



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT# 684791

March 31, 2015

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

Dear Mr. Hagen;

RE: February 2015 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

Encl. Monthly Report February 2015

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

February 2015

TABLE OF CONTENTS

INTRODUCTION.....	1
REGULATORY MILESTONES.....	2
ROASTER COMPLEX DECONSTRUCTION – PROGRESS UPDATE	2
UNDERGROUND STABILIZATION – PROGRESS UPDATE.....	2
ENGAGEMENT ACTIVITIES	2
MONITORING and INSPECTIONS.....	3
Health and Safety Inspections	3
Spill Events	3
Water Quality Monitoring.....	3
Sanitary Waste Management	3
Air Quality Monitoring	3
Wildlife Observations and Follow-Up Actions	4

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 (MVLWB) 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 February 2015.

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

February 2015	<ul style="list-style-type: none">• Submission of the updated Roaster Waste Management Plan.
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ROASTER COMPLEX DECONSTRUCTION – PROGRESS UPDATE

Please find below the monthly Roaster progress for February 2015.

- The bulk of the deconstruction and containerization activities had been completed by the end of November 2014.
- During the month of February the on-site activities were limited to the completion of site inspections of the Materials Storage Area (MSA).
- The inspections were completed on February 12, February 20, and February 27, 2015. No issues or deficiencies were identified during these three site inspections.

UNDERGROUND STABILIZATION – PROGRESS UPDATE

Please find below the monthly Underground progress for February 2015.

- The Project Team continued underground inspections to gather information to complete the ground stabilization plan.
- Updating site-specific health and safety plan to include drilling into and placing backfill into arsenic stopes.

ENGAGEMENT ACTIVITIES

- Table 2 provides a summary of engagement activities related to the Site Stabilization Plan (SSP) during the reporting period. Other topics have not been reported below.

Table 2: Engagement Activities Related to Site Stabilization Plan during the Reporting Period

Engagement Activity/Target	Number	Type
Public Events	6	Giant Mine Working Group, YKDFN Giant Mine Advisory Committee, Public Meetings, Community Alliance
Information Distribution	8	Meetings, E-newsletter, e-mails, website
Site Tours	1	City of Yellowknife
Media Interactions (based on # of media involved)	8	Interviews, site tour, emailed responses, twitter posts

MONITORING and INSPECTIONS

Health and Safety Inspections

- 0 lost time incidents
- 0 minor first aid incidents
- 0 property damages.
- 0 reported near misses
- Weekly safety inspections were not completed during the month of February due to the minimal site activities.

Spill Events

No reportable spills occurred during the month of February 2015.

Water Quality Monitoring

No samples were collected from the waste water treatment system as there is no activity occurring on site which required the collection and disposal of water.

Sanitary Waste Management

In the month of February there were no onsite activities that required the collection and disposal of sanitary waste.

Air Quality Monitoring

A tiered ambient air quality monitoring program made up of three distinct parts has been implemented at the Giant Mine site. The three parts to the air quality program include task specific perimeter monitoring around the roaster, fence line monitoring and community monitoring.

Perimeter air monitoring includes daily, real-time monitoring for Particulate Matter (PM₁₀) as well as 24-hour samples collected every three days and analyzed for PM₁₀, total suspended particulates (TSP), and arsenic.

Please find below the summary for air monitoring for the month of February:

Community Program:

- There were no continuous PM_{2.5} and PM₁₀ concentrations greater than the target criteria for the community stations for the month of January.
- Sampling for TSP (high volumetric air flow), PM₁₀ (high volumetric air flow), asbestos, total inorganics (trace metals), and arsenic for a twenty-four hour period is conducted every six (6) days for the community sampling program during the winter season. Sampling of these parameters has been ongoing since June 24th, 2013. Laboratory results for the month of February are pending.

Fenceline Program:

- Fenceline air quality monitoring was shut down for the season on Friday, January 23, 2015. Fenceline monitoring will resume with start up of remediation activities in spring 2015.

Interim Underground Stabilization (IUS) Program:

- Air quality monitoring was shut down January 20, 2015 and will resume with project start up in the spring 2015.

Roaster Program:

- The Roaster Program ended on November 21, 2014. As such, no air quality monitoring occurred for this program.

Wildlife Observations and Follow-Up Actions

No wildlife observations occurred in active work areas and no nesting or rearing habitat was disturbed in the course of work activities.