



MEADOWBANK DIVISION

Monitoring Program Summary Report

August 2013

Type A Water License 2AM-MEA0815

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SECTION 1 • **BACKGROUND**

As required under Part I, Item 25 of Type A Water License 2AM-MEA0815, this report documents the water management and monitoring activity at the mine site for the month. This includes water usage, Portage Attenuation Pond discharge water quality, Vault Dewatering water quality and sewage treatment plant discharge water quality (to onsite storm water management pond).

In addition, a summary of spills/actions for the month is included.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Freshwater usage for August 2013 is summarized in Table 2.1 below. Total freshwater used for the month was 99,225 m³. The yearly freshwater used exceeds our License limit of 700,000 m³. The total freshwater used to date is 1,367,851 m³. The total amount of reclaim water used in the mill for August was 216,534 m³.

On April 23rd, 2013 Agnico Eagle Mines (AEM) Meadowbank Division submitted a request to the Nunavut Water Board for an amendment to increase the freshwater use rate at the Meadowbank Gold Project. NIRB request on August 6th a public input to determine if AEM's NWB water amendment application is a significant project scope change; the review period will be until September 3rd. On August 29th, AEM received, from NWB, a letter indicating that a technical meeting and pre-hearing conference will be held in Baker Lake on October 15th and 16th, 2013.

Table 2-1: Freshwater Usage (m³)

	August
Freshwater Storage Tank	98,955
Emulsion Plant	270
Water Truck	0
Total	99,225
Year to date total	1,367,851

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

During an AANDC Water License inspection on July 29th and 30th 2013 it was observed that “red” colored seepage from the south-east side of the Waste Rock Storage Facility was migrating through the road perimeter into Lake NP-2. Following this observation, AEM increased pumping of the seep water to prevent migration through the road. See attached Appendix 1 -“Preliminary AEM Report – Seepage Water From Waste Rock Storage Facility – Sample Location ST-16”. This report was forwarded to AANDC and EC Inspectors as well as the KIA. The seepage has ceased migrating through the road to Lake NP-2.

2.3 SEWAGE TREATMENT PLANTS

One (1) effluent wastewater sample was taken from the onsite sewage treatment plants (STP's) in August.

The Seprotech STP results are shown in Table 2.3.1 below; the LJ-Mix STP results are shown in Table 2.3.2. The results of the discharge indicate the system was working well. The effluent is discharged to the onsite storm water pond and is not discharged to the natural environment.

Table 2.3.1: Seprotech Effluent Results

Parameters	Units	12-August-13
Ammonia	mg N/L	0.07
Ammonia-Ammonium	mg N/L	20.0
Total Kjeldahl Nitrogen	mg N/L	22.0
BOD-5	mg/L	13
COD	mg/L	34
Total Suspended Solids	mg/L	12
Nitrate	mg N/L	16.50
Nitrite	mg N/L	0.14
pH *	Units	6.10
Fecal Coliform	UFC/100 mL	20
Total Coliform	UFC/100 mL	140

*Parameter measured by STP operators

Table 2.3.2: LJ-Mix Effluent Results

Parameters	Units	12-August-13
Ammonia	mg N/L	<0.05
Ammonia-Ammonium	mg N/L	9.9
Total Kjeldahl Nitrogen	mg N/L	14.0
BOD-5	mg/L	18
COD	mg/L	91
Total Suspended Solids	mg/L	25
Nitrate	mg N/L	27.00
Nitrite	mg N/L	0.09
pH *	Units	6.10
Fecal Coliform	UFC/100 mL	280
Total Coliform	UFC/100 mL	900

*Parameter measured by STP operators

2.4 PORTAGE ATTENUATION POND EFFLUENT

On August 22nd, AEM started to discharge effluent from Portage Attenuation Pond to Third Portage Lake.

Two weekly effluent samples were taken from the Actiflo Water Treatment Plant (ST-9). All the results respected the Water License Part F, Item 2 for effluent quality limits. However, the effluent was toxic for daphnia on August 22nd but not for Rainbow trout. You will find in Appendix 2 toxicity analysis certificate from MultiLabs.

The sample results are shown in Table 2.4.1 below.

Table 2.4.1: ST-9 - Effluent Monitoring

Date	Units	Max. grab conc.	22-Aug-13	27-Aug-13	Monthly Average	Max. avg. conc.
Parameters						
pH*		6.0-9.0	7.60	8.02	7.81	6.0-9.0
TSS	mg/L	30	4	7	5.5	15
Turbidity*	NTU	15	1.27	1.06	1.165	15
Aluminium	mg/L	1.5	0.902	1.24	1.071	1.5
Dissolved Aluminium	mg/L	1.0	0.97	0.07	0.5175	1.0
Arsenic	mg/L	0.6	0.0034	0.0020	0.0027	0.3
Cadmium	mg/L	0.004	0.00014	0.00011	0.000125	0.002
Cyanide Total	mg/L	1.0	0.232	0.277	0.2545	0.5
Copper	mg/L	0.2	0.0056	0.0054	0.0055	0.1
Mercury	mg/L	0.0008	<0.00001	<0.00001	0.000005	0.0004
Ammonia nitrogen	mg N/L	32	10	12.1	11.05	16
Nickel	mg/L	0.4	0.0600	0.0662	0.0631	0.2
Nitrate	mg N/L	40	3.9	3.8	3.85	20
Lead	mg/L	0.2	<0.0003	<0.0003	0.00015	0.1
Phosphorus	mg/L	2.0	<0.01	<0.01	0.005	1.0
Zinc	mg/L	0.8	0.005	0.005	0.005	0.4
Chloride	mg/L	2000	87	97.7	92.35	1000
C10-C50	mg/L	6	<0.1	0.1	0.075	3

*Parameter measured by Environmental Technicians on field

2.5 NON CONTACT WATER

In August, there was water discharged through the non-contact water diversion ditches. Portage Area East diversion ditch (ST-5) results are shown in Table 2.5.1 below and Portage Area West diversion ditch (ST-6) results are shown in Table 2.5.2.

TSS results didn't exceed the maximum average concentration (15 mg/L) and maximum allowable grab sample concentration (30 mg/L) permitted by the Water License, Part F, Item 4. Furthermore, to comply with Water License Part D, Item 22, sediment barriers were in place throughout the month of August and frequent visual inspections were conducted to ensure that entry of sediments into the receiving environment was prevented.

Table 2.5.1: Portage Area East Diversion Ditch (ST-5) Results

Parameters	Units	13-August-13
Total Suspended Solids	mg/l	3

Table 2.5.2: Portage Area West Diversion Ditch (ST-6) Results

Parameters	Units	13-August-13
Total Suspended Solids	mg/l	1

2.6 VAULT DEWATERING

In August, a total of 727,426 m³ of water was discharged to Wally Lake. The total discharge to date is 1,235,046 m³.

Vault Lake fishout began on July 19th. In August, a total of 406 fish were collected for a total of 870 fish since the fish out began. As of August 31st, 52% of the catch was successfully placed into Wally Lake. Mortalities were sent to the community of Baker Lake.

As per Water License Part D Item 16, the effluent from Vault Lake pit dewatering shall not exceed the following quality limits:

Parameter	Maximum Monthly Mean	Short Term Maximum
Total Suspended Solids	15.0 mg/L	22.5 mg/L
Turbidity	15 NTU	30 NTU
pH	6.0 to 9.0	6.0 to 9.0
Total Aluminium	1.5 mg/L	3.0 mg/L

The pH and Aluminum concentrations at the water intake pump were as follows:

- pH 24 hour minimum/maximum: 6.90 / 7.59 (Limit is 6-9 units)
- pH 30 days minimum/maximum: 7.16 / 7.37 (Limit is 6-9 units)
- Al 24 hour maximum concentration: 0.033 mg/L (Limit is 3.0 mg/L)
- Al 30 days maximum concentration: 0.026 mg/L (Limit is 1.5 mg/L)

The turbidity and Total Suspended Solids (TSS) concentrations at the water intake pump were as follows:

- NTU 24 hour maximum concentration: 3.28 NTU (Maximum Limit is 30 NTU)
- TSS 24 hour maximum concentration: 9.0 mg/L (Maximum Limit is 22.5 mg/L)
- NTU 30 days mean maximum concentration: 0.81 NTU (Maximum Limit is 15 NTU)
- TSS 30 days mean maximum concentration: 1.74 mg/L (Maximum Limit is 15 mg/L)

Table 2.6.1 summarizes the dewatering monitoring results for pH, aluminum, turbidity and TSS for the month.

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Table 2.6.1: Vault Lake Dewatering Monitoring

Date	ST-DD-3				ST-DD-4				Both pump							
	Turbidity	TSS	pH	Total Al	Turbidity	TSS	pH	Total Al	NTU 24-hour Mean	NTU 30-day Mean	TSS 24-hour Mean	TSS 30-day Mean	pH 24-hour Mean	pH 30-day Mean	Al 24-hour Mean	Al 30-day Mean
	NTU	mg/L		mg/L	NTU	mg/L		mg/L	30	15	22.5	15	6.0 - 9.0	6.0 - 9.0	1.5	3.0
2013-08-01	Not in operation				Not in operation					0.81		1.33		7.37		0.024
2013-08-02	Not in operation				Not in operation					0.79		1.36		7.37		0.024
2013-08-03		8.0			Not in operation					0.70	8.00	1.57		7.36		0.021
2013-08-04	0.50	5.0			Not in operation				0.50	0.67	5.00	1.72		7.36		0.021
2013-08-05		1.0			Not in operation					0.65	1.00	1.70		7.36		0.021
2013-08-06	3.28	1.0			2nd pump started				3.28	0.74	1.00	1.74		7.36		0.021
2013-08-07	0.34	0.5							0.34	0.72	0.50	1.74		7.36		0.021
2013-08-08		0.2								0.72	0.20	1.73		7.36		0.021
2013-08-09	0.50	1.0	6.92		1.51	0.7	6.96		1.01	0.74	0.85	1.72	6.94	7.37		0.015
2013-08-10	0.21	0.3			0.38	0.3			0.30	0.71	0.30	1.67		7.35		0.015
2013-08-11	0.16	0.3			0.36	0.3			0.26	0.68	0.30	1.58		7.35		0.015
2013-08-12	0.14	0.3	6.84		0.31	0.5	6.96		0.23	0.65	0.40	1.53	6.90	7.30		0.015
2013-08-13	0.20	0.3	7.09		0.39	0.4	7.11		0.30	0.63	0.35	1.49	7.10	7.25		0.015
2013-08-14	0.25	0.0	7.43	0.033	0.61	0.3	7.40	0.032	0.43	0.61	0.15	1.41	7.42	7.27	0.033	0.022
2013-08-15	0.20	0.0	7.21		0.34	0.3	7.24		0.27	0.60	0.15	1.34	7.23	7.25		0.022
2013-08-16	Not in operation				Not in operation					0.59		1.35		7.22		0.022
2013-08-17	0.34	0.3	7.34		0.46	1.0	7.40		0.40	0.58	0.65	1.32	7.37	7.24		0.026
2013-08-18	0.32	0.0			1.29	0.6			0.81	0.59	0.30	1.29		7.24		0.026
2013-08-19	0.19	0.2			0.32	0.2			0.26	0.53	0.20	1.13		7.21		0.026
2013-08-20	0.10	1.6			0.35	1.2			0.23	0.52	1.40	1.15		7.18		0.026
2013-08-21	0.18	0.8	7.13	0.014	0.84	0.8	7.01	0.014	0.51	0.52	0.80	1.15	7.07	7.17	0.014	0.022
2013-08-22	0.37	0.8			Not in operation				0.37	0.52	0.80	1.13		7.17		0.022
2013-08-23	0.30	1.6	7.63		0.39	2.4	7.54		0.35	0.50	2.00	1.18	7.59	7.18		0.022
2013-08-24	0.11	0.4			0.26	0.8			0.19	0.49	0.60	1.15		7.18		0.022
2013-08-25	0.25	0.4			0.33	0.4			0.29	0.47	0.40	1.11		7.18		0.022
2013-08-26	0.62	1.2			0.42	2.4			0.52	0.47	1.80	1.05		7.18		0.022
2013-08-27	0.23	0.0			0.54	3.6			0.39	0.46	1.80	1.08		7.18		0.022
2013-08-28	0.82	10.0	7.02		0.32	8.0	7.17		0.57	0.46	9.00	1.41	7.10	7.17		0.022

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2013-08-29	3.02	1.2	7.04	0.057	0.97	1.2	7.07	0.006	2.00	0.54	1.20	1.40	7.06	7.16	0.032	0.024
2013-08-30	0.26	0.4			0.84	0.4			0.55	0.54	0.40	1.38		7.16		0.024
2013-08-31	0.33	0.3			0.56	0.4			0.45	0.54	0.35	1.29		7.18		0.026

SECTION 3 • SPILL MANAGEMENT

AEM has developed a system of tracking spills on-site. Table 3.1 summarizes the AEM spill reports for the month. Three (3) spills occurred on site and none (0) was reported to the GN spill hotline. AEM contained and cleaned up all the spills.

Table 3-1: Summary of AEM Internal Spill Reports

Date of Spill	Hazardous Material	Quantity (L/Kg)	Location	Cause of spill	Clean-up action taken	Reported to Spill Hot Line
2013-08-03	Fuel	90	Exploration camp GEN26 fuel tank	Tank overfilled causing fuel to spill	Cleaned-up and brought contaminated soil to the Landfarm behind Water treatment plant. Review current operating methods with all fuel truck operators.	No
2013-08-04	Fuel	50	AWPAR Km 66	Broken clamp on grader's transfer fuel hose	Shovelled contaminated soil, brought soil to Meadowbank site using Arctic fuel truck. Spill rags disposed of at incinerator.	No
2013-08-30	Transmission Oil	3	Vault road	Crane (80T) broken hose	Driver stopped crane and put pads underneath crane.	No

Appendix 1

***Preliminary AEM Report – Seepage Water From Waste Rock
Storage Facility – Sample Location ST-16***



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Preliminary AEM Report – Seepage Water From Waste Rock Storage Facility – Sample Location ST-16

SEPTEMBER 2013

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1. Issue

During an AANDC Water License inspection on July 29th and 30th 2013 it was observed that “red” colored seepage from the south - east side of the Waste Rock Storage Facility was seeping through the road perimeter into Lake NP-2. Samples were taken by both the Inspector and AEM staff (split sample). Analysis results from this sampling were received by AEM on August 16th, 2013. See Photos 1 and 2 below and Table 1.



Photo 1 – Shore of NP-2



Photo 2 – ST-16 Waste Rock seepage.

Table 1 – Historical ST-16 Results

Parameters	Date	ST-16 Average 2011	ST-16 Average 2012	ST-16 11/06/2013	ST-16 04/07/2013	ST-16 Split 30/07/2013	ST-16 Split AANDC Result 30/07/2013
	Units						
*pH		6.49	7.30	6.45	7.21		7.20
*Turbidity	NTU	17	34		17		123
*Conductivity	us/cm		154	420	1485		4510
Alkalinity	mg CaCO ₃ /L	34	67	46	89	272	162
Aluminum	mg/L	0.159	0.513		0.464	0.042	0.045
Dissolved Aluminium	mg/L				0.027	< 0.006	
Ammonia	mgN/L	0.07	0.03	< 0.05	0.20	1.20	
Ammonia-nitrogen	mgN/L		0.22	0.45	7.80	34.00	
Total Dissolved Solids	mg/L	55	175	37	969	3792	
Total Suspended Solids	mg/L						50
Arsenic	mg/L	0.0020	0.0045	0.0029	0.0091	0.0139	0.0083
Dissolved As	mg/L				0.0031	0.0058	
Barium	mg/L	0.0095	0.0196		0.0741	0.1414	0.1480
Dissolved Barium	mg/L				0.0558	0.1433	
Cadmium	mg/L	0.00060	0.00004		0.00014	0.00065	0.00020
Dissolved Cadmium	mg/L				0.0001	0.0007	
Chloride	mg/L	2	3		15	450	192
Chromium	mg/L		0.0048		0.0034	0.0011	0.0010
Copper	mg/L	0.0017	0.0046	0.0028	2.3110	2.0380	3.3500
Dissolved Copper	mg/L				1.909	1.712	
Fluoride	mg/L	0.106	0.098		0.110	0.290	
Hardness	mg CaCO ₃ /L	62	59		361	1417	1020
Iron	mg/L	1.21	1.94		1.60	4.40	21.90
Dissolved Iron	mg/L				0.17	0.06	
Lead	mg/L	0.0010	0.0056	< 0.0003	0.0015	0.0013	< 0.0001
Dissolved Lead	mg/L				< 0.0003	< 0.0003	
Manganese	mg/L	0.588	0.961		2.447	6.370	5.850
Dissolved Manganese	mg/L				2.110	6.055	
Mercury	mg/L	0.00062	0.00007		< 0.00010	0.00005	0.00015
Dissolved Mercury	mg/L				< 0.0001	< 0.0001	
Molybdenum	mg/L	0.001	0.001		0.026	0.170	0.083
Dissolved Molybdenum	mg/L				0.0204	0.1773	
Nickel	mg/L	0.0339	0.0395	0.0069	0.5149	2.0150	1.3300
Dissolved Nickel	mg/L				0.415	1.810	
Nitrate	mg/L	0.17	0.34		8.10	37.80	23.70
Selenium	mg/L	0.002	0.001		0.007	0.020	0.013
Dissolved Selenium	mg/L				0.005	0.023	

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Silver	mg/L	0.0006	0.0049					0.0056
Dissolved Silver	mg/L				<	0.0002	0.0019	
Sulphate	mg/L	24	9			406	2400	1450
Thallium	mg/L	0.0025	0.0025		<	0.0050	< 0.0050	< 0.0001
Dissolved Thallium	mg/L				<	0.005	<	
Zinc	mg/L	0.005	0.008	< 0.001		0.010	0.009	< 0.005
Dissolved Zinc	mg/L					0.003	0.008	
Calcium (Ca)	mg/L							312
Magnesium (Mg)	mg/L							60
Potassium (K)	mg/L							88
Sodium (Na)	mg/L							590
Cesium	mg/L							0.0009
Rubidium	mg/L							0.0687
Ortho-Phosphate as Phosphorus	mg/L							
Antimony (Sb)	mg/L					0.0004	0.0012	0.0007
Boron (B)	mg/L					0.04	0.15	
Beryllium (Be)	mg/L				<	0.0005	< 0.0005	< 0.0001
Cobalt (Co)	mg/L					0.0729	0.3114	0.2290
Lithium (Li)	mg/L				<	0.005	0.006	0.004
Tin (Sn)	mg/L				<	0.001	< 0.001	
Strontium (Sr)	mg/L					0.44	2.14	1.40
Titanium (Ti)	mg/L					0.1300	0.5500	0.0007
Uranium (U)	mg/L					0.034	0.170	0.115
Vanadium (V)	mg/L				<	0.0005	< 0.0005	0.0011
Nitrite	mg/L					0.07	0.41	

2. Background Information

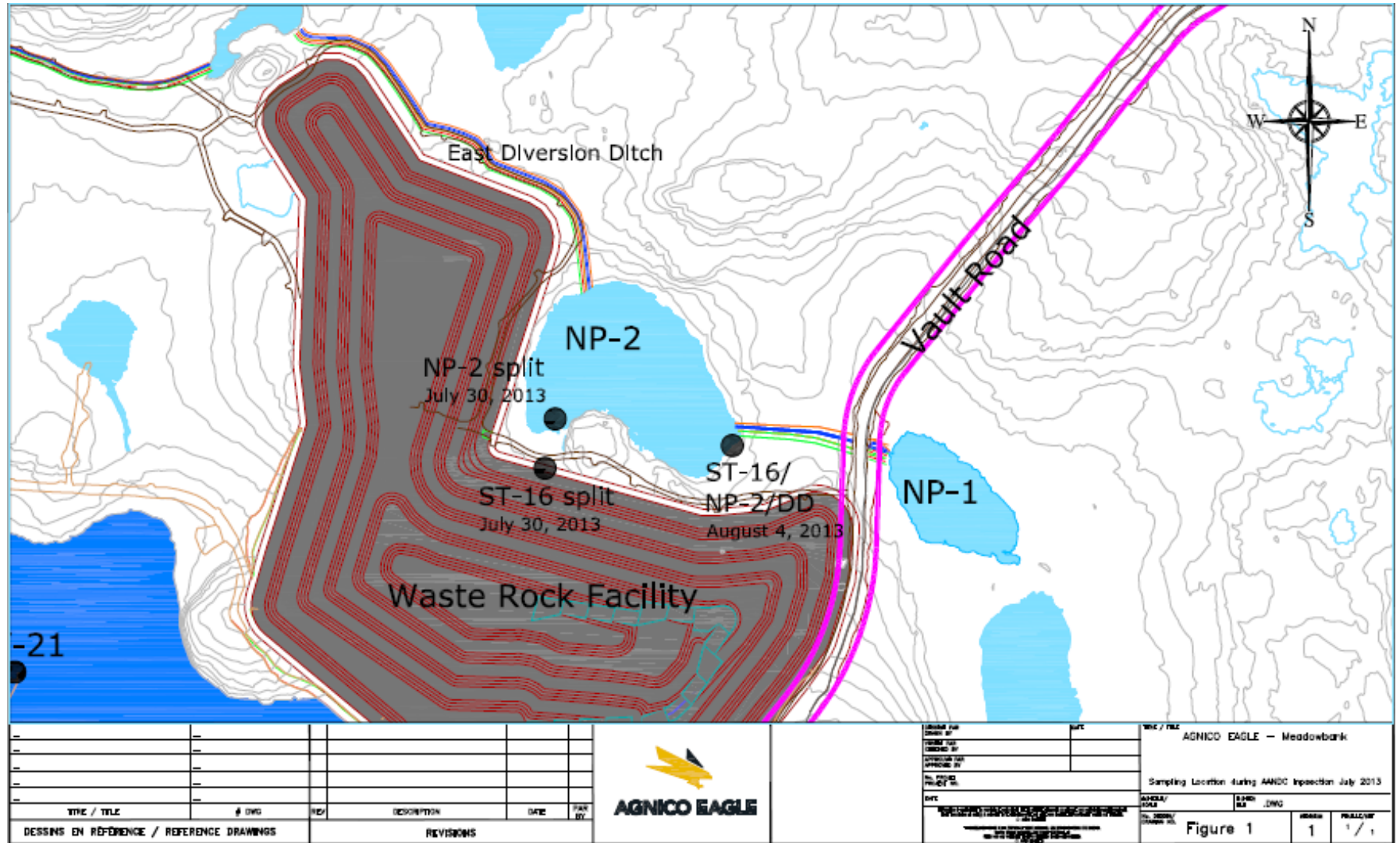
Historically, this “red” coloured water had not been observed previously at this location. The water was typically brown colored, indicative of freshet water which is usually impounded by the road and the waste rock. In the spring of 2012, a crushed NPAG rock road was constructed to isolate the sump from NP-2. Results from 2012 and initially in 2013 indicated that the water quality was good with no elevated copper or nickel and typical of freshet surface water quality (see Table 1 above). Based on the June water quality results and historical results in ST-16, AEM continued to monitor the sump as per the Type A water license.

In 2012 the construction of the East and West Diversion ditches was completed. These ditches are designed to keep freshet surface drainage from contacting the Waste Rock Storage Facility and the Tailings Storage Facility (TSF). The East ditch flows through Lakes NP- 2 and connects to Lake NP-1. After freshet there is little turnover in these lakes and the only inflows and outflows would be rainwater (See Figure 1). The ditches ensure that the water levels in these lakes do not rise and overflow into active mine areas such as the Waste Rock Facility and TSF.

In June 2013 we observed the normal brown color in the seep area initially up until approximately July 26th and 27th when the colour had changed to “red”. This is indicative of iron precipitate. The normal procedure is to have site water trucks pump out the seepage and deposit either in the TSF or use as dust suppressant in the mine pit only. Sample results from July 4th indicated that copper and nickel were elevated. This was an anomaly and our plan was to verify with the next sampling results (August 4th). There was no confirmed indication of actual seepage migrating through the perimeter road to Lake NP-2 until the red coloured seepage appeared around July 26th and 27th. At that point the red could be observed along the shoreline in NP-2. This was confined to the near shore and not in the main part of the lake. It was not observed at the exit of Lake NP-2. Removal of the seep water had previously commenced and was continuing at this point in time. **There was and has been no fish mortalities observed to date.**

As mentioned the AANDC inspector was on site July 29th and 30th, 2013 and split samples were taken. The seepage was evident in the Lake, along the near shore only (see photo 2), and we increased the removal of the seep water from the ST-16 sample location. Please see Figure 1 below for sample locations.

Figure 1 – Sampling Location during AANDC Inspection July 2013



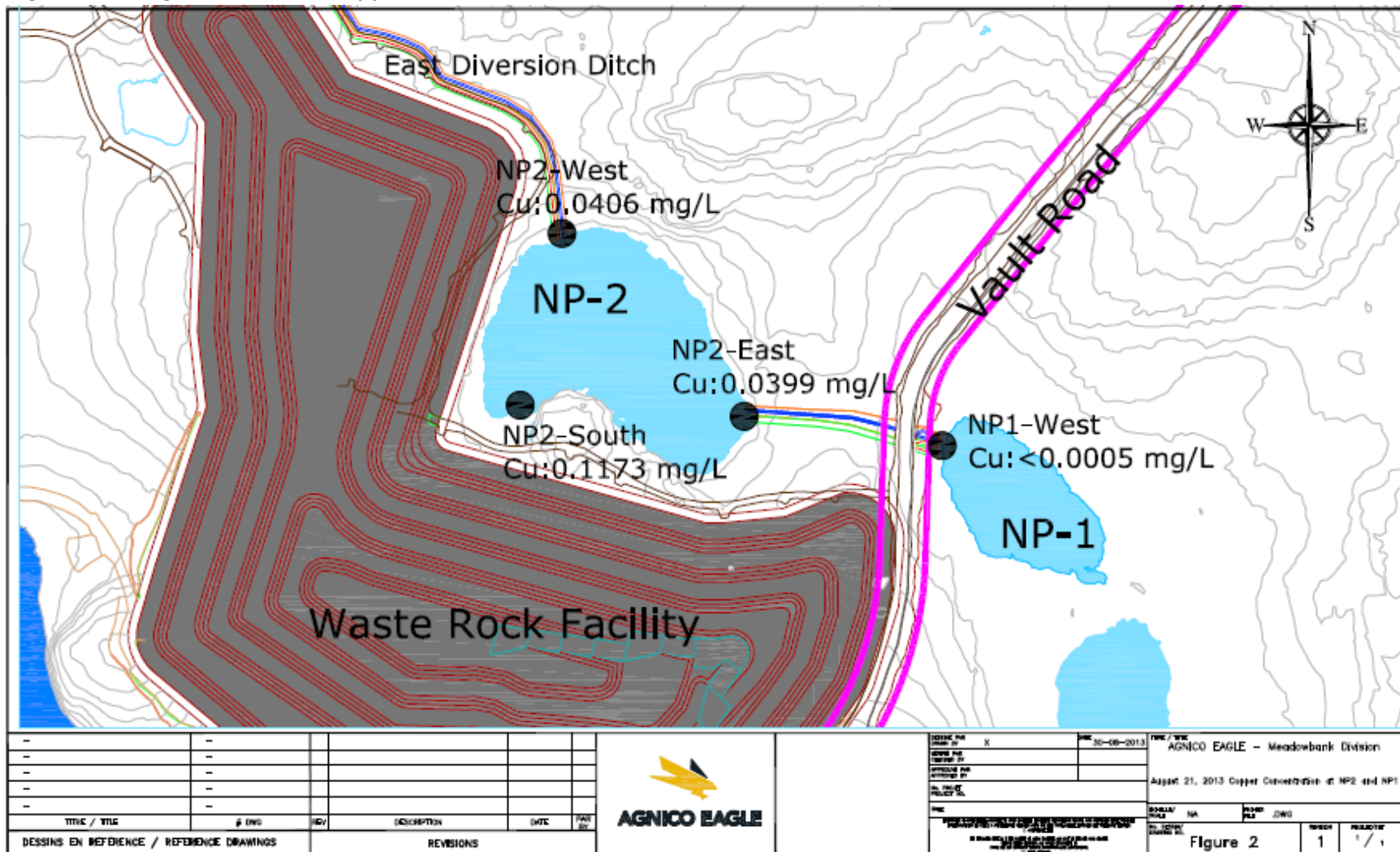
By August 4th AEM had lowered the level in the seepage area to the point where it was felt that the seepage through the road had stopped. Pumping of the sump continued and is still ongoing. Also on August 4th a sample was taken in NP-2 at the East end of the Lake in an area that exhibited clear water – see Figure 1 location.

On August 16th results were received from the sampling conducted with AANDC (see Table 1 above for results) and the certificates are attached as Appendix 1. The copper, nickel, iron, manganese and sulphate were elevated. A preliminary investigation was launched by the Environment and Engineering Departments. Pumping of the seep water continued and all of this water was directed to the TSF. On August 19th the results from AEM's August 4th sample in NP-2 Lake at the East end were received and this too indicated elevated copper at a level of 0.1713 mg/l which exceeded the CCME criteria for Protection of Aquatic Life. All of this information was forwarded to the AANDC Inspector including all analysis results.

The investigation at this time was centered on seepage from the waste rock, specifically from the PAG material. Some waste rock at the site contains copper, iron and sulphides which could explain the elevated values observed in the sample results. This was not observed historically at this site. The main immediate action was to keep the waste rock seepage pumped down to prevent migration through the road into NP-2 Lake.

Further monitoring for copper only was undertaken in NP-2 Lake on August 21st, 2013. Results were received on August 24th and are indicated on Figure 2 below. The level had dropped significantly at NP-South, East and West and was not detected in NP-1 Lake. This was an indication that the seepage to the Lake had stopped due to pumping.

Figure 2 – August 21, 2013 Copper Concentration at NP-2 and NP-1



The investigation continued and a Plug/Dike design request to prevent any seepage from migrating through the road to NP-2 Lake was submitted to AEM's Engineering Department. A design was produced (see Figure 3 below). This was an additional measure taken to augment the pumping of the seep water. Construction of the Waste Rock Plug commenced on August 26th, 2013. Also, it was observed, after the pumping out of the water to a low level, that water was still seeping from the waste rock and this included two distinct areas in close proximity (approximately 15 m apart) to each other. One was "red" colored and the other "brown" - see photos 3 and 4 below.

Figure 3 – Plug Design

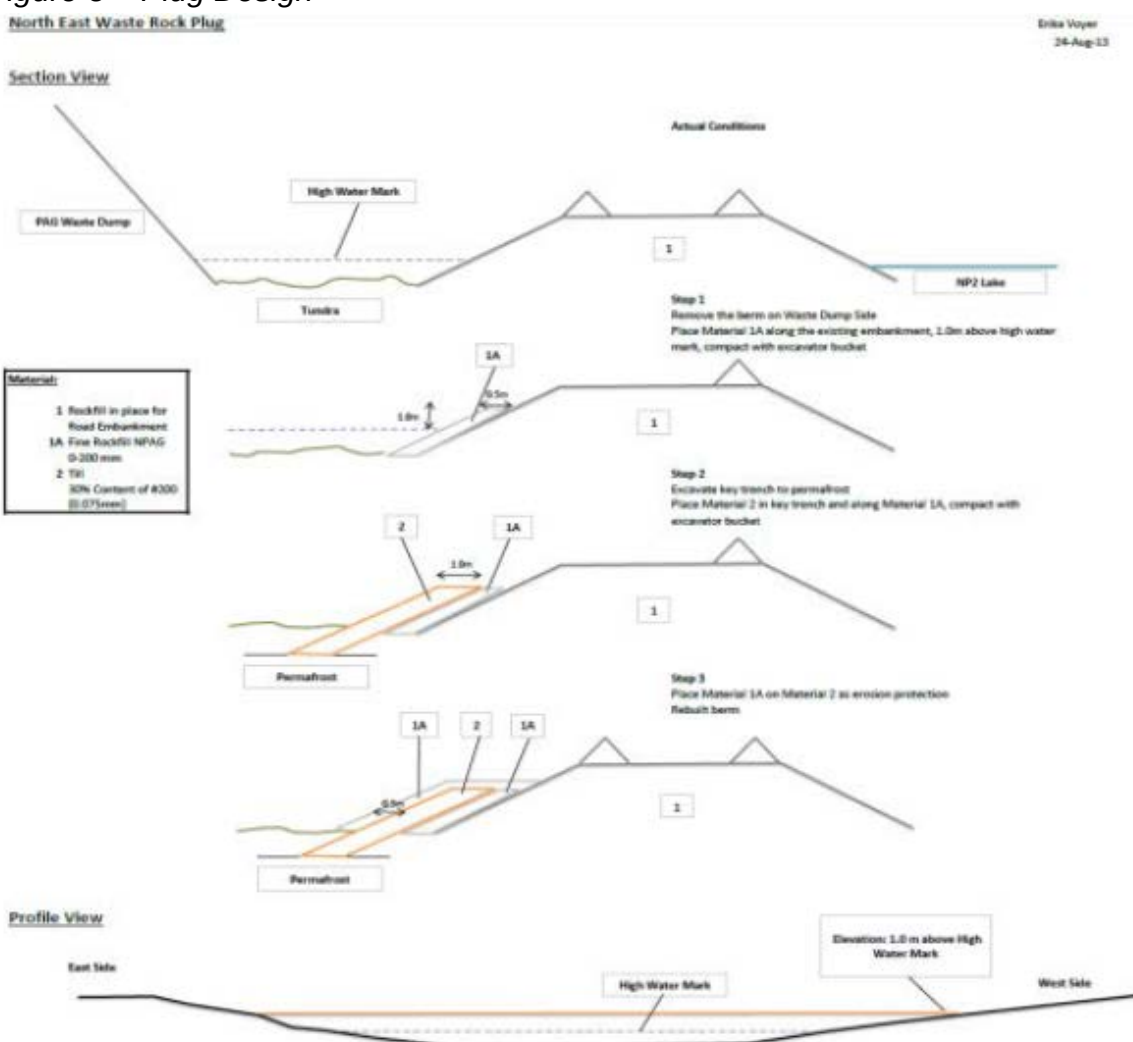




Photo 3 – Brown seepage



Photo 4 – Red seepage

A staff gauge has been placed at the seepage to determine the water level increases more definitively – see photo 5 below.



Photo 5 – Seepage Staff Gauge

On August 27th two Inspectors from AANDC and two Inspectors from Environment Canada attended the Meadowbank site and conducted sampling at the seep – ST-16 and at four locations around NP-2 Lake. AEM took duplicate samples during this visit. The construction project of the Waste Rock Plug had started and was being conducted during the visit. As previously stated AEM was of the opinion that the seepage through the road had stopped by August 21st.

Concurrent to the inspection, the preliminary investigation had determined that there was a hydraulic gradient that existed between the TSF reclaim water level and NP-2 Lake. The TSF water level was at elevation 145.7 m and NP-2 Lake was at elevation 141.2 m. Upon examining a topographical photo prior to mine development there was an indication that the former watercourse connecting the seep area to the North West Arm Second Portage Lake (now the TSF) could act as a conduit under the waste rock to the seep area – see photo 6 below. After conducting a comparison analysis of sample results in the TSF (sample station ST-21) several similarities became evident. Notably this included copper, nickel, chloride, sulphate, hardness – see comparison Table 2 below. AEM determined that it was possible that the TSF reclaim water could be migrating through the former water course to the seep area at a location along RF 1 rockfill road (TSF perimeter structure). This is the suspected migration route.

Table 2 – Comparison between ST-21 and ST-16

Parameters	Date	ST-21 Average 2013	ST-21 04/07/2013	ST-16 Split 30/07/2013	30/07/2013 Split AANDC Result
	Units				
*pH		8.95	8.28		7.20
*Turbidity	NTU	20	9		123
*Conductivity	us/cm				4510
Alkalinity	mg CaCO ₃ /L	116	127	272	162
Aluminum	mg/L	0.409	0.409	0.042	0.045
Dissolved Aluminium	mg/L	0.124	0.152	< 0.006	
Ammonia	mgN/L	25.70		1.20	
Ammonia-nitrogen	mgN/L	31.9	17.6	34.0	
Total Dissolved Solids	mg/L	3504	1988	3792	
Total Suspended Solids	mg/L				50
Arsenic	mg/L	0.0208	0.0208	0.0139	0.0083
Dissolved As	mg/L	0.0129	0.0137	0.0058	
Barium	mg/L	0.0598	0.0598	0.1414	0.1480
Dissolved Barium	mg/L	0.0936	0.0465	0.1433	
Cadmium	mg/L	0.00043	0.00043	0.00065	0.00020
Dissolved Cadmium	mg/L	0.00203	0.00035	0.0007	
Chloride	mg/L	1129	292	450	192
Chromium	mg/L	0.0007	0.0007	0.0011	0.0010
Copper	mg/L	0.6531	0.6531	2.0380	3.3500
Dissolved Copper	mg/L	10.8004	0.3915	1.712	
Fluoride	mg/L	3.36	0.26	0.290	
Hardness	mg CaCO ₃ /L	1454	662	1417	1020
Iron	mg/L	0.56	0.56	4.4	21.9
Dissolved Iron	mg/L	0.71	< 0.01	0.06	
Lead	mg/L	0.0045	0.0045	0.0013	< 0.0001
Dissolved Lead	mg/L	0.0019	< 0.0003	< 0.0003	
Manganese	mg/L	0.5164	0.5164	6.370	5.850
Dissolved Manganese	mg/L	0.0839	0.4254	6.055	
Mercury	mg/L	0.000005	< 0.00001	0.00005	0.00015
Dissolved Mercury	mg/L	0.00015	< 0.0001	< 0.0001	
Molybdenum	mg/L	0.2041	0.2041	0.170	0.083
Dissolved Molybdenum	mg/L	0.372	0.171	0.1773	
Nickel	mg/L	0.1204	0.1204	2.0150	1.3300
Dissolved Nickel	mg/L	0.1638	0.0962	1.810	
Nitrate	mg/L	15.6	12.2	37.8	23.7
Selenium	mg/L	0.012	0.012	0.020	0.013
Dissolved Selenium	mg/L	0.021	0.010	0.023	
Silver	mg/L				0.0056
Dissolved Silver	mg/L	0.0067	< 0.0002	0.0019	
Sulphate	mg/L	2268	1085	2400	1450

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Thallium	mg/L	0.0025	<	0.0050	<	0.0050	<	0.0001
Dissolved Thallium	mg/L	0.01	<	0.01				
Zinc	mg/L	0.006		0.006		0.009	<	0.005
Dissolved Zinc	mg/L	0.0865		0.004		0.008		
Calcium	mg/L							312
Magnesium	mg/L							60
Potassium	mg/L							88
Sodium	mg/L							590
Cesium	mg/L							0.0009
Rubidium	mg/L							0.0687
Antimony	mg/L	0.0014		0.0014		0.0012		0.0007
Boron	mg/L					0.15		
Beryllium	mg/L	0.00025	<	0.0005	<	0.0005	<	0.0001
Cobalt	mg/L					0.3114		0.2290
Lithium	mg/L	0.0025	<	0.005		0.006		0.004
Tin	mg/L	0.0005	<	0.001	<	0.001		
Strontium	mg/L	0.798		0.798		2.14		1.40
Titanium	mg/L	0.2900		0.2900		0.5500		0.0007
Uranium	mg/L	0.009		0.009		0.170		0.115
Vanadium	mg/L	0.00025	<	0.0005	<	0.0005		0.0011
Nitrite	mg/L	0.25		0.31		0.41		

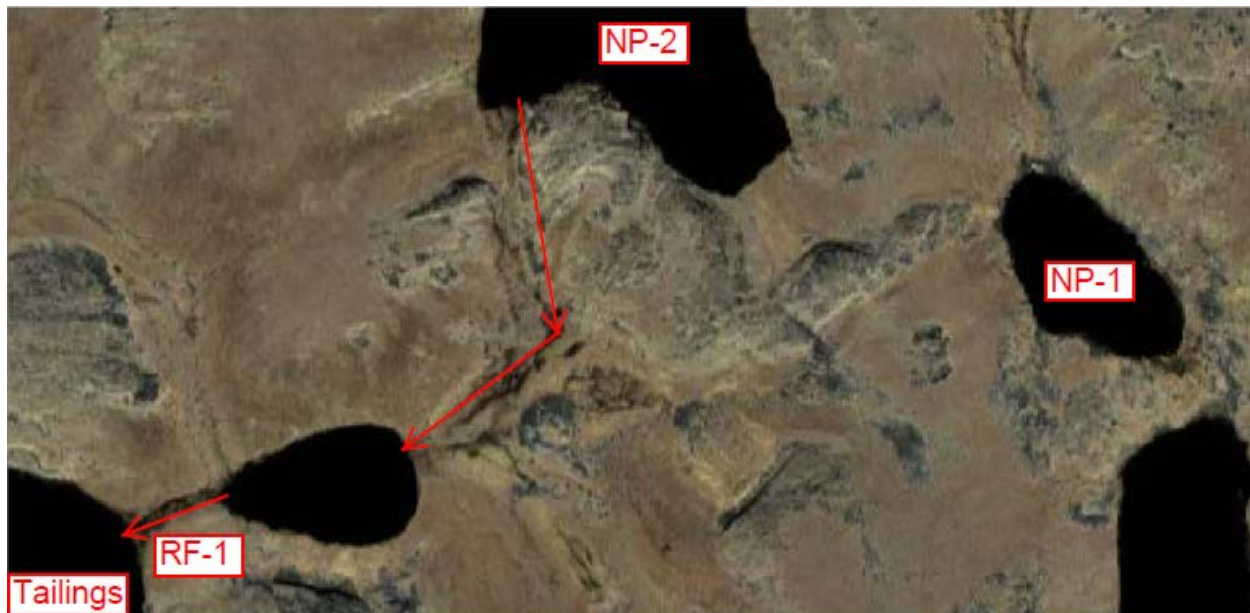


Photo 6 – Topography prior to mine development

Construction of the Waste Rock Plug was completed on September 1st. The seep areas are segregated and have been kept at low levels – see photo 7 below.



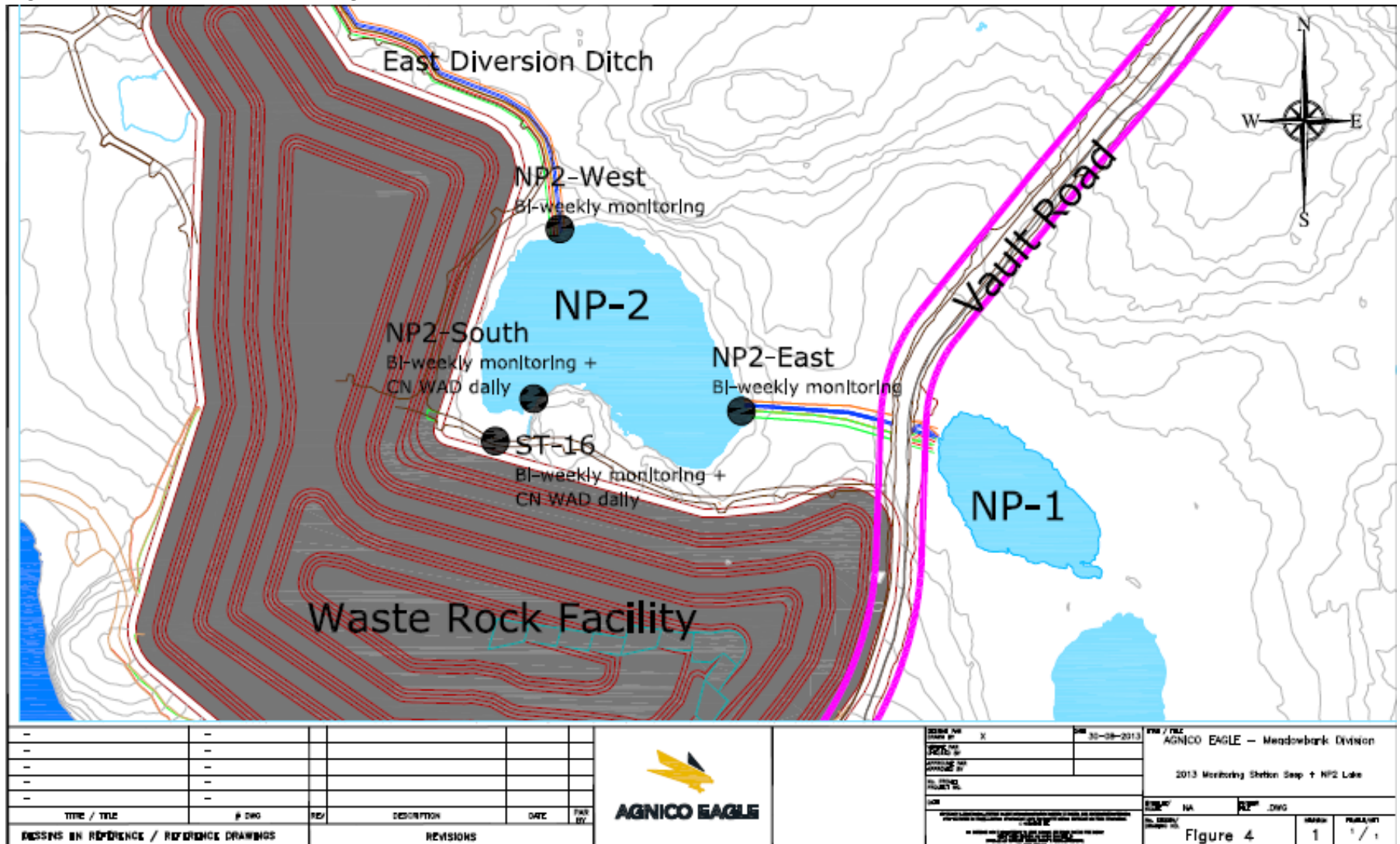
Photo 7 – Construction of Waste Rock Plug

3. Measures Taken/Action Plan

- Upon first noting the “red” seep water in NP-2 Lake (approximately July 26th) and after the initial AANDC inspection of July 30th AEM increased pumping of the seep water to prevent migration through the road. The seeps will be monitored daily and pumped out accordingly – daily if necessary;
- After receiving the sample analysis results from July 30th sampling conducted with the AANDC Inspector indicating elevated copper, nickel, etc. an investigation was started to determine the source of these metals. There was no previous history of this. Initially AEM concentrated on the waste rock properties and possible seepage of PAG rock;
- By August 28th, after noting a hydraulic gradient between the TSF and NP-2 Lake, the fact that a former watercourse connected the two areas (RF-1 and ST-16) under the Waste Rock Facility and the results of a comparative analysis of sample results from the TSF (ST-21) and the ST-16 seep area it was determined that it was possible for TSF reclaim to migrate to the seep area;
- A short term monitoring program was implemented (See Figure 4). The short term monitoring program includes daily monitoring of CN WAD using our on site assay laboratory at the seep areas ST-16 and in NP-2 Lake South location. In addition we will sample ST-16, NP-2 South, East and West bi weekly for total and dissolved metals, general chemistry as well as total and free cyanide (Group 2 and 3 of our NWB Water License parameters). Phaser Lake will be sampled also as an external reference; background samples for most metals were taken in 2003;
- A Waste Rock Plug/Dike was designed and constructed (commencing August 26th), under the supervision of the AEM Engineering Department, along the perimeter road to prevent any further seepage to Lake NP-2. This was completed on September 1st. A complete construction report and as-built drawing will be prepared;
- A staff gauge was placed in the seeps to better determine the seepage inflow;
- An internal SOP was completed (see Appendix 2) to ensure that seeps are pumped in a timely manner at the commencement of freshet and kept at a low level;
- Tailing deposition will be concentrated along the rockfill road in the area where the former watercourse was located to a level higher than the current water level in the TSF. This will direct the water away from the suspected migration route toward the reclaim barge and act as a plug. This commenced on September 2nd; and

- AEM has submitted (on September 2nd) a request for proposal from a third party engineering firm to assess why this seepage has occurred, verify the pathway under the waste rock storage area, if there any additional short term measures that can be implemented, further suggestions for management of freshet, whether an engineered collection and sump system is required for the seepage area, an evaluation of the seepage risk in the TSF and provision of recommendations for a permanent solution.

Figure 4 – Short term monitoring stations



4. Conclusion

AEM has completed a preliminary investigation into the discharge of seepage from the Waste Rock Storage Area in the location of sampling station ST-16 and determined that this material has likely seeped through the perimeter road into NP-2 Lake (fish bearing). Further to this, it appears likely that the seepage source is possibly reclaim water from the TSF migrating under the waste rock pile to ST-16 and subsequently through the perimeter road to NP-2 Lake. The seepage water at the ST-16 location has been kept to a low level and is checked daily.

Measures were implemented to stop the seepage to NP- 2 Lake and prevent it from re-occurring (Waste Rock Plug installation). Tailings deposition was changed on September 2nd to an area where the seepage is thought to be migrating. This action will also assist in pushing the water away from the rockfill perimeter structure and act as an additional “plug”.

A third party engineering firm was requested, on September 2nd, to submit a proposal to provide further assessment and recommendations, including whether additional permanent structures are required to correct this problem.

AEM is of the opinion that appropriate corrective and preventive measures have been undertaken in the short term to isolate the seepage and protect the receiving environment. For the longer term AEM plans to assess the findings of the third party engineering firm and submit any additional actions that are necessary.

APPENDIX 1

Results from the sampling conducted with AANDC

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-28320

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sample name: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Sampled by: Jeff Pratt

Date received: July 31, 2013

Matrix: Water

Drinking water distribution:

Reported on: August 16, 2013

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.

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

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	Result	Method name	Analysis date
Alkalinity	272 mg CaCO ₃ /L	M-TIT-1.0	August 01, 2013
Aluminium (Al)	0.042 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Aluminium (Al)	<0.006 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Antimony (Sb)	0.0012 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Silver (Ag)	0.0019 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Arsenic (As)	0.0139 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Arsenic (As)	0.0058 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Ammonia nitrogen (NH ₃ -NH ₄)	34 mg N/L	Sous-traitance\Multilab Direct	August 02, 2013
Barium (Ba)	0.1414 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Barium (Ba)	0.1433 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Beryllium (Be)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Boron (B)	0.15 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Cadmium (Cd)	0.00065 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Cadmium (Cd)	0.00065 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Chloride	450 mg/L	Sous-traitance\Multilab Direct	August 01, 2013
Chrome (Cr)	0.0011 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Cobalt (Co)	0.3114 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Copper (Cu)	2.038 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Copper (Cu)	1.712 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Hardness	1417 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 05, 2013
Tin (Sn)	<0.001 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Iron (Fe)	4.4 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Iron (Fe)	0.06 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Fluoride (F)	0.29 mg/L	Sous-traitance\Multilab Direct	August 08, 2013
Lithium (Li)	0.006 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Manganese (Mn)	6.370 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Manganese (Mn)	6.055 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Mercury (Hg)	0.00005 mg/L	Sous-traitance\Multilab Direct	August 02, 2013
Dissolved Mercury (Hg)	<0.0001 mg/L	Sous-traitance\Multilab Direct	August 15, 2013
Molybdenum (Mo)	0.1704 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Molybdenum (Mo)	0.1773 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Ammonia (NH ₃)	1.2 mg N/L	Sous-traitance\Multilab Direct	August 02, 2013
Nickel (Ni)	2.015 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Nickel (Ni)	1.810 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Nitrate (NO ₃)	37.8 mg N/L	Sous-traitance\Multilab Direct	August 01, 2013
Nitrite (NO ₂)	0.41 mg N/L	Sous-traitance\Multilab Direct	August 01, 2013
Lead (Pb)	0.0013 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Lead (Pb)	<0.0003 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Selenium (Se)	0.02 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Selenium (Se)	0.023 mg/L	Sous-traitance\Multilab Direct	August 05, 2013

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

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Analytical Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	Result	Method name	Analysis date
Dissolved Solids	3792 mg/L	M-TIT-1.0	August 01, 2013
Strontium (Sr)	2.14 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Sulfate (SO4)	2400 mg SO4/L	Sous-traitance\Multilab Direct	August 05, 2013
Thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Dissolved thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Titanium (Ti)	0.55 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Uranium (U)	0.17 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Vanadium (V)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Zinc (Zn)	0.009 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Zinc	0.008 mg/L	Sous-traitance\Multilab Direct	August 05, 2013

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Detection limit

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	Value	Unit	Method	Accreditation
Alkalinity	2 mg CaCO ₃ /L		M-TIT-1.0	
Aluminium (Al)	0.006 mg/L		Sous-traitance	
Dissolved Aluminium (Al)	0.006 mg/L		Sous-traitance	
Antimony (Sb)	0.0001 mg/L		Sous-traitance	Yes
Dissolved Silver (Ag)	0.0002 mg/L		Sous-traitance	
Arsenic (As)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Arsenic (As)	0.0005 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)	0.0005 mg/L		Sous-traitance	
Beryllium (Be)	0.0005 mg/L		Sous-traitance	
Boron (B)	0.01 mg/L		Sous-traitance	Yes
Cadmium (Cd)	0.00002 mg/L		Sous-traitance	Yes
Dissolved Cadmium (Cd)	0.00002 mg/L		Sous-traitance	
Chloride	0.5 mg/L		Sous-traitance	Yes
Chrome (Cr)	0.0006 mg/L		Sous-traitance	Yes
Cobalt (Co)	0.0005 mg/L		Sous-traitance	
Copper (Cu)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Copper (Cu)	0.0005 mg/L		Sous-traitance	
Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Tin (Sn)	0.001 mg/L		Sous-traitance	Yes
Iron (Fe)	0.01 mg/L		Sous-traitance	Yes
Dissolved Iron (Fe)	0.01 mg/L		Sous-traitance	
Fluoride (F)	0.02 mg/L		Sous-traitance	Yes
Lithium (Li)	0.005 mg/L		Sous-traitance	
Manganese (Mn)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Manganese (Mn)	0.0005 mg/L		Sous-traitance	
Mercury (Hg)	0.00001 mg/L		Sous-traitance	Yes
Dissolved Mercury (Hg)	0.0001 mg/L		Sous-traitance	
Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	
Ammonia (NH ₃)	0.05 mg N/L		Sous-traitance	
Nickel (Ni)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Nickel (Ni)	0.0005 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)	0.0003 mg/L		Sous-traitance	
Selenium (Se)	0.001 mg/L		Sous-traitance	Yes
Dissolved Selenium (Se)	0.001 mg/L		Sous-traitance	

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Detection limit

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	Value	Unit	Method	Accreditation
Dissolved Solids	1	mg/L	M-TIT-1.0	
Strontium (Sr)	0.005	mg/L	Sous-traitance	
Sulfate (SO4)	1	mg SO4/L	Sous-traitance	Yes
Thallium (Tl)	0.005	mg/L	Sous-traitance	
Dissolved thallium (Tl)	0.005	mg/L	Sous-traitance	
Titanium (Ti)	0.01	mg/L	Sous-traitance	
Uranium (U)	0.001	mg/L	Sous-traitance	
Vanadium (V)	0.0005	mg/L	Sous-traitance	Yes
Zinc (Zn)	0.001	mg/L	Sous-traitance	Yes
Dissolved Zinc	0.001	mg/L	Sous-traitance	

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Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
Alkalinity mg CaCO ₃ /L	Standard name STD alcalinité Result 158 Accuracy 91% Limit 123 - 167
Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0311-2013-23m Result 5.77 Accuracy 93.2% Limit 5.26 - 7.12
Dissolved Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0311-2013-23 Result 6.22 Accuracy 99.5% Limit 5.26 - 7.12
Antimony (Sb) mg/L	Blank <0.0001
	Standard name DMR-0311-2013-23m Result 0.1885 Accuracy 85.3% Limit 0.188 - 0.254
Dissolved Silver (Ag) mg/L	Blank <0.0002
Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m Result 0.3401 Accuracy 79.8% Limit 0.198 - 0.368
Dissolved Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23 Result 0.3176 Accuracy 95.5% Limit 0.236 - 0.372
Ammonia nitrogen (NH ₃ -NH ₄) m	Blank <0.01
	Standard name DMR-0446-2013-NH ₃ Result 5.3 Accuracy 98.5% Limit 4.44 - 6.00
Barium (Ba) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m Result 2.146 Accuracy 89.4% Limit 2.0 - 2.8

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Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
Dissolved Barium (Ba) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23 Result 2.254 Accuracy 93.9% Limit 2.04 - 2.76
Beryllium (Be) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23m Result 1.591 Accuracy 93.6% Limit 1.4 - 2.0
Boron (B) mg/L	Blank <0.01 Standard name DMR-0311-2013-23m Result 2.5 Accuracy 86.8% Limit 2.45 - 3.31
Cadmium (Cd) mg/L	Blank <0.00002 Standard name DMR-0311-2013-23m Result 0.91111 Accuracy 98.8% Limit 0.8 - 1.0
Dissolved Cadmium (Cd) mg/L	Blank <0.00002 Standard name DMR-0311-2013-23 Result 0.87322 Accuracy 97% Limit 0.8 - 1.0
Chloride mg/L	Blank <0.5 Standard name DMR-0446-2013-CL Result 100 Accuracy 99% Limit 87 - 111
Chrome (Cr) mg/L	Blank <0.0006 Standard name DMR-0311-2013-23m Result 4.064 Accuracy 99.7% Limit 3.44 - 4.66
Cobalt (Co) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23m Result 1.643 Accuracy 94.7% Limit 1.33 - 1.79

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Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
Copper (Cu) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 1.404
	Accuracy 86.8%
	Limit 1.05 - 1.43
Dissolved Copper (Cu) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 1.301
	Accuracy 95.1%
	Limit 1.05 - 1.43
Tin (Sn) mg/L	Blank <0.001
Iron (Fe) mg/L	Blank <0.01
	Standard name DMR-0311-2013-23m
	Result 11.6
	Accuracy 89.5%
	Limit 8.9 - 12.1
Dissolved Iron (Fe) mg/L	Blank <0.01
	Standard name DMR-0311-2013-23
	Result 10.4
	Accuracy 99%
	Limit 8.9 - 12.1
Fluoride (F) mg/L	Blank <0.02
	Standard name DMR-0446-2013-12-F
	Result 2.9
	Accuracy 94.8%
	Limit 2.83 - 3.29
Lithium (Li) mg/L	Blank <0.005
	Standard name DMR-0773-2011-18a
	Result 0.863
	Accuracy 97.3%
	Limit 0.714 - 0.966
Manganese (Mn) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 3.956
	Accuracy 97.5%
	Limit 3.28 - 4.44
Dissolved Manganese (Mn) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 3.675
	Accuracy 95.2%

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

This report shall not be reproduced except in full without the written authority of the laboratory.

Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
Mercury (Hg) mg/L	Limit 3.28 - 4.44
	Blank <0.00001
	Standard name DMR-0311-2013-14-Hg
	Result 0.00418
	Accuracy 95.5%
Dissolved Mercury (Hg) mg/L	Limit 0.003 - 0.005
	Blank <0.0001
	Standard name DMR-0311-2013-14-Hg
	Result 0.0032
	Accuracy 80%
Molybdenum (Mo) mg/L	Limit 0.003 - 0.005
	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 0.6781
	Accuracy 96.2%
Dissolved Molybdenum (Mo) mg	Limit 0.599 - 0.811
	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 0.6419
	Accuracy 91%
Ammonia (NH3) mg N/L	Limit 0.599 - 0.811
	Blank <0.05
	Standard name DMR-0446-2013-NH3
	Result 5.3
	Accuracy 98.5%
Nickel (Ni) mg/L	Limit 4.44 - 6.00
	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 1.232
	Accuracy 91%
Dissolved Nickel (Ni) mg/L	Limit 0.96 - 1.30
	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 1.147
	Accuracy 92.5%
Nitrate (NO3) mg N/L	Limit 1.05 - 1.43
	Blank <0.01
Nitrite (NO2) mg N/L	Sample duplicate 37.8-35.3
	Blank <0.01
	Standard name DMR-0446-2013-NO2

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Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
	Result 2.5
	Accuracy 99.2%
	Limit 2.14 - 2.90
	Sample duplicate 0.41-0.40
Lead (Pb) mg/L	Blank <0.0003
	Standard name DMR-0311-2013-23m
	Result 0.9249
	Accuracy 97.2%
	Limit 0.8 - 1.0
Dissolved Lead (Pb) mg/L	Blank <0.0003
	Standard name DMR-0311-2013-23
	Result 0.9053
	Accuracy 99.4%
	Limit 0.8 - 1.0
Selenium (Se) mg/L	Blank <0.001
	Standard name DMR-0311-2013-23m
	Result 1.46
	Accuracy 91.9%
	Limit 1.15 - 1.55
Dissolved Selenium (Se) mg/L	Blank <0.001
	Standard name DMR-0311-2013-23
	Result 1.39
	Accuracy 97%
	Limit 1.15 - 1.55
Strontium (Sr) mg/L	Blank <0.005
	Standard name DMR-0773-2011-18a
	Result 1.25
	Accuracy 99.2%
	Limit 1.05 - 1.43
Sulfate (SO4) mg SO4/L	Blank <0.6
	Standard name DMR-0446-2013-SO4
	Result 117
	Accuracy 93.6%
	Limit 99 - 121
Thallium (Tl) mg/L	Blank <0.005
	Standard name STD Tl SC0187114 1000ppm
	Result 1001
	Accuracy 99.9%
	Limit 850 - 1150
Dissolved thallium (Tl) mg/L	Blank <0.005

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Quality control Report

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling hour: N/D

Parameter	
	Standard name STD TI SC0187114 1000ppm
	Result 1001
	Accuracy 99.9%
	Limit 850 - 1150
Titanium (Ti) mg/L	Blank <0.01
Uranium (U) mg/L	Blank <0.001
	Standard name DMR-0311-2013-23m
	Result 2.01
	Accuracy 85.1%
	Limit 1.49 - 2.01
Vanadium (V) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 1.950
	Accuracy 98%
	Limit 1.69 - 2.29
Zinc (Zn) mg/L	Blank <0.001
	Standard name DMR-0311-2013-23m
	Result 5.07
	Accuracy 87.6%
	Limit 3.83 - 5.19
Dissolved Zinc mg/L	Blank <0.001
	Standard name DMR-0311-2013-23
	Result 4.78
	Accuracy 94%
	Limit 3.83 - 5.19

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Additional information

Lab number: V-28320

Sample name: SW-6(S-RSF) split (ST-6)

Sampling location: SW-6(S-RSF) split (ST-6)

Sampling date: July 30, 2013

Sampling hour: N/D

Lab method	Method reference
M-TIT-1.0	MA.303-Titr Auto 2.0
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-CI-1.0	MA.300-Anions 1.0
M-NITR-2.0	MA.300-NO3 2.0
M-Lix-1.0	MA.100-Lix.com. 1.1
M-SULF-2.0	MA.300-Ions 1.3

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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-28321

Sampling location: NP2 split

Sampling date: July 30, 2013

Sample name: NP2 split

Sampling hour: 15:00

Sampled by: Jeff Pratt

Date received: July 31, 2013

Matrix: Waste Water

Drinking water distribution:

Reported on: August 16, 2013

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.

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

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	Result	Method name	Analysis date
Alkalinity	177 mg CaCO ₃ /L	M-TIT-1.0	August 01, 2013
Aluminium (Al)	0.024 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Aluminium (Al)	<0.006 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Antimony (Sb)	0.0004 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Silver (Ag)	0.0024 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Arsenic (As)	0.0068 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Arsenic (As)	0.0022 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Ammonia nitrogen (NH ₃ -NH ₄)	27.4 mg N/L	Sous-traitance\Multilab Direct	August 02, 2013
Barium (Ba)	0.1419 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Barium (Ba)	0.1329 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Beryllium (Be)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Boron (B)	0.09 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Cadmium (Cd)	0.0003 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Cadmium (Cd)	0.00022 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Chloride	587 mg/L	Sous-traitance\Multilab Direct	August 01, 2013
Chrome (Cr)	<0.0006 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Cobalt (Co)	0.2515 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Copper (Cu)	3.261 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Copper (Cu)	2.949 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Hardness	1031 mg CaCO ₃ /L	Sous-traitance\Multilab Direct	August 05, 2013
Tin (Sn)	<0.001 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Iron (Fe)	23.6 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Iron (Fe)	0.15 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Fluoride (F)	0.02 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Lithium (Li)	0.005 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Manganese (Mn)	6.464 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Manganese (Mn)	5.427 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Mercury (Hg)	0.00002 mg/L	Sous-traitance\Multilab Direct	August 02, 2013
Dissolved Mercury (Hg)	<0.0001 mg/L	Sous-traitance\Multilab Direct	August 15, 2013
Molybdenum (Mo)	0.0871 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Molybdenum (Mo)	0.0716 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Ammonia (NH ₃)	0.14 mg N/L	Sous-traitance\Multilab Direct	August 02, 2013
Nickel (Ni)	1.465 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Nickel (Ni)	1.246 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Nitrate (NO ₃)	23.5 mg N/L	Sous-traitance\Multilab Direct	August 01, 2013
Nitrite (NO ₂)	0.4 mg N/L	Sous-traitance\Multilab Direct	August 01, 2013
Lead (Pb)	<0.0003 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Lead (Pb)	<0.0003 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Selenium (Se)	0.014 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Selenium (Se)	0.014 mg/L	Sous-traitance\Multilab Direct	August 05, 2013

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

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Analytical Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	Result	Method name	Analysis date
Dissolved Solids	2854 mg/L	M-TIT-1.0	August 01, 2013
Strontium (Sr)	1.62 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Sulfate (SO4)	1546 mg SO4/L	Sous-traitance\Multilab Direct	August 05, 2013
Thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Dissolved thallium (Tl)	<0.005 mg/L	Sous-traitance\Multilab Direct	August 07, 2013
Titanium (Ti)	0.39 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Uranium (U)	0.144 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Vanadium (V)	<0.0005 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Zinc (Zn)	0.006 mg/L	Sous-traitance\Multilab Direct	August 05, 2013
Dissolved Zinc	0.007 mg/L	Sous-traitance\Multilab Direct	August 05, 2013

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Detection limit

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	Value	Unit	Method	Accreditation
Alkalinity	2 mg CaCO ₃ /L		M-TIT-1.0	
Aluminium (Al)	0.006 mg/L		Sous-traitance	
Dissolved Aluminium (Al)	0.006 mg/L		Sous-traitance	
Antimony (Sb)	0.0001 mg/L		Sous-traitance	Yes
Dissolved Silver (Ag)	0.0002 mg/L		Sous-traitance	
Arsenic (As)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Arsenic (As)	0.0005 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)	0.0005 mg/L		Sous-traitance	
Beryllium (Be)	0.0005 mg/L		Sous-traitance	
Boron (B)	0.01 mg/L		Sous-traitance	Yes
Cadmium (Cd)	0.00002 mg/L		Sous-traitance	Yes
Dissolved Cadmium (Cd)	0.00002 mg/L		Sous-traitance	
Chloride	0.5 mg/L		Sous-traitance	Yes
Chrome (Cr)	0.0006 mg/L		Sous-traitance	Yes
Cobalt (Co)	0.0005 mg/L		Sous-traitance	
Copper (Cu)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Copper (Cu)	0.0005 mg/L		Sous-traitance	
Hardness	1 mg CaCO ₃ /L		Sous-traitance	
Tin (Sn)	0.001 mg/L		Sous-traitance	Yes
Iron (Fe)	0.01 mg/L		Sous-traitance	Yes
Dissolved Iron (Fe)	0.01 mg/L		Sous-traitance	
Fluoride (F)	0.02 mg/L		Sous-traitance	Yes
Lithium (Li)	0.005 mg/L		Sous-traitance	
Manganese (Mn)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Manganese (Mn)	0.0005 mg/L		Sous-traitance	
Mercury (Hg)	0.00001 mg/L		Sous-traitance	Yes
Dissolved Mercury (Hg)	0.0001 mg/L		Sous-traitance	
Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Molybdenum (Mo)	0.0005 mg/L		Sous-traitance	
Ammonia (NH ₃)	0.05 mg N/L		Sous-traitance	
Nickel (Ni)	0.0005 mg/L		Sous-traitance	Yes
Dissolved Nickel (Ni)	0.0005 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)	0.0003 mg/L		Sous-traitance	
Selenium (Se)	0.001 mg/L		Sous-traitance	Yes
Dissolved Selenium (Se)	0.001 mg/L		Sous-traitance	

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Detection limit

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	Value	Unit	Method	Accreditation
Dissolved Solids	1	mg/L	M-TIT-1.0	
Strontium (Sr)	0.005	mg/L	Sous-traitance	
Sulfate (SO4)	1	mg SO4/L	Sous-traitance	Yes
Thallium (Tl)	0.005	mg/L	Sous-traitance	
Dissolved thallium (Tl)	0.005	mg/L	Sous-traitance	
Titanium (Ti)	0.01	mg/L	Sous-traitance	
Uranium (U)	0.001	mg/L	Sous-traitance	
Vanadium (V)	0.0005	mg/L	Sous-traitance	Yes
Zinc (Zn)	0.001	mg/L	Sous-traitance	Yes
Dissolved Zinc	0.001	mg/L	Sous-traitance	

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Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Alkalinity mg CaCO ₃ /L	Standard name STD alcalinité Result 158 Accuracy 91% Limit 123 - 167
Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0311-2013-23m Result 5.77 Accuracy 93.2% Limit 5.26 - 7.12
Dissolved Aluminium (Al) mg/L	Blank <0.006
	Standard name DMR-0311-2013-23 Result 6.22 Accuracy 99.5% Limit 5.26 - 7.12
Antimony (Sb) mg/L	Blank <0.0001
	Standard name DMR-0311-2013-23m Result 0.1885 Accuracy 85.3% Limit 0.188 - 0.254
Dissolved Silver (Ag) mg/L	Blank <0.0002
Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m Result 0.3401 Accuracy 79.8% Limit 0.198 - 0.368
Dissolved Arsenic (As) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23 Result 0.3176 Accuracy 95.5% Limit 0.236 - 0.372
Ammonia nitrogen (NH ₃ -NH ₄) m	Blank <0.01
	Standard name DMR-0446-2013-NH ₃ Result 5.3 Accuracy 98.5% Limit 4.44 - 6.00
Barium (Ba) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m Result 2.146 Accuracy 89.4% Limit 2.0 - 2.8

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Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Dissolved Barium (Ba) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23 Result 2.254 Accuracy 93.9% Limit 2.04 - 2.76
Beryllium (Be) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23m Result 1.591 Accuracy 93.6% Limit 1.4 - 2.0
Boron (B) mg/L	Blank <0.01 Standard name DMR-0311-2013-23m Result 2.5 Accuracy 86.8% Limit 2.45 - 3.31
Cadmium (Cd) mg/L	Blank <0.00002 Standard name DMR-0311-2013-23m Result 0.91111 Accuracy 98.8% Limit 0.8 - 1.0
Dissolved Cadmium (Cd) mg/L	Blank <0.00002 Standard name DMR-0311-2013-23 Result 0.87322 Accuracy 97% Limit 0.8 - 1.0
Chloride mg/L	Blank <0.5 Standard name DMR-0446-2013-CL Result 100 Accuracy 99% Limit 87 - 111
Chrome (Cr) mg/L	Blank <0.0006 Standard name DMR-0311-2013-23m Result 4.064 Accuracy 99.7% Limit 3.44 - 4.66
Cobalt (Co) mg/L	Blank <0.0005 Standard name DMR-0311-2013-23m Result 1.643 Accuracy 94.7% Limit 1.33 - 1.79

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Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Copper (Cu) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 1.404
	Accuracy 86.8%
	Limit 1.05 - 1.43
Dissolved Copper (Cu) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 1.301
	Accuracy 95.1%
	Limit 1.05 - 1.43
Tin (Sn) mg/L	Blank <0.001
	Blank <0.01
Iron (Fe) mg/L	Standard name DMR-0311-2013-23m
	Result 11.6
	Accuracy 89.5%
	Limit 8.9 - 12.1
Dissolved Iron (Fe) mg/L	Blank <0.01
	Standard name DMR-0311-2013-23
	Result 10.4
	Accuracy 99%
	Limit 8.9 - 12.1
Lithium (Li) mg/L	Blank <0.005
	Standard name DMR-0773-2011-18a
	Result 0.863
	Accuracy 97.3%
	Limit 0.714 - 0.966
Manganese (Mn) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 3.956
	Accuracy 97.5%
	Limit 3.28 - 4.44
Dissolved Manganese (Mn) mg/L	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 3.675
	Accuracy 95.2%
	Limit 3.28 - 4.44
Mercury (Hg) mg/L	Blank <0.00001
	Standard name DMR-0311-2013-14-Hg
	Result 0.00418
	Accuracy 95.5%

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Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Dissolved Mercury (Hg) mg/L	Limit 0.003 - 0.005
	Blank <0.0001
	Standard name DMR-0311-2013-14-Hg
	Result 0.0032
	Accuracy 80%
Molybdenum (Mo) mg/L	Limit 0.003 - 0.005
	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 0.6781
	Accuracy 96.2%
Dissolved Molybdenum (Mo) mg	Limit 0.599 - 0.811
	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 0.6419
	Accuracy 91%
Ammonia (NH3) mg N/L	Limit 0.599 - 0.811
	Blank <0.05
	Standard name DMR-0446-2013-NH3
	Result 5.3
	Accuracy 98.5%
Nickel (Ni) mg/L	Limit 4.44 - 6.00
	Blank <0.0005
	Standard name DMR-0311-2013-23m
	Result 1.232
	Accuracy 91%
Dissolved Nickel (Ni) mg/L	Limit 0.96 - 1.30
	Blank <0.0005
	Standard name DMR-0311-2013-23
	Result 1.147
	Accuracy 92.5%
Nitrate (NO3) mg N/L	Limit 1.05 - 1.43
	Blank <0.01
Nitrite (NO2) mg N/L	Blank <0.01
	Standard name DMR-0446-2013-NO2
	Result 2.5
	Accuracy 99.2%
Lead (Pb) mg/L	Limit 2.14 - 2.90
	Blank <0.0003
	Standard name DMR-0311-2013-23m
	Result 0.9249

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Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Dissolved Lead (Pb) mg/L	Accuracy 97.2%
	Limit 0.8 - 1.0
	Blank <0.0003
	Standard name DMR-0311-2013-23
	Result 0.9053
Selenium (Se) mg/L	Accuracy 99.4%
	Limit 0.8 - 1.0
	Blank <0.001
	Standard name DMR-0311-2013-23m
Dissolved Selenium (Se) mg/L	Result 1.46
	Accuracy 91.9%
	Limit 1.15 - 1.55
	Blank <0.001
Strontium (Sr) mg/L	Standard name DMR-0311-2013-23
	Result 1.39
	Accuracy 97%
	Limit 1.15 - 1.55
Sulfate (SO4) mg SO4/L	Blank <0.005
	Standard name DMR-0773-2011-18a
	Result 1.25
	Accuracy 99.2%
Thallium (Tl) mg/L	Limit 1.05 - 1.43
	Blank <0.6
	Standard name DMR-0446-2013-SO4
	Result 117
Dissolved thallium (Tl) mg/L	Accuracy 93.6%
	Limit 99 - 121
	Blank <0.005
	Standard name STD Tl SC0187114 1000ppm
Titanium (Ti) mg/L	Result 1001
	Accuracy 99.9%
	Limit 850 - 1150
	Blank <0.005
Uranium (U) mg/L	Standard name STD Tl SC0187114 1000ppm
	Result 1001
	Accuracy 99.9%
	Limit 850 - 1150
Uranium (U) mg/L	Blank <0.01
	Blank <0.001
	Standard name DMR-0311-2013-23m

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

This report shall not be reproduced except in full without the written authority of the laboratory.

Quality control Report

Lab number: V-28321

Sample name: NP2 split

Sampling location: NP2 split

Sampling date: July 30, 2013

Sampling hour: 15:00

Parameter	
Vanadium (V) mg/L	Result 2.01
	Accuracy 85.1%
	Limit 1.49 - 2.01
	Blank <0.0005
	Standard name DMR-0311-2013-23m
Zinc (Zn) mg/L	Result 1.950
	Accuracy 98%
	Limit 1.69 - 2.29
	Blank <0.001
	Standard name DMR-0311-2013-23m
Dissolved Zinc mg/L	Result 5.07
	Accuracy 87.6%
	Limit 3.83 - 5.19
	Blank <0.001
	Standard name DMR-0311-2013-23
	Result 4.78
	Accuracy 94%
	Limit 3.83 - 5.19

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

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Additional information

Lab number: V-28321
Sample name: NP2 split
Sampling location: NP2 split

Sampling date: July 30, 2013
Sampling hour: 15:00

Lab method	Method reference
M-TIT-1.0	MA.303-Titr Auto 2.0
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-CI-1.0	MA.300-Anions 1.0
M-NITR-2.0	MA.300-NO3 2.0
M-Lix-1.0	MA.100-Lix.com. 1.1
M-SULF-2.0	MA.300-Ions 1.3

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

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APPENDIX 2

SOP: Management of Water in Diversion Ditches, Seeps, and Collection Locations during Freshet

Water Management in Diversion Ditches, Seeps, and Collection Locations during Freshet

		PROCEDURE NUMBER: MBK-ENV-0006	
People concerned	Mine, Dikes, Engineering and Environment	Prepared by	Jeffrey Pratt Environmental Coordinator
		Authorized by	Kevin Buck Environmental Superintendent
Effective :	September 4, 2013	“Safety First, Safety Last ... Safety Always!”	
		“No Repeats” – Our Stepping Stone to ZERO HARM	
This procedure corresponds to the required minimum standard. Each and everyone also have to comply with the rules and regulations of the Nunavut Government in terms of health and safety at work.			

Objective:

This procedure is put in place to give specific dates in which actions must be taken to avoid excess non-contact water impacting on site mining activity, and also to prevent excessive pooling of contact water that could lead to a release of contact water off the mine site. This procedure will keep the project in conformance with NWB license, Part D, Item 33; Part E, Item 9.

Concerned departments:



Environment



Mine



Engineering



Dyke and Dewatering

Risks/ Impacts Legend



Health & Safety



Process/quality



Costs



Environment

Management of Water in Diversion Ditches, Seeps, and Collection Locations during Freshet

Procedure	Risks / Impacts
Diversion Ditches	
1. No later than May 1, all diversion ditches must be cleaned free of ice and snow to allow freshet melt water to flow freely and prevent any obstructions within the diversion ditches.	  Avoid Environmental Impact Avoid Excess water on Mine Site
2. Culverts under Vault road are to be steamed, if necessary, to free ice obstructions.	  Avoid Environmental Impact Avoid Excess water on Mine Site and road wash out
3. Starting May 1 commence monitoring water moving through the diversion ditch system. Sampling for TSS must be completed by Environment Department, and shall initiate as soon as water flowing.	  Avoid Environmental Impact
4. If TSS levels are elevated Sediment control measures must be put in place. This may include installation of silt fence, or turbidity barrier. To be conducted by Environment staff	  Avoid Environmental Impact

Seep and Collection Locations	
1. May 1st begin weekly inspections of seep areas and melt water collection locations. As per NWB license, Part E, Item 9.	  Avoid Environmental Impact Avoid Excess water on Mine Site
2. At first sign of melt water collection, contact Environment Department. It will need to be determined if the water requires analysis prior to movement.	  Avoid Environmental Impact Avoid Excess water on Mine Site
3. At first sign of melt water arrange with Mine or Dyke and Dewatering to begin removing water from seep and collection locations. Be sure to get an approved disposal location from the Environment Department.	  Avoid Environmental Impact
4. Any movement of water must be recorded. Quantity of water moved and location water is drawn and dispensed must be recorded.	Required for Reporting to Government Agencies
5. All actions listed in this SOP are required corrective measures to mitigate any impacts related to surface drainage resulting from the Project's activities on off site receiving waters. As per NWB license, Part D, Item 33.	  Avoid Environmental Impact

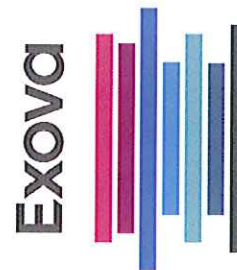
Appendix 2
August 22nd, 2013 Daphnia Toxicity Results

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Certificate of Analysis

Request number: **13-557226**



Date Received: 2013-08-26

Date Certificate Issued: 2013-09-11

Certificate Version: 1

- ☒ Official Certificate of Analysis
☐ Preliminary Certificate of Analysis

Client

MULTI-LAB DIRECT - Rouyn

125 BOUL. INDUSTRIEL
ROUYN-NORANDA, Québec, Canada
J9X 6P2
Telephone : (819) 797-0550
Fax : (819) 797-2155

P.O. Number	Your project ID.	Project Manager
NA	29057	M. Roger Turmel

Comments

This version replaces and cancels all earlier version.

NA : Information Not Available

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Certificate of Analysis

Client: **MULTI-LAB DIRECT - Rouyn**

Request Number: **13-557226**

P.O. Number	Your Project ID.	Project Manager
NA	29057	M. Roger Turmel

Sample(s)

Lab. No. 2423442
Your Reference 29057-ST-9/MMER

Matrix Water
Sampled by M. Martin Theriault
et M. samu
Site sampled Meadowbank

Date sampled 2013-08-22
Date received 2013-08-26

Parameter(s)

Method
Reference

Résultats toxicité truite

QE006-01 (Accredited)

LC50-96h
% mortality at 100% v/v
CI 95% lower
CI 95% upper
Code Statistical method
Toxic units
Conclusion
Analysis details

Preparation -
Analysis -
Sequential No. NA
% v/v >100
% mort 96h NA
NA
NA
AUCUN
U.T. <1.0
Not lethal
APPENDIX

Résultats toxicité daphnie

QE007-01 / QE008-01 (Accredited)

LC50-48h
% mortality at 100% v/v
CI 95% lower
CI 95% upper
Code Statistical method
Toxic units
Conclusion
Analysis details

Preparation -
Analysis -
Sequential No. NA
% v/v 77.1
% mort 48h NA
67.2
88.4
TRISK
U.T. 1.3
Lethal
APPENDIX



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Certificate of Analysis

Client: **MULTI-LAB DIRECT - Rouyn**

Request Number: **13-557226**

P.O. Number	Your Project ID.	Project Manager
NA	29057	M. Roger Turmel

Sample(s)

Lab. No. **2423442**
Your Reference 29057-ST-9/MMER

Matrix Water
Sampled by M. Martin Theriault
et M. samu
Site sampled Meadowbank

Date sampled 2013-08-22
Date received 2013-08-26

Parameter(s)

Method
Reference

Comments:

2423442 29057-ST-9/MMER Daphnia - Type d'essai : CL50, Truites - Type d'essai : CL50

Note 1: Results and comments, if any, relate only to samples submitted for analysis at the Saint-Augustin-de-Desmaures laboratory.


Linda Bouchard, biologist



Appendix

Client: MULTI-LAB DIRECT Request number: 13-557226

BIOASSAY Rainbow trout

Lab. No: 2423442 Sampling method: Grab
Your reference: 29057-ST-9/MMER Date sampled (date and hour): 2013-08-22
Matrix: Water Date received (date and hour): 2013-08-26 08:00:00
Sampled by: M. Martin Theriault et M. Samuel Tapp State of sampled received: Conform
Site sampled: Meadowbank

Date and hour start analysis (0hrs): 2013-08-27 13:00 Date and hour end analysis (96hrs): 2013-08-31 13:00

Analysed by: JB

Organisms: *Oncorhynchus mykiss*; Acclimation: ≥ 2 weeks

Lot #: PAV130726
Average weight of control fish (g): 0.37 Minimum: 0.28 Maximum: 0.51
 $\pm$ std. dev.: 0.08
Average fork length of control fish (mm): 35.8 Minimum: 32 Maximum: 40
 $\pm$ std. dev.: 2.7
Number of fish/container: 10
Loading density (g/L): 0.37
Volume of test solutions (L): 10
Height of test solutions (cm): 22
Photoperiod: 16hrs light / 8hrs darkness
Dilution water: Dechlorinated municipal water
Pre-aeration of sample: 30 minutes
Pre-aeration and aeration rate (mL/min/L ± 1): 6.5
Pre-treatment of sample: NA
Protocol / Reference method: SPE1/RM/13, 2000, mod. 05/2007
No modification to protocol

sample concentration (% v/v)	number of fish 0 hrs	volume (L)	atypical or stressed 96hrs (number)	atypical or stressed 96hrs (%)	mortality 96hrs (number)	mortality 96hrs (%)	temperature (°C)		pH		dissolved oxygen (mg/L)		conductivity (µS/cm)
							0hrs	96hrs	0hrs	96hrs	0hrs	96hrs	
0.00	10	10	0	0	0	0	15.6	15.4	7.7	7.8	9.5	9.2	287
6.25	10	10	0	0	0	0	15.0	15.4	7.8	7.7	9.2	9.9	355
12.50	10	10	0	0	0	0	14.9	15.4	7.9	7.7	9.7	9.5	421
25.00	10	10	0	0	0	0	14.8	15.4	8.0	7.7	9.8	9.4	567
50.00	10	10	0	0	0	0	14.9	15.4	7.9	7.8	9.7	9.1	844
100.0	10	10	0	0	1	10	15.6	15.4	7.7	7.8	9.3	9.3	1335
Sample characteristics before analysis			Appearance				15.9		7.2		8.5		1321
			Clear										

Reference assay (Phenol) Geometric average: 9.100
Reference assay date: 2013-08-23 Lower control limit: 6.580
LC50-96h (mg/L of Phenol): 10.00 Upper control limit: 11.62
Lower C.I. at 95%: 9.080
Lower C.I. at 95%: 11.00

Appendix

Client: MULTI-LAB DIRECT

Request number:

13-557226

BIOESSAI *Daphnia magna*

Lab. No: 2423442
 Your reference: 29057-ST-9/MMER
 Matrix: Water
 Sampled by: M. Martin Theriault et M. Samuel Tapp
 Site sampled: Meadowbank

Sampling method: Grab
 Date sampled (date and hour): 2013-08-22
 Date received (date and hour): 2013-08-26 08:00:00
 State of sampled received: Conform

Date and hour start analysis (0hrs): 2013-08-26 16:00 Date and hour end analysis (48hrs): 2013-08-28 16:00

EC50-48h (% v/v): 70.7
 Lower C.I. at 95%: 50
 Upper C.I. at 95%: 100
 Calculation method: Binomiale

Analysed by: JG

Organisms:

Daphnia magna (<24 heures)
 <1% of mortality of brood stock 7 days before test
 Average number of neonates per brood: 20
 Age at first brood (days): 7
 Number of Daphnia/container: 10
 Loading density (mL/Daphnia): 30
 Volume of test solutions (mL): 300
 Photoperiod: 16hrs light / 8hrs darkness
 Dilution water: Dechlorinated municipal water, hardness adjusted
 Culture and dilution water hardness (mg/L CaCO₃): 172
 Pre-aeration of sample: 0 minute
 Pre-aeration rate (mL/min/L $\pm$ 1): NA
 Sample hardness (mg/L CaCO₃): 380
 Sample hardness adjusted (mg/L CaCO₃): NA
 Pre-treatment of sample: NA
 Protocol / Reference method: SPE1/RM/14, 2000
 No modification to protocol

sample concentration (% v/v)	number of Daphnia 0hrs	immobility 48hrs (number)	immobility 48hrs (%)	mortality 48hrs (number)	mortality 48hrs (%)	temperature (°C)		pH		dissolved oxygen (mg/L)		conductivity (µS/cm)		
						0hrs	48hrs	0hrs	48hrs	0hrs	48hrs			
0.00	10	0	0	0	0	20.2	20.3	7.7	7.7	8.7	8.5	523		
6.25	10	0	0	0	0	20.2	20.1	7.8	7.7	8.4	8.4	583		
12.50	10	0	0	0	0	20.2	20.0	7.8	7.8	8.5	8.3	651		
25.00	10	0	0	0	0	20.3	20.0	7.7	7.8	8.3	8.4	770		
50.00	10	0	0	0	0	20.3	20.0	7.6	7.8	8.5	8.1	1014		
100.0	10	10	100	8	80	20.5	20.1	7.4	7.8	8.3	8.0	1472		
Sample characteristics before analysis						Appearance		20.7		7.0		7.8		1471
						Clear								

Reference assay (Potassium dichromate):

Reference assay date: 2013-08-26
 LC-50-48h (mg/L of Cr): 0.227
 Lower C.I. at 95%: 0.210
 Lower C.I. at 95%: 0.245

Geometric average:

0.308
 Lower control limit: 0.210
 Upper control limit: 0.406

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The above-mentioned samples will be retained for a period of 30 days following the issue of this certificate with the exception of microbiology samples or as instructed by the client. Results pertain only to the samples submitted for analysis.