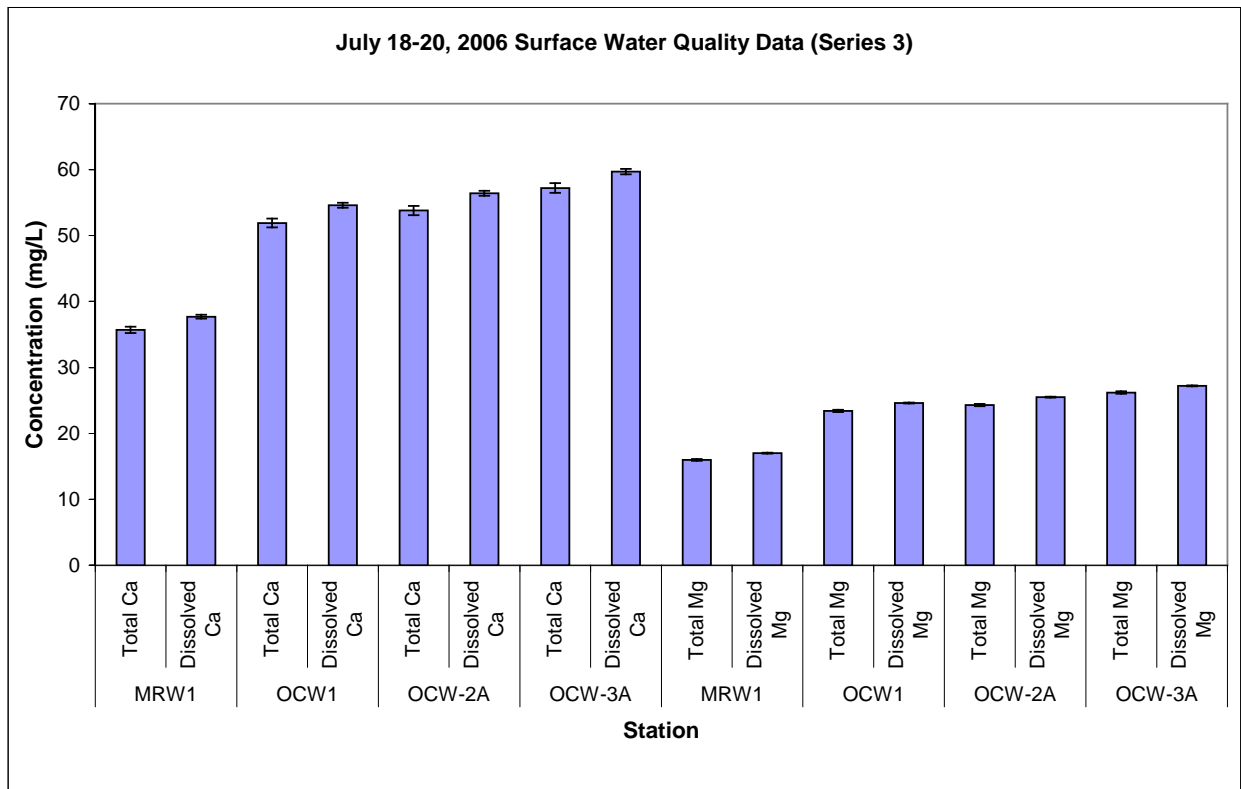
Analyte	Duplicates		
	Units	Result	Duplicate
Ra-226	Bq/l	< 0.01	< 0.01

Analyte	Spikes	
		% Recovery
Ra-226		102

**July 18-20, 2006 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



**July 18-20, 2006 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-F

Certified Laboratory Reports for Surface Water Quality

August 2006 Results

Your Project #: 06513302.00 MINAGO
 Your C.O.C. #: 08186362

Attention: Alison Reineke
 WARDROP ENGINEERING INC.
 386 BROADWAY #400
 WINNIPEG, MB
 CANADA R3C 2M8

Report Date: 2007/01/19
 This report supersedes all previous reports

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A639217
Received: 2006/08/26, 10:30

Sample Matrix: Water
 # Samples Received: 6

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	6	2006/08/30	2006/08/30	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry ☉	6	N/A	2006/08/29	BRN-SOP 00116	Based on EPA 325.2
Colour (True)	6	N/A	2006/08/30	ING250 Rev.1.0	Based on SM-2120B
Carbon (DOC)	6	N/A	2006/09/05	ING211 Rev. 2.4	Based on SM-5310C
Fluoride	6	N/A	2006/08/30	ING222 Rev.4.2	SM - 4500 F C
GS Special Analysis	6	N/A	2006/09/01		
Hardness Total (calculated as CaCO3)	6	N/A	2006/08/29		
Hardness (calculated as CaCO3)	6	N/A	2006/08/28		
Mercury (Dissolved)	6	2006/08/30	2006/08/30	BRN SOP-00044 V1.0	Based on EPA 245.1
Mercury (Total)	6	2006/08/29	2006/08/29	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	6	2006/08/29	2006/08/30	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) ☉	6	2006/08/30	2006/08/30	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICPMS (total) ☉	6	N/A	2006/08/30	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	6	N/A	2006/08/31	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	6	2006/08/28	2006/08/30	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	6	N/A	2006/08/29	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate + Nitrite (N)	6	N/A	2006/08/28	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	6	N/A	2006/08/28	BRN SOP-00023 V1.0	EPA 353.2
Nitrogen - Nitrate (as N)	6	N/A	2006/08/28		
Filter and HNO3 Preserve for Metals	6	2006/08/30	2006/08/30	BRN WI-00006 V1.0	Based on EPA 200.2
Sulphate by Automated Colourimetry ☉	6	N/A	2006/08/29	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (Inorganics)	6	N/A	2006/09/06		
Carbon (DIC)	3	N/A	2006/08/30	ING247 Rev.1.0	Based on SM-5310C
Carbon (DIC)	3	N/A	2006/09/05	ING247 Rev.1.0	Based on SM-5310C
Carbon (Total Inorganic)	6	N/A	2006/09/05	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	6	N/A	2006/08/28		
Carbon (Total Organic)	6	N/A	2006/09/01	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) ☉	6	2006/08/28	2006/08/28	ING 237 Rev 5.0	Based on SM-4500P F
Total Phosphorus	6	N/A	2006/08/28	ING237 Rev.5.0	SM 4500
Total Suspended Solids	6	N/A	2006/08/31	ING444 Rev.2.3	Based on SM-2540 D
Turbidity	6	N/A	2006/08/30	BRN SOP-00021 V2.0	SM - 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) SCC/CAEAL

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 1

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Page 2 of 21

Maxxam Job #: A639217
 Report Date: 2007/01/19

 WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 MINAGO
 Site Reference:
 Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54479	C54480		
Sampling Date		2006/08/22 17:51	2006/08/24 09:17		
COC Number		08186362	08186362		
	Units	MRW-1	OCW-1	RDL	QC Batch

Misc. Inorganics					
Fluoride (F)	mg/L	0.10	0.18	0.01	1253059
Parameter					
Special Analysis	N/A	180	230	1	1256051
Subcontract Parameter	N/A	ATTACHED	ATTACHED	N/A	1260361
Preparation					
Filter and HNO3 Preservation	N/A	Yes	Yes	N/A	1253259
ANIONS					
Nitrite (N)	mg/L	<0.005	<0.005	0.005	1250105
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	170	250	0.5	1251565
Nitrate (N)	mg/L	0.02	<0.02	0.02	1250276
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	170	250	0.5	1250275
Dissolved Organic Carbon (C)	mg/L	16.7	16.8	0.5	1258816
Alkalinity (Total as CaCO3)	mg/L	172	233	0.5	1252907
Total Organic Carbon (C)	mg/L	17.2	16.2	0.5	1256576
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	0.5	1252907
Bicarbonate (HCO3)	mg/L	210	285	0.5	1252907
Carbonate (CO3)	mg/L	<0.5	<0.5	0.5	1252907
Hydroxide (OH)	mg/L	<0.5	<0.5	0.5	1252907
Anions					
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	0.5	1251795
Chloride (Cl)	mg/L	1.2	0.8	0.5	1251804
MISCELLANEOUS					
True Colour	Col. Unit	40	60	5	1252898
Nutrients					
Total Kjeldahl Nitrogen (Calc)	mg/L	0.70	0.54	0.02	1250280
Dissolved Phosphorus (P)	mg/L	0.015	0.007	0.002	1250160
Ammonia (N)	mg/L	0.012	0.005	0.005	1251445
Dissolved Inorganic Carbon (C)	mg/L	37.2	43.6	0.5	1253768
Total Inorganic Carbon (C)	mg/L	36.6	49.5	0.5	1259221
Nitrate plus Nitrite (N)	mg/L	0.02	<0.02	0.02	1250100
RDL = Reportable Detection Limit					

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54479	C54480		
Sampling Date		2006/08/22 17:51	2006/08/24 09:17		
COC Number		08186362	08186362		
	Units	MRW-1	OCW-1	RDL	QC Batch
Total Nitrogen (N)	mg/L	0.73	0.54	0.02	1250131
Total Phosphorus (P)	mg/L	0.011	0.008	0.002	1250170
Physical Properties					
Total Suspended Solids	mg/L	1	1	1	1252488
Turbidity	NTU	1.0	0.5	0.1	1252535
RDL = Reportable Detection Limit					

Maxxam Job #: A639217
 Report Date: 2007/01/19

 WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 MINAGO
 Site Reference:
 Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54481	C54482	C54483		
Sampling Date		2006/08/23 12:24	2006/08/23 14:45	2006/08/23		
COC Number		08186362	08186362	08186362		
	Units	OCW-2A	OCW-3A	DUPLICATE	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.15	0.15	0.16	0.01	1253059
Parameter						
Special Analysis	N/A	260	280	290	1	1256051
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1260361
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1253259
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1250105
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	260	270	270	0.5	1251565
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1250276
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	260	270	270	0.5	1250275
Dissolved Organic Carbon (C)	mg/L	15.9	15.5	15.2	0.5	1258816
Alkalinity (Total as CaCO3)	mg/L	242	253	250	0.5	1252907
Total Organic Carbon (C)	mg/L	16.6	15.3	15.6	0.5	1256576
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1252907
Bicarbonate (HCO3)	mg/L	296	308	305	0.5	1252907
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	0.5	1252907
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	0.5	1252907
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1251795
Chloride (Cl)	mg/L	0.8	0.7	0.7	0.5	1251804
MISCELLANEOUS						
True Colour	Col. Unit	70	60	60	5	1252898
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.50	0.46	0.46	0.02	1250280
Dissolved Phosphorus (P)	mg/L	0.005	0.004	0.004	0.002	1250160
Ammonia (N)	mg/L	<0.005	<0.005	<0.005	0.005	1251445
Dissolved Inorganic Carbon (C)	mg/L	55.5	60.0	60.2	0.5	1259140
Total Inorganic Carbon (C)	mg/L	56	58	56	1	1259221
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1250100
RDL = Reportable Detection Limit						

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54481	C54482	C54483		
Sampling Date		2006/08/23 12:24	2006/08/23 14:45	2006/08/23		
COC Number		08186362	08186362	08186362		
	Units	OCW-2A	OCW-3A	DUPLICATE	RDL	QC Batch
Total Nitrogen (N)	mg/L	0.50	0.46	0.46	0.02	1250131
Total Phosphorus (P)	mg/L	0.005	0.006	0.007	0.002	1250170
Physical Properties						
Total Suspended Solids	mg/L	<1	<1	2	1	1252488
Turbidity	NTU	0.4	0.5	0.4	0.1	1252535
RDL = Reportable Detection Limit						

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54484		
Sampling Date		2006/08/23		
COC Number		08186362		
	Units	TRIP BLANK	RDL	QC Batch

Misc. Inorganics				
Fluoride (F)	mg/L	<0.01	0.01	1253059
Parameter				
Special Analysis	N/A	<1	1	1256051
Subcontract Parameter	N/A	ATTACHED	N/A	1260361
Preparation				
Filter and HNO3 Preservation	N/A	Yes	N/A	1253259
ANIONS				
Nitrite (N)	mg/L	<0.005	0.005	1250105
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	<0.5	0.5	1251565
Nitrate (N)	mg/L	<0.02	0.02	1250276
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	<0.5	0.5	1250275
Dissolved Organic Carbon (C)	mg/L	<0.5	0.5	1258816
Alkalinity (Total as CaCO3)	mg/L	0.8	0.5	1252907
Total Organic Carbon (C)	mg/L	<0.5	0.5	1256576
Alkalinity (PP as CaCO3)	mg/L	<0.5	0.5	1252907
Bicarbonate (HCO3)	mg/L	1.0	0.5	1252907
Carbonate (CO3)	mg/L	<0.5	0.5	1252907
Hydroxide (OH)	mg/L	<0.5	0.5	1252907
Anions				
Dissolved Sulphate (SO4)	mg/L	<0.5	0.5	1251795
Chloride (Cl)	mg/L	<0.5	0.5	1251804
MISCELLANEOUS				
True Colour	Col. Unit	<5	5	1252898
Nutrients				
Total Kjeldahl Nitrogen (Calc)	mg/L	<0.02	0.02	1250280
Dissolved Phosphorus (P)	mg/L	<0.002	0.002	1250160
Ammonia (N)	mg/L	0.007	0.005	1251445
Dissolved Inorganic Carbon (C)	mg/L	<0.5	0.5	1253768
Total Inorganic Carbon (C)	mg/L	0.6	0.5	1259221
Nitrate plus Nitrite (N)	mg/L	<0.02	0.02	1250100
Total Nitrogen (N)	mg/L	<0.02	0.02	1250131
RDL = Reportable Detection Limit				

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C54484		
Sampling Date		2006/08/23		
COC Number		08186362		
	Units	TRIP BLANK	RDL	QC Batch

Total Phosphorus (P)	mg/L	<0.002	0.002	1250170
Physical Properties				
Total Suspended Solids	mg/L	<1	1	1252488
Turbidity	NTU	<0.1	0.1	1252535
RDL = Reportable Detection Limit				

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54479	C54480	C54481		
Sampling Date		2006/08/22 17:51	2006/08/24 09:17	2006/08/23 12:24		
COC Number		08186362	08186362	08186362		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1252672
Total Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1251228
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.018	0.009	0.008	0.008	1251797
Dissolved Calcium (Ca)	mg/L	38.5	57.2	58.8	0.05	1251797
Dissolved Iron (Fe)	mg/L	0.045	0.064	0.122	0.005	1251797
Dissolved Magnesium (Mg)	mg/L	16.9	26.6	27.5	0.05	1251797
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1251797
Dissolved Silicon (Si)	mg/L	3.41	5.63	5.95	0.05	1251797
Dissolved Sodium (Na)	mg/L	5.35	2.63	2.55	0.05	1251797
Dissolved Sulphur (S)	mg/L	0.6	0.4	0.4	0.1	1251797
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1251797
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	mg/L	0.0026	0.0037	0.0035	0.0002	1253061
Dissolved Antimony (Sb)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Arsenic (As)	mg/L	0.0010	0.0006	0.0006	0.0001	1253061
Dissolved Barium (Ba)	mg/L	0.0106	0.0290	0.0324	0.00002	1253061
Dissolved Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Bismuth (Bi)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Cadmium (Cd)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	1253061
Dissolved Chromium (Cr)	mg/L	<0.0002	<0.0002	<0.0002	0.0002	1253061
Dissolved Cobalt (Co)	mg/L	0.00002	<0.00002	<0.00002	0.00002	1253061
Dissolved Copper (Cu)	mg/L	0.0003	0.0003	<0.0001	0.0001	1253061
Dissolved Lead (Pb)	mg/L	0.00002	<0.00002	<0.00002	0.00002	1253061
Dissolved Lithium (Li)	mg/L	0.0042	0.0033	0.0036	0.0002	1253061
Dissolved Manganese (Mn)	mg/L	0.00524	0.00963	0.0103	0.00002	1253061
Dissolved Molybdenum (Mo)	mg/L	0.00007	0.00009	0.00009	0.00002	1253061
Dissolved Nickel (Ni)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Potassium (K)	mg/L	0.43	0.56	0.54	0.05	1253061
Dissolved Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Silver (Ag)	mg/L	<0.00001	<0.00001	0.00002	0.00001	1253061
Dissolved Strontium (Sr)	mg/L	0.0575	0.0561	0.0550	0.00001	1253061
RDL = Reportable Detection Limit						

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54479	C54480	C54481		
Sampling Date		2006/08/22 17:51	2006/08/24 09:17	2006/08/23 12:24		
COC Number		08186362	08186362	08186362		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

Dissolved Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Tin (Sn)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Titanium (Ti)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Uranium (U)	mg/L	0.00010	0.00019	0.00014	0.00001	1253061
Dissolved Vanadium (V)	mg/L	0.00010	<0.00005	<0.00005	0.00005	1253061
Dissolved Zinc (Zn)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Total Metals by ICP						
Total Boron (B)	mg/L	0.016	<0.008	<0.008	0.008	1253560
Total Calcium (Ca)	mg/L	37.3	55.2	57.4	0.05	1253560
Total Iron (Fe)	mg/L	0.115	0.126	0.168	0.005	1253560
Total Magnesium (Mg)	mg/L	16.6	25.5	26.8	0.05	1253560
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1253560
Total Silicon (Si)	mg/L	3.42	5.48	5.84	0.05	1253560
Total Sodium (Na)	mg/L	5.32	2.61	2.57	0.05	1253560
Total Sulphur (S)	mg/L	0.6	0.4	0.4	0.1	1253560
Total Metals by ICPMS						
Total Aluminum (Al)	mg/L	0.0419	0.0393	0.0142	0.0002	1253703
Total Antimony (Sb)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Arsenic (As)	mg/L	0.0009	0.0005	0.0005	0.0001	1253703
Total Barium (Ba)	mg/L	0.0112	0.0289	0.0306	0.00002	1253703
Total Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Bismuth (Bi)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Cadmium (Cd)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	1253703
Total Chromium (Cr)	mg/L	0.0006	0.0005	0.0005	0.0002	1253703
Total Cobalt (Co)	mg/L	0.00007	0.00004	0.00003	0.00002	1253703
Total Copper (Cu)	mg/L	0.0016	0.0009	0.0003	0.0001	1253703
Total Lead (Pb)	mg/L	0.00004	0.00004	<0.00002	0.00002	1253703
Total Lithium (Li)	mg/L	0.0040	0.0034	0.0033	0.0002	1253703
Total Manganese (Mn)	mg/L	0.0195	0.0205	0.0209	0.00002	1253703
Total Molybdenum (Mo)	mg/L	0.00010	0.00011	0.00010	0.00002	1253703
Total Nickel (Ni)	mg/L	0.0010	0.0008	<0.0005	0.0005	1253703
Total Potassium (K)	mg/L	0.45	0.59	0.56	0.05	1253703
Total Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253703

RDL = Reportable Detection Limit

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54479	C54480	C54481		
Sampling Date		2006/08/22 17:51	2006/08/24 09:17	2006/08/23 12:24		
COC Number		08186362	08186362	08186362		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

Total Silver (Ag)	mg/L	0.00004	0.00001	<0.00001	0.00001	1253703
Total Strontium (Sr)	mg/L	0.0594	0.0589	0.0581	0.00001	1253703
Total Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Tin (Sn)	mg/L	0.00005	<0.00005	<0.00005	0.00005	1253703
Total Titanium (Ti)	mg/L	0.0019	0.0018	0.0006	0.0005	1253703
Total Uranium (U)	mg/L	0.00011	0.00021	0.00015	0.00001	1253703
Total Vanadium (V)	mg/L	0.00027	0.00018	0.00009	0.00005	1253703
Total Zinc (Zn)	mg/L	0.0011	0.0010	<0.0005	0.0005	1253703

RDL = Reportable Detection Limit

Maxxam Job #: A639217
 Report Date: 2007/01/19

 WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 MINAGO
 Site Reference:
 Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54482	C54483	C54484		
Sampling Date		2006/08/23 14:45	2006/08/23	2006/08/23		
COC Number		08186362	08186362	08186362		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1252672
Total Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1251228
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	<0.008	0.009	<0.008	0.008	1251797
Dissolved Calcium (Ca)	mg/L	60.3	59.9	<0.05	0.05	1251797
Dissolved Iron (Fe)	mg/L	0.100	0.102	<0.005	0.005	1251797
Dissolved Magnesium (Mg)	mg/L	28.5	28.3	<0.05	0.05	1251797
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1251797
Dissolved Silicon (Si)	mg/L	6.05	5.99	<0.05	0.05	1251797
Dissolved Sodium (Na)	mg/L	2.53	2.54	<0.05	0.05	1251797
Dissolved Sulphur (S)	mg/L	0.4	0.4	<0.1	0.1	1251797
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1251797
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	mg/L	0.0024	0.0028	<0.0002	0.0002	1253061
Dissolved Antimony (Sb)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Arsenic (As)	mg/L	0.0005	0.0005	<0.0001	0.0001	1253061
Dissolved Barium (Ba)	mg/L	0.0318	0.0318	<0.00002	0.00002	1253061
Dissolved Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Bismuth (Bi)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Cadmium (Cd)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	1253061
Dissolved Chromium (Cr)	mg/L	<0.0002	<0.0002	<0.0002	0.0002	1253061
Dissolved Cobalt (Co)	mg/L	<0.00002	<0.00002	<0.00002	0.00002	1253061
Dissolved Copper (Cu)	mg/L	<0.0001	<0.0001	<0.0001	0.0001	1253061
Dissolved Lead (Pb)	mg/L	0.00003	0.00003	<0.00002	0.00002	1253061
Dissolved Lithium (Li)	mg/L	0.0033	0.0036	<0.0002	0.0002	1253061
Dissolved Manganese (Mn)	mg/L	0.00697	0.00728	<0.00002	0.00002	1253061
Dissolved Molybdenum (Mo)	mg/L	0.00008	0.00010	<0.00002	0.00002	1253061
Dissolved Nickel (Ni)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Potassium (K)	mg/L	0.59	0.59	<0.05	0.05	1253061
Dissolved Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Silver (Ag)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	1253061
Dissolved Strontium (Sr)	mg/L	0.0554	0.0560	<0.00001	0.00001	1253061

RDL = Reportable Detection Limit

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54482	C54483	C54484		
Sampling Date		2006/08/23 14:45	2006/08/23	2006/08/23		
COC Number		08186362	08186362	08186362		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch
Dissolved Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Tin (Sn)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Titanium (Ti)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Dissolved Uranium (U)	mg/L	0.00014	0.00014	<0.00001	0.00001	1253061
Dissolved Vanadium (V)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253061
Dissolved Zinc (Zn)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253061
Total Metals by ICP						
Total Boron (B)	mg/L	0.008	0.008	<0.008	0.008	1253560
Total Calcium (Ca)	mg/L	59.5	58.3	<0.05	0.05	1253560
Total Iron (Fe)	mg/L	0.131	0.131	<0.005	0.005	1253560
Total Magnesium (Mg)	mg/L	28.0	27.5	<0.05	0.05	1253560
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1253560
Total Silicon (Si)	mg/L	5.97	5.88	<0.05	0.05	1253560
Total Sodium (Na)	mg/L	2.58	2.54	<0.05	0.05	1253560
Total Sulphur (S)	mg/L	0.4	0.4	<0.1	0.1	1253560
Total Metals by ICPMS						
Total Aluminum (Al)	mg/L	0.0081	0.0082	0.0019	0.0002	1253703
Total Antimony (Sb)	mg/L	<0.00005	0.00008	<0.00005	0.00005	1253703
Total Arsenic (As)	mg/L	0.0004	0.0004	<0.0001	0.0001	1253703
Total Barium (Ba)	mg/L	0.0315	0.0313	0.00004	0.00002	1253703
Total Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Bismuth (Bi)	mg/L	<0.00005	<0.00005	0.00009	0.00005	1253703
Total Cadmium (Cd)	mg/L	<0.00001	<0.00001	<0.00001	0.00001	1253703
Total Chromium (Cr)	mg/L	0.0005	0.0004	0.0006	0.0002	1253703
Total Cobalt (Co)	mg/L	<0.00002	<0.00002	<0.00002	0.00002	1253703
Total Copper (Cu)	mg/L	0.0003	0.0003	0.0001	0.0001	1253703
Total Lead (Pb)	mg/L	<0.00002	<0.00002	<0.00002	0.00002	1253703
Total Lithium (Li)	mg/L	0.0033	0.0035	<0.0002	0.0002	1253703
Total Manganese (Mn)	mg/L	0.0138	0.0134	0.00007	0.00002	1253703
Total Molybdenum (Mo)	mg/L	0.00010	0.00011	<0.00002	0.00002	1253703
Total Nickel (Ni)	mg/L	0.0005	0.0005	<0.0005	0.0005	1253703
Total Potassium (K)	mg/L	0.61	0.61	<0.05	0.05	1253703
Total Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253703
RDL = Reportable Detection Limit						

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C54482	C54483	C54484		
Sampling Date		2006/08/23 14:45	2006/08/23	2006/08/23		
COC Number		08186362	08186362	08186362		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch
Total Silver (Ag)	mg/L	<0.00001	<0.00001	0.00001	0.00001	1253703
Total Strontium (Sr)	mg/L	0.0608	0.0601	0.00002	0.00001	1253703
Total Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Tin (Sn)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1253703
Total Titanium (Ti)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1253703
Total Uranium (U)	mg/L	0.00015	0.00015	0.00001	0.00001	1253703
Total Vanadium (V)	mg/L	0.00008	0.00007	<0.00005	0.00005	1253703
Total Zinc (Zn)	mg/L	<0.0005	<0.0005	0.0005	0.0005	1253703
RDL = Reportable Detection Limit						

Maxxam Job #: A639217
Report Date: 2007/01/19

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

General Comments

GSSPEC = Total Dissolved Solids

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

SPIKE GS Special Analysis: in mg/L TDS, recovery for matrix spike of C54483 is 92 %

BLANK GS Special Analysis: in mg/L TDS

Sample C54479-01 GS Special Analysis: in mg/L TDS

Sample C54480-01 GS Special Analysis: in mg/L TDS

Sample C54481-01 GS Special Analysis: in mg/L TDS

Sample C54482-01 GS Special Analysis: in mg/L TDS

Sample C54483-01 GS Special Analysis: in mg/L TDS

Sample C54484-01 GS Special Analysis: in mg/L TDS, 250 mL was used

Results relate only to the items tested.

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report
Maxxam Job Number: VA639217

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits	
Num Init			yyyy/mm/dd					
1250100 BH2	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/08/28		99	%	80 - 120	
	SPIKE	Nitrate plus Nitrite (N)	2006/08/28		102	%	80 - 120	
	BLANK	Nitrate plus Nitrite (N)	2006/08/28	<0.02		mg/L		
	RPD [C54484-01]	Nitrate plus Nitrite (N)	2006/08/28	NC		%	25	
1250105 BH2	MATRIX SPIKE	Nitrite (N)	2006/08/28		95	%	80 - 120	
	SPIKE	Nitrite (N)	2006/08/28		96	%	80 - 120	
	BLANK	Nitrite (N)	2006/08/28	<0.005		mg/L		
	RPD [C54484-01]	Nitrite (N)	2006/08/28	NC		%	25	
1250131 BH2	MATRIX SPIKE	Total Nitrogen (N)	2006/08/30		102	%	80 - 120	
	SPIKE	Total Nitrogen (N)	2006/08/30		106	%	80 - 120	
	BLANK	Total Nitrogen (N)	2006/08/30	<0.02		mg/L		
	RPD [C54480-01]	Total Nitrogen (N)	2006/08/30	0		%	25	
1250160 CMP	RPD [C54484-01]	Total Nitrogen (N)	2006/08/30	NC		%	25	
	MATRIX SPIKE							
	[C54484-01]	Dissolved Phosphorus (P)	2006/08/28		95	%	80 - 120	
	SPIKE	Dissolved Phosphorus (P)	2006/08/28		89	%	80 - 120	
1250170 CMP	BLANK	Dissolved Phosphorus (P)	2006/08/28	0.003, RDL=0.002		mg/L		
	RPD [C54480-01]	Dissolved Phosphorus (P)	2006/08/28	NC		%	20	
	RPD [C54484-01]	Dissolved Phosphorus (P)	2006/08/28	NC		%	20	
	MATRIX SPIKE							
1251228 GS2	[C54484-01]	Total Phosphorus (P)	2006/08/28		113	%	80 - 120	
	SPIKE	Total Phosphorus (P)	2006/08/28		100	%	80 - 120	
	BLANK	Total Phosphorus (P)	2006/08/28	<0.002		mg/L		
	RPD [C54484-01]	Total Phosphorus (P)	2006/08/28	NC		%	25	
1251445 CMP	MATRIX SPIKE							
	[C54484-01]	Total Mercury (Hg)	2006/08/29		101	%	70 - 130	
	QC STANDARD	Total Mercury (Hg)	2006/08/29		105	%	N/A	
	SPIKE	Total Mercury (Hg)	2006/08/29		103	%	80 - 120	
1251795 SC2	BLANK	Total Mercury (Hg)	2006/08/29	<0.05		ug/L		
	RPD [C54484-01]	Total Mercury (Hg)	2006/08/29	NC		%	25	
	MATRIX SPIKE	Ammonia (N)	2006/08/29		102	%	80 - 120	
	SPIKE	Ammonia (N)	2006/08/29		103	%	80 - 120	
1251797 KL1	BLANK	Ammonia (N)	2006/08/29	<0.005		mg/L		
	RPD	Ammonia (N)	2006/08/29	NC		%	25	
	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/08/29		364 (t)	%	75 - 125	
	SPIKE	Dissolved Sulphate (SO4)	2006/08/29		90	%	80 - 120	
1251804 SC2	BLANK	Dissolved Sulphate (SO4)	2006/08/29	0.8, RDL=0.5		mg/L		
	RPD	Dissolved Sulphate (SO4)	2006/08/29	NC (t)		%	20	
	BLANK	Dissolved Boron (B)	2006/08/30	<0.008		mg/L		
		Dissolved Calcium (Ca)	2006/08/30	<0.05		mg/L		
		Dissolved Iron (Fe)	2006/08/30	<0.005		mg/L		
		Dissolved Magnesium (Mg)	2006/08/30	<0.05		mg/L		
		Dissolved Phosphorus (P)	2006/08/30	<0.1		mg/L		
		Dissolved Silicon (Si)	2006/08/30	<0.05		mg/L		
		Dissolved Sodium (Na)	2006/08/30	<0.05		mg/L		
		Dissolved Sulphur (S)	2006/08/30	<0.1		mg/L		
		Dissolved Zirconium (Zr)	2006/08/30	<0.005		mg/L		
		RPD	Dissolved Calcium (Ca)	2006/08/30	1		%	25
			Dissolved Magnesium (Mg)	2006/08/30	1.3		%	25
			Dissolved Sodium (Na)	2006/08/30	0.6		%	25
1252488 WAY	MATRIX SPIKE	Chloride (Cl)	2006/08/29		109	%	80 - 120	
	SPIKE	Chloride (Cl)	2006/08/29		103	%	80 - 120	
	BLANK	Chloride (Cl)	2006/08/29	<0.5		mg/L		
	RPD	Chloride (Cl)	2006/08/29	1		%	20	
	SPIKE	Total Suspended Solids	2006/08/31		102	%	N/A	

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA639217

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
Num Init			yyyy/mm/dd				
1252488 WAY	BLANK	Total Suspended Solids	2006/08/31	<1		mg/L	
1252535 CK	SPIKE	Turbidity	2006/08/30		101	%	80 - 120
	BLANK	Turbidity	2006/08/30	<0.1		NTU	
	RPD	Turbidity	2006/08/30	NC		%	25
1252672 GS2	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/08/30		112	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/08/30		92	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/08/30		102	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/08/30	<0.05		ug/L	
	RPD	Dissolved Mercury (Hg)	2006/08/30	NC		%	25
1252907 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/08/30		95	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/08/30		103	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/08/30	0.8, RDL=0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/08/30	<0.5		mg/L	
		Bicarbonate (HCO3)	2006/08/30	1.0, RDL=0.5		mg/L	
		Carbonate (CO3)	2006/08/30	<0.5		mg/L	
		Hydroxide (OH)	2006/08/30	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2006/08/30	19.6		%	25
		Alkalinity (PP as CaCO3)	2006/08/30	NC		%	25
		Bicarbonate (HCO3)	2006/08/30	19.5		%	25
		Carbonate (CO3)	2006/08/30	NC		%	25
		Hydroxide (OH)	2006/08/30	NC		%	25
1253059 TS1	MATRIX SPIKE	Fluoride (F)	2006/08/30		103	%	80 - 120
	SPIKE	Fluoride (F)	2006/08/30		96	%	80 - 120
	BLANK	Fluoride (F)	2006/08/30	<0.01		mg/L	
1253061 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2006/08/30		106	%	75 - 125
	[C54479-01]	Dissolved Cadmium (Cd)	2006/08/30		97	%	75 - 125
		Dissolved Chromium (Cr)	2006/08/30		92	%	75 - 125
		Dissolved Cobalt (Co)	2006/08/30		92	%	75 - 125
		Dissolved Copper (Cu)	2006/08/30		93	%	75 - 125
		Dissolved Lead (Pb)	2006/08/30		101	%	75 - 125
		Dissolved Selenium (Se)	2006/08/30		111	%	75 - 125
		Dissolved Thallium (Tl)	2006/08/30		98	%	75 - 125
		Dissolved Zinc (Zn)	2006/08/30		101	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2006/08/30		91	%	75 - 125
		Dissolved Cadmium (Cd)	2006/08/30		90	%	75 - 125
		Dissolved Chromium (Cr)	2006/08/30		105	%	75 - 125
		Dissolved Cobalt (Co)	2006/08/30		102	%	75 - 125
		Dissolved Copper (Cu)	2006/08/30		100	%	75 - 125
		Dissolved Lead (Pb)	2006/08/30		107	%	75 - 125
		Dissolved Selenium (Se)	2006/08/30		93	%	75 - 125
		Dissolved Thallium (Tl)	2006/08/30		101	%	75 - 125
		Dissolved Zinc (Zn)	2006/08/30		86	%	75 - 125
	BLANK	Dissolved Aluminum (Al)	2006/08/30	<0.2		ug/L	
		Dissolved Antimony (Sb)	2006/08/30	<0.05		ug/L	
		Dissolved Arsenic (As)	2006/08/30	<0.1		ug/L	
		Dissolved Barium (Ba)	2006/08/30	<0.02		ug/L	
		Dissolved Beryllium (Be)	2006/08/30	<0.05		ug/L	
		Dissolved Bismuth (Bi)	2006/08/30	<0.05		ug/L	
		Dissolved Cadmium (Cd)	2006/08/30	<0.01		ug/L	
		Dissolved Chromium (Cr)	2006/08/30	<0.2		ug/L	
		Dissolved Cobalt (Co)	2006/08/30	<0.02		ug/L	
		Dissolved Copper (Cu)	2006/08/30	<0.1		ug/L	
		Dissolved Lead (Pb)	2006/08/30	<0.02		ug/L	
		Dissolved Lithium (Li)	2006/08/30	<0.2		ug/L	

WARDROP ENGINEERING INC.
 Attention: Alison Reineke
 Client Project #: 06513302.00 MINAGO
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA639217

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits		
Num Init			yyyy/mm/dd						
1253061 AA1	BLANK	Dissolved Manganese (Mn)	2006/08/30	<0.02		ug/L			
		Dissolved Molybdenum (Mo)	2006/08/30	<0.02		ug/L			
		Dissolved Nickel (Ni)	2006/08/30	<0.5		ug/L			
		Dissolved Potassium (K)	2006/08/30	<50		ug/L			
		Dissolved Selenium (Se)	2006/08/30	<0.5		ug/L			
		Dissolved Silver (Ag)	2006/08/30	<0.01		ug/L			
		Dissolved Strontium (Sr)	2006/08/30	<0.01		ug/L			
		Dissolved Thallium (Tl)	2006/08/30	<0.05		ug/L			
		Dissolved Tin (Sn)	2006/08/30	<0.05		ug/L			
		Dissolved Titanium (Ti)	2006/08/30	<0.5		ug/L			
		Dissolved Uranium (U)	2006/08/30	<0.01		ug/L			
		Dissolved Vanadium (V)	2006/08/30	<0.05		ug/L			
		Dissolved Zinc (Zn)	2006/08/30	<0.5		ug/L			
		RPD [C54479-01]		Dissolved Aluminum (Al)	2006/08/30	6.3		%	25
				Dissolved Antimony (Sb)	2006/08/30	NC		%	25
				Dissolved Arsenic (As)	2006/08/30	4.3		%	25
				Dissolved Barium (Ba)	2006/08/30	0.4		%	25
				Dissolved Beryllium (Be)	2006/08/30	NC		%	25
				Dissolved Bismuth (Bi)	2006/08/30	NC		%	25
				Dissolved Cadmium (Cd)	2006/08/30	NC		%	25
				Dissolved Chromium (Cr)	2006/08/30	NC		%	25
				Dissolved Cobalt (Co)	2006/08/30	NC		%	25
				Dissolved Copper (Cu)	2006/08/30	NC		%	25
				Dissolved Lead (Pb)	2006/08/30	NC		%	25
				Dissolved Lithium (Li)	2006/08/30	3.0		%	25
				Dissolved Manganese (Mn)	2006/08/30	1.3		%	25
				Dissolved Molybdenum (Mo)	2006/08/30	NC		%	25
				Dissolved Nickel (Ni)	2006/08/30	NC		%	25
				Dissolved Potassium (K)	2006/08/30	1.7		%	25
				Dissolved Selenium (Se)	2006/08/30	NC		%	25
				Dissolved Silver (Ag)	2006/08/30	NC		%	25
				Dissolved Strontium (Sr)	2006/08/30	0.6		%	25
				Dissolved Thallium (Tl)	2006/08/30	NC		%	25
Dissolved Tin (Sn)	2006/08/30			NC		%	25		
Dissolved Titanium (Ti)	2006/08/30			NC		%	25		
Dissolved Uranium (U)	2006/08/30			1		%	25		
Dissolved Vanadium (V)	2006/08/30			NC		%	25		
Dissolved Zinc (Zn)	2006/08/30			NC		%	25		
1253560 KL1	BLANK			Total Boron (B)	2006/08/31	<0.008		mg/L	
				Total Calcium (Ca)	2006/08/31	<0.05		mg/L	
		Total Iron (Fe)	2006/08/31	<0.005		mg/L			
		Total Magnesium (Mg)	2006/08/31	<0.05		mg/L			
		Total Phosphorus (P)	2006/08/31	<0.1		mg/L			
		Total Silicon (Si)	2006/08/31	<0.05		mg/L			
		Total Sodium (Na)	2006/08/31	<0.05		mg/L			
		Total Sulphur (S)	2006/08/31	<0.1		mg/L			
		RPD [C54479-01]		Total Boron (B)	2006/08/31	NC		%	25
				Total Calcium (Ca)	2006/08/31	0.4		%	25
				Total Iron (Fe)	2006/08/31	2.8		%	25
				Total Magnesium (Mg)	2006/08/31	0.5		%	25
				Total Phosphorus (P)	2006/08/31	NC		%	25
				Total Silicon (Si)	2006/08/31	0.7		%	25
				Total Sodium (Na)	2006/08/31	0.3		%	25
				Total Sulphur (S)	2006/08/31	2.0		%	25
1253703 AA1	MATRIX SPIKE [C54479-01]	Total Arsenic (As)	2006/08/30		112	%	75 - 125		

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA639217

QA/QC Batch Num Inrt	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1253703 AA1	MATRIX SPIKE [C54479-01]	Total Cadmium (Cd)	2006/08/30		103	%	75 - 125	
		Total Chromium (Cr)	2006/08/30		112	%	75 - 125	
		Total Cobalt (Co)	2006/08/30		114	%	75 - 125	
		Total Copper (Cu)	2006/08/30		107	%	75 - 125	
		Total Lead (Pb)	2006/08/30		114	%	75 - 125	
		Total Selenium (Se)	2006/08/30		112	%	75 - 125	
		Total Thallium (Tl)	2006/08/30		113	%	75 - 125	
		Total Zinc (Zn)	2006/08/30		108	%	75 - 125	
		SPIKE	Total Arsenic (As)	2006/08/30		100	%	75 - 125
			Total Cadmium (Cd)	2006/08/30		96	%	75 - 125
			Total Chromium (Cr)	2006/08/30		116	%	75 - 125
			Total Cobalt (Co)	2006/08/30		116	%	75 - 125
	Total Copper (Cu)		2006/08/30		114	%	75 - 125	
	Total Lead (Pb)		2006/08/30		111	%	75 - 125	
	Total Selenium (Se)		2006/08/30		100	%	75 - 125	
	Total Thallium (Tl)		2006/08/30		109	%	75 - 125	
	Total Zinc (Zn)		2006/08/30		99	%	75 - 125	
	BLANK		Total Aluminum (Al)	2006/08/30		<0.2		ug/L
		Total Antimony (Sb)	2006/08/30		<0.05		ug/L	
		Total Arsenic (As)	2006/08/30		<0.1		ug/L	
		Total Barium (Ba)	2006/08/30		<0.02		ug/L	
		Total Beryllium (Be)	2006/08/30		<0.05		ug/L	
		Total Bismuth (Bi)	2006/08/30		<0.05		ug/L	
		Total Cadmium (Cd)	2006/08/30		<0.01		ug/L	
		Total Chromium (Cr)	2006/08/30		<0.2		ug/L	
		Total Cobalt (Co)	2006/08/30		<0.02		ug/L	
		Total Copper (Cu)	2006/08/30		<0.1		ug/L	
		Total Lead (Pb)	2006/08/30		<0.02		ug/L	
		Total Lithium (Li)	2006/08/30		<0.2		ug/L	
		Total Manganese (Mn)	2006/08/30		<0.02		ug/L	
		Total Molybdenum (Mo)	2006/08/30		<0.02		ug/L	
		Total Nickel (Ni)	2006/08/30		<0.5		ug/L	
		Total Potassium (K)	2006/08/30		<50		ug/L	
		Total Selenium (Se)	2006/08/30		<0.5		ug/L	
		Total Silver (Ag)	2006/08/30		<0.01		ug/L	
		Total Strontium (Sr)	2006/08/30		<0.01		ug/L	
		Total Thallium (Tl)	2006/08/30		<0.05		ug/L	
		Total Tin (Sn)	2006/08/30		<0.05		ug/L	
		Total Titanium (Ti)	2006/08/30		<0.5		ug/L	
		Total Uranium (U)	2006/08/30		<0.01		ug/L	
		Total Vanadium (V)	2006/08/30		<0.05		ug/L	
		Total Zinc (Zn)	2006/08/30		<0.5		ug/L	
RPD [C54479-01]		Total Aluminum (Al)	2006/08/30		5.0		%	25
		Total Antimony (Sb)	2006/08/30		NC		%	25
		Total Arsenic (As)	2006/08/30		2.5		%	25
		Total Barium (Ba)	2006/08/30		0.5		%	25
		Total Beryllium (Be)	2006/08/30		NC		%	25
		Total Bismuth (Bi)	2006/08/30		NC		%	25
		Total Cadmium (Cd)	2006/08/30		NC		%	25
		Total Chromium (Cr)	2006/08/30		NC		%	25
		Total Cobalt (Co)	2006/08/30		NC		%	25
	Total Copper (Cu)	2006/08/30		3.6		%	25	
	Total Lead (Pb)	2006/08/30		NC		%	25	
	Total Lithium (Li)	2006/08/30		3.0		%	25	

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA639217

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1253703 AA1	RPD [C54479-01]	Total Manganese (Mn)	2006/08/30	1.9		%	25
		Total Molybdenum (Mo)	2006/08/30	NC		%	25
		Total Nickel (Ni)	2006/08/30	NC		%	25
		Total Potassium (K)	2006/08/30	2.3		%	25
		Total Selenium (Se)	2006/08/30	NC		%	25
		Total Silver (Ag)	2006/08/30	NC		%	25
		Total Strontium (Sr)	2006/08/30	1.8		%	25
		Total Thallium (Tl)	2006/08/30	NC		%	25
		Total Tin (Sn)	2006/08/30	NC		%	25
		Total Titanium (Ti)	2006/08/30	NC		%	25
		Total Uranium (U)	2006/08/30	1.8		%	25
		Total Vanadium (V)	2006/08/30	3.0		%	25
		Total Zinc (Zn)	2006/08/30	NC		%	25
		1253768 SC2	MATRIX SPIKE	Dissolved Inorganic Carbon (C)	2006/08/30		118
SPIKE	2006/08/30				98	%	80 - 120
BLANK	2006/08/30			0.7, RDL=0.5		mg/L	
1256051 WAY	RPD [C54480-01]	Dissolved Inorganic Carbon (C)	2006/08/30	5.1		%	25
		SPIKE	2006/09/01		110	%	N/A
		BLANK	2006/09/01	2, RDL=1		N/A	
1256576 TG1	RPD [C54483-01]	Special Analysis	2006/09/01	4.3		%	N/A
		MATRIX SPIKE	2006/09/01		92	%	80 - 120
		SPIKE	2006/09/01		108	%	80 - 120
1258816 TG1	BLANK	Total Organic Carbon (C)	2006/09/01	<0.5		mg/L	
		SPIKE	2006/09/01	0.2		%	20
		RPD [C54482-01]	2006/09/01			%	80 - 120
1259140 TG1	MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/09/05		105	%	80 - 120
		SPIKE	2006/09/05		115	%	80 - 120
		BLANK	2006/09/05	<0.5		mg/L	
1259221 TG1	RPD [C54483-01]	Dissolved Organic Carbon (C)	2006/09/05	4.2		%	20
		MATRIX SPIKE	2006/09/05		96	%	80 - 120
		SPIKE	2006/09/05		114	%	80 - 120
1259221 TG1	BLANK	Dissolved Inorganic Carbon (C)	2006/09/05	<0.5		mg/L	
		SPIKE	2006/09/05	0.5		%	25
		RPD [C54483-01]	2006/09/05			%	80 - 120
1259221 TG1	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/09/05		85	%	80 - 120
		SPIKE	2006/09/05		113	%	80 - 120
		BLANK	2006/09/05	<0.5		mg/L	
1259221 TG1	RPD	Total Inorganic Carbon (C)	2006/09/05	4.3		%	25

N/A = Not Applicable
NC = Non-calculable
RPD = Relative Percent Difference

1) Matrix spike exceeds acceptance limits due to matrix interference. Re-analysis yields similar results.

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511



ANALYSIS REPORT

Becquerel Laboratories Inc.
6790 Kitimat Rd., Unit 4
Mississauga, Ontario
Canada, L5N 5L9

Phone: (905) 826-3080
FAX: (905) 826-4151

Batch: T06-01097.0

Date: 06-Sep-2006

Maxxam Analytics Inc

8577 Commerce Court
Burnaby, B.C., V5A 4N5

Phone: (604) 444-4808
FAX: (604) 444-4511

Client Ref. A639217

6 water samples

Received: 29-Aug-2006

Page 1 of 1


Sample	Results of Analysis		Units	Date	Method
	Test	Result			
Sampled: 22-Aug-2006 C54479-01R \ MRW-1	Ra-226 <	0.01	Bq/l	02-Sep-2006	ALPHA
Sampled: 24-Aug-2006 C54480-01R \ OCW-1	Ra-226 <	0.01	Bq/l	04-Sep-2006	ALPHA
Sampled: 23-Aug-2006 C54481-01R \ OCW-2A	Ra-226 <	0.01	Bq/l	04-Sep-2006	ALPHA
C54482-01R \ OCW-3A	Ra-226 <	0.01	Bq/l	04-Sep-2006	ALPHA
C54483-01R \ DUPLICATE	Ra-226 <	0.01	Bq/l	04-Sep-2006	ALPHA
C54484-01R \ TRIP BLANK	Ra-226 <	0.01	Bq/l	04-Sep-2006	ALPHA

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

Units: Bq/l Becquerels per litre

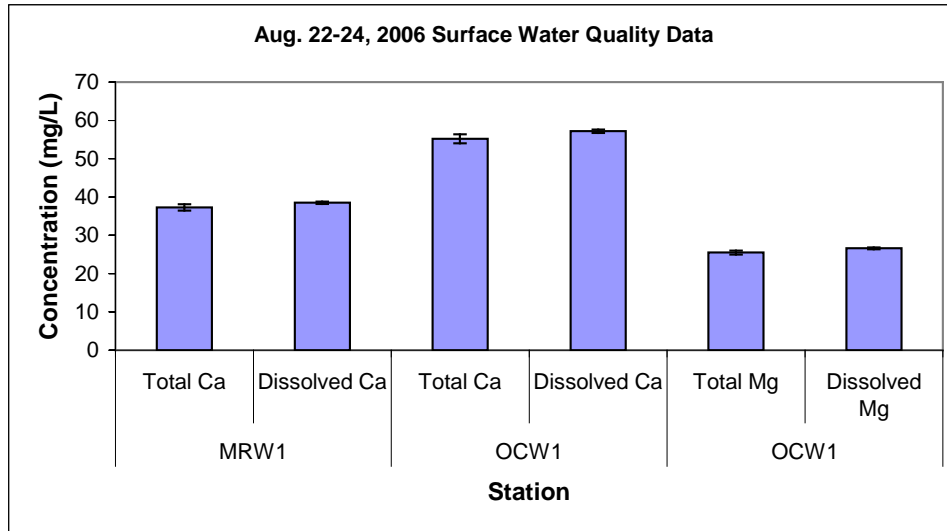
These results relate only to the samples analysed and only to the items tested.
These results have not been corrected for blanks.

06-Sep-2006 approved by:


Donald D. Burgess PhD
Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.

Aug. 22-24, 2006 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations



APPENDIX L7.5-G

Certified Laboratory Reports for Surface Water Quality

September 2006 Results

Your Project #: 06513302.00 MINAGO
Your C.O.C. #: 08186372

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2006/10/24

This report dated: 2006/10/24 supersedes previous report dated: 2006/10/13

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A644698

Received: 2006/09/22, 9:00

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	6	2006/09/28	2006/09/28	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry @	6	N/A	2006/09/28	BRN-SOP 00116	Based on EPA 325.2
Colour (True)	6	N/A	2006/09/29	ING250 Rev 1.0	Based on SM-2120B
Carbon (DOC)	6	N/A	2006/09/27	ING211 Rev. 2.4	Based on SM-5310C
Fluoride	6	N/A	2006/09/28	ING222 Rev.4.2	SM - 4500 F C
GS Special Analysis	6	N/A	2006/09/28		
Hardness Total (calculated as CaCO3)	6	N/A	2006/09/26		
Hardness (calculated as CaCO3)	6	N/A	2006/09/26		
Mercury (Dissolved)	6	2006/09/28	2006/09/28	ING143 Rev.6.2	Based on EPA 245.1
Mercury (Total)	6	2006/09/29	2006/09/29	ING143 Rev.6.2	Based on EPA 245.1
Elements by ICP-AES (dissolved)	6	2006/09/28	2006/09/28	ING101 Rev.4.0	Based on EPA 6010B
Elements by ICPMS (dissolved) @	6	2006/09/27	2006/09/27	BRN SOP-00042	Based on EPA 200.8
Elements by ICPMS (total) @	6	N/A	2006/09/29	BRN SOP-00042	Based on EPA 200.8
Elements by ICP-AES (total)	6	N/A	2006/09/30	ING101 Rev 4.0	Based on EPA 6010B
Nitrogen (Total)	6	2006/09/27	2006/09/27	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	6	N/A	2006/09/28	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate + Nitrite (N)	6	N/A	2006/09/27	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	6	N/A	2006/09/27	BRN SOP-00023	EPA 353.2
Nitrogen - Nitrate (as N)	6	N/A	2006/09/26		
Filter and HNO3 Preserve for Metals	6	2006/09/28	2006/09/28	BRn WI-00006	Based on EPA 200.2
Sulphate by Automated Colourimetry @	6	N/A	2006/09/28	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	6	N/A	2006/10/06		
Carbon (DIC)	6	N/A	2006/09/25	ING247 Rev.1.0	Based on SM-5310C
Carbon (Total Inorganic)	6	N/A	2006/09/25	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	6	N/A	2006/09/26		
Carbon (Total Organic)	6	N/A	2006/09/27	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) @	6	2006/09/26	2006/09/29	ING 237 Rev 5.0	Based on SM-4500P F
Total Phosphorus	6	N/A	2006/09/29	ING237 Rev.5.0	SM 4500
Total Suspended Solids	6	N/A	2006/09/27	ING444 Rev.2.3	Based on SM-2540 D
Turbidity	6	N/A	2006/09/26	BRN SOP-00021	SM - 2130B

(1) SCC/CAEAL

Your Project #: 06513302.00 MINAGO
Your C.O.C. #: 08186372

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2006/10/24

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext.253

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C89596	C89627	C89628		
Sampling Date		2006/09/19 16:20	2006/09/19 18:00	2006/09/20 11:40		
COC Number		08186372	08186372	08186372		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.09	0.10	0.10	0.01	1288667
Parameter						
Special Analysis	N/A	180	220	220	1	1285442
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1299134
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1288718
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1286944
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	160	220	230	0.5	1284608
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1284489
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	160	220	230	0.5	1284487
Dissolved Organic Carbon (C)	mg/L	16.5	14.5	13.4	0.5	1286618
Alkalinity (Total as CaCO3)	mg/L	150	199	206	0.5	1287755
Total Organic Carbon (C)	mg/L	18.3	16.2	14.6	0.5	1286532
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1287755
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1288167
Chloride (Cl)	mg/L	1.6	1.2	1.0	0.5	1288171
MISCELLANEOUS						
True Colour	Col. Unit	50	50	50	5	1289702
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.64	0.44	0.39	0.02	1284504
Dissolved Phosphorus (P)	mg/L	0.013	0.007	0.004	0.002	1284712
Ammonia (N)	mg/L	0.012	0.023	0.058	0.005	1288637
Dissolved Inorganic Carbon (C)	mg/L	32.9	45.6	46.6	0.5	1283144
Total Inorganic Carbon (C)	mg/L	34.9	45.5	47.0	0.5	1283156
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1286936
Total Nitrogen (N)	mg/L	0.64	0.44	0.39	0.02	1286964
Total Phosphorus (P)	mg/L	0.013	0.013	0.005	0.002	1284725
Physical Properties						
Total Suspended Solids	mg/L	1	23	1	1	1284699
RDL = Reportable Detection Limit						

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C89596	C89627	C89628		
Sampling Date		2006/09/19 16:20	2006/09/19 18:00	2006/09/20 11:40		
COC Number		08186372	08186372	08186372		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

Turbidity	NTU	1.1	6.8	0.2	0.1	1283861
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RDL = Reportable Detection Limit

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C89629	C89630	C89638		
Sampling Date		2006/09/20 14:00	2006/09/19 18:00	2006/09/19		
COC Number		08186372	08186372	08186372		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	0.10	0.11	<0.01	0.01	1288667
Parameter						
Special Analysis	N/A	230	230	1	1	1285442
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1299134
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1288718
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1286944
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	230	220	<0.5	0.5	1284608
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1284489
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	230	220	<0.5	0.5	1284487
Dissolved Organic Carbon (C)	mg/L	13.1	14.5	<0.5	0.5	1286618
Alkalinity (Total as CaCO3)	mg/L	209	201	<0.5	0.5	1287755
Total Organic Carbon (C)	mg/L	13.0	15.9	<0.5	0.5	1286532
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1287755
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1288167
Chloride (Cl)	mg/L	<0.5	0.7	<0.5	0.5	1288171
MISCELLANEOUS						
True Colour	Col. Unit	40	50	<5	5	1289702
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.36	0.49	<0.02	0.02	1284504
Dissolved Phosphorus (P)	mg/L	0.004	0.009	<0.002	0.002	1284712
Ammonia (N)	mg/L	<0.005	<0.005	0.005	0.005	1288637
Dissolved Inorganic Carbon (C)	mg/L	47.9	44.6	<0.5	0.5	1283144
Total Inorganic Carbon (C)	mg/L	47.9	44.0	<0.5	0.5	1283156
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1286936
Total Nitrogen (N)	mg/L	0.36	0.49	<0.02	0.02	1286964
Total Phosphorus (P)	mg/L	0.004	0.010	<0.002	0.002	1284725
Physical Properties						
Total Suspended Solids	mg/L	<1	12	<1	1	1284699
RDL = Reportable Detection Limit						

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		C89629	C89630	C89638		
Sampling Date		2006/09/20 14:00	2006/09/19 18:00	2006/09/19		
COC Number		08186372	08186372	08186372		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch
Turbidity	NTU	0.2	6.8	<0.1	0.1	1283861
RDL = Reportable Detection Limit						

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89596	C89627		
Sampling Date		2006/09/19 16:20	2006/09/19 18:00		
COC Number		08186372	08186372		
	Units	MRW-1	OCW-1	RDL	QC Batch

Low Level Elements					
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	0.05	1287624
Total Mercury (Hg)	ug/L	<0.05	<0.05	0.05	1289418
Dissolved Metals by ICP					
Dissolved Boron (B)	mg/L	0.016	<0.008	0.008	1287059
Dissolved Calcium (Ca)	mg/L	37.1	48.4	0.05	1287059
Dissolved Iron (Fe)	mg/L	0.029	0.032	0.005	1287059
Dissolved Magnesium (Mg)	mg/L	16.2	23.6	0.05	1287059
Dissolved Silicon (Si)	mg/L	4.61	5.21	0.05	1287059
Dissolved Sodium (Na)	mg/L	6.24	2.69	0.05	1287059
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	3.4	2.5	0.2	1286163
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	0.05	1286163
Dissolved Arsenic (As)	ug/L	1.0	0.6	0.1	1286163
Dissolved Barium (Ba)	ug/L	11.0	23.8	0.02	1286163
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	0.05	1286163
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	1286163
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	1286163
Dissolved Chromium (Cr)	ug/L	<1 (1)	<1 (1)	1	1286163
Dissolved Cobalt (Co)	ug/L	0.02	<0.02	0.02	1286163
Dissolved Copper (Cu)	ug/L	0.3	0.3	0.1	1286163
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	0.02	1286163
Dissolved Lithium (Li)	ug/L	3.7	3.1	0.2	1286163
Dissolved Manganese (Mn)	ug/L	0.36	1.75	0.02	1286163
Dissolved Molybdenum (Mo)	ug/L	0.10	0.08	0.02	1286163
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	0.5	1286163
Dissolved Potassium (K)	ug/L	653	910	50	1286163
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	0.5	1286163
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	0.01	1286163
Dissolved Strontium (Sr)	ug/L	55.7	47.9	0.01	1286163
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	0.05	1286163
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	0.05	1286163
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	0.5	1286163
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.					

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89596	C89627		
Sampling Date		2006/09/19 16:20	2006/09/19 18:00		
COC Number		08186372	08186372		
	Units	MRW-1	OCW-1	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.12	0.15	0.01	1286163
Dissolved Vanadium (V)	ug/L	0.27	0.17	0.05	1286163
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	0.5	1286163
Total Metals by ICP					
Total Boron (B)	mg/L	0.016	<0.008	0.008	1290994
Total Calcium (Ca)	mg/L	36.4	48.3	0.05	1290994
Total Iron (Fe)	mg/L	0.086	0.515	0.005	1290994
Total Magnesium (Mg)	mg/L	15.7	23.1	0.05	1290994
Total Silicon (Si)	mg/L	4.56	5.81	0.05	1290994
Total Sodium (Na)	mg/L	6.06	2.64	0.05	1290994
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	52.8	394	0.2	1289956
Total Antimony (Sb)	ug/L	<0.05	<0.05	0.05	1289956
Total Arsenic (As)	ug/L	0.8	0.4	0.1	1289956
Total Barium (Ba)	ug/L	12.0	26.6	0.02	1289956
Total Beryllium (Be)	ug/L	<0.05	<0.05	0.05	1289956
Total Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	1289956
Total Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	1289956
Total Chromium (Cr)	ug/L	0.9	1.6	0.2	1289956
Total Cobalt (Co)	ug/L	0.10	0.25	0.02	1289956
Total Copper (Cu)	ug/L	0.3	0.5	0.1	1289956
Total Lead (Pb)	ug/L	0.04	0.20	0.02	1289956
Total Lithium (Li)	ug/L	3.8	3.5	0.2	1289956
Total Manganese (Mn)	ug/L	5.53	26.7	0.02	1289956
Total Molybdenum (Mo)	ug/L	0.08	0.09	0.02	1289956
Total Nickel (Ni)	ug/L	0.6	1.0	0.5	1289956
Total Potassium (K)	ug/L	705	1040	50	1289956
Total Selenium (Se)	ug/L	<0.5	<0.5	0.5	1289956
Total Silver (Ag)	ug/L	0.01	0.01	0.01	1289956
Total Strontium (Sr)	ug/L	57.1	49.8	0.01	1289956
Total Thallium (Tl)	ug/L	<0.05	<0.05	0.05	1289956
Total Tin (Sn)	ug/L	<0.05	<0.05	0.05	1289956
Total Titanium (Ti)	ug/L	2.0	19.6	0.5	1289956
RDL = Reportable Detection Limit					

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89596	C89627		
Sampling Date		2006/09/19 16:20	2006/09/19 18:00		
COC Number		08186372	08186372		
	Units	MRW-1	OCW-1	RDL	QC Batch
Total Uranium (U)	ug/L	0.12	0.15	0.01	1289956
Total Vanadium (V)	ug/L	0.37	0.81	0.05	1289956
Total Zinc (Zn)	ug/L	<0.5	1.4	0.5	1289956
RDL = Reportable Detection Limit					

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89628		C89629		
Sampling Date		2006/09/20 11:40		2006/09/20 14:00		
GOC Number		08186372		08186372		
	Units	OCW-2A	RDL	OCW-3A	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1287624
Total Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1289418
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.009	0.008	<0.008	0.008	1287059
Dissolved Calcium (Ca)	mg/L	50.5	0.05	50.8	0.05	1287059
Dissolved Iron (Fe)	mg/L	0.042	0.005	0.037	0.005	1287059
Dissolved Magnesium (Mg)	mg/L	25.1	0.05	25.4	0.05	1287059
Dissolved Silicon (Si)	mg/L	5.09	0.05	5.08	0.05	1287059
Dissolved Sodium (Na)	mg/L	2.68	0.05	2.62	0.05	1287059
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	1.8	0.2	1.5	0.2	1286163
Dissolved Antimony (Sb)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Arsenic (As)	ug/L	0.5	0.1	0.5	0.1	1286163
Dissolved Barium (Ba)	ug/L	24.0	0.02	23.6	0.02	1286163
Dissolved Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1286163
Dissolved Chromium (Cr)	ug/L	<1 (f)	1	<1 (f)	1	1286163
Dissolved Cobalt (Co)	ug/L	<0.02	0.02	<0.02	0.02	1286163
Dissolved Copper (Cu)	ug/L	0.4	0.1	0.1	0.1	1286163
Dissolved Lead (Pb)	ug/L	<0.02	0.02	<0.02	0.02	1286163
Dissolved Lithium (Li)	ug/L	3.5	0.2	3.4	0.2	1286163
Dissolved Manganese (Mn)	ug/L	2.82	0.02	2.97	0.02	1286163
Dissolved Molybdenum (Mo)	ug/L	0.09	0.02	0.08	0.02	1286163
Dissolved Nickel (Ni)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Dissolved Potassium (K)	ug/L	886	50	929	50	1286163
Dissolved Selenium (Se)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Dissolved Silver (Ag)	ug/L	0.01	0.01	<0.01	0.01	1286163
Dissolved Strontium (Sr)	ug/L	46.8	0.01	46.9	0.01	1286163
Dissolved Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Tin (Sn)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Titanium (Ti)	ug/L	<0.5	0.5	<0.5	0.5	1286163

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89628		C89629		
Sampling Date		2006/09/20 11:40		2006/09/20 14:00		
COC Number		08186372		08186372		
	Units	OCW-2A	RDL	OCW-3A	RDL	QC Batch

Dissolved Uranium (U)	ug/L	0.15	0.01	0.15	0.01	1286163
Dissolved Vanadium (V)	ug/L	0.06	0.05	0.06	0.05	1286163
Dissolved Zinc (Zn)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Total Metals by ICP						
Total Boron (B)	mg/L	<0.008	0.008	<0.008	0.008	1290994
Total Calcium (Ca)	mg/L	49.3	0.05	51.0	0.05	1290994
Total Iron (Fe)	mg/L	0.079	0.005	0.074	0.005	1290994
Total Magnesium (Mg)	mg/L	23.7	0.05	24.7	0.05	1290994
Total Silicon (Si)	mg/L	4.91	0.05	5.01	0.05	1290994
Total Sodium (Na)	mg/L	2.57	0.05	2.60	0.05	1290994
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	6.4	0.2	6.2	0.2	1289956
Total Antimony (Sb)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Arsenic (As)	ug/L	<1 (1)	1	0.2	0.1	1289956
Total Barium (Ba)	ug/L	22.2	0.02	22.3	0.02	1289956
Total Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1289956
Total Chromium (Cr)	ug/L	<2 (1)	2	0.7	0.2	1289956
Total Cobalt (Co)	ug/L	0.03	0.02	0.02	0.02	1289956
Total Copper (Cu)	ug/L	<0.1	0.1	<0.1	0.1	1289956
Total Lead (Pb)	ug/L	0.02	0.02	<0.02	0.02	1289956
Total Lithium (Li)	ug/L	3.7	0.2	3.2	0.2	1289956
Total Manganese (Mn)	ug/L	9.17	0.02	7.73	0.02	1289956
Total Molybdenum (Mo)	ug/L	0.60	0.02	0.09	0.02	1289956
Total Nickel (Ni)	ug/L	0.6	0.5	<0.5	0.5	1289956
Total Potassium (K)	ug/L	919	50	921	50	1289956
Total Selenium (Se)	ug/L	<5 (1)	5	<0.5	0.5	1289956
Total Silver (Ag)	ug/L	<0.01	0.01	<0.01	0.01	1289956
Total Strontium (Sr)	ug/L	44.6	0.01	46.1	0.01	1289956
Total Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Tin (Sn)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Titanium (Ti)	ug/L	<0.5	0.5	<0.5	0.5	1289956

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89628		C89629		
Sampling Date		2006/09/20 11:40		2006/09/20 14:00		
COC Number		08186372		08186372		
	Units	OCW-2A	RDL	OCW-3A	RDL	QC Batch

Total Uranium (U)	ug/L	0.13	0.01	0.14	0.01	1289956
Total Vanadium (V)	ug/L	0.41	0.05	0.11	0.05	1289956
Total Zinc (Zn)	ug/L	<5 (1)	5	<0.5	0.5	1289956

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89630		C89638		
Sampling Date		2006/09/19 18:00		2006/09/19		
COC Number		08186372		08186372		
	Units	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1287624
Total Mercury (Hg)	ug/L	<0.05	0.05	<0.05	0.05	1289418
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	<0.008	0.008	<0.008	0.008	1287059
Dissolved Calcium (Ca)	mg/L	48.9	0.05	<0.05	0.05	1287059
Dissolved Iron (Fe)	mg/L	0.031	0.005	<0.005	0.005	1287059
Dissolved Magnesium (Mg)	mg/L	23.9	0.05	<0.05	0.05	1287059
Dissolved Silicon (Si)	mg/L	5.19	0.05	<0.05	0.05	1287059
Dissolved Sodium (Na)	mg/L	2.74	0.05	<0.05	0.05	1287059
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	2.2	0.2	0.3	0.2	1286163
Dissolved Antimony (Sb)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Arsenic (As)	ug/L	0.6	0.1	<0.1	0.1	1286163
Dissolved Barium (Ba)	ug/L	23.6	0.02	<0.02	0.02	1286163
Dissolved Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1286163
Dissolved Chromium (Cr)	ug/L	<1 (1)	1	<0.2	0.2	1286163
Dissolved Cobalt (Co)	ug/L	<0.02	0.02	<0.02	0.02	1286163
Dissolved Copper (Cu)	ug/L	0.2	0.1	<0.1	0.1	1286163
Dissolved Lead (Pb)	ug/L	<0.02	0.02	<0.02	0.02	1286163
Dissolved Lithium (Li)	ug/L	3.2	0.2	<0.2	0.2	1286163
Dissolved Manganese (Mn)	ug/L	1.02	0.02	<0.02	0.02	1286163
Dissolved Molybdenum (Mo)	ug/L	0.07	0.02	<0.02	0.02	1286163
Dissolved Nickel (Ni)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Dissolved Potassium (K)	ug/L	932	50	<50	50	1286163
Dissolved Selenium (Se)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Dissolved Silver (Ag)	ug/L	<0.01	0.01	<0.01	0.01	1286163
Dissolved Strontium (Sr)	ug/L	48.8	0.01	<0.01	0.01	1286163
Dissolved Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Tin (Sn)	ug/L	<0.05	0.05	<0.05	0.05	1286163
Dissolved Titanium (Ti)	ug/L	<0.5	0.5	<0.5	0.5	1286163

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89630		C89638		
Sampling Date		2006/09/19 18:00		2006/09/19		
COC Number		08186372		08186372		
	Units	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.14	0.01	<0.01	0.01	1286163
Dissolved Vanadium (V)	ug/L	0.12	0.05	<0.05	0.05	1286163
Dissolved Zinc (Zn)	ug/L	<0.5	0.5	<0.5	0.5	1286163
Total Metals by ICP						
Total Boron (B)	mg/L	<0.008	0.008	<0.008	0.008	1290994
Total Calcium (Ca)	mg/L	48.5	0.05	<0.05	0.05	1290994
Total Iron (Fe)	mg/L	0.094	0.005	<0.005	0.005	1290994
Total Magnesium (Mg)	mg/L	23.0	0.05	<0.05	0.05	1290994
Total Silicon (Si)	mg/L	5.16	0.05	<0.05	0.05	1290994
Total Sodium (Na)	mg/L	2.67	0.05	<0.05	0.05	1290994
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	39.4	0.2	0.7	0.2	1289956
Total Antimony (Sb)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Arsenic (As)	ug/L	0.4	0.1	<0.1	0.1	1289956
Total Barium (Ba)	ug/L	23.7	0.02	0.10	0.02	1289956
Total Beryllium (Be)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Bismuth (Bi)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Cadmium (Cd)	ug/L	<0.01	0.01	<0.01	0.01	1289956
Total Chromium (Cr)	ug/L	0.8	0.2	0.7	0.2	1289956
Total Cobalt (Co)	ug/L	0.05	0.02	0.22	0.02	1289956
Total Copper (Cu)	ug/L	0.2	0.1	<0.1	0.1	1289956
Total Lead (Pb)	ug/L	0.05	0.02	<0.02	0.02	1289956
Total Lithium (Li)	ug/L	3.3	0.2	<0.2	0.2	1289956
Total Manganese (Mn)	ug/L	9.61	0.02	0.04	0.02	1289956
Total Molybdenum (Mo)	ug/L	0.10	0.02	<0.02	0.02	1289956
Total Nickel (Ni)	ug/L	<0.5	0.5	<0.5	0.5	1289956
Total Potassium (K)	ug/L	949	50	<50	50	1289956
Total Selenium (Se)	ug/L	<0.5	0.5	<0.5	0.5	1289956
Total Silver (Ag)	ug/L	0.01	0.01	<0.01	0.01	1289956
Total Strontium (Sr)	ug/L	49.2	0.01	0.02	0.01	1289956
Total Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Tin (Sn)	ug/L	<0.05	0.05	<0.05	0.05	1289956
Total Titanium (Ti)	ug/L	2.0	0.5	<0.5	0.5	1289956
RDL = Reportable Detection Limit						

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		C89630		C89638		
Sampling Date		2006/09/19 18:00		2006/09/19		
COC Number		08186372		08186372		
	Units	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch
Total Uranium (U)	ug/L	0.15	0.01	<0.01	0.01	1289956
Total Vanadium (V)	ug/L	0.26	0.05	<0.05	0.05	1289956
Total Zinc (Zn)	ug/L	1.5	0.5	<0.5	0.5	1289956
RDL = Reportable Detection Limit						

Maxxam Job #: A644698
Report Date: 2006/10/24

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: JMC

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

SPIKE GS Special Analysis: Unit in mg/L total dissolved solids

MATRIX SPIKE GS Special Analysis: Unit in mg/L total dissolved solids

BLANK GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89596-01 GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89627-01 GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89628-01 GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89629-01 GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89630-01 GS Special Analysis: Unit in mg/L total dissolved solids

Sample C89638-01 GS Special Analysis: Unit in mg/L total dissolved solids, 250 mL was used for analysis

Results relate only to the items tested.

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report
Maxxam Job Number: VA644698

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1283144 TS1	MATRIX SPIKE	Dissolved Inorganic Carbon (C)	2006/09/25		99	%	80 - 120
	SPIKE	Dissolved Inorganic Carbon (C)	2006/09/25		106	%	80 - 120
	BLANK	Dissolved Inorganic Carbon (C)	2006/09/25	<0.5		mg/L	
	RPD	Dissolved Inorganic Carbon (C)	2006/09/25	6.2		%	25
1283156 TS1	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/09/25		105	%	80 - 120
	SPIKE	Total Inorganic Carbon (C)	2006/09/25		107	%	80 - 120
	BLANK	Total Inorganic Carbon (C)	2006/09/25	<0.5		mg/L	
	RPD	Total Inorganic Carbon (C)	2006/09/25	3.5		%	25
1283861 CK	SPIKE	Turbidity	2006/09/26		102	%	80 - 120
	BLANK	Turbidity	2006/09/26	<0.1		NTU	
	RPD [C89638-01]	Turbidity	2006/09/26	NC		%	25
1284699 WAY	SPIKE	Total Suspended Solids	2006/09/27		104	%	N/A
	BLANK	Total Suspended Solids	2006/09/27	<1		mg/L	
1284712 BH2	MATRIX SPIKE	Dissolved Phosphorus (P)	2006/09/29		95	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2006/09/29		104	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2006/09/29	<0.002		mg/L	
	RPD [C89627-01]	Dissolved Phosphorus (P)	2006/09/29	NC		%	20
1284725 BH2	MATRIX SPIKE	Total Phosphorus (P)	2006/09/29		92	%	80 - 120
	SPIKE	Total Phosphorus (P)	2006/09/29		110	%	80 - 120
	BLANK	Total Phosphorus (P)	2006/09/29	<0.002		mg/L	
	RPD [C89638-01]	Total Phosphorus (P)	2006/09/29	NC		%	25
1285442 WAY	MATRIX SPIKE	Special Analysis	2006/09/28		88	%	N/A
	[C89630-01]	Special Analysis	2006/09/28		90	%	N/A
	SPIKE	Special Analysis	2006/09/28	<1		N/A	
	BLANK	Special Analysis	2006/09/28	1.8		%	N/A
1286163 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2006/09/27		-280 (1)	%	75 - 125
		Dissolved Cadmium (Cd)	2006/09/27		103	%	75 - 125
		Dissolved Chromium (Cr)	2006/09/27		96	%	75 - 125
		Dissolved Cobalt (Co)	2006/09/27		101	%	75 - 125
		Dissolved Copper (Cu)	2006/09/27		105	%	75 - 125
		Dissolved Lead (Pb)	2006/09/27		100	%	75 - 125
		Dissolved Selenium (Se)	2006/09/27		116	%	75 - 125
		Dissolved Thallium (Tl)	2006/09/27		99	%	75 - 125
		Dissolved Zinc (Zn)	2006/09/27		117	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2006/09/27		105	%	75 - 125
		Dissolved Cadmium (Cd)	2006/09/27		102	%	75 - 125
		Dissolved Chromium (Cr)	2006/09/27		125	%	75 - 125
		Dissolved Cobalt (Co)	2006/09/27		124	%	75 - 125
		Dissolved Copper (Cu)	2006/09/27		125	%	75 - 125
		Dissolved Lead (Pb)	2006/09/27		116	%	75 - 125
		Dissolved Selenium (Se)	2006/09/27		101	%	75 - 125
		Dissolved Thallium (Tl)	2006/09/27		112	%	75 - 125
		Dissolved Zinc (Zn)	2006/09/27		101	%	75 - 125
	BLANK	Dissolved Aluminum (Al)	2006/09/27	<0.2		ug/L	
		Dissolved Antimony (Sb)	2006/09/27	<0.05		ug/L	
		Dissolved Arsenic (As)	2006/09/27	<0.1		ug/L	
		Dissolved Barium (Ba)	2006/09/27	<0.02		ug/L	
		Dissolved Beryllium (Be)	2006/09/27	<0.05		ug/L	
		Dissolved Bismuth (Bi)	2006/09/27	<0.05		ug/L	
		Dissolved Cadmium (Cd)	2006/09/27	<0.01		ug/L	
		Dissolved Chromium (Cr)	2006/09/27	<0.2		ug/L	
		Dissolved Cobalt (Co)	2006/09/27	<0.02		ug/L	
		Dissolved Copper (Cu)	2006/09/27	<0.1		ug/L	

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA644698

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1286163 AA1	BLANK	Dissolved Lead (Pb)	2006/09/27	<0.02		ug/L	
		Dissolved Lithium (Li)	2006/09/27	<0.2		ug/L	
		Dissolved Manganese (Mn)	2006/09/27	<0.02		ug/L	
		Dissolved Molybdenum (Mo)	2006/09/27	<0.02		ug/L	
		Dissolved Nickel (Ni)	2006/09/27	<0.5		ug/L	
		Dissolved Potassium (K)	2006/09/27	<50		ug/L	
		Dissolved Selenium (Se)	2006/09/27	<0.5		ug/L	
		Dissolved Silver (Ag)	2006/09/27	<0.01		ug/L	
		Dissolved Strontium (Sr)	2006/09/27	<0.01		ug/L	
		Dissolved Thallium (Tl)	2006/09/27	<0.05		ug/L	
	RPD	Dissolved Tin (Sn)	2006/09/27	<0.05		ug/L	
		Dissolved Titanium (Ti)	2006/09/27	<0.5		ug/L	
		Dissolved Uranium (U)	2006/09/27	<0.01		ug/L	
		Dissolved Vanadium (V)	2006/09/27	<0.05		ug/L	
		Dissolved Zinc (Zn)	2006/09/27	<0.5		ug/L	
		Dissolved Aluminum (Al)	2006/09/27	3.0		%	25
		Dissolved Antimony (Sb)	2006/09/27	4.1		%	25
		Dissolved Arsenic (As)	2006/09/27	1.2		%	25
		Dissolved Barium (Ba)	2006/09/27	1.5		%	25
		Dissolved Beryllium (Be)	2006/09/27	NC		%	25
Dissolved Bismuth (Bi)	2006/09/27	NC		%	25		
Dissolved Cadmium (Cd)	2006/09/27	2.4		%	25		
Dissolved Chromium (Cr)	2006/09/27	NC (2)		%	25		
Dissolved Cobalt (Co)	2006/09/27	2.1		%	25		
Dissolved Copper (Cu)	2006/09/27	NC		%	25		
Dissolved Lead (Pb)	2006/09/27	0		%	25		
Dissolved Lithium (Li)	2006/09/27	1.4		%	25		
Dissolved Manganese (Mn)	2006/09/27	5.2		%	25		
Dissolved Molybdenum (Mo)	2006/09/27	0.7		%	25		
Dissolved Nickel (Ni)	2006/09/27	0.4		%	25		
Dissolved Potassium (K)	2006/09/27	3.2		%	25		
Dissolved Selenium (Se)	2006/09/27	NC		%	25		
Dissolved Silver (Ag)	2006/09/27	NC		%	25		
Dissolved Strontium (Sr)	2006/09/27	2.4		%	25		
Dissolved Thallium (Tl)	2006/09/27	NC		%	25		
Dissolved Tin (Sn)	2006/09/27	NC		%	25		
Dissolved Titanium (Ti)	2006/09/27	NC		%	25		
Dissolved Uranium (U)	2006/09/27	0.9		%	25		
Dissolved Vanadium (V)	2006/09/27	3.5		%	25		
Dissolved Zinc (Zn)	2006/09/27	1.4		%	25		
1286532 TS1	MATRIX SPIKE	Total Organic Carbon (C)	2006/09/27		109	%	80 - 120
	SPIKE	Total Organic Carbon (C)	2006/09/27		106	%	80 - 120
	BLANK	Total Organic Carbon (C)	2006/09/27	<0.5		mg/L	
	RPD	Total Organic Carbon (C)	2006/09/27	NC		%	20
1286618 TS1	MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/09/27		86	%	80 - 120
	SPIKE	Dissolved Organic Carbon (C)	2006/09/27		99	%	80 - 120
	BLANK	Dissolved Organic Carbon (C)	2006/09/27	<0.5		mg/L	
	RPD [C89629-01]	Dissolved Organic Carbon (C)	2006/09/27	3.3		%	20
1286936 MX	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/09/27		105	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2006/09/27		107	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2006/09/27	<0.02		mg/L	
	RPD	Nitrate plus Nitrite (N)	2006/09/27	17.8		%	25
1286944 MX	MATRIX SPIKE	Nitrite (N)	2006/09/27		102	%	N/A
	SPIKE	Nitrite (N)	2006/09/27		104	%	N/A
	BLANK	Nitrite (N)	2006/09/27	<0.005		mg/L	

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA644698

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1286944 MX	RPD	Nitrite (N)	2006/09/27	NC		%	25
1286964 MX	MATRIX SPIKE	Total Nitrogen (N)	2006/09/27		116	%	80 - 120
	SPIKE	Total Nitrogen (N)	2006/09/27		95	%	80 - 120
	BLANK	Total Nitrogen (N)	2006/09/27	<0.02		mg/L	
	RPD [C89638-01]	Total Nitrogen (N)	2006/09/27	NC		%	25
1287059 KL1	BLANK	Dissolved Boron (B)	2006/09/28	<0.008		mg/L	
		Dissolved Calcium (Ca)	2006/09/28	<0.05		mg/L	
		Dissolved Iron (Fe)	2006/09/28	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2006/09/28	<0.05		mg/L	
		Dissolved Silicon (Si)	2006/09/28	<0.05		mg/L	
		Dissolved Sodium (Na)	2006/09/28	<0.05		mg/L	
	RPD [C89638-01]	Dissolved Boron (B)	2006/09/28	NC		%	25
		Dissolved Calcium (Ca)	2006/09/28	NC		%	25
		Dissolved Iron (Fe)	2006/09/28	NC		%	25
		Dissolved Magnesium (Mg)	2006/09/28	NC		%	25
		Dissolved Sodium (Na)	2006/09/28	NC		%	25
1287624 JT3	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/09/28		111	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/09/28		97	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/09/28		101	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/09/28	<0.05		ug/L	
	RPD	Dissolved Mercury (Hg)	2006/09/28	NC		%	25
1287755 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/09/28		96	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/09/28		96	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/09/28	0.5, RDL=0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/09/28	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2006/09/28	NC		%	25
		Alkalinity (PP as CaCO3)	2006/09/28	NC		%	25
1288167 SC2	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/09/28		94	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2006/09/28		97	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/09/28	0.5, RDL=0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/09/28	NC		%	20
1288171 SC2	MATRIX SPIKE	Chloride (Cl)	2006/09/28		108	%	80 - 120
	SPIKE	Chloride (Cl)	2006/09/28		104	%	80 - 120
	BLANK	Chloride (Cl)	2006/09/28	<0.5		mg/L	
	RPD	Chloride (Cl)	2006/09/28	NC		%	20
1288637 BH2	MATRIX SPIKE	Ammonia (N)	2006/09/28		98	%	80 - 120
	SPIKE	Ammonia (N)	2006/09/28		102	%	80 - 120
	BLANK	Ammonia (N)	2006/09/28	<0.005		mg/L	
	RPD	Ammonia (N)	2006/09/28	NC		%	25
1288667 MM3	MATRIX SPIKE	Fluoride (F)	2006/09/28		91	%	80 - 120
	SPIKE	Fluoride (F)	2006/09/28		101	%	80 - 120
	BLANK	Fluoride (F)	2006/09/28	<0.01		mg/L	
	RPD [C89629-01]	Fluoride (F)	2006/09/28	1.0		%	25
1289418 JT3	MATRIX SPIKE [C89596-01]	Total Mercury (Hg)	2006/09/29		109	%	70 - 130
	QC STANDARD	Total Mercury (Hg)	2006/09/29		100	%	80 - 120
	SPIKE	Total Mercury (Hg)	2006/09/29		99	%	80 - 120
	BLANK	Total Mercury (Hg)	2006/09/29	<0.05		ug/L	
	RPD [C89596-01]	Total Mercury (Hg)	2006/09/29	NC		%	25
1289956 AA1	SPIKE	Total Arsenic (As)	2006/09/29		100	%	75 - 125
		Total Cadmium (Cd)	2006/09/29		103	%	75 - 125
		Total Chromium (Cr)	2006/09/29		111	%	75 - 125
		Total Cobalt (Co)	2006/09/29		113	%	75 - 125
		Total Copper (Cu)	2006/09/29		109	%	75 - 125
		Total Lead (Pb)	2006/09/29		104	%	75 - 125

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA644698

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1289956 AA1	SPIKE	Total Selenium (Se)	2006/09/29		100	%	75 - 125		
		Total Thallium (Tl)	2006/09/29		104	%	75 - 125		
		Total Zinc (Zn)	2006/09/29		92	%	75 - 125		
	BLANK	Total Aluminum (Al)	2006/09/29	<0.2			ug/L		
		Total Antimony (Sb)	2006/09/29	<0.05			ug/L		
		Total Arsenic (As)	2006/09/29	<0.1			ug/L		
		Total Barium (Ba)	2006/09/29	<0.02			ug/L		
		Total Beryllium (Be)	2006/09/29	<0.05			ug/L		
		Total Bismuth (Bi)	2006/09/29	<0.05			ug/L		
		Total Cadmium (Cd)	2006/09/29	<0.01			ug/L		
		Total Chromium (Cr)	2006/09/29	<0.2			ug/L		
		Total Cobalt (Co)	2006/09/29	<0.02			ug/L		
		Total Copper (Cu)	2006/09/29	<0.1			ug/L		
		Total Lead (Pb)	2006/09/29	<0.02			ug/L		
		Total Lithium (Li)	2006/09/29	<0.2			ug/L		
		Total Manganese (Mn)	2006/09/29	0.02, RDL=0.02			ug/L		
		Total Molybdenum (Mo)	2006/09/29	<0.02			ug/L		
		Total Nickel (Ni)	2006/09/29	<0.5			ug/L		
		Total Potassium (K)	2006/09/29	<50			ug/L		
		Total Selenium (Se)	2006/09/29	<0.5			ug/L		
		Total Silver (Ag)	2006/09/29	<0.01			ug/L		
		Total Strontium (Sr)	2006/09/29	<0.01			ug/L		
		Total Thallium (Tl)	2006/09/29	<0.05			ug/L		
		Total Tin (Sn)	2006/09/29	<0.05			ug/L		
		Total Titanium (Ti)	2006/09/29	<0.5			ug/L		
		Total Uranium (U)	2006/09/29	<0.01			ug/L		
		Total Vanadium (V)	2006/09/29	<0.05			ug/L		
		1290994 GS2	BLANK	Total Zinc (Zn)	2006/09/29	<0.5		ug/L	
				Total Boron (B)	2006/09/30	<0.008		mg/L	
				Total Calcium (Ca)	2006/09/30	<0.05		mg/L	
				Total Iron (Fe)	2006/09/30	<0.005		mg/L	
Total Magnesium (Mg)	2006/09/30			<0.05		mg/L			
Total Silicon (Si)	2006/09/30			<0.05		mg/L			
RPD	Total Sodium (Na)		2006/09/30	<0.05		mg/L			
	Total Boron (B)		2006/09/30	NC		%	25		
	Total Calcium (Ca)		2006/09/30	1		%	25		
	Total Iron (Fe)		2006/09/30	0.6		%	25		
	Total Magnesium (Mg)		2006/09/30	0.9		%	25		
	Total Silicon (Si)		2006/09/30	0.8		%	25		
	Total Sodium (Na)		2006/09/30	0.9		%	25		

N/A = Not Applicable

NC = Non-calculable

RPD = Relative Percent Difference

(1) Spike invalid due to high sample concentration.

(2) MDL raised due to sample matrix interference.

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511



ANALYSIS REPORT

Becquerel Laboratories Inc.
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Canada, L5N 5L9

Phone: (905) 826-3080
FAX: (905) 826-4151

Batch: T06-01219.0

Date: 06-Oct-2006

Maxxam Analytics Inc

8577 Commerce Court
Burnaby, B.C., V5A 4N5

Phone: (604) 444-4808
FAX: (604) 444-4511

Client Ref. A644698

6 water samples

Received: 27-Sep-2006

Page 1 of 1


Sample	Results of Analysis				
	Test	Result	Units	Date	Method
Sampled: 19-Sep-2006					
C89596-01R MRW-1	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA
C89627-01R OCW-1	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA
Sampled: 20-Sep-2006					
C89628-01R OCW-2A	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA
C89629-01R OCW-3A	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA
Sampled: 19-Sep-2006					
C89630-01R DUPLICATE	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA
C89638-01R TRIP BLANK	Ra-226	< 0.01	Bq/l	05-Oct-2006	ALPHA

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

Units: Bq/l Becquerels per litre

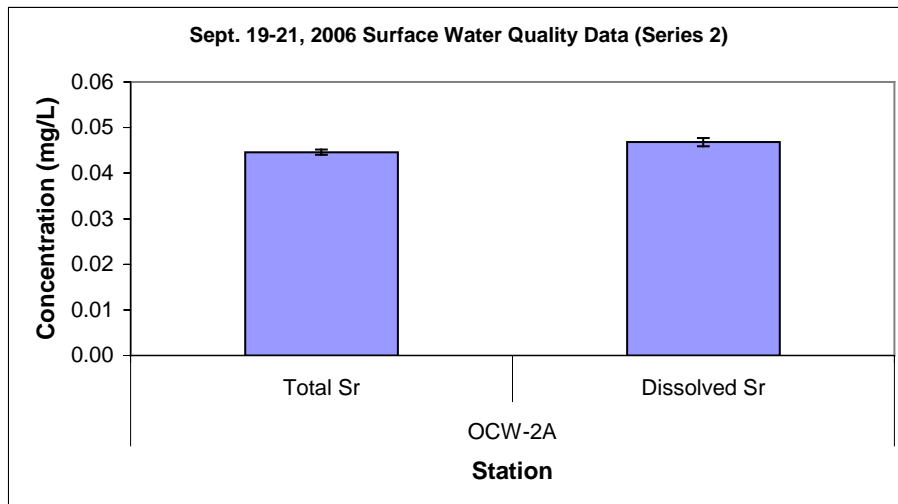
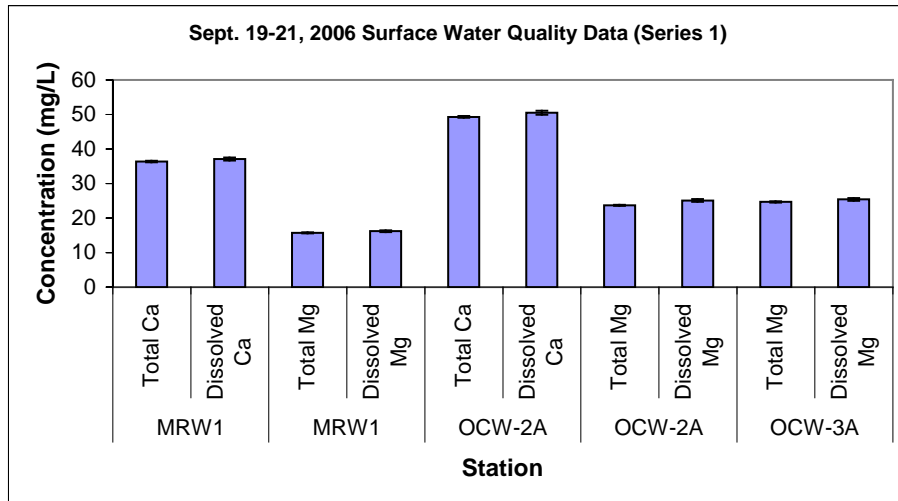
These results relate only to the samples analysed and only to the items tested.
These results have not been corrected for blanks.

06-Oct-2006 approved by:


Donald D. Burgess PhD
Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.

**Sept. 19-21, 2006 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-H

Certified Laboratory Reports for Surface Water Quality

October 2006 Results

Your Project #: 06513302.00 MINAGO
Your C.O.C. #: 08186379

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2006/11/01

This report dated: 2006/11/01 supersedes previous report dated: 2006/10/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A648711

Received: 2006/10/14, 11:00

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	6	2006/10/19	2006/10/19	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry @	6	N/A	2006/10/19	BRN-SOP 00116	Based on EPA 325.2
Colour (True)	6	N/A	2006/10/18	ING250 Rev 1.0	Based on SM-2120B
Carbon (DOC)	6	N/A	2006/10/20	ING211 Rev. 2.4	Based on SM-5310C
Conductance - water	6	N/A	2006/10/19	ING413 REV 1.7	Based on SM-2510B
Fluoride	6	N/A	2006/10/19	ING222 Rev.4.2	Based SM - 4500 F C
GS Special Analysis	6	N/A	2006/10/19		
Hardness Total (calculated as CaCO3)	6	N/A	2006/10/16		
Hardness (calculated as CaCO3)	6	N/A	2006/10/16		
Mercury (Dissolved)	6	2006/10/18	2006/10/19	BRN SOP-00044 V1.0	Based on EPA 245.1
Mercury (Total)	6	2006/10/16	2006/10/17	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	6	2006/10/18	2006/10/18	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) @	6	2006/10/16	2006/10/16	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICPMS (total) @	6	N/A	2006/10/17	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	6	N/A	2006/10/20	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	6	2006/10/18	2006/10/18	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	6	N/A	2006/10/18	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate + Nitrite (N)	6	N/A	2006/10/20	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	6	N/A	2006/10/20	BRN SOP-00023 V1.0	EPA 353.2
Nitrogen - Nitrate (as N)	6	N/A	2006/10/16		
Filter and HNO3 Preserve for Metals	6	2006/10/17	2006/10/17	BRN WI-00006 V1.0	Based on EPA 200.2
pH Water	6	N/A	2006/10/19	BRN SOP-00014 V2.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry @	6	N/A	2006/10/19	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	6	N/A	2006/11/01		
Carbon (DIC)	6	N/A	2006/10/17	ING247 Rev.1.0	Based on SM-5310C
Carbon (Total Inorganic)	6	N/A	2006/10/25	ING247	Based on SM-5310C
TKN (Calc. TN, N/N) total	6	N/A	2006/10/17		
Carbon (Total Organic)	6	N/A	2006/10/18	ING211 Rev.2.4	Based on SM-5310C
Phosphorus-P (Total, dissolved) @	6	2006/10/19	2006/10/19	ING 237 Rev 5.0	SM-4500PF
Total Phosphorus	6	N/A	2006/10/19	ING237 Rev.5.0	SM 4500
Total Suspended Solids	6	N/A	2006/10/19	ING444 Rev.2.3	Based on SM-2540 D
Turbidity	6	N/A	2006/10/18	BRN SOP-00021 V2.0	SM - 2130B

(1) SCC/CAEAL

Your Project #: 06513302.00 MINAGO
Your C.O.C. #: 08186379

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2006/11/01

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		D19540	D19541	D19542		
Sampling Date		2006/10/12 18:04	2006/10/12 18:34	2006/10/12 12:30		
COC Number		08186379	08186379	08186379		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

Misc. Inorganics						
Fluoride (F)	mg/L	0.59	0.16	0.15	0.01	1314062
Parameter						
Special Analysis	N/A	190	200	210	1	1310923
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1331368
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1310298
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1316199
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	140	170	180	0.5	1309140
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1309142
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	140	170	180	0.5	1309141
Dissolved Organic Carbon (C)	mg/L	17.1	14.3	12.4	0.5	1316153
Alkalinity (Total as CaCO3)	mg/L	141	166	176	0.5	1315055
Total Organic Carbon (C)	mg/L	17.0	14.5	13.1	0.5	1312942
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1315055
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1314507
Chloride (Cl)	mg/L	1.3	0.9	0.9	0.5	1314513
MISCELLANEOUS						
True Colour	Col. Unit	50	40	40	5	1312279
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.69	0.43	0.38	0.02	1311617
Dissolved Phosphorus (P)	mg/L	0.013	0.003	0.002	0.002	1314317
Ammonia (N)	mg/L	0.020	0.007	0.005	0.005	1312379
Dissolved Inorganic Carbon (C)	mg/L	31.9	35.2	36.1	0.5	1310777
Total Inorganic Carbon (C)	mg/L	33.3	39.6	42.4	0.5	1321608
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1316196
Total Nitrogen (N)	mg/L	0.69	0.43	0.38	0.02	1312285
Total Phosphorus (P)	mg/L	0.010	<0.002	0.003	0.002	1314305
Physical Properties						
Conductivity	uS/cm	262	303	320	1	1315053
RDL = Reportable Detection Limit						

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		D19540	D19541	D19542		
Sampling Date		2006/10/12 18:04	2006/10/12 18:34	2006/10/12 12:30		
COC Number		08186379	08186379	08186379		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch

pH	pH Units	8.2	8.2	8.2	0.1	1315017
Physical Properties						
Total Suspended Solids	mg/L	3	<1	<1	1	1312409
Turbidity	NTU	2.5	0.4	0.2	0.1	1311629

RDL = Reportable Detection Limit

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		D19543	D19544	D19545		
Sampling Date		2006/10/12 13:00	2006/10/12	2006/10/14		
COC Number		08186379	08186379	08186379		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch

Misc. Inorganics						
Fluoride (F)	mg/L	0.08	0.08	0.01	0.01	1314062
Parameter						
Special Analysis	N/A	210	200	<1	1	1310923
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1331368
Preparation						
Filter and HNO3 Preservation	N/A	Yes	Yes	Yes	N/A	1310298
ANIONS						
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	0.005	1316199
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	180	140	<0.5	0.5	1309140
Nitrate (N)	mg/L	<0.02	<0.02	<0.02	0.02	1309142
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	180	140	<0.5	0.5	1309141
Dissolved Organic Carbon (C)	mg/L	12.5	16.3	<0.5	0.5	1316153
Alkalinity (Total as CaCO3)	mg/L	176	141	<0.5	0.5	1315055
Total Organic Carbon (C)	mg/L	12.5	17.5	<0.5	0.5	1312942
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1315055
Anions						
Dissolved Sulphate (SO4)	mg/L	<0.5	<0.5	<0.5	0.5	1314507
Chloride (Cl)	mg/L	0.9	1.4	<0.5	0.5	1314513
MISCELLANEOUS						
True Colour	Col. Unit	40	50	<5	5	1312279
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.38	0.68	<0.02	0.02	1311617
Dissolved Phosphorus (P)	mg/L	0.002	0.012	<0.002	0.002	1314317
Ammonia (N)	mg/L	<0.005	0.013	0.007	0.005	1312379
Dissolved Inorganic Carbon (C)	mg/L	38.4	32.1	<0.5	0.5	1310777
Total Inorganic Carbon (C)	mg/L	42.5	34.5	<0.5	0.5	1321608
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	<0.02	0.02	1316196
Total Nitrogen (N)	mg/L	0.38	0.68	<0.02	0.02	1312285
Total Phosphorus (P)	mg/L	0.003	0.012	<0.002	0.002	1314305
Physical Properties						
Conductivity	uS/cm	319	262	1	1	1315053

RDL = Reportable Detection Limit

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		D19543	D19544	D19545		
Sampling Date		2006/10/12 13:00	2006/10/12	2006/10/14		
COC Number		08186379	08186379	08186379		
	Units	OCW-3A	DUPLICATE	TRIP BLANK	RDL	QC Batch

pH	pH Units	8.3	8.2	5.9	0.1	1315017
Physical Properties						
Total Suspended Solids	mg/L	2	3	<1	1	1312409
Turbidity	NTU	0.2	2.5	<0.1	0.1	1311629

RDL = Reportable Detection Limit

Maxxam Job #: A648711
 Report Date: 2006/11/01

 WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 MINAGO
 Site Reference:
 Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19540	D19541	D19542		
Sampling Date		2006/10/12 18:04	2006/10/12 18:34	2006/10/12 12:30		
COC Number		08186379	08186379	08186379		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch
Low Level Elements						
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1313180
Total Mercury (Hg)	ug/L	<0.05	<0.05	<0.05	0.05	1309244
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.010	<0.008	<0.008	0.008	1313204
Dissolved Calcium (Ca)	mg/L	32.4	36.8	38.8	0.05	1313204
Dissolved Iron (Fe)	mg/L	0.038	0.030	0.026	0.005	1313204
Dissolved Magnesium (Mg)	mg/L	14.4	19.0	20.3	0.05	1313204
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1313204
Dissolved Silicon (Si)	mg/L	4.52	4.36	4.36	0.05	1313204
Dissolved Sodium (Na)	mg/L	5.11	2.41	2.32	0.05	1313204
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1313204
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	6.1	1.6	1.1	0.2	1309148
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1309148
Dissolved Arsenic (As)	ug/L	0.9	0.5	0.4	0.1	1309148
Dissolved Barium (Ba)	ug/L	9.92	15.1	15.7	0.02	1309148
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1309148
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	<0.05	0.05	1309148
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1309148
Dissolved Chromium (Cr)	ug/L	<1 (f)	<1 (f)	<1 (f)	1	1309148
Dissolved Cobalt (Co)	ug/L	<0.02	<0.02	<0.02	0.02	1309148
Dissolved Copper (Cu)	ug/L	0.5	0.2	<0.1	0.1	1309148
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	<0.02	0.02	1309148
Dissolved Lithium (Li)	ug/L	3.4	2.9	3.0	0.2	1309148
Dissolved Manganese (Mn)	ug/L	1.87	4.01	2.71	0.02	1309148
Dissolved Molybdenum (Mo)	ug/L	0.08	0.09	0.08	0.02	1309148
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	<0.5	0.5	1309148
Dissolved Potassium (K)	ug/L	967	1140	1200	50	1309148
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1309148
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1309148
Dissolved Strontium (Sr)	ug/L	49.6	36.2	36.3	0.01	1309148
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1309148
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.						

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19540	D19541	D19542		
Sampling Date		2006/10/12 18:04	2006/10/12 18:34	2006/10/12 12:30		
COC Number		08186379	08186379	08186379		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	<0.05	0.05	1309148
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	<0.5	0.5	1309148
Dissolved Uranium (U)	ug/L	0.14	0.14	0.16	0.01	1309148
Dissolved Vanadium (V)	ug/L	0.25	0.07	<0.05	0.05	1309148
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	<0.5	0.5	1309148
Total Metals by ICP						
Total Boron (B)	mg/L	0.015	0.009	<0.008	0.008	1315898
Total Calcium (Ca)	mg/L	34.3	38.6	41.5	0.05	1315898
Total Iron (Fe)	mg/L	0.139	0.051	0.037	0.005	1315898
Total Magnesium (Mg)	mg/L	14.7	19.1	20.9	0.05	1315898
Total Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1315898
Total Silicon (Si)	mg/L	4.87	4.43	4.47	0.05	1315898
Total Sodium (Na)	mg/L	5.43	2.51	2.48	0.05	1315898
Total Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1315898
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	99.6	11.3	2.8	0.2	1310821
Total Antimony (Sb)	ug/L	<0.05	<0.05	<0.05	0.05	1310821
Total Arsenic (As)	ug/L	0.9	0.5	0.5	0.1	1310821
Total Barium (Ba)	ug/L	10.4	15.1	14.8	0.02	1310821
Total Beryllium (Be)	ug/L	<0.05	<0.05	<0.05	0.05	1310821
Total Bismuth (Bi)	ug/L	<0.05	<0.05	<0.05	0.05	1310821
Total Cadmium (Cd)	ug/L	<0.01	<0.01	<0.01	0.01	1310821
Total Chromium (Cr)	ug/L	<1 (1)	<1 (1)	<1 (1)	1	1310821
Total Cobalt (Co)	ug/L	0.04	<0.02	<0.02	0.02	1310821
Total Copper (Cu)	ug/L	0.5	0.1	<0.1	0.1	1310821
Total Lead (Pb)	ug/L	0.06	<0.02	<0.02	0.02	1310821
Total Lithium (Li)	ug/L	3.2	2.7	2.7	0.2	1310821
Total Manganese (Mn)	ug/L	6.16	6.58	3.32	0.02	1310821
Total Molybdenum (Mo)	ug/L	0.11	0.08	0.09	0.02	1310821
Total Nickel (Ni)	ug/L	<0.5	<0.5	<0.5	0.5	1310821
Total Potassium (K)	ug/L	928	1080	1150	50	1310821
Total Selenium (Se)	ug/L	<0.5	<0.5	<0.5	0.5	1310821
Total Silver (Ag)	ug/L	<0.01	<0.01	<0.01	0.01	1310821
RDL = Reportable Detection Limit						
(1) MDL raised due to sample matrix interference.						

Maxxam Job #: A648711
 Report Date: 2006/11/01

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00 MINAGO
 Site Reference:
 Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19540	D19541	D19542		
Sampling Date		2006/10/12 18:04	2006/10/12 18:34	2006/10/12 12:30		
COC Number		08186379	08186379	08186379		
	Units	MRW-1	OCW-1	OCW-2A	RDL	QC Batch
Total Strontium (Sr)	ug/L	49.9	35.9	36.4	0.01	1310821
Total Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	0.05	1310821
Total Tin (Sn)	ug/L	<0.05	0.15	<0.05	0.05	1310821
Total Titanium (Ti)	ug/L	3.8	<0.5	<0.5	0.5	1310821
Total Uranium (U)	ug/L	0.15	0.15	0.16	0.01	1310821
Total Vanadium (V)	ug/L	0.38	0.08	<0.05	0.05	1310821
Total Zinc (Zn)	ug/L	0.7	<0.5	<0.5	0.5	1310821
RDL = Reportable Detection Limit						

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19543	D19544		D19545		
Sampling Date		2006/10/12 13:00	2006/10/12		2006/10/14		
COC Number		08186379	08186379		08186379		
	Units	OCW-3A	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch
Low Level Elements							
Dissolved Mercury (Hg)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1313180
Total Mercury (Hg)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309244
Dissolved Metals by ICP							
Dissolved Boron (B)	mg/L	<0.008	0.011	0.008	<0.008	0.008	1313204
Dissolved Calcium (Ca)	mg/L	38.5	32.3	0.05	<0.05	0.05	1313204
Dissolved Iron (Fe)	mg/L	0.025	0.033	0.005	<0.005	0.005	1313204
Dissolved Magnesium (Mg)	mg/L	20.1	14.4	0.05	<0.05	0.05	1313204
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	0.1	<0.1	0.1	1313204
Dissolved Silicon (Si)	mg/L	4.31	4.53	0.05	<0.05	0.05	1313204
Dissolved Sodium (Na)	mg/L	2.29	5.15	0.05	<0.05	0.05	1313204
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	0.005	<0.005	0.005	1313204
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	1.1	6.0	0.2	<0.2	0.2	1309148
Dissolved Antimony (Sb)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309148
Dissolved Arsenic (As)	ug/L	0.4	0.9	0.1	<0.1	0.1	1309148
Dissolved Barium (Ba)	ug/L	15.8	9.73	0.02	<0.02	0.02	1309148
Dissolved Beryllium (Be)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309148
Dissolved Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309148
Dissolved Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	<0.01	0.01	1309148
Dissolved Chromium (Cr)	ug/L	<1 (1)	<1 (1)	1	<0.2	0.2	1309148
Dissolved Cobalt (Co)	ug/L	<0.02	<0.02	0.02	<0.02	0.02	1309148
Dissolved Copper (Cu)	ug/L	0.3	0.4	0.1	<0.1	0.1	1309148
Dissolved Lead (Pb)	ug/L	<0.02	<0.02	0.02	<0.02	0.02	1309148
Dissolved Lithium (Li)	ug/L	2.9	3.4	0.2	<0.2	0.2	1309148
Dissolved Manganese (Mn)	ug/L	2.49	1.76	0.02	<0.02	0.02	1309148
Dissolved Molybdenum (Mo)	ug/L	0.09	0.07	0.02	<0.02	0.02	1309148
Dissolved Nickel (Ni)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1309148
Dissolved Potassium (K)	ug/L	1240	953	50	<50	50	1309148
Dissolved Selenium (Se)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1309148
Dissolved Silver (Ag)	ug/L	<0.01	<0.01	0.01	<0.01	0.01	1309148
Dissolved Strontium (Sr)	ug/L	37.5	49.8	0.01	0.03	0.01	1309148
Dissolved Thallium (Tl)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309148
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.							

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19543	D19544		D19545		
Sampling Date		2006/10/12 13:00	2006/10/12		2006/10/14		
COC Number		08186379	08186379		08186379		
	Units	OCW-3A	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1309148
Dissolved Titanium (Ti)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1309148
Dissolved Uranium (U)	ug/L	0.16	0.14	0.01	<0.01	0.01	1309148
Dissolved Vanadium (V)	ug/L	<0.05	0.25	0.05	<0.05	0.05	1309148
Dissolved Zinc (Zn)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1309148
Total Metals by ICP							
Total Boron (B)	mg/L	<0.008	0.012	0.008	<0.008	0.008	1315898
Total Calcium (Ca)	mg/L	41.1	35.0	0.05	<0.05	0.05	1315898
Total Iron (Fe)	mg/L	0.055	0.143	0.005	<0.005	0.005	1315898
Total Magnesium (Mg)	mg/L	20.6	15.0	0.05	<0.05	0.05	1315898
Total Phosphorus (P)	mg/L	<0.1	<0.1	0.1	<0.1	0.1	1315898
Total Silicon (Si)	mg/L	4.43	4.97	0.05	<0.05	0.05	1315898
Total Sodium (Na)	mg/L	2.47	5.55	0.05	<0.05	0.05	1315898
Total Zirconium (Zr)	mg/L	<0.005	<0.005	0.005	<0.005	0.005	1315898
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	4.8	97.7	0.2	<0.2	0.2	1310821
Total Antimony (Sb)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1310821
Total Arsenic (As)	ug/L	0.5	0.9	0.1	0.2	0.1	1310821
Total Barium (Ba)	ug/L	15.0	10.3	0.02	<0.02	0.02	1310821
Total Beryllium (Be)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1310821
Total Bismuth (Bi)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1310821
Total Cadmium (Cd)	ug/L	<0.01	<0.01	0.01	<0.01	0.01	1310821
Total Chromium (Cr)	ug/L	<1 (1)	<1 (1)	1	<0.2	0.2	1310821
Total Cobalt (Co)	ug/L	<0.02	0.05	0.02	<0.02	0.02	1310821
Total Copper (Cu)	ug/L	0.2	0.5	0.1	<0.1	0.1	1310821
Total Lead (Pb)	ug/L	<0.02	0.05	0.02	<0.02	0.02	1310821
Total Lithium (Li)	ug/L	2.8	3.5	0.2	<0.2	0.2	1310821
Total Manganese (Mn)	ug/L	5.42	6.58	0.02	0.02	0.02	1310821
Total Molybdenum (Mo)	ug/L	0.09	0.08	0.02	<0.02	0.02	1310821
Total Nickel (Ni)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1310821
Total Potassium (K)	ug/L	1140	954	50	<50	50	1310821
Total Selenium (Se)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1310821
Total Silver (Ag)	ug/L	<0.01	<0.01	0.01	<0.01	0.01	1310821
RDL = Reportable Detection Limit (1) MDL raised due to sample matrix interference.							

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		D19543	D19544		D19545		
Sampling Date		2006/10/12 13:00	2006/10/12		2006/10/14		
COC Number		08186379	08186379		08186379		
	Units	OCW-3A	DUPLICATE	RDL	TRIP BLANK	RDL	QC Batch
Total Strontium (Sr)	ug/L	36.1	51.5	0.01	0.04	0.01	1310821
Total Thallium (Tl)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1310821
Total Tin (Sn)	ug/L	<0.05	<0.05	0.05	<0.05	0.05	1310821
Total Titanium (Ti)	ug/L	<0.5	3.9	0.5	<0.5	0.5	1310821
Total Uranium (U)	ug/L	0.16	0.15	0.01	<0.01	0.01	1310821
Total Vanadium (V)	ug/L	<0.05	0.38	0.05	<0.05	0.05	1310821
Total Zinc (Zn)	ug/L	<0.5	<0.5	0.5	<0.5	0.5	1310821
RDL = Reportable Detection Limit							

Maxxam Job #: A648711
Report Date: 2006/11/01

WARDROP ENGINEERING INC.
Client Project #: 06513302.00 MINAGO
Site Reference:
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

SPIKE GS Special Analysis: units in mg/L total dissolved solids

MATRIX SPIKE GS Special Analysis: units in mg/L total dissolved solids

BLANK GS Special Analysis: units in mg/L total dissolved solids

Sample D19540-01 GS Special Analysis: units in mg/L total dissolved solids

Sample D19541-01 GS Special Analysis: units in mg/L total dissolved solids

Sample D19542-01 GS Special Analysis: units in mg/L total dissolved solids

Sample D19543-01 GS Special Analysis: units in mg/L total dissolved solids

Sample D19544-01 GS Special Analysis: units in mg/L total dissolved solids

Sample D19545-01 GS Special Analysis: units in mg/L total dissolved solids 250ml was used for analysis

Results relate only to the items tested.

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report
Maxxam Job Number: VA648711

QA/QC Batch	Date Analyzed	Parameter	Value	Recovery	Units	QC Limits
Num Init	QC Type					
1309148 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2006/10/16	113	%	75 - 125
		Dissolved Cadmium (Cd)	2006/10/16	111	%	75 - 125
		Dissolved Chromium (Cr)	2006/10/16	102	%	75 - 125
		Dissolved Cobalt (Co)	2006/10/16	105	%	75 - 125
		Dissolved Copper (Cu)	2006/10/16	110	%	75 - 125
		Dissolved Lead (Pb)	2006/10/16	110	%	75 - 125
		Dissolved Selenium (Se)	2006/10/16	110	%	75 - 125
		Dissolved Thallium (Tl)	2006/10/16	105	%	75 - 125
		Dissolved Zinc (Zn)	2006/10/16	124	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2006/10/16	87	%	75 - 125
		Dissolved Cadmium (Cd)	2006/10/16	95	%	75 - 125
		Dissolved Chromium (Cr)	2006/10/16	114	%	75 - 125
		Dissolved Cobalt (Co)	2006/10/16	112	%	75 - 125
		Dissolved Copper (Cu)	2006/10/16	111	%	75 - 125
		Dissolved Lead (Pb)	2006/10/16	107	%	75 - 125
		Dissolved Selenium (Se)	2006/10/16	85	%	75 - 125
		Dissolved Thallium (Tl)	2006/10/16	103	%	75 - 125
		Dissolved Zinc (Zn)	2006/10/16	104	%	75 - 125
	BLANK	Dissolved Aluminum (Al)	2006/10/16	<0.2	ug/L	
		Dissolved Antimony (Sb)	2006/10/16	<0.05	ug/L	
		Dissolved Arsenic (As)	2006/10/16	0.1, RDL=0.1	ug/L	
		Dissolved Barium (Ba)	2006/10/16	<0.02	ug/L	
		Dissolved Beryllium (Be)	2006/10/16	<0.05	ug/L	
		Dissolved Bismuth (Bi)	2006/10/16	<0.05	ug/L	
		Dissolved Cadmium (Cd)	2006/10/16	<0.01	ug/L	
		Dissolved Chromium (Cr)	2006/10/16	<0.2	ug/L	
		Dissolved Cobalt (Co)	2006/10/16	<0.02	ug/L	
		Dissolved Copper (Cu)	2006/10/16	<0.1	ug/L	
		Dissolved Lead (Pb)	2006/10/16	<0.02	ug/L	
		Dissolved Lithium (Li)	2006/10/16	<0.2	ug/L	
		Dissolved Manganese (Mn)	2006/10/16	<0.02	ug/L	
		Dissolved Molybdenum (Mo)	2006/10/16	<0.02	ug/L	
		Dissolved Nickel (Ni)	2006/10/16	<0.5	ug/L	
		Dissolved Potassium (K)	2006/10/16	<50	ug/L	
		Dissolved Selenium (Se)	2006/10/16	<0.5	ug/L	
		Dissolved Silver (Ag)	2006/10/16	<0.01	ug/L	
		Dissolved Strontium (Sr)	2006/10/16	<0.01	ug/L	
		Dissolved Thallium (Tl)	2006/10/16	<0.05	ug/L	
		Dissolved Tin (Sn)	2006/10/16	<0.05	ug/L	
		Dissolved Titanium (Ti)	2006/10/16	<0.5	ug/L	
		Dissolved Uranium (U)	2006/10/16	<0.01	ug/L	
		Dissolved Vanadium (V)	2006/10/16	<0.05	ug/L	
		Dissolved Zinc (Zn)	2006/10/16	<0.5	ug/L	
	RPD	Dissolved Aluminum (Al)	2006/10/16	2.0	%	25
		Dissolved Antimony (Sb)	2006/10/16	2.4	%	25
		Dissolved Arsenic (As)	2006/10/16	1.7	%	25
		Dissolved Barium (Ba)	2006/10/16	2.3	%	25
		Dissolved Beryllium (Be)	2006/10/16	NC	%	25
		Dissolved Bismuth (Bi)	2006/10/16	NC	%	25
		Dissolved Cadmium (Cd)	2006/10/16	NC	%	25
		Dissolved Chromium (Cr)	2006/10/16	NC	%	25
		Dissolved Cobalt (Co)	2006/10/16	6.4	%	25
		Dissolved Copper (Cu)	2006/10/16	0.3	%	25
		Dissolved Lead (Pb)	2006/10/16	NC	%	25
		Dissolved Lithium (Li)	2006/10/16	4.0	%	25

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)
Maxxam Job Number: VA648711

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1309148 AA1	RPD	Dissolved Manganese (Mn)	2006/10/16	1.1		%	25	
		Dissolved Molybdenum (Mo)	2006/10/16	0.1		%	25	
		Dissolved Nickel (Ni)	2006/10/16	NC		%	25	
		Dissolved Potassium (K)	2006/10/16	0.1		%	25	
		Dissolved Selenium (Se)	2006/10/16	1.6		%	25	
		Dissolved Silver (Ag)	2006/10/16	NC		%	25	
		Dissolved Strontium (Sr)	2006/10/16	0.4		%	25	
		Dissolved Thallium (Tl)	2006/10/16	NC		%	25	
		Dissolved Tin (Sn)	2006/10/16	NC		%	25	
		Dissolved Titanium (Ti)	2006/10/16	NC		%	25	
		Dissolved Uranium (U)	2006/10/16	0.1		%	25	
		Dissolved Vanadium (V)	2006/10/16	1.0		%	25	
		Dissolved Zinc (Zn)	2006/10/16	NC		%	25	
1309244 JT3	MATRIX SPIKE	Total Mercury (Hg)	2006/10/17		103	%	70 - 130	
	QC STANDARD	Total Mercury (Hg)	2006/10/17		100	%	80 - 120	
	SPIKE	Total Mercury (Hg)	2006/10/17		94	%	80 - 120	
	BLANK	Total Mercury (Hg)	2006/10/17	<0.05		ug/L		
1310298 IC4	BLANK	Filter and HNO3 Preservation	2006/10/17	YES		N/A	25	
1310777 SC2	MATRIX SPIKE	Dissolved Inorganic Carbon (C)	2006/10/17		88	%	80 - 120	
	SPIKE	Dissolved Inorganic Carbon (C)	2006/10/17		87	%	80 - 120	
	BLANK	Dissolved Inorganic Carbon (C)	2006/10/17	<0.5		mg/L		
1310821 AA1	RPD [D19545-01]	Dissolved Inorganic Carbon (C)	2006/10/17	NC			25	
		MATRIX SPIKE	Total Arsenic (As)	2006/10/17		101	%	75 - 125
		Total Cadmium (Cd)	2006/10/17		101	%	75 - 125	
		Total Chromium (Cr)	2006/10/17		109	%	75 - 125	
		Total Cobalt (Co)	2006/10/17		100	%	75 - 125	
		Total Copper (Cu)	2006/10/17		95	%	75 - 125	
		Total Lead (Pb)	2006/10/17		103	%	75 - 125	
		Total Selenium (Se)	2006/10/17		100	%	75 - 125	
		Total Thallium (Tl)	2006/10/17		99	%	75 - 125	
		Total Zinc (Zn)	2006/10/17		102	%	75 - 125	
		SPIKE	Total Arsenic (As)	2006/10/17		87	%	75 - 125
			Total Cadmium (Cd)	2006/10/17		92	%	75 - 125
			Total Chromium (Cr)	2006/10/17		106	%	75 - 125
			Total Cobalt (Co)	2006/10/17		104	%	75 - 125
			Total Copper (Cu)	2006/10/17		103	%	75 - 125
	Total Lead (Pb)		2006/10/17		103	%	75 - 125	
	Total Selenium (Se)		2006/10/17		86	%	75 - 125	
	Total Thallium (Tl)		2006/10/17		99	%	75 - 125	
	Total Zinc (Zn)		2006/10/17		96	%	75 - 125	
	BLANK		Total Aluminum (Al)	2006/10/17	<0.2		ug/L	
			Total Antimony (Sb)	2006/10/17	<0.05		ug/L	
			Total Arsenic (As)	2006/10/17	<0.1		ug/L	
		Total Barium (Ba)	2006/10/17	<0.02		ug/L		
		Total Beryllium (Be)	2006/10/17	<0.05		ug/L		
		Total Bismuth (Bi)	2006/10/17	<0.05		ug/L		
		Total Cadmium (Cd)	2006/10/17	<0.01		ug/L		
		Total Chromium (Cr)	2006/10/17	<0.2		ug/L		
		Total Cobalt (Co)	2006/10/17	<0.02		ug/L		
		Total Copper (Cu)	2006/10/17	<0.1		ug/L		
		Total Lead (Pb)	2006/10/17	<0.02		ug/L		
		Total Lithium (Li)	2006/10/17	<0.2		ug/L		
		Total Manganese (Mn)	2006/10/17	<0.02		ug/L		
		Total Molybdenum (Mo)	2006/10/17	<0.02		ug/L		

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA648711

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1310821 AA1	BLANK	Total Nickel (Ni)	2006/10/17	<0.5		ug/L	
		Total Potassium (K)	2006/10/17	<50		ug/L	
		Total Selenium (Se)	2006/10/17	<0.5		ug/L	
		Total Silver (Ag)	2006/10/17	<0.01		ug/L	
		Total Strontium (Sr)	2006/10/17	<0.01		ug/L	
		Total Thallium (Tl)	2006/10/17	<0.05		ug/L	
		Total Tin (Sn)	2006/10/17	<0.05		ug/L	
		Total Titanium (Ti)	2006/10/17	<0.5		ug/L	
		Total Uranium (U)	2006/10/17	<0.01		ug/L	
		Total Vanadium (V)	2006/10/17	<0.05		ug/L	
		Total Zinc (Zn)	2006/10/17	<0.5		ug/L	
	RPD	Total Aluminum (Al)	2006/10/17	11.1		%	25
		Total Antimony (Sb)	2006/10/17	NC		%	25
		Total Arsenic (As)	2006/10/17	10.3		%	25
		Total Barium (Ba)	2006/10/17	1.9		%	25
		Total Beryllium (Be)	2006/10/17	NC		%	25
		Total Bismuth (Bi)	2006/10/17	NC		%	25
		Total Cadmium (Cd)	2006/10/17	NC		%	25
		Total Chromium (Cr)	2006/10/17	NC (1)		%	25
		Total Cobalt (Co)	2006/10/17	2.3		%	25
		Total Copper (Cu)	2006/10/17	0.3		%	25
		Total Lead (Pb)	2006/10/17	NC		%	25
		Total Lithium (Li)	2006/10/17	11.1		%	25
		Total Manganese (Mn)	2006/10/17	1.2		%	25
		Total Molybdenum (Mo)	2006/10/17	3.6		%	25
		Total Nickel (Ni)	2006/10/17	1.1		%	25
		Total Potassium (K)	2006/10/17	1.8		%	25
		Total Selenium (Se)	2006/10/17	NC		%	25
		Total Silver (Ag)	2006/10/17	NC		%	25
		Total Strontium (Sr)	2006/10/17	1.8		%	25
		Total Thallium (Tl)	2006/10/17	NC		%	25
		Total Tin (Sn)	2006/10/17	NC		%	25
		Total Titanium (Ti)	2006/10/17	NC		%	25
		Total Uranium (U)	2006/10/17	0.3		%	25
		Total Vanadium (V)	2006/10/17	1.6		%	25
		Total Zinc (Zn)	2006/10/17	NC		%	25
1310923 VL	MATRIX SPIKE						
	[D19544-01]	Special Analysis	2006/10/19		94	%	N/A
	SPIKE	Special Analysis	2006/10/19		110	%	N/A
	BLANK	Special Analysis	2006/10/19	<1		N/A	
	RPD [D19544-01]	Special Analysis	2006/10/19	1.0		%	N/A
1311629 CK	SPIKE	Turbidity	2006/10/18		100	%	80 - 120
	BLANK	Turbidity	2006/10/18	<0.1		NTU	
	RPD [D19545-01]	Turbidity	2006/10/18	NC		%	25
1312285 MX	MATRIX SPIKE	Total Nitrogen (N)	2006/10/18		100	%	80 - 120
	SPIKE	Total Nitrogen (N)	2006/10/18		97	%	80 - 120
	BLANK	Total Nitrogen (N)	2006/10/18	<0.02		mg/L	
	RPD	Total Nitrogen (N)	2006/10/18	1.0		%	25
1312379 SC2	MATRIX SPIKE	Ammonia (N)	2006/10/18		92	%	80 - 120
	SPIKE	Ammonia (N)	2006/10/18		97	%	80 - 120
	BLANK	Ammonia (N)	2006/10/18	0.005, RDL=0.005		mg/L	
	RPD	Ammonia (N)	2006/10/18	1.6		%	25
1312409 HD5	SPIKE	Total Suspended Solids	2006/10/19		102	%	N/A
	BLANK	Total Suspended Solids	2006/10/19	<1		mg/L	
1312942 TS1	MATRIX SPIKE	Total Organic Carbon (C)	2006/10/18		82	%	80 - 120

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA648711

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1312942 TS1	SPIKE	Total Organic Carbon (C)	2006/10/18		106	%	80 - 120
	BLANK	Total Organic Carbon (C)	2006/10/18	<0.5		mg/L	
	RPD [D19545-01]	Total Organic Carbon (C)	2006/10/18	NC		%	20
1313180 JT3	MATRIX SPIKE	Dissolved Mercury (Hg)	2006/10/19		114	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2006/10/19		104	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2006/10/19		102	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2006/10/19	<0.05		ug/L	
	RPD	Dissolved Mercury (Hg)	2006/10/19	NC		%	25
1313204 GS2	BLANK	Dissolved Boron (B)	2006/10/18	<0.008		mg/L	
		Dissolved Calcium (Ca)	2006/10/18	<0.05		mg/L	
		Dissolved Iron (Fe)	2006/10/18	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2006/10/18	<0.05		mg/L	
		Dissolved Phosphorus (P)	2006/10/18	<0.1		mg/L	
		Dissolved Silicon (Si)	2006/10/18	<0.05		mg/L	
		Dissolved Sodium (Na)	2006/10/18	<0.05		mg/L	
		Dissolved Zirconium (Zr)	2006/10/18	<0.005		mg/L	
	RPD [D19543-01]	Dissolved Boron (B)	2006/10/18	NC		%	25
		Dissolved Calcium (Ca)	2006/10/18	0.3		%	25
		Dissolved Iron (Fe)	2006/10/18	NC		%	25
		Dissolved Magnesium (Mg)	2006/10/18	0.2		%	25
		Dissolved Phosphorus (P)	2006/10/18	NC		%	25
		Dissolved Silicon (Si)	2006/10/18	0.2		%	25
		Dissolved Sodium (Na)	2006/10/18	0.7		%	25
		Dissolved Zirconium (Zr)	2006/10/18	NC		%	25
1314062 MM3	MATRIX SPIKE	Fluoride (F)	2006/10/19		101	%	80 - 120
	SPIKE	Fluoride (F)	2006/10/19		98	%	80 - 120
	BLANK	Fluoride (F)	2006/10/19	0.01, RDL=0.01		mg/L	
	RPD	Fluoride (F)	2006/10/19	NC		%	25
1314305 CMP	MATRIX SPIKE	Total Phosphorus (P)	2006/10/19		90	%	80 - 120
	SPIKE	Total Phosphorus (P)	2006/10/19		102	%	80 - 120
	BLANK	Total Phosphorus (P)	2006/10/19	<0.002		mg/L	
	RPD [D19541-01]	Total Phosphorus (P)	2006/10/19	NC		%	25
1314317 CMP	MATRIX SPIKE	Dissolved Phosphorus (P)	2006/10/19		92	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2006/10/19		95	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2006/10/19	<0.002		mg/L	
	RPD	Dissolved Phosphorus (P)	2006/10/19	NC		%	20
1314507 SC2	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/10/19		100	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2006/10/19		99	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2006/10/19	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/10/19	1		%	20
1314513 SC2	MATRIX SPIKE	Chloride (Cl)	2006/10/19		112	%	80 - 120
	SPIKE	Chloride (Cl)	2006/10/19		106	%	80 - 120
	BLANK	Chloride (Cl)	2006/10/19	<0.5		mg/L	
	RPD	Chloride (Cl)	2006/10/19	NC		%	20
1315017 MM3	SPIKE	pH	2006/10/19		101	%	96 - 104
	RPD	pH	2006/10/19	0.2		%	25
1315053 MM3	SPIKE	Conductivity	2006/10/19		100	%	80 - 120
	BLANK	Conductivity	2006/10/19	<1		uS/cm	
	RPD	Conductivity	2006/10/19	0		%	25
1315055 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2006/10/19		93	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2006/10/19		98	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2006/10/19	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2006/10/19	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2006/10/19	1.6		%	25
		Alkalinity (PP as CaCO3)	2006/10/19	NC		%	25

WARDROP ENGINEERING INC.
Attention: Alison Reineke
Client Project #: 06513302.00 MINAGO
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA648711

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1315898 GS2	BLANK	Total Boron (B)	2006/10/20	<0.008		mg/L			
		Total Calcium (Ca)	2006/10/20	<0.05		mg/L			
		Total Iron (Fe)	2006/10/20	<0.005		mg/L			
		Total Magnesium (Mg)	2006/10/20	<0.05		mg/L			
		Total Phosphorus (P)	2006/10/20	<0.1		mg/L			
		Total Silicon (Si)	2006/10/20	<0.05		mg/L			
		Total Sodium (Na)	2006/10/20	<0.05		mg/L			
		Total Zirconium (Zr)	2006/10/20	<0.005		mg/L			
		RPD	Total Boron (B)	2006/10/20	0		%	25	
	Total Calcium (Ca)		2006/10/20	1.3		%	25		
	Total Iron (Fe)		2006/10/20	5.6		%	25		
	Total Magnesium (Mg)		2006/10/20	1.1		%	25		
	Total Phosphorus (P)		2006/10/20	NC		%	25		
	Total Silicon (Si)		2006/10/20	0.5		%	25		
	Total Sodium (Na)		2006/10/20	0.5		%	25		
	Total Zirconium (Zr)		2006/10/20	NC		%	25		
	1316153 CMP		MATRIX SPIKE	Dissolved Organic Carbon (C)	2006/10/20		91	%	80 - 120
			SPIKE	Dissolved Organic Carbon (C)	2006/10/20		109	%	80 - 120
		BLANK	Dissolved Organic Carbon (C)	2006/10/20	<0.5		mg/L		
RPD [D19545-01]		Dissolved Organic Carbon (C)	2006/10/20	NC		%	20		
1316196 MX	MATRIX SPIKE	Nitrate plus Nitrite (N)	2006/10/20		111	%	80 - 120		
	SPIKE	Nitrate plus Nitrite (N)	2006/10/20		106	%	80 - 120		
	BLANK	Nitrate plus Nitrite (N)	2006/10/20	<0.02		mg/L			
	RPD	Nitrate plus Nitrite (N)	2006/10/20	NC		%	25		
1316199 MX	MATRIX SPIKE	Nitrite (N)	2006/10/20		108	%	N/A		
	SPIKE	Nitrite (N)	2006/10/20		107	%	N/A		
	BLANK	Nitrite (N)	2006/10/20	<0.005		mg/L			
	RPD	Nitrite (N)	2006/10/20	NC		%	25		
1321608 CY	MATRIX SPIKE	Total Inorganic Carbon (C)	2006/10/25		116	%	80 - 120		
	SPIKE	Total Inorganic Carbon (C)	2006/10/25		103	%	80 - 120		
	BLANK	Total Inorganic Carbon (C)	2006/10/25	<0.5		mg/L			
	RPD [D19540-01]	Total Inorganic Carbon (C)	2006/10/25	0.7		%	25		

N/A = Not Applicable
NC = Non-calculable
RPD = Relative Percent Difference

1) MDL raised due to sample matrix interference.

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511



ANALYSIS REPORT

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Batch: T06-01304.0

Date: 01-Nov-2006

Maxxam Analytics Inc

8577 Commerce Court
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Client Ref. A648711

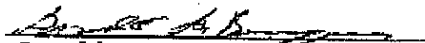
6 water samples Sampled: 12-Oct-2006 Received: 17-Oct-2006 Page 1 of 1

Sample	Results of Analysis			Units	Date	Method
	Test	Result				
D19540-01R \ MRW-1	Ra-226	< 0.01		Bq/l	28-Oct-2006	ALPHA
D19541-01R \ OCW-1	Ra-226	0.02		Bq/l	28-Oct-2006	ALPHA
D19542-01R \ OCW-2A	Ra-226	0.02		Bq/l	28-Oct-2006	ALPHA
D19543-01R \ OCW-3A	Ra-226	0.05		Bq/l	28-Oct-2006	ALPHA
D19544-01R \ DUPLICATE	Ra-226	< 0.01		Bq/l	28-Oct-2006	ALPHA
D19545-01R \ TRIP BLANK	Ra-226	0.02		Bq/l	28-Oct-2006	ALPHA

Methods: ALPHA BQ-RAD-ALPHA alpha-particle spectrometry MDL 0.01 Bq/l

Units: Bq/l Becquerels per litre

These results relate only to the samples analysed and only to the items tested.
These results have not been corrected for blanks.

01-Nov-2006 approved by: 
Donald D. Burgess PhD
Senior Scientist, Division Supervisor

This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.

**Oct. 12, 2006 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**

