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May 26, 2014

Mr. Willard Hagen, Chair
Mackenzie Valley Land and Water Board
7TH FLOOR – 4910 50TH AVENUE
YELLOWKNIFE, NT X1A 2P6

Dear Mr. Hagen;

RE: April 2014 Monthly Report for Water Licence, MV2012L8-0010, Part B, Item 7

Aboriginal Affairs and Northern Development Canada (AANDC) was issued Water Licence MV2012L8-0010 (the Licence) on March 28, 2013 for water use and waste disposal associated with roaster complex deconstruction and underground stabilization at the Giant Mine. Part B, Item 7 of the Licence requires that the commitments made in the *Communications Plan for Duration of Site Stabilization Activities* (SSP Communications Plan) be fulfilled. One of the commitments in the SSP Communications Plan is to provide monthly updates to the Mackenzie Valley Land and Water Board and identified Parties during active operations.

If you have any questions or concerns, please contact the undersigned at (867)669-2425 or adrian.paradis@aandc-aadnc.gc.ca.

Sincerely,

Adrian Paradis
Regulatory Manager
Giant Mine Remediation Plan

c.c.: AANDC Inspector
Jane Amphlett, AANDC Giant Mine Operations Manager
Distribution List

**GIANT MINE ROASTER COMPLEX DECONSTRUCTION
AND UNDERGROUND STABILIZATION**

WATER LICENCE MV2012L8-0010 – PART B, ITEM 7

SSP COMMUNICATIONS PLAN

MONTHLY REPORT

April 2014

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INTRODUCTION

Water Licence MV2012L8-0010 (the Licence) was issued to Aboriginal Affairs and Northern Development Canada (AANDC) on March 28, 2013 for water use and waste disposal associated with roaster complex deconstruction and underground stabilization at the Giant Mine. Part B, Item 7 of the Licence requires that the commitments made in the *Communications Plan for Duration of Site Stabilization Activities* (SSP Communications Plan) be fulfilled. One of the commitments in the SSP Communications Plan is to provide monthly updates to the Mackenzie Valley Land and Water Board and identified Parties¹ during active operations.

The SSP Communications Plan requires that the monthly updates include the following items:

- Progress/status update of the work
- Summary of outcomes from environmental and health and safety related inspections
- Summary of outcomes from air and water quality monitoring

This report has been prepared for the Licence and describes activities that took place in April 2014.

¹ Parties identified in the SSP Communications Plan include the following:

Residents of Yellowknife, N'Dilo and Dettah	North Slave Métis Alliance
Yellowknives Dene First Nation	Lutsel K'e First Nation
Giant Mine Advisory Committee	NWT Métis Nation
Tlicho First Nation	City of Yellowknife
Back Bay Community Association	Alternatives North
Ecology North	Workers Safety & Compensation Commission
City Emergency Services	Media
Members of the NWT Legislature	Giant Mine Community Alliance
Federal and territorial government agencies and inspection agencies, including Government of the Northwest Territories, Fisheries and Oceans and Environment Canada	

REGULATORY MILESTONES

A list of major regulatory milestones and activities is provided in the table below for reference purposes.

Table 1: Regulatory Milestones during the Reporting Period

April 27, 2014	<ul style="list-style-type: none">Weekly air quality monitoring reports began April 27th
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ROASTER COMPLEX DECONSTRUCTION – PROGRESS UPDATE

During the month of April 2014 the following onsite activities occurred:

- Obtaining authorization from the WSCC to proceed with the 2014 field season.
- Thawing, refurbishing, and starting up the site’s water, wastewater, electrical, trailer, and decontamination unit (DCU) systems.
- Issuing requests for proposals, evaluating proposals, and selecting a new air quality monitoring company (AMEC) for the 2014 season.
- Updating project documents, including the project safety, health, and environmental plan (PSHEP); worker orientation; and standard operating procedures (SOPs).
- Preparing new Standard Operating Procedures to address WSCC concerns.
- Implementing the medical monitoring program and achieving substantial improvements in laboratory turn-around time, with results reporting occurring before the next sample is collected.
- Starting up the Joint Occupational Health and Safety Committee (JOHSC) including holding the first meeting and holding the first committee safety inspection.
- Defining the 2014 safety rewards and recognition program and starting its implementation.
- Personnel received site and project orientation and technical training.
- Commenced with 100% arsenic urinalysis monitoring for workers.
- Hygiene baseline samples were taken from AC Roaster, Dorrco and Calcine Building.
- Containment Inspection for the AC Roaster conducted.
- Testing completed for the negative air units on site.
- AC Roaster Building:
 - Marked pipes for removal.
 - Serviced negative air machines on roof and conducted flow testing.
 - Inspected critical barriers.
 - Tested the integrity and operation of negative air machine HEPA filters.
- Cottrell Precipitator Building:
 - Prepared for decontamination.
- Dorrco Roaster:
 - Continued installation of scaffolding and shrink-wrap containment system.
 - Completed exterior seals on south and east sides.
 - Installed power distribution system.

- Installed negative air machines.
- Tested the integrity and operation of negative air machine HEPA filters.
- Completion of a structural assessment which identified a number of columns which had a deteriorated condition and were recommended for immediate repair.

UNDERGROUND STABILIZATION – PROGRESS UPDATE

Geotechnical Investigations

- The drillers have moved to Stope B3-06, C5-09, A3-70, and B3-10mid. Drilling is ongoing.
- Additional surveying to be completed in May to ensure proper location of down hole locations.
- The 2nd phase of geotechnical drilling began in early January and is ongoing. WSCC requires no drilling into or within 10m of an arsenic stope until updated Standard Operating Procedures are submitted. This has caused a delay with approximately 50% of the drilling program pushing the work into FY 14/15.
- Phase 1 and 2 drilling contracts continued in the month of April 2014.

ENGAGEMENT ACTIVITIES

Table 2: Summary of Engagement Activities Completed During the Reporting Period

Engagement Activity / Target	Number	Type
Public Events	1	Public Forum, Working Group
Information Distribution	2	Meetings, E-newsletter, e-mails, website
Site Tours	0	
Media Interactions (based on the # of media involved)	0	Interviews, site tour, emailed responses

MONITORING and INSPECTIONS

Health and Safety Inspections

There were no first aid, recordable, or lost time injuries during March or April 2014. Safety statistics for April are shown below.

- 0 loss time incidents
- 4 Near Miss Reports were filed
 - 1) Plastic bag fell on heater in a trailer and melted (April 10, 2014)
 - 2) Unsecured scaffolding planks on east end of Dorrco Roaster (April 11, 2014)
 - 3) Propane smell from tank storage area (April 17, 2014)
 - 4) Worker struck head on low hanging scaffolding (April 26, 2014)
- 0 incidents of property damage

Spill Events

No spills of a reportable volume occurred during the reporting period. Two non-reportable spills occurred in the month including:

- A valve broke on the water treatment system due to cold weather over winter shutdown. The valve leaked less than 1 litre of untreated water onto the floor of the sea container. The spill was cleaned up with spill pads. An internal incident report was filed. (April 21, 2014).
- There was a small release of black water, approximately 30 litres, from the washroom facility. Due to cold temperatures the pipe connecting the washroom trailer to the black water storage tank cracked releasing sewage that was in the pipe. The spill waste was cleaned up and the recovered waste was bagged for disposal. An internal incident report was filed (April 15, 2014).

Water Quality Monitoring

Samples were collected from the waste water treatment system that is used for rinsing down contamination and dust control inside the buildings for decontamination activities on 2014-04-30. All results were Non Detect for Oil and grease.

Sanitary Waste Management

There were no discharges in the month of April. The following table presents a summary of all the project discharges during the 2014 construction season.

Table 3: Sanitary Wastewater Discharged to Date to the Dettah Sewage Lagoon for 2014

Date	Volume (Litres)
N/A	N/A
Total for Project	

Air Quality Monitoring

Air Quality Monitoring was not conducted for the roaster work area perimeter for the month of April due to no construction activities occurring during this reporting period.

Wildlife Observations and Follow-Up Actions

On one occasion, a Fox was observed NW of the Roaster site. Fox tracks were noted in the vicinity of the Roaster Complex during the site inspections, but no burrowing or attempted access into the facilities was noted.

On April 30, a single Kestrel was noted circling above the AC Roaster Building. Ravens are typically observed flying in the area of the Roaster buildings and across the Giant Mine site. The ravens were not observed using the Roaster buildings.