

Appendix G4

Report: 2012 Groundwater monitoring and water quality, Meadowbank Mine, Nunavut

DATE October 19, 2012**DOCUMENT No.** Doc. 1386-1212210081 Ver0.**TO** Kevin Buck
Agnico-Eagle Mines Limited Meadowbank Division**CC** Dan Walker, Stéphane Robert**FROM** Valerie Bertrand, Dale Holtze**EMAIL** vbertrand@golder.com**2012 GROUNDWATER MONITORING AND WATER QUALITY RESULTS
MEADOWBANK MINE, NUNAVUT****1.0 INTRODUCTION**

This document provides a summary of the 2012 groundwater monitoring program carried out at the Meadowbank mine site and a summary of water quality results obtained in 2012.

Completion of the groundwater monitoring program is a condition of the Meadowbank Project Certificate No.004 issued by the Nunavut Impact Review Board (NIRB) in December 2006 and of the Water License No. 2AM-MEA0815 issued by the Nunavut Water Board (NWB) June 09, 2008. Maintenance and replacement of defective monitoring wells is also a condition of the Meadowbank NIRB project certificate and Water Licence.

1.1 Background

The proposed Goose Island and Portage open pits will be developed in a through talik (unfrozen ground that extends to the base of the permafrost) underneath Third Portage Lake. The tailings storage facility located in the basin of the north arm of Second Portage Lake is also believed to be situated over a through talik. Groundwater monitoring wells have been installed to provide information on groundwater quality in these taliks prior to and during mine operation. The objective of the groundwater sampling program, initiated in 2003, is two-fold:

- To monitor the salinity and quality of the deep groundwater to validate the pit groundwater inflow component of the site water quality model; and,
- To benchmark pre-mining and pre-tailing deposition groundwater quality against which to measure effects of mining on groundwater quality, if any.

To this end, groundwater flow and quality data has been collected from the Portage area since 2003 and has been used to verify and validate the water quality model results for the site. Groundwater in the Vault area is not monitored because the talik present under Vault Lake is not anticipated to extend through the permafrost to the deep aquifer.

Four monitoring wells were installed at the site in 2003. Three of these wells MW-03-02, MW03-03 and MW03-04) were damaged by frost action between 2004 and 2006. The fourth (MW03-01) was operable until 2010 when it was also damaged by frost action. The three defective wells were replaced in 2006 (MW06-05, MW06-06 and MW-06-07) but were again damaged by frost action. MW06-05 and MW06-06 were replaced in 2008 with a more robust design (MW08-02 and MW08-03). Well MW11-01 was installed on Goose Island adjacent to the Goose



open pit outline, to replace well MW03-01, and well MW11-02 was installed at the tailings storage facility to replace MW06-07, to monitor shallow groundwater quality below the basin where tailings will be deposited. Monitoring well MW11-01 was decommissioned in July 2012 after being damaged during site operations in early 2012. Monitoring well MW11-02 became obstructed with development materials during the 2012 groundwater monitoring program and therefore could not be sampled. The well MW08-03 is also blocked and attempts to unblock the well in 2010, 2011 and 2012 were not successful.

Monitoring well MW08-02 was sampled in 2012. The locations of all groundwater monitoring wells and the instrumented borehole BH10-1 are shown in Figure 1. BH10-1 was sampled in 2010 prior to instrumenting the borehole with a thermistor to monitor ground temperature. This borehole is no longer available for groundwater monitoring.

2.0 MONITORING WELL DEVELOPMENT AND SAMPLE COLLECTION

The 2012 groundwater monitoring program aimed to collect groundwater samples from wells MW08-02, MW08-03 and MW11-02. Prior to sampling, each monitoring well was thawed by energizing the heating cable. Once completely thawed, each well was purged using compressed air and flexible 5/8-inch (o.d.) high density polyethylene (HDPE) WaTerra® tubing to remove melt water from the casing, which is not representative of formation water. Well development involved purging a minimum of 3 well volumes or until field-indicator chemical parameters stabilized (electrical conductivity, temperature and pH). Stabilization was considered to have been achieved when field-indicator readings varied by less than approximately 10% for three consecutive readings. Measurements obtained during well development are included in Appendix A.

Well MW11-01

Well MW11-01 was buried under crushed rock in early 2012 as a result of site operations. The well was subsequently uncovered, however the heat trace cable required to thaw the ice in the well was damaged and the ice could not be thawed. On July 28, 2012 well MW11-01 was decommissioned by sealing the well casing and annular space with well abandonment materials and bentonite pellets to the measured ice plug at 37 metres below the top of the casing.

Well MW11-02

The heating cable at MW11-02 were energized on July 23, 2012 by Agnico-Eagle staff with Golder personnel present. On July 24 the well was ice free and the water level was measured at 31 m below the top of the casing. As part of the well development procedure, WaTerra® tubing was installed in the well to remove melt water using compressed air. During purging, a portion of the tubing that touched the well casing, melted and stuck to the inside of the casing. A short circuit in the heat trace cable caused the cable to become energized beyond its design capacity and overheat the well casing. The melted WaTerra® tubing caused a blockage preventing access to formation water. In the afternoon of July 24, Agnico-Eagle staff adjusted the amperage of the cable. Actions were taken on July 24, 25 and 26 to remove the blockage but the blockage remained at approximately 25 depth, preventing access to formation groundwater. This well could not be sampled in 2012.

Well MW08-02

The heating cables at MW08-02 were energized on July 14, 2012 by Agnico-Eagle staff with Golder personnel present. On July 16 the well was free of ice and the water level was 22 m below the top of the casing. Purging was initiated on July 14 and carried through until July 22nd. A total of 963 litres or 4 well volumes were removed prior to sampling. The purge water was relatively free of sediment and beige-brown. The well remained in good condition throughout the purging process. On July 23, 2012 a nitrogen-operated Solinst® stainless steel Double

Valve Pump (DVP) attached to ¼-inch low density polyethylene (LDPE) tubing was lowered to approximately 135m below the top of the casing. To obtain a sample, the pump was controlled by a Solinst® Model 466 Electronic Pump Control Unit set at a sampling rate of approximately 100 mL/min. The water was color free at the time of sampling. The change in colour is attributed to the sample water passing gently through the LDPE tubing as opposed to turbulently travelling up the casing as it did during the purging process.

Well MW08-03

The heating cable at MW08-03 was energized on July 14, 2012 by Agnico-Eagle staff with Golder personnel present. The ice melted to a depth of 150 meters coinciding with the end of the heating cable. To remove the remaining ice bridge, heated lake water was recirculated in the well above the ice using WaTerra® tubing. On July 18th the well was free of ice to approximately 151 m and the water level had risen to 30 m below the top of the casing. Purging was initiated on July 18 and carried through until July 25th. A total of 657 litres or 3 well volumes were removed. The purge water was relatively free of sediment and beige, however, no sample was collected because field conductivity measurements of the purge water were consistently representative of melt water and not formation water. The ice bridge below 151 meters could not be removed because a longer hose (to recirculate heated water) was not available.

2.1 Sample Shipping

Samples from monitoring well MW08-02 were collected in triplicate. A duplicate pair of samples was shipped to Multilab of Val-d'Or within 24 hours of sampling in a cooler with ice packs and chain-of-custody form. One sample was retained in refrigeration on site for possible future analysis.

3.0 2012 GROUNDWATER MONITORING RESULTS

3.1 Comparative Guidelines

Groundwater quality data is compared to Third Portage Effluent Discharge Limits stated in the Meadowbank Water Licence for illustrative purposes only, since these regulated parameters apply to effluent, not site contact or groundwater quality. Constituent concentrations in the Licence are defined for total rather than dissolved phases and groundwater quality data is provided for both total and dissolved components.

3.2 Quality Assurance/Quality Control

Guideline procedures provided by the USEPA (2002) were followed during the sampling program to ensure that the samples collected from the wells were representative of water flowing through the targeted rock formations. These procedures included the following:

- Measurement of field parameters at selected intervals until stable readings (within 10% of each other) were acquired;
- Minimizing the exposure of the sampled water to the atmosphere;
- Using compressed, inert gas (nitrogen) to lift water from the well for sampling to avoid changing the redox properties of the formation water;
- Conducting in-situ measurements of sensitive chemical parameters (temp. pH, conductivity);
- Keeping the samples refrigerated from the time of collection until shipment to the laboratory; and,
- Shipping the samples to the laboratory in temperature-regulated coolers within the specified sample holding times.

Groundwater samples were collected in triplicate for monitoring well MW08-02. A duplicate pair of samples was shipped to the laboratory after collection. Analytical repeatability was tested by assessing the similarity between duplicate pairs of results. For each duplicate pairs of analysis where both results were higher than 5 times the method detection limit (MDL), the relative percent difference (RPD) was calculated as follows:

$$RPD = \frac{\text{absolute [difference (concentration of a given parameter)]}}{[\text{average (concentration of a given parameter)}]} \times 100$$

Per USEPA recommended methods (USEPA, 1994), an RPD of 20% or less was considered acceptable. Where one or both results of the duplicate pair were less than 5 times the MDL, a margin of +/- MDL was considered acceptable.

4.0 RESULTS

4.1 Groundwater Chemistry

The results of the groundwater analyses collected during the 2003, 2004 and 2006 through 2012 sampling events are presented in Table 2 at the end of the text. The 2012 quality assurance/quality control results are presented in Table 3. Laboratory analytical certificates from the 2012 sampling event are included in Appendix B.

Since salinity of groundwater is of interest in open pit inflow water quality, the concentration of salinity constituents measured are summarized in Table 1.

Table 1: Concentration of Constituents that Relate to Groundwater Salinity

Location	Monitoring Well	Lithology	Sample Year	TDS ¹ (mg/L)	Conductivity (µS/cm)	Chloride (mg/L)
Goose Island	MW03-01	Ultramafic	2003	793	1855	626
			2004	1335	2900	845
			2006	315*	460*	81*
			2007	389	588	126
			2008	1100	3200	950
			2009	1900*	3350*	970*
	MW11-01	Intermediate Volcanic	2010	340	335*	5.7
Third Portage	MW08-02	Intermediate Volcanic	2008	510*	808*	160
			2009	520*	705*	160*
			2010	450	690*	160
			2011	523	782*	169
			2012	307**	616*	111
South basin of Second Portage Arm	BH10-01	Intermediate Volcanic	2010	670*	935*	17
	MW11-02	Intermediate Volcanic	2011	263	400*	20.9

- Notes:** 1. Laboratory measurement except for in 2011 which reported values as dissolved solids;
2. *Italic* field measured value;
3. * average value;
4. ** TDS value calculated from laboratory measured values of dissolved constituents.

Well MW08-02

Three groundwater sample including two duplicates were collected from MW08-02 in 2012. Table 2 shows that concentrations of salinity components in 2012 are the lowest since monitoring was initiated in 2008, but nonetheless, are of similar magnitude to previous values measured at this location. Exceptions include alkalinity and ammonia, where increased concentrations are observed. Concentrations of manganese observed in 2011 and 2012 are consistently elevated compared to results previously obtained in 2008, 2009 and 2010. All parameter concentrations observed in 2012 met Portage effluent quality criteria.

The other wells MW08-03, MW22-01 and MW11-02 could not be sampled.

4.2 Quality Assurance/Quality Control

Table 3 presents the Relative Percent Difference (RPD) or +/- MDL value calculated from the duplicated pair of results.

Approximately 40% of duplicate pairs of analyses had one or both results below the method detection limit and consequently could not be assessed for repeatability. Mercury was the only parameter to exceed the 20% RPD QA/QC criteria, all other remaining duplicate pairs were within the +/- MDL guidance or below the 20% RPD. Trace components and major elements for all samples are considered adequately repeatable.

5.0 CONCLUSION

The groundwater monitoring program was conducted in July 2012. Monitoring well MW08-02 was successfully sampled in triplicate. Monitoring well MW08-03 could not be sampled because of an ice bridge inside the well pipe that could not be removed. This prevented formation groundwater from entering the well. Monitoring well MW11-01 was damaged in spring 2012 and was deemed inoperable, therefore no groundwater samples were collected and the well was subsequently decommissioned in July 2012. Monitoring well MW11-02 located east of the tailings storage facility could not be sampled due to a blockage comprised of well development tubing which prevented access to the formation groundwater.

Groundwater chemistry at MW08-02 was similar to results previously obtained except for lower concentrations of salinity parameters, however concentrations are within the same magnitude as historic values. Groundwater quality results met the Portage effluent quality criteria.

6.0 RECOMMENDATIONS

Consideration should be given to replacing the damaged groundwater wells from around the Portage and Goose open pits with horizontal drain holes, rather than traditional monitoring wells. The reliability of the traditional groundwater well design is undermined by its fragility in the permafrost environment and in this active mine site. Further, to access the talik water, wells must be installed close to the open pit in areas of high traffic and near the active blasting radius making them, at times, difficult to access and operate safely.

Horizontal borehole drilled in open pit walls into the talik may achieve the same purpose of tapping groundwater for sampling and analysis of water quality. Instrumenting the borehole with a piezometer could also facilitate monitoring of inflow to the open pit. The location of the boreholes would need to be designed to target locations and geological features that augment the likelihood of encountering water. New holes could be drilled and instrumented as the pit expands, to replace those lost when pit walls are pushed back.

Actions should be taken in 2013 to remove the WaTerra® tubing blockage in MW11-02 to allow sampling of this well, and similarly for MW08-03, to remove the ice blockage below 151 metres.

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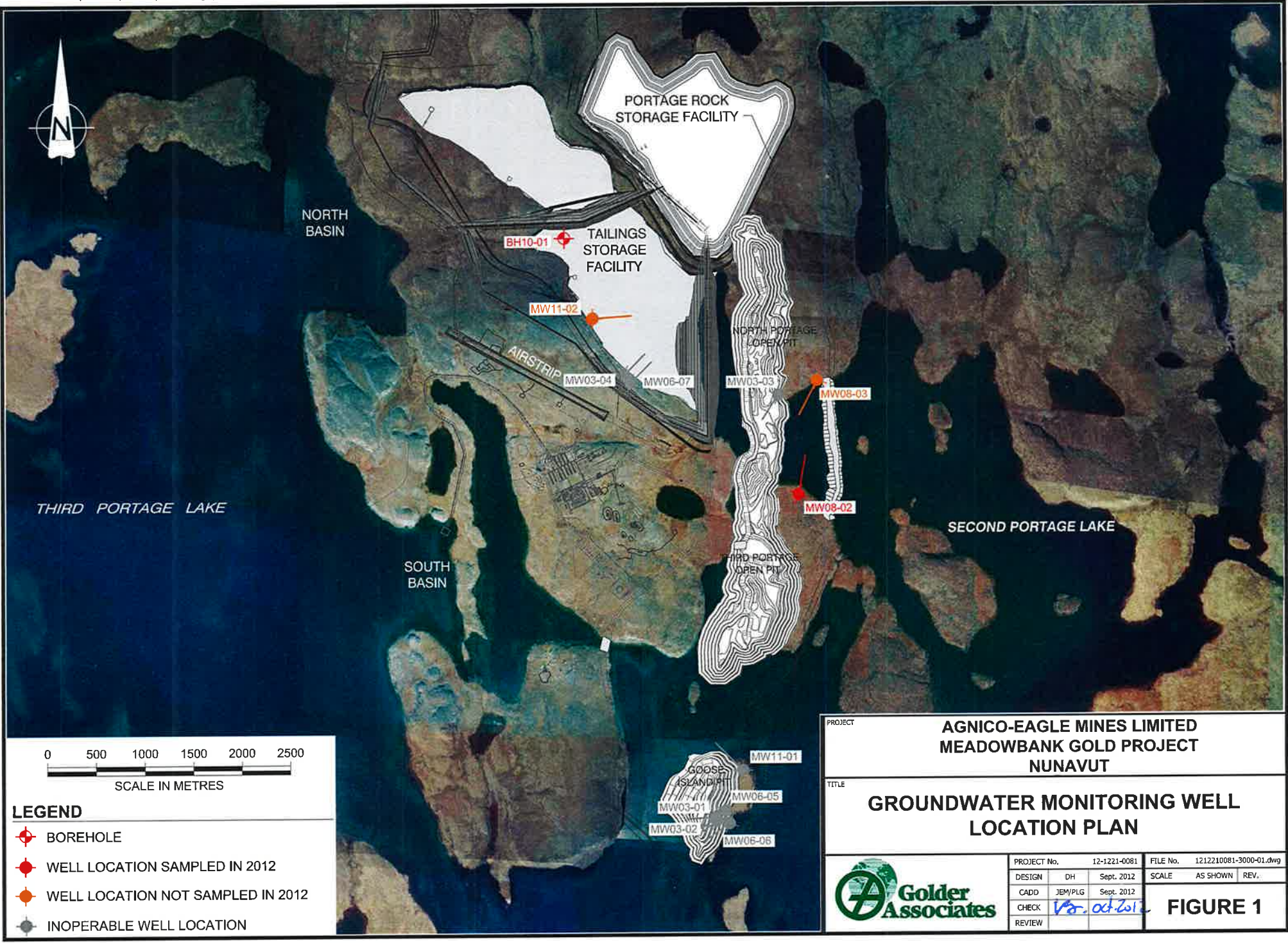
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Attachments: Figure 1
Tables 2, 3
Appendix A - Well development logs
Appendix B - Laboratory Analytical Certificates

REFERENCES

USEPA, 1994. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, DC, February 1994.

USEPA, 2002. USEPA Guidance on Choosing a Sampling Design for Environmental Data Collection. Office of Environmental Information, U.S. Environmental Protection Agency, Washington, DC, December 2002.



PROJECT		AGNICO-EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT	
TITLE		GROUNDWATER MONITORING WELL LOCATION PLAN	
PROJECT No.		12-1221-0081	FILE No.
DESIGN	DH	Sept. 2012	SCALE AS SHOWN REV.
CADD	JEM/PLG	Sept. 2012	FIGURE 1
CHECK	Var. Oct 2012		
REVIEW			



Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcaniclastic		Method Detection Limit	Ultramafic Rock					
			Goose Island			Goose Island					
			MW11-01			MW03-01					
			15979 29-Sep-11	15980 29-Sep-11 FD		9755-2 7-Sep-03	9755-3 7-Sep-03 FD	9044-01 Aug-7-04	12393-01 Aug-8-06	12393-02 Aug-8-06 FD	12395-01 Aug-14-06
FIELD-MEASURED PARAMETERS											
pH	s.u.	6.0-9.0	10.30	-		7.36	7.36	8.03	7.93	-	7.58
Conductivity	uS/cm		3999	-		1855	1855	2500	382	-	538
Alkalinity (mg/L as CaCO3)			-	-		19 - 22	19 - 22	27	33.9	-	48.8
LABORATORY PARAMETERS											
Calculated TDS	mg/L	6.0-9.0	-	-	--	793	793	1335	125	126	292
pH	s.u.		8.11	8.93		7.24	7.30	7.46	-	-	7.36
Conductivity	uS/cm		-	-		-	-	2900	-	-	634
Total Alkalinity	mg/L		23	37		2	30	30	27.3	-	-
Bicarbonate Alkalinity HCO3			-	-		36.6	36.6	33.3	-	-	62.2
Carbonate Alkalinity CO3			-	-		< 0.5	< 0.5	< 0.5	-	-	< 0.5
Hydroxide Alkalinity OH			-	-		< 0.5	< 0.5	< 0.5	-	-	< 0.5
Dissolved Sulphate	mg/L		29	30	1	15.6	15.8	15.9	42.8	43.1	51.1
Hardness CaCO3*			-	-		262	267	380	75.9	77.3	150
Hardness (Total)	mg/L		13264	14759	1	318	388	391	82	81.6	148
Total Suspended Solids	mg/L	15	-	-		-	-	13	-	-	4
Total Dissolved Solids	mg/L		14840	14620	1	793	-	1335	193	-	405
Turbidity	NTU	15	18.1	25.7		-	-	-	-	-	-
Total Metals											
Aluminum ¹	mg/L	0.5	0.248	0.256	0.002	4.16	1.2	0.25	0.4	0.48	0.13
Antimony	mg/L		-	-		<0.001	<0.001	0.0004	<0.0002	<0.0002	< 0.001
Arsenic	mg/L		0.128	0.142	0.0005	<0.001	0.017	0.004	0.0005	0.0006	0.002
Barium	mg/L		0.1484	0.1991	0.0005	0.18	0.2	0.301	0.027	0.028	0.052
Beryllium	mg/L		-	-		<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Bismuth	mg/L		-	-		<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Boron	mg/L		-	-		0.59	1.07	2.43	0.11	0.11	0.27
Cadmium ³	mg/L		<0.00002	0.00009	0.00002	0.00024	0.00037	<0.00004	<0.00004	<0.00004	< 0.0002
Calcium	mg/L		5263	5857	0.03	72	87.1	95.4	19.1	19.1	33.4
Chromium ²	mg/L		-	-		0.049	0.32	0.004	0.0017	0.0021	< 0.001
Cobalt	mg/L		-	-		0.004	0.016	0.0009	0.0005	0.0005	< 0.001
Copper ³	mg/L	0.3	0.0237	0.0357	0.0005	0.044	0.071	0.0035	0.0022	0.002	< 0.001
Iron	mg/L		1.3	1.9	0.01	6.05	10.7	1.14	1.02	1.11	1.1
Lead ³	mg/L	0.2	<0.0003	0.0031	0.0003	0.013	0.03	0.0025	0.0015	0.0013	< 0.001
Lithium	mg/L		-	-		0.025	0.031	0.04	0.0031	0.0032	0.006
Magnesium	mg/L		29.9	32.6	0.02	33.2	41.5	37.1	8.29	8.2	15.6
Manganese	mg/L		0.0433	0.05	0.0005	0.073	0.72	0.415	0.309	0.304	0.93
Mercury	mg/L		0.00073	0.00077	0.00001	-	-	<0.00002	<0.00002	<0.00002	< 0.00002
Molybdenum	mg/L	0.5	<0.0005	<0.0005	0.0005	<0.0005	0.011	0.0083	0.013	0.013	0.012
Nickel ³	mg/L	0.5	0.2	0.2	0.0005	0.056	0.13	0.0045	0.002	0.0022	< 0.001
Phosphorus	mg/L		-	-		0.069	0.075	0.16	<0.03	<0.03	< 0.15
Potassium	mg/L		201	225	0.05	7.31	9.1	9.13	3.63	3.68	6.1
Selenium	mg/L		0.564	0.594	0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Silicon	mg/L		-	-		0.4	4.12	5.07	2.31	2.71	2.7
Silver	mg/L		0.01230	0.01460	0.00020	0.0064	0.011	0.00028	<0.00005	<0.00005	< 0.00025
Sodium	mg/L		344	550	0.05	22	25	357	16	15.9	50.5
Strontium	mg/L		-	-		0.68	0.79	1.56	0.119	0.12	0.28
Tellurium	mg/L		-	-		<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Thallium	mg/L		<0.005	<0.005	0.005	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	< 0.0001
Thorium	mg/L		-	-		<0.0005	0.0038	<0.0001	0.0005	0.0006	< 0.0005
Tin	mg/L		-	-		<0.001	0.002	0.0009	<0.0002	<0.0002	< 0.001
Titanium	mg/L		-	-		0.01	0.22	0.01	0.024	0.029	0.006
Uranium	mg/L		-	-		0.0012	0.0017	0.0003	0.0006	0.0006	< 0.0005
Vanadium	mg/L		-	-		<0.001	0.029	0.0004	0.0007	0.0008	< 0.001
Zinc	mg/L	0.5	0.038	0.091	0.001	0.063	0.087	0.007	0.005	0.005	< 0.005
Zirconium	mg/L		-	-		<0.0010	<0.0010	<0.002	<0.002	<0.002	< 0.01

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcaniclastic		Method Detection Limit	Ultramafic Rock					
			Goose Island			Goose Island					
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			15979 29-Sep-11	15980 29-Sep-11 FD		9755-2 7-Sep-03	9755-3 7-Sep-03 FD	9044-01 Aug-7-04	12393-01 Aug-8-06	12393-02 Aug-8-06 FD	12395-01 Aug-14-06
Dissolved Metals											
Aluminum	mg/L	0.3	0.15	0.01	0.01	0.051	0.011	0.005	0.3	0.3	< 0.005
Antimony	mg/L		-	-	-	<0.001	<0.001	0.0002	<0.0002	<0.0002	< 0.001
Arsenic	mg/L		0.137	0.130	0.005	<0.001	0.003	0.0038	0.0005	0.0005	0.003
Barium	mg/L		0.13	0.136	0.005	0.12	0.13	0.3	0.025	0.025	0.051
Beryllium	mg/L	0.002	-	-	-	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Bismuth	mg/L		-	-	-	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Boron	mg/L		-	-	-	0.53	1.03	2.39	0.1	0.1	0.27
Cadmium	mg/L		<0.005	<0.005	0.005	0.00007	0.00012	<0.00004	<0.00004	<0.00004	< 0.0002
Calcium	mg/L	0.1	5136	5099	0.05	65.6	67	94.2	17.6	17.9	33.7
Chromium ²	mg/L		-	-	-	<0.001	<0.001	0.0002	0.0012	0.0012	< 0.001
Cobalt	mg/L		-	-	-	0.001	0.001	0.0008	0.0004	0.0004	< 0.001
Copper	mg/L		0.021	0.015	0.005	0.002	0.002	0.0004	0.0016	0.0016	< 0.001
Iron	mg/L	0.1	1.3	0.97	0.05	<0.05	0.07	0.08	0.84	0.85	0.2
Lead	mg/L		<0.005	<0.005	0.005	<0.001	<0.001	<0.0002	0.0014	0.0012	< 0.001
Lithium	mg/L		-	-	-	0.017	0.017	0.033	0.0028	0.0027	0.005
Magnesium	mg/L		22.5	25.8	0.05	23.4	24.3	35.1	7.76	7.92	16.1
Manganese	mg/L	0.2	0.029	0.029	0.005	0.06	0.28	0.381	0.286	0.293	0.980
Mercury	mg/L		0.0006	0.0006	0.0005	-	-	<0.00002	<0.00002	<0.00002	< 0.00002
Molybdenum	mg/L		<0.005	<0.005	0.005	<0.0005	0.0057	0.0076	0.012	0.012	0.013
Nickel	mg/L		0.2	0.2	0.005	0.006	0.005	0.0026	0.0019	0.0019	< 0.001
Phosphorus	mg/L	0.4	-	-	-	0.1	0.15	0.04	<0.03	<0.03	< 0.15
Potassium	mg/L		183	192	0.05	5.71	5.95	8.56	3.27	3.28	6.1
Selenium	mg/L		0.637	0.606	0.005	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Silicon	mg/L		-	-	-	0.32	3.27	3.89	1.96	1.98	2.50
Silver	mg/L	0.01	<0.005	<0.005	0.005	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	< 0.00025
Sodium	mg/L		283.0	338.0	0.05	20	22	327.0	15.0	15.6	52.5
Strontium	mg/L		-	-	-	0.58	0.59	1.46	0.111	0.114	0.29
Tellurium	mg/L		-	-	-	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Thallium	mg/L	0.01	<0.01	<0.01	0.01	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	< 0.0001
Thorium	mg/L		-	-	-	<0.0005	<0.0005	<0.0001	0.0004	0.0004	< 0.0005
Tin	mg/L		-	-	-	<0.001	<0.001	<0.0002	<0.0002	<0.0002	< 0.001
Titanium	mg/L		-	-	-	<0.001	<0.001	0.0003	0.019	0.018	< 0.001
Uranium	mg/L	0.005	-	-	-	0.0006	0.0006	0.0003	0.0006	0.0006	< 0.0005
Vanadium	mg/L		-	-	-	<0.001	<0.001	<0.0002	0.0006	0.0006	< 0.001
Zinc	mg/L		0.020	0.013	0.005	0.006	<0.005	0.002	0.005	0.005	< 0.005
Zirconium	mg/L		-	-	-	<0.0010	<0.0010	<0.002	<0.002	<0.002	< 0.01
Anions											
Dissolved Fluoride	mg/L	1000	0.55	0.62	0.02	< 0.05	< 0.05	0.12	0.16	0.17	0.16
Dissolved Chloride	mg/L		10271	9859	0.5	626	621	845	34.7	33.7	128
Nutrients											
Total Nitrogen	mg/L	20*	-	-	-	-	-	-	-	-	-
Ammonium	mg/L		0.07	0.27	0.05	-	-	-	-	-	-
Nitrate and Nitrite	mg/L		-	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Nitrate	mg/L		0.28	0.29	0.01	-	-	< 0.05	< 0.05	< 0.05	< 0.1
Nitrite	mg/L	16	<0.01	<0.01	0.01	-	-	-	0.003	0.004	0.002
Ammonia Nitrogen	mg/L		-	-	-	0.38	0.37	-	0.21	0.19	-
Total Kjeldahl Nitrogen	mg/L	0.07	-	-	-	0.7	0.6	0.3	0.3	0.3	-
Total Phosphorus	mg/L		-	-	-	0.07	0.08	0.05	0.04	0.04	-
Cyanide (mg/L)											
Total	mg/L	1.0	<0.005	-	0.005	-	-	<0.01	-	-	-
Free	mg/L		<0.005	-	0.005	-	-	<0.1	-	-	-

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Ultramafic Rock								
			Goose Island								
			MW03-01								
			8581-01 Aug-17-07	8581-02 Aug-17-07 FD	F66745 15-Sep-08	F68109 15-Sep-08 FD	154321 7-Sep-09	154321 7-Sep-09 Lab-dup	154359 7-Sep-09 FD	L51870 L51884 26-Aug-10	L51870 26-Aug-10 Lab-dup
FIELD-MEASURED PARAMETERS											
pH	s.u.	6.0-9.0	7.43	-	6.70	-	6.97	-	-	7.13	-
Conductivity	uS/cm		776	-	2100	-	2436	-	-	340	-
Alkalinity (mg/L as CaCO3)			39	-	-	-					
LABORATORY PARAMETERS											
Calculated TDS	mg/L	6.0-9.0	249	250	-						-
pH	s.u.		6.78	6.96	7.90	7.80	6.71	-	7.20	6.90	-
Conductivity	uS/cm		588	583	3200	3100	3300	3400	3400	350	-
Total Alkalinity	mg/L		36.7	36.7	24	33	15	17	18	49	-
Bicarbonate Alkalinity HCO3			44.8	44.8	-	-				345	-
Carbonate Alkalinity CO3			< 0.5	< 0.5	-	-				-	-
Hydroxide Alkalinity OH		< 0.5	< 0.5	-	-				-	-	
Dissolved Sulphate	mg/L		46.5	46.3	6	5.7	3.9	-	3.6	87	-
Hardness CaCO3*			107	109	-	-				-	-
Hardness (Total)	mg/L		116	112	310	320	450	-	440	77	-
Total Suspended Solids	mg/L	15	2	3	5	7	-	-	-	-	-
Total Dissolved Solids	mg/L		389	-	1100	-	1900	-	1900	-	-
Turbidity	NTU	15	-	-	3.3	4.1	2.1	-	8.2	210	-
Total Metals											
Aluminum ¹	mg/L	0.5	0.053	0.059	-	-	-	-	-	<0.03	-
Antimony	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Arsenic	mg/L		< 0.001	< 0.001	-	-	-	-	-	<0.002	-
Barium	mg/L		0.053	0.052	-	-	-	-	-	<0.03	-
Beryllium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Bismuth	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Boron	mg/L		0.23	0.23	-	-	-	-	-	-	-
Cadmium ³	mg/L		< 0.0002	< 0.0002	-	-	-	-	-	<0.001	-
Calcium	mg/L		26.1	25.1	73	-	-	-	-	21	-
Chromium ²	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Cobalt	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Copper ³	mg/L	0.3	0.001	0.001	-	-	-	-	-	<0.003	-
Iron	mg/L		0.94	0.93	-	-	-	-	-	0.6	-
Lead ³	mg/L	0.2	0.001	0.001	-	-	-	-	-	-	-
Lithium	mg/L		< 0.005	< 0.005	-	-	-	-	-	-	-
Magnesium	mg/L		12.4	12.1	-	-	-	-	-	6.1	-
Manganese	mg/L		0.77	0.75	-	-	-	-	-	0.55	-
Mercury	mg/L		< 0.00002	< 0.00002	-	-	-	-	-	<0.0001	-
Molybdenum	mg/L		0.0084	0.0084	-	-	-	-	-	<0.03	-
Nickel ³	mg/L	0.5	0.001	0.001	-	-	-	-	-	<0.01	-
Phosphorus	mg/L		< 0.15	< 0.15	-	-	-	-	-	-	-
Potassium	mg/L		4.7	4.5	-	-	-	-	-	2.1	-
Selenium	mg/L		< 0.001	< 0.001	-	-	-	-	-	<0.001	-
Silicon	mg/L		1.4	1.3	-	-	-	-	-	-	-
Silver	mg/L		< 0.00025	< 0.00025	-	-	-	-	-	0.0014	-
Sodium	mg/L		39.1	37.5	-	-	-	-	-	2.5	-
Strontium	mg/L		0.24	0.24	-	-	-	-	-	-	-
Tellurium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Thallium	mg/L		< 0.0001	< 0.0001	-	-	-	-	-	<0.01	-
Thorium	mg/L		< 0.0005	< 0.0005	-	-	-	-	-	-	-
Tin	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Titanium	mg/L		0.003	0.003	-	-	-	-	-	-	-
Uranium	mg/L		< 0.0005	< 0.0005	-	-	-	-	-	-	-
Vanadium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Zinc	mg/L	0.5	0.009	0.009	-	-	-	-	-	0.009	-
Zirconium	mg/L		< 0.01	< 0.01	-	-	-	-	-	-	-

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Ultramafic Rock								
			Goose Island								
			MW03-01								
			8581-01 Aug-17-07	8581-02 Aug-17-07 FD	F66745 15-Sep-08	F68109 15-Sep-08 FD	154321 7-Sep-09	154321 7-Sep-09 Lab-dup	154359 7-Sep-09 FD	L51870 L51884 26-Aug-10	L51870 26-Aug-10 Lab-dup
Dissolved Metals											
Aluminum	mg/L	0.3	< 0.005	0.011	0.0013	0.0068	<0.0001	-	<0.0001	0.03	-
Antimony	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Arsenic	mg/L		< 0.001	< 0.001	0.0001	<0.0001	<0.002	-	<0.002	<0.002	-
Barium	mg/L		0.048	0.051	0.25	0.25	0.42	-	0.39	<0.03	-
Beryllium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Bismuth	mg/L	0.002	< 0.001	< 0.001	-	-	-	-	-	-	-
Boron	mg/L		0.2	0.21	-	-	-	-	-	-	-
Cadmium	mg/L		< 0.0002	< 0.0002	0.0002	<0.0002	<0.001	-	<0.001	<0.001	-
Calcium	mg/L		24	24.5	73	75	100	-	99	18	-
Chromium ²	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Cobalt	mg/L	0.1	< 0.001	< 0.001	-	-	-	-	-	-	-
Copper	mg/L		< 0.001	0.001	0.0015	0.0023	<0.003	-	<0.003	<0.003	-
Iron	mg/L		< 0.05	< 0.05	0.03	<0.03	<0.1	-	<0.1	<0.1	-
Lead	mg/L		< 0.001	< 0.001	0.00021	0.00020	<0.001	-	0.001	<0.001	-
Lithium	mg/L		< 0.005	< 0.005	-	-	-	-	-	-	-
Magnesium	mg/L	0.1	11.4	11.6	31	32	46	-	47	4.1	-
Manganese	mg/L		0.700	0.720	0.430	0.44	0.22	-	0.22	0.36	-
Mercury	mg/L		< 0.00002	< 0.00002	<0.00001	<0.00001	<0.0001	-	<0.0001	<0.0001	-
Molybdenum	mg/L		0.0079	0.0079	0.0082	0.0078	<0.03	-	<0.003	<0.03	-
Nickel	mg/L		0.001	0.001	0.0015	0.0015	<0.01	-	<0.01	<0.01	-
Phosphorus	mg/L	0.2	< 0.15	< 0.15	-	-	-	-	-	-	-
Potassium	mg/L		4.3	4.4	8.4	8.5	11	-	11	1.5	-
Selenium	mg/L		< 0.001	< 0.001	0.001	<0.001	<0.001	-	<0.001	<0.001	-
Silicon	mg/L		1.20	1.20	-	-	-	-	-	-	-
Silver	mg/L		< 0.00025	< 0.00025	0.0001	<0.0001	<0.0003	-	<0.0003	<0.0003	-
Sodium	mg/L	0.4	34.2	35.0	-	-	420	-	430	1.8	-
Strontium	mg/L		0.22	0.22	-	-	-	-	-	-	-
Tellurium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Thallium	mg/L		< 0.0001	< 0.0001	0.002	<0.002	<0.01	-	<0.01	<0.01	-
Thorium	mg/L		< 0.0005	< 0.0005	-	-	-	-	-	-	-
Tin	mg/L	0.4	< 0.001	< 0.001	-	-	-	-	-	-	-
Titanium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Uranium	mg/L		< 0.0005	< 0.0005	-	-	-	-	-	-	-
Vanadium	mg/L		< 0.001	< 0.001	-	-	-	-	-	-	-
Zinc	mg/L		< 0.005	0.005	0.017	0.014	<0.003	-	<0.003	0.011	-
Zirconium	mg/L		< 0.01	< 0.01	-	-	-	-	-	-	-
Anions											
Dissolved Fluoride	mg/L	1000	0.18	0.18	<0.1	<0.1	0.1	-	<0.1	0.2	-
Dissolved Chloride	mg/L		126	126	950	980	990	-	950	5.7	-
Nutrients											
Total Nitrogen	mg/L	20*	< 0.2	0.3	0.53	0.49	-	-	-	-	-
Ammonium	mg/L		-	-	-	-	-	-	-	-	-
Nitrate and Nitrite	mg/L		-	-	<0.2	<0.4	<0.42	-	<0.42	0.09	-
Nitrate	mg/L		< 0.01	0.09	<0.02	<0.02	<0.02	-	<0.02	-	-
Nitrite	mg/L		0.002	< 0.002	<0.2	<0.4	-	-	-	-	-
Ammonia Nitrogen	mg/L	16	0.14	0.15	-	-	0.54	-	0.51	0.08	0.08
Total Kjeldahl Nitrogen	mg/L		< 0.2	0.2	-	-	-	-	-	-	-
Total Phosphorus	mg/L		0.01	0.02	-	-	-	-	-	-	-
Cyanide (mg/L)											
Total	mg/L	1.0	-	-	-	-	-	-	-	-	-
Free	mg/L		-	-	-	-	-	-	-	-	-

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Iron Formation Rock					
			Goose Island					
			MW03-02				MW06-06	
			9756-03 28-Sep-03	9043-01 Jul 31-04	9043-01 Jul 31-04 Decant ^u	9043-02 Jul 31-04 FD	12567-01 24-Aug-06	12567-02 24-Aug-06 FD
FIELD-MEASURED PARAMETERS								
pH	s.u.	6.0-9.0	7.68	7.19	-	-	7.59	-
Conductivity	uS/cm		660	1104	-	-	1306	-
Alkalinity (mg/L as CaCO3)			96 - 100	51	-	-	46.3	-
LABORATORY PARAMETERS								
Calculated TDS	mg/L	6.0-9.0	387	499	-		588	678
pH	s.u.		7.04	7.25	-	7.34	7.33	7.29
Conductivity	uS/cm		-	1270	-	1280	1210	1200
Total Alkalinity	mg/L		103	41.6	-	42.9	49.9	49.9
Bicarbonate Alkalinity HCO3			125	50.8	-	52.4	60.9	60.9
Carbonate Alkalinity CO3			< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5
Hydroxide Alkalinity OH			< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5
Dissolved Sulphate	mg/L		263	38.4	-	38.2	65.1	56
Hardness CaCO3*			290	308	-	-	345	347
Hardness (Total)	mg/L		316	313	292		326	316
Total Suspended Solids	mg/L	15	-	96	-	90	16	28
Total Dissolved Solids	mg/L		-	-	-	-	650	-
Turbidity	NTU	15	-	-	-	-	-	-
Total Metals								
Aluminum ¹	mg/L	0.5	1.07	2.31	0.37	-	0.16	0.13
Antimony	mg/L		<0.001	0.0003	0.0002	-	<0.001	<0.001
Arsenic	mg/L		0.002	0.0038	0.002	-	0.003	0.003
Barium	mg/L		0.028	0.096	0.076	-	0.024	0.024
Beryllium	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Bismuth	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Boron	mg/L		0.06	0.97	0.87	-	0.36	0.31
Cadmium ³	mg/L		<0.0002	0.00018	0.0001	-	<0.0002	<0.0002
Calcium	mg/L		68.3	74.7	72.5	-	89.3	86.1
Chromium ²	mg/L		0.003	0.008	0.0012	-	<0.001	<0.001
Cobalt	mg/L		0.004	0.0072	0.0045	-	0.002	0.002
Copper ³	mg/L	0.3	0.004	0.007	0.002	-	0.001	0.005
Iron	mg/L		2.96	4.72	0.68	-	0.57	0.57
Lead ³	mg/L	0.2	0.002	0.0035	0.0005	-	<0.001	<0.001
Lithium	mg/L		0.021	0.021	0.017	-	0.029	0.028
Magnesium	mg/L		35.2	30.7	27	-	25	24.5
Manganese	mg/L		1.04	0.517	0.417	-	0.41	0.43
Mercury	mg/L		<0.00002	< 0.00002	< 0.00002	-	<0.00002	<0.00002
Molybdenum	mg/L		0.022	0.015	0.013	-	0.0087	0.009
Nickel ³	mg/L	0.5	0.008	0.017	0.011	-	0.007	0.01
Phosphorus	mg/L		0.19	0.34	0.09	-	1.2	1.2
Potassium	mg/L		5.94	7.8	6.9	-	6.7	6.5
Selenium	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Silicon	mg/L		10.7	13.8	7.57	-	4.7	4.6
Silver	mg/L		<0.0001	0.00067	0.00016	-	<0.00025	<0.00025
Sodium	mg/L		6.81	91.9	84.9	-	59	55.9
Strontium	mg/L		0.26	0.759	0.691	-	0.75	0.72
Tellurium	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Thallium	mg/L		<0.0001	0.00006	< 0.00002	-	<0.0001	<0.0001
Thorium	mg/L		0.0007	< 0.0001	< 0.0001	-	<0.0005	<0.0005
Tin	mg/L		<0.001	0.0003	< 0.0002	-	<0.001	<0.001
Titanium	mg/L		0.063	0.158	0.02	-	0.005	0.005
Uranium	mg/L		0.0084	0.002	0.0013	-	0.0018	0.0018
Vanadium	mg/L		0.002	0.0039	0.0006	-	0.002	0.002
Zinc	mg/L	0.5	0.014	0.042	0.015	-	<0.005	<0.005
Zirconium	mg/L		<0.0010	< 0.002	< 0.002	-	<0.01	<0.01

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Iron Formation Rock					
			Goose Island					
			MW03-02				MW06-06	
			9756-03 28-Sep-03	9043-01 Jul 31-04	9043-01 Jul 31-04 Decant ^g	9043-02 Jul 31-04 FD	12567-01 24-Aug-06	12567-02 24-Aug-06 FD
Dissolved Metals								
Aluminum	mg/L	0.3	0.47	0.019	-	-	<0.005	<0.005
Antimony	mg/L		<0.001	0.0003	-	-	<0.001	<0.001
Arsenic	mg/L		0.002	0.002	-	-	0.002	0.002
Barium	mg/L		0.023	0.086	-	-	0.018	0.019
Beryllium	mg/L	0.002	<0.001	< 0.0002	-	-	<0.001	<0.001
Bismuth	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001
Boron	mg/L		0.06	0.94	-	-	0.37	0.44
Cadmium	mg/L		<0.0002	0.00016	-	-	<0.0002	<0.0002
Calcium	mg/L	0.1	63.1	73.5	-	-	87.1	85.3
Chromium ²	mg/L		0.001	0.0004	-	-	<0.001	<0.001
Cobalt	mg/L		0.004	0.0060	-	-	<0.001	<0.001
Copper	mg/L		0.004	0.0014	-	-	0.001	<0.001
Iron	mg/L	0.1	1.91	0.05	-	-	<0.05	<0.05
Lead	mg/L		0.001	< 0.0002	-	-	<0.001	<0.001
Lithium	mg/L		0.019	0.016	-	-	0.028	0.025
Magnesium	mg/L		32.1	30.2	-	-	24.0	23.6
Manganese	mg/L	0.2	0.96	0.492	-	-	0.006	0.003
Mercury	mg/L		<0.00002	< 0.02	-	-	<0.00002	<0.00002
Molybdenum	mg/L		0.018	0.014	-	-	0.0081	0.0069
Nickel	mg/L		0.007	0.012	-	-	0.005	0.004
Phosphorus	mg/L	0.4	0.16	< 0.03	-	-	0.9	0.8
Potassium	mg/L		5.36	7.43	-	-	6.6	5.8
Selenium	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001
Silicon	mg/L		7.98	5.88	-	-	4.1	3.8
Silver	mg/L	0.4	<0.0001	< 0.00005	-	-	<0.00025	<0.00025
Sodium	mg/L		6.29	89.5	-	-	58.2	55.9
Strontium	mg/L		0.24	0.736	-	-	0.72	0.76
Tellurium	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001
Thallium	mg/L	0.4	<0.0001	< 0.00002	-	-	<0.0001	<0.0001
Thorium	mg/L		<0.0005	< 0.0001	-	-	<0.0005	<0.0005
Tin	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001
Titanium	mg/L		0.024	0.0008	-	-	<0.001	<0.001
Uranium	mg/L	0.4	0.0077	0.0013	-	-	0.0016	0.0014
Vanadium	mg/L		<0.001	< 0.0002	-	-	0.001	0.001
Zinc	mg/L		0.012	0.029	-	-	<0.005	<0.005
Zirconium	mg/L		<0.0010	< 0.002	-	-	<0.01	<0.01
Anions								
Dissolved Fluoride	mg/L	1000	0.35	0.6	-	0.57	0.55	0.63
Dissolved Chloride	mg/L		5.4	251	-	259	304	331
Nutrients								
Total Nitrogen	mg/L	20*	-	-	-	-	-	-
Ammonium	mg/L		-	-	-	-	-	-
Nitrate and Nitrite	mg/L		< 0.05	< 0.05	-	< 0.05	-	-
Nitrate	mg/L		< 0.05	< 0.05	-	< 0.05	< 0.25	< 0.25
Nitrite	mg/L	16	0.005	0.006	-	0.007	0.005	0.004
Ammonia Nitrogen	mg/L		0.19	0.07	-	0.05	-	-
Total Kjeldahl Nitrogen	mg/L		-	0.4	-	-	0.6	0.6
Total Phosphorus	mg/L		0.10	0.23	-	0.25	-	-
Cyanide (mg/L)								
Total	mg/L	1.0	-	<0.01	-	-	-	-
Free	mg/L		-	<0.1	-	-	-	-

FD = Field Duplicate

- Not analyzed

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic Rock				Intermediate Volcanic			Method Detection Limit
			North Portage			Goose Island	Second Portage Arm (tailings disposal area)			
			MW03-03			MW06-05	MW03-04	MW06-07		
			9756-02 25-Sep-03	9045-01 Aug-9-04	9045-02 Aug-9-04 FD		9756-01 18-Sep-03	12568-01 30-Aug-06	12568-02 30-Aug-06 FD	
FIELD-MEASURED PARAMETERS										
pH	s.u.	6.0-9.0	8.63	7.77	-		7.67	8.00	8.00	-
Conductivity	uS/cm		350	627	-		370 - 450	440	440	-
Alkalinity (mg/L as CaCO3)			87	102	-	-	-	84	84	-
LABORATORY PARAMETERS										
Calculated TDS	mg/L	6.0-9.0	254	239			154	172**	162**	-
pH	s.u.		7.83	7.96	-	-	-	7.54	7.57	-
Conductivity	uS/cm		-	640	-		-	281	285	0.001
Total Alkalinity	mg/L		93.8	133	-	-	-	89	89	1
Bicarbonate Alkalinity HCO3			114	162	-	-	-	108	108	0.5
Carbonate Alkalinity CO3			< 0.5	< 0.5	-	-	-	< 0.5	< 0.5	0.5
Hydroxide Alkalinity OH		< 0.5	< 0.5	-	-	-	< 0.5	< 0.5	0.5	
Dissolved Sulphate	mg/L		26.6	6.2	-	-	63.8	4	3.76	0.1
Hardness CaCO3*			136	210	-	-	53	106	107	1
Hardness (Total)	mg/L		144	216	-	-	-	124	128	1
Total Suspended Solids	mg/L	15	-	1	-	-	-	11	11	1
Total Dissolved Solids	mg/L		-	-	-	-	-	220	220	0.2
Turbidity	NTU	15	-	-	-	-	-	-	-	0.2
Total Metals										
Aluminum ¹	mg/L	0.5	0.018	0.12	-	-	-	1.08	1.06	0.03
Antimony	mg/L		0.002	0.0002	-	-	-	< 0.001	< 0.001	0.001
Arsenic	mg/L		0.004	0.015	-	-	-	0.001	0.002	0.002
Barium	mg/L		0.02	0.05	-	-	-	0.11	0.11	0.03
Beryllium	mg/L		<0.001	< 0.0002	-	-	-	< 0.001	< 0.001	0.001
Bismuth	mg/L		<0.001	< 0.0002	-	-	-	< 0.001	< 0.001	0.001
Boron	mg/L		0.09	0.19	-	-	-	< 0.05	< 0.05	0.05
Cadmium ³	mg/L		<0.0002	0.00006	-	-	-	< 0.0002	< 0.0002	0.001
Calcium	mg/L		28	47.7	-	-	-	34.9	36.4	0.1
Chromium ²	mg/L		<0.001	0.001	-	-	-	0.006	0.005	0.001
Cobalt	mg/L		<0.001	0.0004	-	-	-	0.001	0.001	0.001
Copper ³	mg/L	0.3	<0.001	0.0014	-	-	-	0.011	0.011	0.003
Iron	mg/L		<0.05	0.46	-	-	-	1.5	1.58	0.1
Lead ³	mg/L	0.2	0.001	0.0006	-	-	-	0.001	0.001	0.001
Lithium	mg/L		0.007	0.0092	-	-	-	0.004	0.004	0.001
Magnesium	mg/L		18	23.5	-	-	-	8.81	9.04	0.1
Manganese	mg/L		0.11	0.131	-	-	-	0.073	0.074	0.003
Mercury	mg/L		<0.00002	< 0.00002	-	-	-	< 0.00002	< 0.00002	0.0001
Molybdenum	mg/L		0.056	0.093	-	-	-	0.005	0.0048	0.03
Nickel ³	mg/L	0.5	0.003	0.0024	-	-	-	0.005	0.005	0.01
Phosphorus	mg/L		0.07	0.08	-	-	-	0.4	0.4	0.01
Potassium	mg/L		3.51	2.65	-	-	-	2.7	2.8	0.1
Selenium	mg/L		<0.001	< 0.0002	-	-	-	< 0.001	< 0.001	0.001
Silicon	mg/L		3.78	5.96	-	-	-	5	5	0.05
Silver	mg/L		<0.0001	0.0001	-	-	-	0.0009	0.0009	0.00030
Sodium	mg/L		17.6	33.6	-	-	-	8.85	9.12	0.03
Strontium	mg/L		0.26	0.581	-	-	-	0.23	0.24	0.001
Tellurium	mg/L		<0.001	< 0.0002	-	-	-	< 0.001	< 0.001	0.001
Thallium	mg/L		<0.0001	< 0.00002	-	-	-	< 0.0001	< 0.0001	0.01
Thorium	mg/L		<0.0005	< 0.0001	-	-	-	< 0.0005	< 0.0005	0.0005
Tin	mg/L		<0.001	< 0.0002	-	-	-	< 0.001	< 0.001	0.001
Titanium	mg/L		<0.001	0.0045	-	-	-	0.032	0.031	0.001
Uranium	mg/L		0.012	0.0088	-	-	-	0.0095	0.0097	0.0005
Vanadium	mg/L		<0.001	0.0002	-	-	-	0.002	0.002	0.001
Zinc	mg/L	0.5	<0.005	0.006	-	-	-	0.006	0.006	0.005
Zirconium	mg/L		<0.0010	< 0.002	-	-	-	< 0.01	< 0.01	0.001

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic Rock				Intermediate Volcanic			Method Detection Limit
			North Portage			Goose Island	Second Portage Arm (tailings disposal area)			
			MW03-03			MW06-05	MW03-04	MW06-07		
			9756-02 25-Sep-03	9045-01 Aug-9-04	9045-02 Aug-9-04 FD		9756-01 18-Sep-03	12568-01 30-Aug-06	12568-02 30-Aug-06 FD	26-Aug-10
Dissolved Metals										
Aluminum	mg/L	0.3	0.018	0.006	-	-	0.72	0.04	0.042	0.03
Antimony	mg/L		0.002	< 0.0002	-	-	0.001	< 0.001	< 0.001	0.001
Arsenic	mg/L		0.004	0.013	-	-	0.007	< 0.001	0.0010	0.0020
Barium	mg/L		0.018	0.048	-	-	0.03	0.086	0.086	0.03
Beryllium	mg/L	0.002	<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Bismuth	mg/L		<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Boron	mg/L		0.08	0.17	-	-	<0.05	< 0.05	< 0.05	0.05
Cadmium	mg/L		<0.0002	0.00004	-	-	<0.0002	< 0.0002	< 0.0002	0.001
Calcium	mg/L	0.1	26.3	47.1	-	-	15	31	31.5	0.1
Chromium ²	mg/L		<0.001	0.0003	-	-	<0.001	< 0.001	< 0.001	0.001
Cobalt	mg/L		<0.001	0.0003	-	-	0.003	< 0.001	< 0.001	0.0010
Copper	mg/L		<0.001	0.0002	-	-	0.006	0.005	0.008	0.003
Iron	mg/L	0.1	<0.05	< 0.01	-	-	0.55	< 0.05	0.05	0.1
Lead	mg/L		<0.001	< 0.0002	-	-	0.006	< 0.001	< 0.001	0.001
Lithium	mg/L		0.007	0.0081	-	-	0.015	0.002	0.002	0.001
Magnesium	mg/L		17.1	22.4	-	-	3.81	6.83	6.92	0.1
Manganese	mg/L	0.2	0.1	0.130	-	-	0.049	0.032	0.032	0.003
Mercury	mg/L		<0.00002	< 0.02	-	-	<0.00002	< 0.00002	< 0.00002	0.0001
Molybdenum	mg/L		0.052	0.09	-	-	0.024	0.004	0.0042	0.030
Nickel	mg/L		0.003	0.0018	-	-	0.003	0.002	0.002	0.01
Phosphorus	mg/L	0.4	0.07	< 0.03	-	-	5.58	0.3	0.3	0.01
Potassium	mg/L		3.33	2.64	-	-	5.44	2.3	2.3	0.1
Selenium	mg/L		<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Silicon	mg/L		3.62	5.70	-	-	10.2	2.70	2.70	0.05
Silver	mg/L	0.0005	<0.0001	< 0.00005	-	-	<0.0001	< 0.00025	< 0.00025	0.0003
Sodium	mg/L		16.5	32.0	-	-	52.9	7.7	7.8	0.1
Strontium	mg/L		0.24	0.556	-	-	0.14	0.2	0.2	0.001
Tellurium	mg/L		<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Thallium	mg/L	0.001	<0.0001	< 0.00002	-	-	<0.0001	< 0.0001	< 0.0001	0.01
Thorium	mg/L		<0.0005	< 0.0001	-	-	<0.0005	< 0.0005	< 0.0005	0.0005
Tin	mg/L		<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Titanium	mg/L		<0.001	0.0003	-	-	0.003	< 0.001	< 0.001	0.001
Uranium	mg/L	0.0005	0.012	0.0087	-	-	0.013	0.008	0.008	0.0005
Vanadium	mg/L		<0.001	< 0.0002	-	-	<0.001	< 0.001	< 0.001	0.001
Zinc	mg/L		<0.005	0.004	-	-	0.022	< 0.005	< 0.005	0.005
Zirconium	mg/L		<0.0010	< 0.002	-	-	<0.0010	< 0.01	< 0.01	0.001
Anions										
Dissolved Fluoride	mg/L	1000	0.46	0.38	-	-	0.34	0.2	0.11	0.1
Dissolved Chloride	mg/L		50.4	121	-	-	13.4	33.3	33.5	0.05
Nutrients										
Total Nitrogen	mg/L	20*	-	-	-	-	-	-	-	<0.02
Ammonium	mg/L		-	-	-	-	-	-	-	-
Nitrate and Nitrite	mg/L		0.15	< 0.05	< 0.01	-	< 0.05	-	-	0.02
Nitrate	mg/L		0.15	< 0.05	-	-	< 0.05	0.12	0.12	0.05
Nitrite	mg/L	16	0.003	< 0.002	-	-	0.004	0.003	0.003	0.002
Ammonia Nitrogen	mg/L		0.08	-	-	-	-	-	-	0.01
Total Kjeldahl Nitrogen	mg/L	0.2	-	0.2	0.2	-	-	-	-	0.2
Total Phosphorus	mg/L		0.07	0.05	0.10	-	-	-	-	0.02
Cyanide (mg/L)										
Total	mg/L	1.0	-	<0.01	<0.01	-	-	-	-	-
Free	mg/L		-	<0.1	<0.1	-	-	-	-	-

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic and Quartzite		Intermediate Volcaniclastic		Method Detection Limit
				Second Portage Lake Arm		Second Portage Lake Arm		
				BH 10-01		MW11-02		
				L51892 L51894 27-Aug-10	L51893 L51895 27-Aug-10 FD	15870 26-Sep-11	15871 26-Sep-11 FD	28-Sep-11
FIELD-MEASURED PARAMETERS								
Temperature		°C	6.0-9.0	3.9	-	8.9	-	
pH		s.u.		7.60	-	8.93	-	
Conductivity		uS/cm		910	-	8.93	-	
LABORATORY PARAMETERS								
Calculated TDS (mg/L)	CaCO3	s.u.	6.0-9.0	393	401	123	123	--
pH				7.55	7.56	7.19	7.40	
Conductivity				930	940	-	-	
Total Alkalinity				110	110	104	103	
Bicarbonate Alkalinity HCO3						-	-	
Carbonate Alkalinity CO3	SO4	mg/L				-	-	2
Hydroxide Alkalinity OH		mg/L				-	-	
Dissolved Sulphate		mg/L	210	210	42	41		
Hardness CaCO3*		mg/L			167	165		
Hardness (Total)		mg/L	300	300	-	-		
Total Suspended Solids	TSS	mg/L	15	-	-	-	-	
Total Dissolved Solids	TDS	mg/L		650	690	263	259	1
Turbidity		NTU	15	56	55	55.8	69.3	
Total Metals								
Aluminum ¹	Al	mg/L	0.5	<0.03	<0.03	1.810	1.23	0.002
Antimony	Sb	mg/L		-	-	-	-	
Arsenic	As	mg/L		0.018	0.018	<0.0005	<0.0005	0.0005
Barium	Ba	mg/L		0.44	0.44	0.2297	0.2097	0.0005
Beryllium	Be	mg/L		-	-	-	-	
Bismuth	Bi	mg/L		-	-	-	-	
Boron	B	mg/L		-	-	-	-	
Cadmium ³	Cd	mg/L		<0.001	<0.001	0.00004	<0.00002	0.00002
Calcium	Ca	mg/L		71	69	49.7	49.2	0.03
Chromium ²	Cr	mg/L		-	-	-	-	
Cobalt	Co	mg/L		-	-	-	-	
Copper ³	Cu	mg/L	0.3	<0.003	<0.003	0.0320	0.0247	0.0005
Iron	Fe	mg/L		3.1	3.1	1.9	0.90	0.01
Lead ³	Pb	mg/L	0.2	<0.001	<0.001	0.0030	0.0039	0.0003
Lithium	Li	mg/L		-	-	-	-	
Magnesium	Mg	mg/L		30	30	10.6	10.4	0.02
Manganese	Mn	mg/L		0.17	0.17	0.2274	0.1853	0.0005
Mercury	Hg	mg/L		<0.0001	<0.0001	0.00058	0.00064	0.00001
Molybdenum	Mo	mg/L		<0.03	<0.03	<0.0005	<0.0005	0.0005
Nickel ²	Ni	mg/L	0.5	0.05	0.04	0.0087	0.0065	0.0005
Phosphorus	P	mg/L		-	-	-	-	
Potassium	K	mg/L		7.7	7.7	1.9	2.0	0.05
Selenium	Se	mg/L		<0.001	<0.001	<0.001	<0.001	0.001
Silicon	SiO2	mg/L		-	-	-	-	
Silver	Ag	mg/L		<0.0003	<0.0003	0.0006	0.0002	0.0002
Sodium	Na	mg/L		58	58	10.5	10.3	0.05
Strontium	Sr	mg/L		-	-	-	-	
Tellurium	Te	mg/L		-	-	-	-	
Thallium	Tl	mg/L		<0.01	0.01	<0.005	<0.005	0.005
Thorium	Th	mg/L		-	-	-	-	
Tin	Sn	mg/L		-	-	-	-	
Titanium	Ti	mg/L		-	-	-	-	
Uranium	U	mg/L		-	-	-	-	
Vanadium	V	mg/L		-	-	-	-	
Zinc	Zn	mg/L	0.5	<0.003	0.005	0.024	0.019	0.001
Zirconium	Zr	mg/L		-	-	-	-	

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic and Quartzite		Intermediate Volcaniclastic		Method Detection Limit
				Second Portage Lake Arm		Second Portage Lake Arm		
				BH 10-01		MW11-02		
				L51892 L51894 27-Aug-10	L51893 L51895 27-Aug-10 FD	15870 26-Sep-11	15871 26-Sep-11 FD	28-Sep-11
Dissolved Metals								
Aluminum	Al	mg/L	0.3	<0.03	<0.03	<0.01	<0.01	0.01
Antimony	Sb	mg/L		-	-	-	-	
Arsenic	As	mg/L		0.007	0.007	<0.005	<0.005	0.005
Barium	Ba	mg/L		0.42	0.44	0.160	0.167	0.005
Beryllium	Be	mg/L		-	-	-	-	
Bismuth	Bi	mg/L		-	-	-	-	
Boron	B	mg/L		-	-	-	-	
Cadmium	Cd	mg/L	0.002	<0.001	<0.001	<0.005	<0.005	0.005
Calcium	Ca	mg/L		68	73	42.8	43.4	0.05
Chromium ²	Cr	mg/L		-	-	-	-	
Cobalt	Co	mg/L		-	-	-	-	
Copper	Cu	mg/L	0.1	<0.003	<0.003	0.008	0.010	0.005
Iron	Fe	mg/L		0.2	0.2	<0.05	<0.05	0.05
Lead	Pb	mg/L	0.1	<0.001	<0.001	<0.005	<0.005	0.005
Lithium	Li	mg/L		-	-	-	-	
Magnesium	Mg	mg/L		30	31	7.7	8.0	0.05
Manganese	Mn	mg/L		0.18	0.18	0.145	0.148	0.005
Mercury	Hg	mg/L		<0.0001	<0.0001	0.0011	0.0010	0.0005
Molybdenum	Mo	mg/L		<0.03	<0.03	<0.005	<0.005	0.005
Nickel	Ni	mg/L	0.2	0.05	0.05	<0.005	<0.005	0.005
Phosphorus	P	mg/L		-	-	-	-	
Potassium	K	mg/L		7.8	8	1.3	1.4	0.05
Selenium	Se	mg/L		<0.001	<0.001	<0.005	<0.005	0.005
Silicon	SiO2	mg/L		-	-	-	-	
Silver	Ag	mg/L		<0.0003	<0.0003	<0.005	<0.005	0.005
Sodium	Na	mg/L		59	61	7.6	7.9	0.05
Strontium	Sr	mg/L		-	-	-	-	
Tellurium	Te	mg/L		-	-	-	-	
Thallium	Tl	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
Thorium	Th	mg/L		-	-	-	-	
Tin	Sn	mg/L		-	-	-	-	
Titanium	Ti	mg/L		-	-	-	-	
Uranium	U	mg/L		-	-	-	-	
Vanadium	V	mg/L		-	-	-	-	
Zinc	Zn	mg/L	0.4	<0.005	0.012	<0.005	0.013	0.005
Zirconium	Zr	mg/L				-	-	
Anions								
Fluoride	F	mg/L		0.4	0.5	0.13	0.18	0.02
Chloride	Cl	mg/L	1000	17	17	20.9	20.7	0.5
Nutrients								
Nitrate and Nitrite	NO3 + NO2	mg/L	20*	0.57	0.57	1.72	1.73	
Nitrate	NO3	mg/L		-	-	1.70	1.70	0.01
Nitrite	NO2	mg/L				0.02	0.03	0.01
Ammonia Nitrogen	N	mg/L	16	3.8	3.8	0.17	0.2	0.05
Total Kjeldahl Nitrogen	N	mg/L				-	-	
Total Phosphorus	P	mg/L				-	-	
Cyanide (mg/L)								
Weak Acid Dissociable Cyanide (CN-)		mg/L		0.1	-	<0.005	-	0.005
Total	CN	mg/L	1.0		-	<0.005	-	0.005
Free	CN	mg/L			-	<0.005	-	0.005

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Iron Formation Rock					
				Goose Island					
				MW03-02				MW06-06	
				9756-03 28-Sep-03	9043-01 Jul 31-04	9043-01 Jul 31-04 Decant ⁸	9043-02 Jul 31-04 FD	12567-01 24-Aug-06	12567-02 24-Aug-06 FD
FIELD-MEASURED PARAMETERS									
Temperature		°C	6.0-9.0	3.5	12	-	-	12.4	-
pH		s.u.		7.68	7.19	-	-	7.59	-
Conductivity		uS/cm		660	1104	-	-	1306	-
LABORATORY PARAMETERS									
Calculated TDS (mg/L)	CaCO3	s.u.	6.0-9.0	387	499	-	-	588	678
pH				7.04	7.25	-	7.34	7.33	7.29
Conductivity		uS/cm		-	1270	-	1280	1210	1200
Total Alkalinity		mg/L		103	41.6	-	42.9	49.9	49.9
Bicarbonate Alkalinity HCO3		mg/L		125	50.8	-	52.4	60.9	60.9
Carbonate Alkalinity CO3	SO4	mg/L		< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5
Hydroxide Alkalinity OH		mg/L		< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5
Dissolved Sulphate		mg/L		263	38.4	-	38.2	65.1	56
Hardness CaCO3*		mg/L		290	308	-	-	345	347
Hardness (Total)		mg/L		316	313	292	-	326	316
Total Suspended Solids	TSS	mg/L	15	-	96	-	90	16	28
Total Dissolved Solids	TDS	mg/L	15	-	-	-	-	-	-
Turbidity	NTU			-	-	-	-	-	-
Total Metals									
Aluminum ¹	Al	mg/L	0.5	1.07	2.31	0.37	-	0.16	0.13
Antimony	Sb	mg/L		<0.001	0.0003	0.0002	-	<0.001	<0.001
Arsenic	As	mg/L		0.002	0.0038	0.002	-	0.003	0.003
Barium	Ba	mg/L		0.028	0.096	0.076	-	0.024	0.024
Beryllium	Be	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Bismuth	Bi	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Boron	B	mg/L		0.06	0.97	0.87	-	0.36	0.31
Cadmium ³	Cd	mg/L		<0.0002	0.00018	0.0001	-	<0.0002	<0.0002
Calcium	Ca	mg/L		68.3	74.7	72.5	-	89.3	86.1
Chromium ²	Cr	mg/L		0.003	0.008	0.0012	-	<0.001	<0.001
Cobalt	Co	mg/L	0.3	0.004	0.0072	0.0045	-	0.002	0.002
Copper ³	Cu	mg/L		0.004	0.007	0.002	-	0.001	0.005
Iron	Fe	mg/L		2.96	4.72	0.68	-	0.57	0.57
Lead ³	Pb	mg/L		0.002	0.0035	0.0005	-	<0.001	<0.001
Lithium	Li	mg/L		0.021	0.021	0.017	-	0.029	0.028
Magnesium	Mg	mg/L	0.2	35.2	30.7	27	-	25	24.5
Manganese	Mn	mg/L		1.04	0.517	0.417	-	0.41	0.43
Mercury	Hg	mg/L		<0.00002	< 0.00002	< 0.00002	-	<0.00002	<0.00002
Molybdenum	Mo	mg/L		0.022	0.015	0.013	-	0.0087	0.009
Nickel ²	Ni	mg/L		0.008	0.017	0.011	-	0.007	0.01
Phosphorus	P	mg/L	0.5	0.19	0.34	0.09	-	1.2	1.2
Potassium	K	mg/L		5.94	7.8	6.9	-	6.7	6.5
Selenium	Se	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Silicon	SiO2	mg/L		10.7	13.8	7.57	-	4.7	4.6
Silver	Ag	mg/L		<0.0001	0.00067	0.00016	-	<0.00025	<0.00025
Sodium	Na	mg/L		6.81	91.9	84.9	-	59	55.9
Strontium	Sr	mg/L		0.26	0.759	0.691	-	0.75	0.72
Tellurium	Te	mg/L		<0.001	< 0.0002	< 0.0002	-	<0.001	<0.001
Thallium	Tl	mg/L		<0.0001	0.00006	< 0.00002	-	<0.0001	<0.0001
Thorium	Th	mg/L		0.0007	< 0.0001	< 0.0001	-	<0.0005	<0.0005
Tin	Sn	mg/L	0.5	<0.001	0.0003	< 0.0002	-	<0.001	<0.001
Titanium	Ti	mg/L		0.063	0.158	0.02	-	0.005	0.005
Uranium	U	mg/L		0.0084	0.002	0.0013	-	0.0018	0.0018
Vanadium	V	mg/L		0.002	0.0039	0.0006	-	0.002	0.002
Zinc	Zn	mg/L		0.014	0.042	0.015	-	<0.005	<0.005
Zirconium	Zr	mg/L		<0.0010	< 0.002	< 0.002	-	<0.01	<0.01

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC			Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Iron Formation Rock					
					Goose Island					
					MW03-02				MW06-06	
					9756-03 28-Sep-03	9043-01 Jul 31-04	9043-01 Jul 31-04 Decant ⁸	9043-02 Jul 31-04 FD	12567-01 24-Aug-06	12567-02 24-Aug-06 FD
Dissolved Metals										
Aluminum	Al	mg/L	0.3	0.47	0.019	-	-	<0.005	<0.005	
Antimony	Sb	mg/L		<0.001	0.0003	-	-	<0.001	<0.001	
Arsenic	As	mg/L		0.002	0.002	-	-	0.002	0.002	
Barium	Ba	mg/L		0.023	0.086	-	-	0.018	0.019	
Beryllium	Be	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001	
Bismuth	Bi	mg/L	0.002	<0.001	< 0.0002	-	-	<0.001	<0.001	
Boron	B	mg/L		0.06	0.94	-	-	0.37	0.44	
Cadmium	Cd	mg/L		<0.0002	0.00016	-	-	<0.0002	<0.0002	
Calcium	Ca	mg/L		63.1	73.5	-	-	87.1	85.3	
Chromium ²	Cr	mg/L		0.001	0.0004	-	-	<0.001	<0.001	
Cobalt	Co	mg/L	0.1	0.004	0.0060	-	-	<0.001	<0.001	
Copper	Cu	mg/L		0.004	0.0014	-	-	0.001	<0.001	
Iron	Fe	mg/L		1.91	0.05	-	-	<0.05	<0.05	
Lead	Pb	mg/L		0.001	< 0.0002	-	-	<0.001	<0.001	
Lithium	Li	mg/L		0.019	0.016	-	-	0.028	0.025	
Magnesium	Mg	mg/L	0.2	32.1	30.2	-	-	24.0	23.6	
Manganese	Mn	mg/L		0.96	0.492	-	-	0.006	0.003	
Mercury	Hg	mg/L		<0.00002	< 0.02	-	-	<0.00002	<0.00002	
Molybdenum	Mo	mg/L		0.018	0.014	-	-	0.0081	0.0069	
Nickel	Ni	mg/L		0.007	0.012	-	-	0.005	0.004	
Phosphorus	P	mg/L	0.4	0.16	< 0.03	-	-	0.9	0.8	
Potassium	K	mg/L		5.36	7.43	-	-	6.6	5.8	
Selenium	Se	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001	
Silicon	SiO2	mg/L		7.98	5.88	-	-	4.1	3.8	
Silver	Ag	mg/L		<0.0001	< 0.00005	-	-	<0.00025	<0.00025	
Sodium	Na	mg/L	0.1	6.29	89.5	-	-	58.2	55.9	
Strontium	Sr	mg/L		0.24	0.736	-	-	0.72	0.76	
Tellurium	Te	mg/L		<0.001	< 0.0002	-	-	<0.001	<0.001	
Thallium	Tl	mg/L		<0.0001	< 0.00002	-	-	<0.0001	<0.0001	
Thorium	Th	mg/L		<0.0005	< 0.0001	-	-	<0.0005	<0.0005	
Tin	Sn	mg/L	0.4	<0.001	< 0.0002	-	-	<0.001	<0.001	
Titanium	Ti	mg/L		0.024	0.0008	-	-	<0.001	<0.001	
Uranium	U	mg/L		0.0077	0.0013	-	-	0.0016	0.0014	
Vanadium	V	mg/L		<0.001	< 0.0002	-	-	0.001	0.001	
Zinc	Zn	mg/L		0.012	0.029	-	-	<0.005	<0.005	
Zirconium	Zr	mg/L		<0.0010	< 0.002	-	-	<0.01	<0.01	
Anions										
Fluoride	F	mg/L	1000	0.35	0.6	-	0.57	0.55	0.63	
Chloride	Cl	mg/L		5.4	251	-	259	304	331	
Nutrients										
Nitrate and Nitrite	NO3 + NO2	mg/L	20*	< 0.05	< 0.05	-	< 0.05	-	-	
Nitrate	NO3	mg/L		< 0.05	< 0.05	-	< 0.05	< 0.25	< 0.25	
Nitrite	NO2	mg/L	16	0.005	0.006	-	0.007	0.005	0.004	
Ammonia Nitrogen	N	mg/L		0.19	0.07	-	0.05	-	-	
Total Kjeldahl Nitrogen	N	mg/L		-	0.4	-	-	0.6	0.6	
Total Phosphorus	P	mg/L		0.10	0.23	-	0.25	-	-	
Cyanide (mg/L)										
Weak Acid Dissociable Cyanide (CN-)		mg/L	1.0	-		-	-	-	-	
Total	CN	mg/L		-	<0.01	-	-	-	-	
Free	CN	mg/L		-	<0.1	-	-	-	-	

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic			
				North Portage			Goose Island
				MW03-03			MW06-05
				9756-02 25-Sep-03	9045-01 Aug-9-04	9045-02 Aug-9-04 FD	
FIELD-MEASURED PARAMETERS							
Temperature		°C	6.0-9.0	2.2	10.3	-	
pH		s.u.		8.63	7.77	-	
Conductivity		uS/cm		350	627	-	
LABORATORY PARAMETERS							
Calculated TDS (mg/L)	CaCO3	s.u.	6.0-9.0	254	239		
pH				7.83	7.96	-	-
Conductivity				-	640	-	-
Total Alkalinity				93.8	133	-	-
Bicarbonate Alkalinity HCO3				114	162	-	-
Carbonate Alkalinity CO3	SO4	mg/L		< 0.5	< 0.5	-	-
Hydroxide Alkalinity OH				< 0.5	< 0.5	-	-
Dissolved Sulphate				26.6	6.2	-	-
Hardness CaCO3*				136	210	-	-
Hardness (Total)				144	216	-	-
Total Suspended Solids	TSS	mg/L	15	-	1	-	-
Total Dissolved Solids	TDS	mg/L		-	-	-	-
Turbidity		NTU	15	-	-	-	-
Total Metals							
Aluminum ¹	Al	mg/L	0.5	0.018	0.12	-	-
Antimony	Sb	mg/L		0.002	0.0002	-	-
Arsenic	As	mg/L		0.004	0.015	-	-
Barium	Ba	mg/L		0.02	0.05	-	-
Beryllium	Be	mg/L		<0.001	< 0.0002	-	-
Bismuth	Bi	mg/L	0.3	<0.001	< 0.0002	-	-
Boron	B	mg/L		0.09	0.19	-	-
Cadmium ³	Cd	mg/L		<0.0002	0.00006	-	-
Calcium	Ca	mg/L		28	47.7	-	-
Chromium ²	Cr	mg/L		<0.001	0.001	-	-
Cobalt	Co	mg/L	0.2	<0.001	0.0004	-	-
Copper ³	Cu	mg/L		<0.001	0.0014	-	-
Iron	Fe	mg/L		<0.05	0.46	-	-
Lead ³	Pb	mg/L		0.001	0.0006	-	-
Lithium	Li	mg/L		0.007	0.0092	-	-
Magnesium	Mg	mg/L	0.5	18	23.5	-	-
Manganese	Mn	mg/L		0.11	0.131	-	-
Mercury	Hg	mg/L		<0.00002	< 0.00002	-	-
Molybdenum	Mo	mg/L		0.056	0.093	-	-
Nickel ²	Ni	mg/L		0.003	0.0024	-	-
Phosphorus	P	mg/L	0.5	0.07	0.08	-	-
Potassium	K	mg/L		3.51	2.65	-	-
Selenium	Se	mg/L		<0.001	< 0.0002	-	-
Silicon	SiO2	mg/L		3.78	5.96	-	-
Silver	Ag	mg/L		<0.0001	0.0001	-	-
Sodium	Na	mg/L	0.5	17.6	33.6	-	-
Strontium	Sr	mg/L		0.26	0.581	-	-
Tellurium	Te	mg/L		<0.001	< 0.0002	-	-
Thallium	Tl	mg/L		<0.0001	< 0.00002	-	-
Thorium	Th	mg/L		<0.0005	< 0.0001	-	-
Tin	Sn	mg/L	0.5	<0.001	< 0.0002	-	-
Titanium	Ti	mg/L		<0.001	0.0045	-	-
Uranium	U	mg/L		0.012	0.0088	-	-
Vanadium	V	mg/L		<0.001	0.0002	-	-
Zinc	Zn	mg/L		<0.005	0.006	-	-
Zirconium	Zr	mg/L		<0.0010	< 0.002	-	-

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC			Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic				
					North Portage			Goose Island	
					MW03-03			MW06-05	
					9756-02 25-Sep-03	9045-01 Aug-9-04	9045-02 Aug-9-04 FD		
Dissolved Metals									
Aluminum	Al	mg/L	0.3	0.018	0.006	-	-		
Antimony	Sb	mg/L		0.002	< 0.0002	-	-		
Arsenic	As	mg/L		0.004	0.013	-	-		
Barium	Ba	mg/L		0.018	0.048	-	-		
Beryllium	Be	mg/L	0.002	<0.001	< 0.0002	-	-		
Bismuth	Bi	mg/L		<0.001	< 0.0002	-	-		
Boron	B	mg/L		0.08	0.17	-	-		
Cadmium	Cd	mg/L		<0.0002	0.00004	-	-		
Calcium	Ca	mg/L	0.1	26.3	47.1	-	-		
Chromium ²	Cr	mg/L		<0.001	0.0003	-	-		
Cobalt	Co	mg/L		<0.001	0.0003	-	-		
Copper	Cu	mg/L		<0.001	0.0002	-	-		
Iron	Fe	mg/L	0.1	<0.05	< 0.01	-	-		
Lead	Pb	mg/L		<0.001	< 0.0002	-	-		
Lithium	Li	mg/L	0.2	0.007	0.0081	-	-		
Magnesium	Mg	mg/L		17.1	22.4	-	-		
Manganese	Mn	mg/L		0.1	0.130	-	-		
Mercury	Hg	mg/L		<0.00002	< 0.02	-	-		
Molybdenum	Mo	mg/L	0.4	0.052	0.09	-	-		
Nickel	Ni	mg/L		0.003	0.0018	-	-		
Phosphorus	P	mg/L		0.07	< 0.03	-	-		
Potassium	K	mg/L		3.33	2.64	-	-		
Selenium	Se	mg/L	0.4	<0.001	< 0.0002	-	-		
Silicon	SiO2	mg/L		3.62	5.70	-	-		
Silver	Ag	mg/L		<0.0001	< 0.00005	-	-		
Sodium	Na	mg/L		16.5	32.0	-	-		
Strontium	Sr	mg/L	0.4	0.24	0.556	-	-		
Tellurium	Te	mg/L		<0.001	< 0.0002	-	-		
Thallium	Tl	mg/L		<0.0001	< 0.00002	-	-		
Thorium	Th	mg/L		<0.0005	< 0.0001	-	-		
Tin	Sn	mg/L	0.4	<0.001	< 0.0002	-	-		
Titanium	Ti	mg/L		<0.001	0.0003	-	-		
Uranium	U	mg/L		0.012	0.0087	-	-		
Vanadium	V	mg/L		<0.001	< 0.0002	-	-		
Zinc	Zn	mg/L	0.4	<0.005	0.004	-	-		
Zirconium	Zr	mg/L		<0.0010	< 0.002	-	-		
Anions									
Fluoride	F	mg/L	1000	0.46	0.38	-	-		
Chloride	Cl	mg/L		50.4	121	-	-		
Nutrients									
Nitrate and Nitrite	NO3 + NO2	mg/L	20*	0.15	< 0.05	< 0.01	-		
Nitrate	NO3	mg/L	16	0.15	< 0.05	-	-		
Nitrite	NO2	mg/L		0.003	< 0.002	-	-		
Ammonia Nitrogen	N	mg/L		0.08	-	-	-		
Total Kjeldahl Nitrogen	N	mg/L		-	0.2	0.2	-		
Total Phosphorus	P	mg/L	1.0	0.07	0.05	0.10	-		
Cyanide (mg/L)									
Weak Acid Dissociable Cyanide (CN-)		mg/L		1.0	-	-	-	-	
Total	CN	mg/L			-	<0.01	<0.01	-	
Free	CN	mg/L	-		<0.1	<0.1	-		

FD = Field Duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic			Method Detection Limit
				Second Portage Arm (tailings disposal area)			
				MW03-04	MW06-07		
				9756-01 18-Sep-03	12568-01 30-Aug-06	12568-02 30-Aug-06 FD	
							27-Aug-10
FIELD-MEASURED PARAMETERS							
Temperature		°C		3.3	5	5	-
pH		s.u.	6.0-9.0	7.67	8.00	8.00	-
Conductivity		uS/cm		370 - 450	440	440	-
LABORATORY PARAMETERS							
Calculated TDS (mg/L)				154	172**	162**	-
pH	CaCO3	s.u.	6.0-9.0	-	7.54	7.57	-
Conductivity		uS/cm		-	281	285	0.001
Total Alkalinity		mg/L		-	89	89	1
Bicarbonate Alkalinity HCO3		mg/L		-	108	108	0.5
Carbonate Alkalinity CO3		mg/L		-	< 0.5	< 0.5	0.5
Hydroxide Alkalinity OH	SO4	mg/L		-	< 0.5	< 0.5	0.5
Dissolved Sulphate		mg/L		63.8	4	3.76	1
Hardness CaCO3*		mg/L		53	106	107	1
Hardness (Total)		mg/L		-	124	128	1
Total Suspended Solids	TSS	mg/L	15	-	11	11	1
Total Dissolved Solids	TDS	mg/L		-	-	-	10
Turbidity		NTU	15	-	-	-	0.1
Total Metals							
Aluminum ¹	Al	mg/L	0.5	-	1.08	1.06	0.03
Antimony	Sb	mg/L		-	< 0.001	< 0.001	0.001
Arsenic	As	mg/L		-	0.001	0.002	0.002
Barium	Ba	mg/L		-	0.11	0.11	0.03
Beryllium	Be	mg/L		-	< 0.001	< 0.001	0.001
Bismuth	Bi	mg/L		-	< 0.001	< 0.001	0.001
Boron	B	mg/L		-	< 0.05	< 0.05	0.05
Cadmium ³	Cd	mg/L		-	< 0.0002	< 0.0002	0.001
Calcium	Ca	mg/L		-	34.9	36.4	0.1
Chromium ²	Cr	mg/L		-	0.006	0.005	0.001
Cobalt	Co	mg/L		-	0.001	0.001	0.001
Copper ³	Cu	mg/L	0.3	-	0.011	0.011	0.003
Iron	Fe	mg/L		-	1.5	1.58	0.1
Lead ³	Pb	mg/L	0.2	-	0.001	0.001	0.001
Lithium	Li	mg/L		-	0.004	0.004	0.001
Magnesium	Mg	mg/L		-	8.81	9.04	0.1
Manganese	Mn	mg/L		-	0.073	0.074	0.003
Mercury	Hg	mg/L		-	< 0.00002	< 0.00002	0.0001
Molybdenum	Mo	mg/L		-	0.005	0.0048	0.0005
Nickel ³	Ni	mg/L	0.5	-	0.005	0.005	0.001
Phosphorus	P	mg/L		-	0.4	0.4	0.01
Potassium	K	mg/L		-	2.7	2.8	0.1
Selenium	Se	mg/L		-	< 0.001	< 0.001	0.001
Silicon	SiO2	mg/L		-	5	5	0.05
Silver	Ag	mg/L		-	0.0009	0.0009	0.00010
Sodium	Na	mg/L		-	8.85	9.12	0.05
Strontium	Sr	mg/L		-	0.23	0.24	0.001
Tellurium	Te	mg/L		-	< 0.001	< 0.001	0.001
Thallium	Tl	mg/L		-	< 0.0001	< 0.0001	0.01
Thorium	Th	mg/L		-	< 0.0005	< 0.0005	0.0005
Tin	Sn	mg/L		-	< 0.001	< 0.001	0.001
Titanium	Ti	mg/L		-	0.032	0.031	0.001
Uranium	U	mg/L		-	0.0095	0.0097	0.0005
Vanadium	V	mg/L		-	0.002	0.002	0.001
Zinc	Zn	mg/L	0.5	-	0.006	0.006	0.005
Zirconium	Zr	mg/L		-	< 0.01	< 0.01	0.001

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits Maximum Average Conc.	Intermediate Volcanic			Method Detection Limit
				Second Portage Arm (tailings disposal area)			
				MW03-04	MW06-07		
				9756-01 18-Sep-03	12568-01 30-Aug-06	12568-02 30-Aug-06 FD	27-Aug-10
Dissolved Metals							
Aluminum	Al	mg/L	0.3	0.72	0.04	0.042	0.03
Antimony	Sb	mg/L		0.001	< 0.001	< 0.001	0.001
Arsenic	As	mg/L		0.007	< 0.001	0.0010	0.0020
Barium	Ba	mg/L		0.03	0.086	0.086	0.03
Beryllium	Be	mg/L		<0.001	< 0.001	< 0.001	0.001
Bismuth	Bi	mg/L	0.002	<0.001	< 0.001	< 0.001	0.001
Boron	B	mg/L		<0.05	< 0.05	< 0.05	0.05
Cadmium	Cd	mg/L		<0.0002	< 0.0002	< 0.0002	0.0002
Calcium	Ca	mg/L		15	31	31.5	0.05
Chromium ²	Cr	mg/L		<0.001	< 0.001	< 0.001	0.001
Cobalt	Co	mg/L	0.1	0.003	< 0.001	< 0.001	0.0010
Copper	Cu	mg/L		0.006	0.005	0.008	0.001
Iron	Fe	mg/L		0.55	< 0.05	0.05	0.1
Lead	Pb	mg/L		0.006	< 0.001	< 0.001	0.001
Lithium	Li	mg/L		0.015	0.002	0.002	0.001
Magnesium	Mg	mg/L	0.2	3.81	6.83	6.92	0.05
Manganese	Mn	mg/L		0.049	0.032	0.032	0.001
Mercury	Hg	mg/L		<0.00002	< 0.00002	< 0.00002	0.0001
Molybdenum	Mo	mg/L		0.024	0.004	0.0042	0.030
Nickel	Ni	mg/L		0.003	0.002	0.002	0.01
Phosphorus	P	mg/L	0.4	5.58	0.3	0.3	0.01
Potassium	K	mg/L		5.44	2.3	2.3	0.1
Selenium	Se	mg/L		<0.001	< 0.001	< 0.001	0.001
Silicon	SiO2	mg/L		10.2	2.70	2.70	0.05
Silver	Ag	mg/L		<0.0001	< 0.00025	< 0.00025	0.0003
Sodium	Na	mg/L	0.0005	52.9	7.7	7.8	0.0
Strontium	Sr	mg/L		0.14	0.2	0.2	0.001
Tellurium	Te	mg/L		<0.001	< 0.001	< 0.001	0.001
Thallium	Tl	mg/L		<0.0001	< 0.0001	< 0.0001	0.01
Thorium	Th	mg/L		<0.0005	< 0.0005	< 0.0005	0.0005
Tin	Sn	mg/L	0.001	<0.001	< 0.001	< 0.001	0.001
Titanium	Ti	mg/L		0.003	< 0.001	< 0.001	0.001
Uranium	U	mg/L		0.013	0.008	0.008	0.0005
Vanadium	V	mg/L		<0.001	< 0.001	< 0.001	0.001
Zinc	Zn	mg/L		0.022	< 0.005	< 0.005	0.005
Zirconium	Zr	mg/L		<0.0010	< 0.01	< 0.01	0.001
Anions							
Fluoride	F	mg/L	1000	0.34	0.2	0.11	0.1
Chloride	Cl	mg/L		13.4	33.3	33.5	0.05
Nutrients							
Nitrate and Nitrite	NO3 + NO2	mg/L	20*	< 0.05	-	-	0.02
Nitrate	NO3	mg/L	16	< 0.05	0.12	0.12	0.05
Nitrite	NO2	mg/L		0.004	0.003	0.003	0.002
Ammonia Nitrogen	N	mg/L		-	-	-	0.1
Total Kjeldahl Nitrogen	N	mg/L		-	-	-	0.2
Total Phosphorus	P	mg/L		-	-	-	0.02
Cyanide (mg/L)							
Weak Acid Dissociable Cyanide (CN-)		mg/L	1.0	-	-	-	-
Total	CN	mg/L		-	-	-	-
Free	CN	mg/L		-	-	-	-

FD = Field Duplicate

- Not analyzed

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits ¹ Maximum Average Conc.	Intermediate Volcanic						
				Second Portage Lake						
				MW08-02						
				F59984 8-Sep-08	F59995 8-Sep-08 FD	147144 29-Aug-09	147172 29-Aug-09 FD	147172 29-Aug-09 Lab Dup	L56096 1-Sep-10	L56473 1-Sep-10 FD
FIELD-MEASURED PARAMETERS										
Temperature		°C	6.0 - 9.0	7.3	-	4.6	-	-	9.2	-
pH		s.u.		7.05	-	7.79	-	-	7.87	-
Conductivity		uS/cm		808	-	616	-	-	690	-
LABORATORY PARAMETERS										
pH	as CaCO ₃	s.u.	6.0 - 9.0	8.00	8.10	7.95	7.96	-	7.74	7.75
Conductivity		uS/cm		-	-	-	710	-	-	-
Total Cyanide		mg/L		-	-	-	-	-	-	-
Total Alkalinity		mg/L		76	76	-	76	-	80	80
Bicarbonate Alkalinity HCO3 (mg/L)		mg/L		76	76	-	-	-	-	-
Carbonate Alkalinity CO3 (mg/L)		mg/L		<2	<2					
Dissolved Sulphate	SO ₄	mg/L		2.5	2.0	3.0	2.9	3.0	-	-
Hardness (Total)	as CaCO ₃	mg/L		240	230	240	850	-	220	220
Sulphate	SO ₄	mg SO4/L								
Total Suspended Solids	TSS	mg/L	15	-	-	-	-	-	-	-
Total Dissolved Solids	TDS	mg/L		500	520	530	510	-	450	490
Turbidity		NTU	15	2.4	2.4	2.2	2.2	-	4	3.9
Total Metals (mg/L)										
Aluminum	Al	mg/L	1.5	-	-	-	-	-	<0.03	<0.03
Antimony	Sb	mg/L		-	-	-	-	-	<0.006	<0.006
Arsenic	As	mg/L	0.3	-	-	-	-	-	0.003	0.003
Barium	Ba	mg/L		-	-	-	-	-	0.03	0.04
Cadmium	Cd	mg/L	0.002	-	-	-	-	-	<0.001	<0.001
Calcium	Ca	mg/L		-	-	-	-	-	45	45
Chromium	Cr	mg/L		-	-	-	-	-	0.03	<0.03
Cobalt	Co	mg/L		-	-	-	-	-	<0.03	<0.03
Copper	Cu	mg/L	0.1	-	-	-	-	-	<0.003	<0.003
Iron	Fe	mg/L		-	-	-	-	-	-	-
Lead	Pb	mg/L	0.1	-	-	-	-	-	<0.001	<0.001
Magnesium	Mg	mg/L		-	-	-	-	-	26	26
Manganese	Mn	mg/L		-	-	-	-	-	0.042	0.044
Mercury	Hg	mg/L	0.0004	-	-	-	-	-	<0.0001	<0.0001
Molybdenum	Mo	mg/L		-	-	-	-	-	0.05	0.05
Nickel	Ni	mg/L	0.2	-	-	-	-	-	0.01	<0.01
Potassium	K	mg/L		-	-	-	-	-	-	-
Selenium	Se	mg/L		-	-	-	-	-	<0.001	<0.001
Silver	Ag	mg/L		-	-	-	-	-	<0.0003	<0.0003
Sodium	Na	mg/L		-	-	-	-	-	32	32
Thallium	Tl	mg/L		-	-	-	-	-	-	-
Zinc	Zn	mg/L	0.4	-	-	-	-	-	0.01	0.01
Dissolved Metals (mg/L)										
Aluminum	Al	mg/L	1.5	0.0046	0.00487	<0.03	<0.03	-	-	-
Arsenic	As	mg/L	0.3	0.0035	0.0035	0.003	<0.002	-	-	-
Barium	Ba	mg/L		0.045	0.043	0.04	<0.03	-	-	-
Cadmium	Cd	mg/L	0.002	<0.0002	<0.0002	<0.001	<0.001	-	-	-
Calcium	Ca	mg/L		50	48	51	340	-	-	-
Copper	Cu	mg/L	0.1	0.00056	0.0011	<0.003	<0.003	-	-	-
Iron	Fe	mg/L		<0.03	<0.03	<0.1	<0.1	-	-	-
Lead	Pb	mg/L	0.1	<0.0001	0.00027	<0.001	<0.001	-	-	-
Magnesium	Mg	mg/L		27	27	27	<1	-	-	-
Manganese	Mn	mg/L		0.03	0.031	<0.003	<0.003	-	-	-
Mercury	Hg	mg/L	0.0	<0.00001	<0.00001	<0.0001	<0.0001	-	-	-
Molybdenum	Mo	mg/L		0.026	0.025	0.07	0.04	-	-	-
Nickel	Ni	mg/L	0.2	0.019	0.019	<0.01	<0.01	-	-	-
Potassium	K	mg/L		1.8	1.5	2	1.3	-	-	-
Selenium	Se	mg/L		<0.001	<0.001	<0.001	<0.001	-	-	-
Silver	Ag	mg/L		<0.0001	<0.0001	<0.0003	<0.0003	-	-	-
Sodium	Na	mg/L		-	-	36	24	-	-	-
Thallium	Tl	mg/L		<0.002	<0.002	<0.01	<0.01	-	-	-
Zinc	Zn	mg/L	0.4	0.014	0.014	0.005	<0.003	-	-	-
Anions (mg/L)										
Fluoride	F	mg/L		0.2	0.2	0.3	0.3	-	0.3	0.3
Chloride	Cl	mg/L	1000	160	180	160	160	180	160	160
Nutrients (mg/L)										
Nitrate and Nitrite	NO3 + NO2	mg/L		<0.1	<0.1	<0.04	<0.04	<0.04	-	-
Nitrate	NO3	mg/L	20	-	-	<0.02	<0.02	<0.02	-	-
Nitrite	NO2	mg/L		<0.1	<0.1	<0.02	<0.02	<0.02	-	-
Ammonia	N	mg/L	16	<0.05	0.05	0.05	0.05	-	0.06	0.06

FD = Field duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits ¹ Maximum Average Conc.	Intermediate Volcanic				Method Detection Limit
				Second Portage Lake				
				MW08-02				25/26-Jul-12 31-Jul-12 1-Aug-12
				15816 21-Sep-11	15817 21-Sep-11 FD	20763 23-Jul-12	20764 23-Jul-12 FD	
FIELD-MEASURED PARAMETERS								
Temperature		°C		8.6	-	20.5	-	
pH		s.u.	6.0 - 9.0	8.05	-	7.94	-	
Conductivity		uS/cm		905	-	616	-	
LABORATORY PARAMETERS								
pH		s.u.	6.0 - 9.0	7.22	7.39	7.81	7.59	--
Conductivity		uS/cm		-	-	-	-	
Total Cyanide	as CaCO ₃	mg/L				<0.005	<0.005	0.005
Total Alkalinity		mg/L	76	76		102	100	2
Bicarbonate Alkalinity HCO3 (mg/L)		mg/L						
Carbonate Alkalinity CO3 (mg/L)		mg/L						
Dissolved Sulphate	SO ₄	mg/L						
Hardness (Total)	as CaCO ₃	mg/L		317	305	170	178	1
Sulphate	SO4	mg SO4/L		4	8	5	3	1
Total Suspended Solids	TSS	mg/L	15			2	4	1
Total Dissolved Solids	TDS	mg/L						
Turbidity		NTU	15	3.2	2.3	8.4	7	0.02
Total Metals (mg/L)								
Aluminum	Al	mg/L	1.5	0.03	<0.006	0.006	<0.006	0.006
Antimony	Sb	mg/L		-	-	-	-	
Arsenic	As	mg/L	0.3	0.0023	0.0020	<0.0005	<0.0005	0.0005
Barium	Ba	mg/L		0.043	0.0370	0.0313	0.0311	0.0005
Cadmium	Cd	mg/L	0.002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002
Calcium	Ca	mg/L		63.1	54.2	35.5	37.4	0.03
Chromium	Cr	mg/L		-	-	-	-	-
Cobalt	Co	mg/L		-	-	-	-	-
Copper	Cu	mg/L	0.1	0.0014	0.0008	<0.0005	<0.0005	0.0005
Iron	Fe	mg/L		1.4	1.4	1.2	1.1	0.01
Lead	Pb	mg/L	0.1	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Magnesium	Mg	mg/L		38.9	38.0	19.8	20.6	0.02
Manganese	Mn	mg/L		0.1338	0.1213	0.133	0.1362	0.0005
Mercury	Hg	mg/L	0.0004	0.00009	0.0001	0.00012	0.0002	0.00001
Molybdenum	Mo	mg/L		0.0016	<0.0005	0.0522	0.053	0.0005
Nickel	Ni	mg/L	0.2	0.0046	0.0037	0.0017	0.002	0.0005
Potassium	K	mg/L		2.1	2.0	2.5	2.6	0.05
Selenium	Se	mg/L		0.005	0.005	0.004	0.006	0.001
Silver	Ag	mg/L		<0.0002	<0.0002	<0.0002	<0.0002	0.0002
Sodium	Na	mg/L		43.3	48.8	26.8	29	0.05
Thallium	Tl	mg/L		0.005	<0.005	<0.005	<0.005	0.005
Zinc	Zn	mg/L	0.4	0.01	0.375	0.005	0.004	0.001
Dissolved Metals (mg/L)								
Aluminum	Al	mg/L	1.5	<0.01	<0.01	<0.01	<0.01	0.01
Arsenic	As	mg/L	0.3	<0.005	<0.005	<0.005	<0.005	0.005
Barium	Ba	mg/L		0.041	0.0410	0.0250	0.0240	0.005
Cadmium	Cd	mg/L	0.002	<0.005	<0.005	<0.005	<0.005	0.005
Calcium	Ca	mg/L		59.9	61	39.1	36.9	0.05
Copper	Cu	mg/L	0.1	<0.005	<0.005	<0.005	<0.005	0.005
Iron	Fe	mg/L		<0.05	<0.05	<0.05	<0.05	0.05
Lead	Pb	mg/L	0.1	<0.005	<0.005	<0.005	<0.005	0.005
Magnesium	Mg	mg/L		35.6	35.5	21.6	20.2	0.05
Manganese	Mn	mg/L		0.107	0.110	0.134	0.128	0.005
Mercury	Hg	mg/L	0.0	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Molybdenum	Mo	mg/L		<0.005	<0.005	0.046	0.043	0.005
Nickel	Ni	mg/L	0.2	<0.005	<0.005	<0.005	<0.005	0.005
Potassium	K	mg/L		2.3	2.4	2.1	1.9	0.05
Selenium	Se	mg/L		0.005	0.005	<0.005	<0.005	0.005
Silver	Ag	mg/L		<0.005	<0.005	<0.005	<0.005	0.005
Sodium	Na	mg/L		44	44.2	25.0	23.3	0.05
Thallium	Tl	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
Zinc	Zn	mg/L	0.4	<0.005	0.013	<0.005	<0.005	0.005
Anions (mg/L)								
Fluoride	F	mg/L		0.32	0.33	0.42	0.37	0.02
Chloride	Cl	mg/L	1000	169	165	111	109	0.5
Nutrients (mg/L)								
Nitrate and Nitrite	NO3 + NO2	mg/L		0.01	<0.01	-	-	
Nitrate	NO3	mg/L	20	0.01	<0.01	0.04	0.04	0.01
Nitrite	NO2	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
Ammonia	N	mg/L	16	0.08	0.07	0.2	0.22	0.01

FD = Field duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC	Units	Portage Attenuation Pond Effluent Limits ¹ Maximum Average Conc.	Intermediate Volcanic		Method Detection Limit	
			Second Portage Lake			
			MW08-03			
			F66637 14-Sep-08	F68088 14-Sep-08 FD	1-Sep-10	
FIELD-MEASURED PARAMETERS						
Temperature		°C	5.0	-		
pH		s.u.	7.10	-		
Conductivity		uS/cm	366	-		
LABORATORY PARAMETERS						
pH		s.u.	6.0 - 9.0	8.10	8.20	-
Conductivity		uS/cm		490	480	0.001
Total Cyanide		mg/L				
Total Alkalinity	as CaCO ₃	mg/L		60	59	2
Bicarbonate Alkalinity HCO ₃ (mg/L)		mg/L		-	-	
Carbonate Alkalinity CO ₃ (mg/L)		mg/L		-	-	
Dissolved Sulphate	SO ₄	mg/L		56	51	0.2
Hardness (Total)	as CaCO ₃	mg/L		180	180	1
Sulphate	SO ₄	mg SO ₄ /L				
Total Suspended Solids	TSS	mg/L	15	56	54	2
Total Dissolved Solids	TDS	mg/L		-	-	10
Turbidity		NTU	15	70	69	0.1
Total Metals (mg/L)						
Aluminum	Al	mg/L	1.5	-	-	0.03
Antimony	Sb	mg/L		-	-	0.006
Arsenic	As	mg/L	0.3	-	-	0.002
Barium	Ba	mg/L		-	-	0.03
Cadmium	Cd	mg/L	0.002	-	-	0.001
Calcium	Ca	mg/L		-	-	1
Chromium	Cr	mg/L		-	-	0.03
Cobalt	Co	mg/L		-	-	0.03
Copper	Cu	mg/L	0.1	-	-	0.003
Iron	Fe	mg/L		-	-	
Lead	Pb	mg/L	0.1	-	-	0.001
Magnesium	Mg	mg/L		-	-	1
Manganese	Mn	mg/L		-	-	0.003
Mercury	Hg	mg/L	0.0004	-	-	0.001
Molybdenum	Mo	mg/L		-	-	0.03
Nickel	Ni	mg/L	0.2	-	-	0.01
Potassium	K	mg/L		-	-	
Selenium	Se	mg/L		-	-	0.001
Silver	Ag	mg/L		-	-	0.0003
Sodium	Na	mg/L		-	-	0.03
Thallium	Tl	mg/L		-	-	
Zinc	Zn	mg/L	0.4	-	-	0.005
Dissolved Metals (mg/L)						
Aluminum	Al	mg/L	1.5	0.0046	0.0041	0.03
Arsenic	As	mg/L	0.3	<0.001	<0.001	0.002/0.001
Barium	Ba	mg/L		0.033	0.034	0.030
Cadmium	Cd	mg/L	0.002	<0.0002	<0.0002	0.001/0.0002
Calcium	Ca	mg/L		46	46	1
Copper	Cu	mg/L	0.1	0.003	0.0039	0.003
Iron	Fe	mg/L		<0.03	<0.03	0.03
Lead	Pb	mg/L	0.1	0.00056	0.00027	0.0001/0.001
Magnesium	Mg	mg/L		17	16	1
Manganese	Mn	mg/L		0.32	0.32	0.003
Mercury	Hg	mg/L	0.0	<0.00001	<0.00001	0.00001/0.0001
Molybdenum	Mo	mg/L		0.14	0.14	0.0005/0.03
Nickel	Ni	mg/L	0.2	<0.001	0.0017	0.01/0.001
Potassium	K	mg/L		4.4	4.5	0.1
Selenium	Se	mg/L		<0.001	<0.001	0.001
Silver	Ag	mg/L		<0.0001	<0.0001	0.0001/0.0003
Sodium	Na	mg/L		-	-	0.03
Thallium	Tl	mg/L		<0.002	<0.002	0.002
Zinc	Zn	mg/L	0.4	0.004	0.0035	0.005
Anions (mg/L)						
Fluoride	F	mg/L		0.3	0.3	0.1
Chloride	Cl	mg/L	1000	3.3	3.6	0.05
Nutrients (mg/L)						
Nitrate and Nitrite	NO ₃ + NO ₂	mg/L		27	27	0.4
Nitrate	NO ₃	mg/L	20	26	26	0.4
Nitrite	NO ₂	mg/L		1.1	1.2	0.02
Ammonia	N	mg/L	16	2.0	2.0	0.02

FD = Field duplicate

- Not analyzed

Table 2
Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC		Units	Portage Attenuation Pond Effluent Limits ¹ Maximum Average Conc.	Intermediate Volcanic		Intermediate Volcanic		Method Detection Limit
				Goose Island		Second Portage Lake Arm		
				MW11-01		MW11-02		
				15979 29-Sep-11	15980 29-Sep-11	15870 26-Sep-11	15871 26-Sep-11	
						FD		FD
FIELD-MEASURED PARAMETERS								
Temperature		°C		0.1		8.9	-	-
pH		s.u.	6.0 - 9.0	10.30		8.93	-	-
Conductivity		uS/cm		3999		445	-	-
LABORATORY PARAMETERS								
pH		s.u.	6.0 - 9.0	8.11	8.93	7.19	7.40	-
Conductivity		uS/cm		-	-	-	-	-
Total Alkalinity	as CaCO ₃	mg/L		23	37	104	103	2
Hardness (Total)	as CaCO ₃	mg/L		13264	14759	167	165	1
Sulphate	SO4	mg SO4/L		29	30	42	41	1
Total Suspended Solids	TSS	mg/L	15	-	-	-	-	
Total Dissolved Solids	TDS	mg/L		14840	14620	263	259	
Turbidity		NTU	15	18.1	25.7	55.8	69.3	
Total Metals (mg/L)								
Aluminum	Al	mg/L	1.5	0.248	0.256	1.81	1.23	0.002
Antimony	Sb	mg/L		-	-	-	-	
Arsenic	As	mg/L	0.3	0.128	0.142	<0.0005	<0.0005	0.0005
Barium	Ba	mg/L		0.1484	0.1991	0.2297	0.2097	0.0005
Cadmium	Cd	mg/L	0.002	<0.00002	0.00009	0.00004	<0.00002	0.00002
Calcium	Ca	mg/L		5263	5857	49.7	49.2	0.03
Chromium	Cr	mg/L		-	-	-	-	-
Cobalt	Co	mg/L		-	-	-	-	-
Copper	Cu	mg/L	0.1	0.0237	0.0357	0.032	0.0247	0.0005
Iron	Fe	mg/L		1.3	1.9	1.9	0.9	0.01
Lead	Pb	mg/L	0.1	<0.0003	0.0031	0.003	0.0039	0.0003
Magnesium	Mg	mg/L		29.9	32.6	10.6	10.4	0.02
Manganese	Mn	mg/L		0.0433	0.05	0.2274	0.1853	0.0005
Mercury	Hg	mg/L	0.0004	0.00073	0.00077	0.00058	0.00064	0.00001
Molybdenum	Mo	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Nickel	Ni	mg/L	0.2	0.2109	0.2269	0.0087	0.0065	0.0005
Potassium	K	mg/L		201	225	1.9	2	0.05
Selenium	Se	mg/L		0.564	0.594	<0.001	<0.001	0.001
Silver	Ag	mg/L		0.0123	0.0146	0.0006	0.0002	0.0002
Sodium	Na	mg/L		344	550	10.5	10.3	0.05
Thallium	Tl	mg/L		<0.005	<0.005	<0.005	<0.005	0.005
Zinc	Zn	mg/L	0.4	0.038	0.091	0.024	0.019	0.001
Dissolved Metals (mg/L)								
Aluminum	Al	mg/L	1.5	0.15	0.01	<0.01	<0.01	0.01
Arsenic	As	mg/L	0.3	0.137	0.13	<0.005	<0.005	0.005
Barium	Ba	mg/L		0.13	0.136	0.16	0.167	0.005
Cadmium	Cd	mg/L	0.002	<0.005	<0.005	<0.005	<0.005	0.005
Calcium	Ca	mg/L		5136	5099	42.8	43.4	0.05
Copper	Cu	mg/L	0.1	0.021	0.015	0.008	0.01	0.005
Iron	Fe	mg/L		1.3	0.97	<0.05	<0.05	0.05
Lead	Pb	mg/L	0.1	<0.005	<0.005	<0.005	<0.005	0.005
Magnesium	Mg	mg/L		22.5	25.8	7.7	8	0.05
Manganese	Mn	mg/L		0.029	0.029	0.145	0.148	0.005
Mercury	Hg	mg/L	0.0004	0.0006	0.0006	0.0011	0.001	0.0005
Molybdenum	Mo	mg/L		<0.005	<0.005	<0.005	<0.005	0.005
Nickel	Ni	mg/L	0.200	0.179	0.171	<0.005	<0.005	0.005
Potassium	K	mg/L		183	192	1.3	1.4	0.05
Selenium	Se	mg/L		0.637	0.606	<0.005	<0.005	0.005
Silver	Ag	mg/L		<0.005	<0.005	<0.005	<0.005	0.005
Sodium	Na	mg/L		283	338	7.6	7.9	0.05
Thallium	Tl	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
Zinc	Zn	mg/L	0.4	0.02	0.013	<0.005	0.013	0.005
Anions (mg/L)								
Fluoride	F	mg/L		0.55	0.62	0.13	0.18	0.02
Chloride	Cl	mg/L	1000	10271	9859	20.9	20.7	0.5
Nutrients (mg/L)								
Nitrate and Nitrite	NO3 + NO2	mg/L		-	-	-	-	-
Nitrate	NO3	mg/L	20	0.28	0.29	1.7	1.7	0.01
Nitrite	NO2	mg/L		<0.01	<0.01	0.02	0.03	0.010
Ammonia	N	mg/L	16	0.07	0.27	0.17	0.2	0.05

FD = Field duplicate

- Not analyzed

Table 3
QA/QC of Groundwater Quality Results
Agnico-Eagle Mines Ltd
Meadowbank Division

Laboratory sample number Sampling date QA/QC			Units	Intermediate Volcanic			
				Second Portage Lake			
				MW08-02			
				20763 23-Jul-12	20764 23-Jul-12	Method Decton Limit	RPD
				FD			
LABORATORY PARAMETERS							
pH		s.u.	7.81	7.59	--	3%	
Total Cyanide (CN)		mg/L	<0.005	<0.005	0.005	--	
Total Alkalinity	CaCO3	mg/L	102	100	2	+/- MDL	
Sulphate	SO4	mg/L	2	4	1	+/- MDL	
Total Suspended Solids	TSS	mg/L	5	3	1	+/- MDL	
Hardness (Total)	as CaCO3	mg/L	170	178	1	5%	
Turbidity		NTU	8.4	7	0.02	18%	
Total Metals							
Aluminum ¹	Al	mg/L	0.006	<0.006	0.006	--	
Arsenic	As	mg/L	<0.0005	<0.0005	0.0005	--	
Barium	Ba	mg/L	0.0313	0.0311	0.0005	+/- MDL	
Cadmium ³	Cd	mg/L	<0.00002	<0.00002	0.00002	--	
Calcium	Ca	mg/L	35.5	37.4	0.03	5%	
Copper ³	Cu	mg/L	<0.0005	<0.0005	0.0005	--	
Iron	Fe	mg/L	1.2	1.10	0.01	9%	
Lead ³	Pb	mg/L	<0.0003	<0.0003	0.0003	--	
Magnesium	Mg	mg/L	19.8	20.6	0.02	4%	
Manganese	Mn	mg/L	0.133	0.1362	0.0005	2%	
Mercury	Hg	mg/L	0.00012	0.00016	0.00001	29%	
Molybdenum	Mo	mg/L	0.0522	0.053	0.0005	2%	
Nickel ³	Ni	mg/L	0.0017	0.002	0.0005	+/- MDL	
Potassium	K	mg/L	2.5	2.6	0.05	4%	
Selenium	Se	mg/L	0.004	0.006	0.001	+/- MDL	
Silver	Ag	mg/L	<0.0002	<0.0002	0.0002	--	
Sodium	Na	mg/L	26.8	29	0.05	8%	
Thallium	Tl	mg/L	<0.005	<0.005	0.005	--	
Zinc	Zn	mg/L	0.005	0.004	0.001	+/- MDL	
Dissolved Metals							
Aluminum	Al	mg/L	<0.01	<0.01	0.01	--	
Arsenic	As	mg/L	<0.005	<0.005	0.005	--	
Barium	Ba	mg/L	0.025	0.024	0.005	+/- MDL	
Cadmium	Cd	mg/L	<0.005	<0.005	0.005	--	
Calcium	Ca	mg/L	39.1	36.9	0.05	6%	
Copper	Cu	mg/L	<0.005	<0.005	0.005	--	
Iron	Fe	mg/L	<0.05	<0.05	0.05	--	
Lead	Pb	mg/L	<0.005	<0.005	0.005	--	
Magnesium	Mg	mg/L	21.6	20.2	0.05	7%	
Manganese	Mn	mg/L	0.134	0.128	0.005	5%	
Mercury	Hg	mg/L	<0.0005	<0.0005	0.0005	--	
Molybdenum	Mo	mg/L	0.0460	0.043	0.005	+/- MDL	
Nickel	Ni	mg/L	<0.005	<0.005	0.005	--	
Potassium	K	mg/L	2.1	1.9	0.05	10%	
Selenium	Se	mg/L	<0.005	<0.005	0.005	--	
Silver	Ag	mg/L	<0.005	<0.005	0.005	--	
Sodium	Na	mg/L	25	23.3	0.05	7%	
Thallium	Tl	mg/L	<0.01	<0.01	0.01	--	
Zinc	Zn	mg/L	<0.005	<0.005	0.005	--	
Anions							
Fluoride	F	mg/L	0.42	0.37	0.02	13%	
Chloride	Cl	mg/L	111	109	0.5	2%	
Nutrients							
Nitrate	NO3	mg/L	0.04	0.04	0.01	+/- MDL	
Nitrite	NO2	mg/L	<0.01	<0.01	0.01	--	
Ammonium	N	mg N/L	0.2	0.22	0.01	2%	

Notes:

Concentrations are mg/L unless otherwise noted.

¹ Part F item 2 of Meadowbank Water License. All regulated parameters for total concentration

RPD value exceeds 20%

FD = Field duplicate

RPD = relative percent difference

-- not calculated (one or both result below MDL)

APPENDIX A

Well Development Logs

MW08-02							
Date	Approximate Depth of Waterra (mbtoc)	Volume Purged (L)	Total Volume Purged (L)	pH	Temperature (C)	Conductivity (uS/cm)	Notes
12-Jul-12		-	-	-	-	-	well frozen at 18.8 mbtoc
15-Jul-12		-	-	-	-	-	water level 28.25 mbtoc, frozen at 151 mbtoc
16-Jul-12	-	20	20	6.28	14.1	240	water level 25.33 mbtoc pre-purge and 60.51 mbtoc post-purge
17-Jul-12	45	15	35	5.47	24.4	325	water level 22.33 mbtoc pre-purge
	65	15	50	5.75	16.6	337	
	85	20	70	5.87	17	337	
	100	20	90	5.95	20	312	
	110	10	100	6.14	16.3	378	
	110	5	105	6.28	18.2	381	
	110	10	115	6.38	16.9	374	
	110	8	123	6.43	17.1	385	
	110	8	131	6.45	16.3	386	
	110	5	136	6.51	15.6	398	
	110	15	151	6.80	25	285	pH meter check, measured 6.96 (pH 7 buffer)
	110	5	156	6.73	19.1	366	
	110	7	163	6.65	17.9	389	
	110	6	169	6.66	17.8	400	
	110	5	174	6.70	21	372	
	110	5	179	6.70	20.4	409	
	110	5	184	6.72	18.3	442	
	120	1	185	6.78	19.6	448	
	120	5	190	6.79	20.5	447	
	120	6	196	6.82	20.7	463	
	120	5	201	6.83	19.8	492	
	120	4	205	6.87	20.1	495	
	120	4	209	-	-	-	
	120	3	212	6.91	20.2	512	
	120	6	218	6.94	25.6	419	
	120	4	222	6.91	21.9	510	water level 66.91 mbtoc post-purge
18-Jul-12	60	30	252	7.76	17.7	536	water level 28.46 mbtoc pre-purge, water level tape advanced to 153 mbtoc
	60	4	256	6.97	16.6	586	
	60	20	276	6.22	19.9	494	
	100	35	311	6.54	10.3	769	
	100	6	317	6.60	12.1	835	
	100	6	323	6.44	17.6	660	
	100	20	343	6.43	21.2	613	
	100	5	348	6.47	20.7	676	
	100	5	353	6.58	21.6	633	
	100	5	358	6.61	20.8	603	
	100	5	363	6.65	23	620	
	100	4	367	6.73	23.1	641	
	100	20	387	6.62	21.5	646	water level 88.24 mbtoc post-purge
	100	40	427	7.95	13.7	868	water level 36.58 mbtoc pre-purge
19-Jul-12	100	15	442	7.11	22.8	740	
	100	10	452	7.29	24.3	702	
	100	5	457	7.21	22.9	736	
	100	15	472	7.13	24.8	675	
	130	30	502	7.48	15.9	778	
	130	12	514	7.22	19	799	
	130	8	522	7.27	22	722	
	130	5	527	7.30	22.2	771	
	130	5	532	7.38	23.7	725	
	130	4	536	7.38	23.8	756	
	130	10	546	7.33	24.6	677	
	130	5	551	7.41	23.4	713	water level 106 mbtoc post-purge
20-Jul-12	95	40	591	7.71	14.6	576	water level 38.38 mbtoc pre-purge
	95	15	606	7.23	22.9	601	
	130	25	631	7.37	16.4	625	
	130	20	651	7.47	21	640	
	130	18	669	7.27	21.5	674	
	130	8	677	7.43	20.5	665	
	130	6	683	7.45	20.3	657	
	130	7	690	7.59	22.3	610	
	150	15	705	7.70	18.4	680	
	150	10	715	7.80	19.3	651	
	150	8	723	7.67	18.9	652	
	150	4	727	7.67	19	632	water level 116.11 mbtoc post-purge
21-Jul-12	100	35	762	7.53	19	562	water level 48.89 mbtoc pre-purge
	100	25	787	7.25	17.6	608	
	95	25	812	6.97	20.3	591	
	95	5	817	7.15	19.5	605	
	120	15	832	7.39	16.3	613	
	120	18	850	7.35	15.5	622	
	150	10	860	7.51	12.7	627	
	150	8	868	7.31	20.8	598	
22-Jul-12	150	8	876	7.26	22.2	580	water level 115 mbtoc post-purge
	100	40	916	7.83	16.8	539	water level 43.26 mbtoc pre-purge
	130	20	936	7.81	12.1	574	
	150	15	951	7.94	12.4	557	
	150	12	963	7.63	19.8	562	

MW08-03							
Date	Approximate Depth of Waterra (mbtoc)	Volume Purged (L)	Total Volume Purged (L)	pH	Temperature (C)	Conductivity (uS/cm)	Notes
12-Jul-12		-	-	-	-	-	well frozen at 63.23 mbtoc
15-Jul-12		-	-	-	-	-	water level near 73 mbtoc, well frozen at 150.92 mbtoc
16-Jul-12		-	-	-	-	-	water level near 71 mbtoc, well frozen at 151.42 mbtoc
18-Jul-12	60	25	25	7.22	38	56	water level 29.81 mbtoc, water level tape advanced to 151.38 mbtoc
	60	10	35	6.5	38.7	35	
	60	3	38	6.56	39.7	31	
	60	1	39	6.74	30.2	32	
	100	20	59	6.5	30.4	31	
	100	10	69	6.53	28.4	28	
	100	12	81	7.19	30.8	26	
	100	6	87	7.43	29.4	35	
	100	10	97	7.12	36.4	38	
	100	5	102	7.33	33.4	38	
	100	5	107	7.45	33	39	
	100	4	111	7.55	30.8	41	
	100	5	116	7.51	34	44	
	100	5	121	7.61	33.6	50	
	120	15	136	7.56	37.9	53	
19-Jul-12	100	20	156	7.43	35.8	77	water level 61.87 mbtoc pre-purge
	100	30	186	7.85	29	71	
	100	24	210	7.98	25.3	63	
	100	30	240	7.55	31.2	70	
	100	15	255	8.11	26.5	60	
	120	20	275	7.87	22.7	52	
	120	15	290	8.1	24.3	64	
	120	15	305	7.97	28.7	65	
	120	12	317	8.11	27.4	65	
	120	15	332	8.01	29.8	71	
	120	10	342	8.09	29.1	69	
	120	15	357	7.8	30.9	65	
	120	10	367	8.1	30.2	72	
	120	10	377	8.15	30.6	70	water level 112.43 mbtoc post-purge
	120	30	407	8.04	32.4	94	water level 88.30 mbtoc pre-purge
20-Jul-12	120	20	427	7.75	29.7	96	
	120	15	442	7.53	27.4	111	
	120	6	448	7.67	25.9	110	
	120	10	458	7.76	32.8	112	
	120	12	470	7.55	31.9	113	
	120	5	475	7.77	29.8	111	
	120	5	480	7.83	29.7	111	
	120	10	490	8.05	32.7	107	
	120	5	495	8.08	30.5	104	
	120	5	500	8.09	29.5	102	water level 118.08 mbtoc post-purge
	130	25	525	7.89	31.7	124	water level 89.59 mbtoc pre-purge
	130	15	540	7.27	30.1	106	
21-Jul-12	130	5	545	7.35	29.4	105	
	130	2	547	7.38	27.1	102	
	130	15	562	6.99	32.3	104	
	130	8	570	7.28	32.8	101	
	130	2	572	7.63	29.4	103	
	130	2	574	7.64	29.5	100	
	130	3	577	7.55	32.5	101	
	130	1	578	7.87	34	120	water level 105.80 mbtoc pre-purge
22-Jul-12	130	10	588	7.72	36.2	114	water level 114.86 mbtoc post-purge
	130	15	603	8.14	31.6	120	water level 107.06 mbtoc pre-purge
23-Jul-12	130	10	613	7.72	32.3	116	
	130	4	617	7.72	29.8	111	
	130	2	619	7.73	25	115	
	130	2	621	7.85	25.3	110	water level 120.36 mbtoc post-purge
	130	8	629	8.11	30.4	128	water level 109.94 mbtoc pre-purge
24-Jul-12	130	8	637	7.69	33.2	111	
	130	5	642	7.35	35.1	114	water level 115.96 mbtoc post-purge
25-Jul-12	130	10	652	-	33.7	136	water level 111.54 mbtoc pre-purge
	130	5	657	-	37.2	110	

APPENDIX B

Laboratory Analytical Certificate

Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stéphane Robert
Address: General Delivery
Baker Lake Nunavut X0C 0A0
Phone: (604) 677-0689 (--)
Fax: (604) 677-0687

Lab number: V-20763

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sample name: MW-08-02A

Sampling hour: 13:00

Sampled by: Dale Holtze/Real Cantin

Date received: July 25, 2012

Matrix: Water

Drinking water distribution:

Reported on: August 06, 2012

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.



Roger Turmel , Chimiste
J'approuve le certificat
2012.08.06 13:20:56 -04'00'

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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Analytical Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Alkalinity	102 mg CaCO ₃ /L	M-ALCA-2.0	July 25, 2012
Aluminium (Al)	0.006 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Aluminium (Al)	<0.01 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Silver (Ag)	<0.0002 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Silver (Ag)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Arsenic (As)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Arsenic (As)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Ammonia nitrogen (NH ₃ -NH ₄)	0.2 mg N/L	Sous-traitance\Multilab Direct	July 30, 2012
Barium (Ba)	0.0313 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Barium (Ba)	0.025 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Cadmium (Cd)	<0.00002 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Cadmium (Cd)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Calcium (Ca)	35.5 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Calcium (Ca)	39.1 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Chloride	111 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Copper (Cu)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Copper (Cu)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Total Cyanide (CNT)	<0.005 mg/L	M-CN-1.0	July 25, 2012
Hardness	170 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Hardness	186 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 01, 2012
Iron (Fe)	1.2 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Iron (Fe)	<0.05 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Fluoride (F)	0.42 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Total Suspended Solids	2 mg/L	M-SOLI-1.0	July 26, 2012
Magnesium (Mg)	19.8 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Magnesium (Mg)	21.6 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Manganese (Mn)	0.1330 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Manganese (Mn)	0.134 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Mercury (Hg)	0.00012 mg/L	Sous-traitance\Multilab Direct	August 03, 2012
Dissolved Mercury (Hg)	<0.0005 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Molybdenum (Mo)	0.0522 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Molybdenum (Mo)	0.046 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
NH ₄	0.20 mg N/L	Sous-traitance\Multilab Direct	July 30, 2012
Nickel (Ni)	0.0017 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Nickel (Ni)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Nitrate (NO ₃)	0.04 mg N/L	Sous-traitance\Multilab Direct	July 26, 2012
Nitrite (NO ₂)	<0.01 mg N/L	Sous-traitance\Multilab Direct	July 26, 2012
pH	7.81	M-PH-2.0	July 25, 2012
Lead (Pb)	<0.0003 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Lead (Pb)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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Analytical Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling date: July 23, 2012

Sampling location: MW-08-02A

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Potassium (K)	2.5 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Potassium (K)	2.1 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Selenium (Se)	0.004 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Selenium (Se)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Sodium (Na)	26.8 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Sodium (Na)	25 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Sulfate (SO4)	5 mg SO4/L	Sous-traitance\Multilab Direct	July 31, 2012
Thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Dissolved thallium (Tl)	<0.01 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Turbidity	8.4 NTU	Sous-traitance\Multilab Direct	July 25, 2012
Zinc (Zn)	0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Zinc	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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Detection limit

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Alkalinity	2 mg CaCO ₃ /L		M-ALCA-2.0	
Aluminium (Al)	0.006 mg/L		Sous-traitance	
Dissolved Aluminium (Al)	0.01 mg/L		Sous-traitance	
Silver (Ag)	0.0002 mg/L		Sous-traitance	Yes
Dissolved Silver (Ag)	0.005 mg/L		Sous-traitance	
Arsenic (As)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Arsenic (As)	0.005 mg/L		Sous-traitance	
Ammonia nitrogen (NH ₃ -NH ₄)	0.01 mg N/L		Sous-traitance	Yes
Barium (Ba)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Barium (Ba)	0.005 mg/L		Sous-traitance	
Cadmium (Cd)	0.00002 mg/L		Sous-traitance	Yes
Dissolved Cadmium (Cd)	0.005 mg/L		Sous-traitance	
Calcium (Ca)	0.03 mg/L		Sous-traitance	Yes
Dissolved Calcium (Ca)	0.05 mg/L		Sous-traitance	
Chloride	0.5 mg/L		Sous-traitance	Yes
Copper (Cu)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Copper (Cu)	0.005 mg/L		Sous-traitance	
Total Cyanide (CNT)	0.005 mg/L		M-CN-1.0	Yes
Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Dissolved Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Iron (Fe)	0.01 mg/L		Sous-traitance	Yes
Dissolved Iron (Fe)	0.05 mg/L		Sous-traitance	
Fluoride (F)	0.02 mg/L		Sous-traitance	Yes
Total Suspended Solids	1 mg/L		M-SOLI-1.0	Yes
Magnesium (Mg)	0.02 mg/L		Sous-traitance	Yes
Dissolved Magnesium (Mg)	0.05 mg/L		Sous-traitance	
Manganese (Mn)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Manganese (Mn)	0.005 mg/L		Sous-traitance	
Mercury (Hg)	0.00001 mg/L		Sous-traitance	Yes
Dissolved Mercury (Hg)	0.0005 mg/L		Sous-traitance	
Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Molybdenum (Mo)	0.005 mg/L		Sous-traitance	
NH ₄	0.05 mg N/L		Sous-traitance	
Nickel (Ni)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Nickel (Ni)	0.005 mg/L		Sous-traitance	
Nitrate (NO ₃)	0.01 mg N/L		Sous-traitance	Yes
Nitrite (NO ₂)	0.01 mg N/L		Sous-traitance	Yes
Lead (Pb)	0.0003 mg/L		Sous-traitance	Yes
Dissolved Lead (Pb)	0.005 mg/L		Sous-traitance	
Potassium (K)	0.05 mg/L		Sous-traitance	

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Detection limit

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Dissolved Potassium (K)	0.05	mg/L	Sous-traitance	
Selenium (Se)	0.001	mg/L	Sous-traitance	Yes
Dissolved Selenium (Se)	0.005	mg/L	Sous-traitance	
Sodium (Na)	0.05	mg/L	Sous-traitance	Yes
Dissolved Sodium (Na)	0.05	mg/L	Sous-traitance	
Sulfate (SO4)	1	mg SO4/L	Sous-traitance	Yes
Thallium (Tl)	0.005	mg/L	Sous-traitance	
Dissolved thallium (Tl)	0.01	mg/L	Sous-traitance	
Turbidity	0.02	UTN	Sous-traitance	Yes
Zinc (Zn)	0.001	mg/L	Sous-traitance	Yes
Dissolved Zinc	0.005	mg/L	Sous-traitance	

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Quality control Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Alkalinity mg CaCO ₃ /L	Standard name std Alk Result 144 Accuracy 99.3% Limit 123 - 167
Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0027-2012-18t Result 6.14 Accuracy 99.2% Limit 5.26 - 7.12
Dissolved Aluminium (Al) mg/L	Blank <0.01
	Standard name DMR-0027-2012-18d Result 6.8 Accuracy 90.1% Limit 5.26 - 7.12
Silver (Ag) mg/L	Blank <0.0002
Dissolved Silver (Ag) mg/L	Blank <0.005
Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0027-2012-18t Result 0.3232 Accuracy 85.8%
	Limit 0.198 - 0.368
Dissolved Arsenic (As) mg/L	Blank <0.005
	Standard name DMR-0027-2012-18d Result 0.321 Accuracy 86.6%
	Limit 0.219 - 0.347
Ammonia nitrogen (NH ₃ -NH ₄) m	Blank <0.01
	Standard name DMR-0507-2012-NH3 Result 1.5 Accuracy 90.9%
	Limit 1.40 - 1.90
Barium (Ba) mg/L	Blank <0.0005
	Standard name DMR-0027-2012-18t Result 2.106 Accuracy 87.8%
	Limit 2.0 - 2.8
Dissolved Barium (Ba) mg/L	Blank <0.005
	Standard name DMR-0027-2012-18d Result 2.23 Accuracy 92.9%

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Quality control Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Cadmium (Cd) mg/L	Limit 2.0 - 2.8 Blank <0.00002 Standard name DMR-0027-2012-18t Result 0.81050 Accuracy 90.1%
Dissolved Cadmium (Cd) mg/L	Limit 0.8 - 1.0 Blank <0.005 Standard name DMR-0027-2012-18d Result 0.818 Accuracy 90.9%
Calcium (Ca) mg/L	Limit 0.8 - 1.0 Blank <0.03 Standard name DMR-0027-2012-18t Result 11.7 Accuracy 83%
Dissolved Calcium (Ca) mg/L	Limit 9 - 12 Blank <0.05 Standard name DMR-0027-2012-18d Result 11.3 Accuracy 87%
Chloride mg/L	Limit 9 - 12 Blank <0.5 Standard name DMR-0507-2012-CL Result 53.0 Accuracy 91.8%
Copper (Cu) mg/L	Limit 43.1 - 54.9 Blank <0.0005 Standard name DMR-0027-2012-18t Result 1.367 Accuracy 89.8%
Dissolved Copper (Cu) mg/L	Limit 1.05 - 1.43 Blank <0.005 Standard name DMR-0027-2012-18d Result 1.41 Accuracy 86.3%
Total Cyanide (CNT) mg/L	Limit 1.05 - 1.43 Blank <0.005 Standard name DMR-0409-2012-5 Result 0.089 Accuracy 90.8%

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Quality control Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Iron (Fe) mg/L	Limit 0.083 - 0.113
	Blank <0.01
	Standard name DMR-0027-2012-18t
	Result 10.4
	Accuracy 99%
Dissolved Iron (Fe) mg/L	Limit 8.9 - 12.1
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 10.4
	Accuracy 99%
Fluoride (F) mg/L	Limit 8.9 - 12.1
	Blank <0.02
	Standard name DMR-0507-2012-12F
	Result 1.5
	Accuracy 96.8%
Total Suspended Solids mg/L	Limit 1.43 - 1.67
	Blank <1
	Standard name STD-MES 25mg/L
	Result 27
	Accuracy 92%
Magnesium (Mg) mg/L	Limit 19 - 31
	Blank <0.02
	Standard name DMR-0027-2012-18t
	Result 5.6
	Accuracy 90.2%
Dissolved Magnesium (Mg) mg/l	Limit 5.28 - 7.14
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 6.3
	Accuracy 98.6%
Manganese (Mn) mg/L	Limit 5.28 - 7.14
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 3.502
	Accuracy 90.7%
Dissolved Manganese (Mn) mg/l	Limit 3.28 - 4.44
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 3.81
	Accuracy 98.7%

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Quality control Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Dissolved Mercury (Hg) mg/L	Limit 3.28 - 4.44
	Blank <0.0005
	Standard name DMR-0027-2012-13-Hg
	Result 0.0050
	Accuracy 81%
Molybdenum (Mo) mg/L	Limit 0.0033 - 0.0051
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 0.6044
	Accuracy 85.7%
Dissolved Molybdenum (Mo) mg	Limit 0.599 - 0.811
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 0.632
	Accuracy 89.6%
NH4 mg N/L Nickel (Ni) mg/L	Limit 0.599 - 0.811
	Blank <0.05
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 1.171
Dissolved Nickel (Ni) mg/L	Accuracy 96.4%
	Limit 0.96 - 1.30
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 1.29
Nitrate (NO3) mg N/L Nitrite (NO2) mg N/L	Accuracy 85.8%
	Limit 0.96 - 1.30
	Blank <0.01
	Blank <0.01
	Standard name DMR-0507-2012-NO2
pH	Result 3.3
	Accuracy 97.6%
	Limit 2.87 - 3.89
	Standard name STD pH 7.00
	Result 7.02
Lead (Pb) mg/L	Accuracy 99.7%
	Limit 6.96 - 7.04
	Blank <0.0003
	Standard name DMR-0027-2012-18t
	Result 0.9300

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Quality control Report

Lab number: V-20763

Sample name: MW-08-02A

Sampling location: MW-08-02A

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Dissolved Lead (Pb) mg/L	Accuracy 96.7%
	Limit 0.8 - 1.0
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 0.930
Potassium (K) mg/L	Accuracy 96.7%
	Limit 0.8 - 1.0
	Blank <0.05
	Standard name DMR-0027-2012-18t
	Result 18.3
Dissolved Potassium (K) mg/L	Accuracy 97.2%
	Limit 15.1 - 20.5
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 20.1
Selenium (Se) mg/L	Accuracy 87.1%
	Limit 15.1 - 20.5
	Blank <0.001
	Standard name DMR-0027-2012-18t
	Result 1.34
Dissolved Selenium (Se) mg/L	Accuracy 99.3%
	Limit 1.15 - 1.55
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 1.44
Sodium (Na) mg/L	Accuracy 93.3%
	Limit 1.15 - 1.55
	Blank <0.05
	Standard name DMR-0027-2012-18t
	Result 14.7
Dissolved Sodium (Na) mg/L	Accuracy 94.2%
	Limit 11.8 - 16.0
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 14.9
Sulfate (SO4) mg SO4/L	Accuracy 92.8%
	Limit 11.8 - 16.0
	Blank <1
	Standard name DMR-0507-2012-SO4
	Result 56

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Additional information

Lab number: V-20763
Sample name: MW-08-02A
Sampling location: MW-08-02A

Sampling date: July 23, 2012
Sampling hour: 13:00

Lab method	Method reference
M-ALCA-2.0	MA.315-Alc-Aci 1.0
M-MET-3.0	MA.200-Mét. 1.2
M-NH3-2.0	MA.300-N 2.0
M-CL-2.0	MA.300-Ions 1.3
M-CN-1.0	MA.300-CN 1.2
M-CI-1.0	MA.300-Anions 1.0
M-SOLI-1.0	MA.104-S.S. 1.1
M-NITR-2.0	MA.300-NO3 2.0
M-PH-2.0	MA.303-Titr Auto 2.0
M-SULF-2.0	MA.300-Ions 1.3
M-TURB-1.0	MA.103-Tur. 1.0

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Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stéphane Robert
Address: General Delivery
Baker Lake Nunavut X0C 0A0
Phone: (604) 677-0689 (--)
Fax: (604) 677-0687

Lab number: V-20764

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sample name: MW-08-02B

Sampling hour: 13:00

Sampled by: Dale Holtze/Real Cantin

Date received: July 25, 2012

Matrix: Water

Drinking water distribution:

Reported on: August 06, 2012

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.



Roger Turmel, Chimiste
J'approuve le certificat
2012.08.06 13:21:16 -04'00'

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Analytical Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Alkalinity	100 mg CaCO ₃ /L	M-ALCA-2.0	July 25, 2012
Aluminium (Al)	<0.006 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Aluminium (Al)	<0.01 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Silver (Ag)	<0.0002 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Silver (Ag)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Arsenic (As)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Arsenic (As)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Ammonia nitrogen (NH ₃ -NH ₄)	0.22 mg N/L	Sous-traitance\Multilab Direct	July 30, 2012
Barium (Ba)	0.0311 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Barium (Ba)	0.024 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Cadmium (Cd)	<0.00002 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Cadmium (Cd)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Calcium (Ca)	37.4 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Calcium (Ca)	36.9 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Chloride	109 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Copper (Cu)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Copper (Cu)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Total Cyanide (CNT)	<0.005 mg/L	M-CN-1.0	July 25, 2012
Hardness	178 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Hardness	175 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 01, 2012
Iron (Fe)	1.1 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Iron (Fe)	<0.05 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Fluoride (F)	0.37 mg/L	Sous-traitance\Multilab Direct	August 02, 2012
Total Suspended Solids	4 mg/L	M-SOLI-1.0	July 26, 2012
Magnesium (Mg)	20.6 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Magnesium (Mg)	20.2 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Manganese (Mn)	0.1362 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Manganese (Mn)	0.128 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Mercury (Hg)	0.00016 mg/L	Sous-traitance\Multilab Direct	August 03, 2012
Dissolved Mercury (Hg)	<0.0005 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Molybdenum (Mo)	0.0530 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Molybdenum (Mo)	0.043 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
NH ₄	0.22 mg N/L	Sous-traitance\Multilab Direct	July 30, 2012
Nickel (Ni)	0.0020 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Nickel (Ni)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Nitrate (NO ₃)	0.04 mg N/L	Sous-traitance\Multilab Direct	July 26, 2012
Nitrite (NO ₂)	<0.01 mg N/L	Sous-traitance\Multilab Direct	July 26, 2012
pH	7.59	M-PH-2.0	July 25, 2012
Lead (Pb)	<0.0003 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Lead (Pb)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012

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Analytical Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Potassium (K)	2.6 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Potassium (K)	1.9 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Selenium (Se)	0.006 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Selenium (Se)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Sodium (Na)	29 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Sodium (Na)	23.3 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Sulfate (SO4)	3 mg SO4/L	Sous-traitance\Multilab Direct	July 31, 2012
Thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Dissolved thallium (Tl)	<0.01 mg/L	Sous-traitance\Multilab Direct	July 31, 2012
Turbidity	7 NTU	Sous-traitance\Multilab Direct	July 25, 2012
Zinc (Zn)	0.004 mg/L	Sous-traitance\Multilab Direct	August 01, 2012
Dissolved Zinc	<0.005 mg/L	Sous-traitance\Multilab Direct	August 01, 2012

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Detection limit

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Alkalinity	2 mg CaCO ₃ /L		M-ALCA-2.0	
Aluminium (Al)	0.006 mg/L		Sous-traitance	
Dissolved Aluminium (Al)	0.01 mg/L		Sous-traitance	
Silver (Ag)	0.0002 mg/L		Sous-traitance	Yes
Dissolved Silver (Ag)	0.005 mg/L		Sous-traitance	
Arsenic (As)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Arsenic (As)	0.005 mg/L		Sous-traitance	
Ammonia nitrogen (NH ₃ -NH ₄)	0.01 mg N/L		Sous-traitance	Yes
Barium (Ba)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Barium (Ba)	0.005 mg/L		Sous-traitance	
Cadmium (Cd)	0.00002 mg/L		Sous-traitance	Yes
Dissolved Cadmium (Cd)	0.005 mg/L		Sous-traitance	
Calcium (Ca)	0.03 mg/L		Sous-traitance	Yes
Dissolved Calcium (Ca)	0.05 mg/L		Sous-traitance	
Chloride	0.5 mg/L		Sous-traitance	Yes
Copper (Cu)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Copper (Cu)	0.005 mg/L		Sous-traitance	
Total Cyanide (CNT)	0.005 mg/L		M-CN-1.0	Yes
Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Dissolved Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Iron (Fe)	0.01 mg/L		Sous-traitance	Yes
Dissolved Iron (Fe)	0.05 mg/L		Sous-traitance	
Fluoride (F)	0.02 mg/L		Sous-traitance	Yes
Total Suspended Solids	1 mg/L		M-SOLI-1.0	Yes
Magnesium (Mg)	0.02 mg/L		Sous-traitance	Yes
Dissolved Magnesium (Mg)	0.05 mg/L		Sous-traitance	
Manganese (Mn)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Manganese (Mn)	0.005 mg/L		Sous-traitance	
Mercury (Hg)	0.00001 mg/L		Sous-traitance	Yes
Dissolved Mercury (Hg)	0.0005 mg/L		Sous-traitance	
Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Molybdenum (Mo)	0.005 mg/L		Sous-traitance	
NH ₄	0.05 mg N/L		Sous-traitance	
Nickel (Ni)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Nickel (Ni)	0.005 mg/L		Sous-traitance	
Nitrate (NO ₃)	0.01 mg N/L		Sous-traitance	Yes
Nitrite (NO ₂)	0.01 mg N/L		Sous-traitance	Yes
Lead (Pb)	0.0003 mg/L		Sous-traitance	Yes
Dissolved Lead (Pb)	0.005 mg/L		Sous-traitance	
Potassium (K)	0.05 mg/L		Sous-traitance	

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Detection limit

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Dissolved Potassium (K)	0.05	mg/L	Sous-traitance	
Selenium (Se)	0.001	mg/L	Sous-traitance	Yes
Dissolved Selenium (Se)	0.005	mg/L	Sous-traitance	
Sodium (Na)	0.05	mg/L	Sous-traitance	Yes
Dissolved Sodium (Na)	0.05	mg/L	Sous-traitance	
Sulfate (SO4)	1	mg SO4/L	Sous-traitance	Yes
Thallium (Tl)	0.005	mg/L	Sous-traitance	
Dissolved thallium (Tl)	0.01	mg/L	Sous-traitance	
Turbidity	0.02	UTN	Sous-traitance	Yes
Zinc (Zn)	0.001	mg/L	Sous-traitance	Yes
Dissolved Zinc	0.005	mg/L	Sous-traitance	

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Quality control Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Alkalinity mg CaCO ₃ /L	Standard name std Alk Result 144 Accuracy 99.3% Limit 123 - 167
Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0027-2012-18t Result 6.14 Accuracy 99.2% Limit 5.26 - 7.12
Dissolved Aluminium (Al) mg/L	Blank <0.01
	Standard name DMR-0027-2012-18d Result 6.8 Accuracy 90.1% Limit 5.26 - 7.12
Silver (Ag) mg/L	Blank <0.0002
Dissolved Silver (Ag) mg/L	Blank <0.005
Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0027-2012-18t Result 0.3232 Accuracy 85.8% Limit 0.198 - 0.368
Dissolved Arsenic (As) mg/L	Blank <0.005
	Standard name DMR-0027-2012-18d Result 0.321 Accuracy 86.6% Limit 0.219 - 0.347
Ammonia nitrogen (NH ₃ -NH ₄) m	Blank <0.01
	Standard name DMR-0507-2012-NH3 Result 1.5 Accuracy 90.9% Limit 1.40 - 1.90
Barium (Ba) mg/L	Blank <0.0005
	Standard name DMR-0027-2012-18t Result 2.106 Accuracy 87.8% Limit 2.0 - 2.8
Dissolved Barium (Ba) mg/L	Blank <0.005
	Standard name DMR-0027-2012-18d Result 2.23 Accuracy 92.9%

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Quality control Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Cadmium (Cd) mg/L	Limit 2.0 - 2.8
	Blank <0.00002
	Standard name DMR-0027-2012-18t
	Result 0.81050
	Accuracy 90.1%
Dissolved Cadmium (Cd) mg/L	Limit 0.8 - 1.0
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 0.818
	Accuracy 90.9%
Calcium (Ca) mg/L	Limit 0.8 - 1.0
	Blank <0.03
	Standard name DMR-0027-2012-18t
	Result 11.7
	Accuracy 83%
Dissolved Calcium (Ca) mg/L	Limit 9 - 12
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 11.3
	Accuracy 87%
Chloride mg/L	Limit 9 - 12
	Blank <0.5
	Standard name DMR-0507-2012-CL
	Result 53.0
	Accuracy 91.8%
Copper (Cu) mg/L	Limit 43.1 - 54.9
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 1.367
	Accuracy 89.8%
Dissolved Copper (Cu) mg/L	Limit 1.05 - 1.43
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 1.41
	Accuracy 86.3%
Total Cyanide (CNT) mg/L	Limit 1.05 - 1.43
	Blank <0.005
	Standard name DMR-0409-2012-5
	Result 0.089
	Accuracy 90.8%

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Quality control Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Iron (Fe) mg/L	Limit 0.083 - 0.113
	Blank <0.01
	Standard name DMR-0027-2012-18t
	Result 10.4
	Accuracy 99%
Dissolved Iron (Fe) mg/L	Limit 8.9 - 12.1
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 10.4
	Accuracy 99%
Fluoride (F) mg/L	Limit 8.9 - 12.1
	Blank <0.02
	Standard name DMR-0507-2012-12F
	Result 1.5
	Accuracy 96.8%
Total Suspended Solids mg/L	Limit 1.43 - 1.67
	Blank <1
	Standard name STD-MES 25mg/L
	Result 27
	Accuracy 92%
Magnesium (Mg) mg/L	Limit 19 - 31
	Blank <0.02
	Standard name DMR-0027-2012-18t
	Result 5.6
	Accuracy 90.2%
Dissolved Magnesium (Mg) mg/l	Limit 5.28 - 7.14
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 6.3
	Accuracy 98.6%
Manganese (Mn) mg/L	Limit 5.28 - 7.14
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 3.502
	Accuracy 90.7%
Dissolved Manganese (Mn) mg/l	Limit 3.28 - 4.44
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 3.81
	Accuracy 98.7%

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Quality control Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Dissolved Mercury (Hg) mg/L	Limit 3.28 - 4.44
	Blank <0.0005
	Standard name DMR-0027-2012-13-Hg
	Result 0.0050
	Accuracy 81%
Molybdenum (Mo) mg/L	Limit 0.0033 - 0.0051
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 0.6044
	Accuracy 85.7%
Dissolved Molybdenum (Mo) mg	Limit 0.599 - 0.811
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 0.632
	Accuracy 89.6%
NH4 mg N/L Nickel (Ni) mg/L	Limit 0.599 - 0.811
	Blank <0.05
	Blank <0.0005
	Standard name DMR-0027-2012-18t
	Result 1.171
Dissolved Nickel (Ni) mg/L	Accuracy 96.4%
	Limit 0.96 - 1.30
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 1.29
Nitrate (NO3) mg N/L Nitrite (NO2) mg N/L	Accuracy 85.8%
	Limit 0.96 - 1.30
	Blank <0.01
	Blank <0.01
	Standard name DMR-0507-2012-NO2
pH	Result 3.3
	Accuracy 97.6%
	Limit 2.87 - 3.89
	Standard name STD pH 7.00
	Result 7.02
Lead (Pb) mg/L	Accuracy 99.7%
	Limit 6.96 - 7.04
	Blank <0.0003
	Standard name DMR-0027-2012-18t
	Result 0.9300

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Quality control Report

Lab number: V-20764

Sample name: MW-08-02B

Sampling location: MW-08-02B

Sampling date: July 23, 2012

Sampling hour: 13:00

Parameter	
Dissolved Lead (Pb) mg/L	Accuracy 96.7%
	Limit 0.8 - 1.0
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 0.930
Potassium (K) mg/L	Accuracy 96.7%
	Limit 0.8 - 1.0
	Blank <0.05
	Standard name DMR-0027-2012-18t
	Result 18.3
Dissolved Potassium (K) mg/L	Accuracy 97.2%
	Limit 15.1 - 20.5
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 20.1
Selenium (Se) mg/L	Accuracy 87.1%
	Limit 15.1 - 20.5
	Blank <0.001
	Standard name DMR-0027-2012-18t
	Result 1.34
Dissolved Selenium (Se) mg/L	Accuracy 99.3%
	Limit 1.15 - 1.55
	Blank <0.005
	Standard name DMR-0027-2012-18d
	Result 1.44
Sodium (Na) mg/L	Accuracy 93.3%
	Limit 1.15 - 1.55
	Blank <0.05
	Standard name DMR-0027-2012-18t
	Result 14.7
Dissolved Sodium (Na) mg/L	Accuracy 94.2%
	Limit 11.8 - 16.0
	Blank <0.05
	Standard name DMR-0027-2012-18d
	Result 14.9
Sulfate (SO4) mg SO4/L	Accuracy 92.8%
	Limit 11.8 - 16.0
	Blank <1
	Standard name DMR-0507-2012-SO4
	Result 56

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Additional information

Lab number: V-20764
Sample name: MW-08-02B
Sampling location: MW-08-02B

Sampling date: July 23, 2012
Sampling hour: 13:00

Lab method	Method reference
M-ALCA-2.0	MA.315-Alc-Aci 1.0
M-MET-3.0	MA.200-Mét. 1.2
M-NH3-2.0	MA.300-N 2.0
M-CL-2.0	MA.300-Ions 1.3
M-CN-1.0	MA.300-CN 1.2
M-CI-1.0	MA.300-Anions 1.0
M-SOLI-1.0	MA.104-S.S. 1.1
M-NITR-2.0	MA.300-NO3 2.0
M-PH-2.0	MA.303-Titr Auto 2.0
M-SULF-2.0	MA.300-Ions 1.3
M-TURB-1.0	MA.103-Tur. 1.0

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