

MVLWB Registry

From: Fallon Morton <Fallon.Morton@aandc-aadnc.gc.ca>
Sent: Friday, January 23, 2015 3:54 PM
To: NWTLands
Subject: Giant Mine AQM weekly summary report for the week ending January 17, 2015
Attachments: AQM Weekly Summary Jan 11-17, 2015.pdf

Greetings,

Attached is the AQM weekly summary report for Giant Mine for week ending January 17, 2015.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports the project has decided to provide weekly summaries and a detailed monthly report. This is done to make the reporting more useful to users, while still maintaining the level of details previously provided.

A summary of the report is provided below:

Fenceline network:

- Air quality monitoring along the fenceline resumed on January 5, 2015, coinciding with the continuation of the Interim Underground Stabilization (IUS) program (tailings work).
- One (1) 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentration above the established Risk Based Action Level (RBAL) criteria was measured at the fenceline locations during the week. The measured PM₁₀ concentration (192 µg/m³) above the RBAL was measured 1:45 PM local time on January 13, 2015 at Site F (Marina). A site visit in response to the high PM₁₀ concentration showed no visible airborne dust in the vicinity of Site F. An elevated PM₁₀ hourly concentration was also measured by the BAM unit located at the Marina (YCC). The PM₁₀ concentration above the RBAL was likely caused by interfering frost build-up on the inlet. PM₁₀ levels measured at other fenceline stations were well below the RBAL and typical of background concentrations ranging from 1-3 µg/m³. The majority of PM₁₀ concentrations measured at the fenceline locations remained typical of background concentrations during the week.
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week. An elevated TSP concentration (200 µg/m³) was measured at 1:45 PM local time on January 13, 2015 at Site F (Marina).

Community Stations

- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM_{2.5}) and no continuous 24-hour average PM₁₀ concentrations above the referenced criteria measured at the community stations during the week.
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples measured on December 19, 2014 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory results from samples collected at the community stations after December 19, 2014 are pending.
- Laboratory analytical results received for asbestos samples measured on December 13, 16, and 19, 2014 at the community stations were less than the analytical detection limit and/or below the referenced

criteria. Laboratory results from asbestos samples collected at the community stations after December 19, 2014 are pending.

Interim Underground Stabilization (IUS) (tailings work)

- Air quality monitoring near the IUS work resumed on January 5, 2015 in support of remaining IUS activities (tailings work).
- There were no 15-minute average PM₁₀ concentrations above the established IUS tailings pond remediation RBAL (180 µg/m³) measured in the vicinity of the tailings ponds during the week.

General Operations

- The AQM program operated as specified during the week ending January 17, 2015 with the exception of:
 1. Data from the PM_{2.5} and PM₁₀ BAM monitors at the NAPS station was incomplete due to unknown causes.

Regards,

Fallon Morton
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January 23, 2015

Mr. Willard Hagen, Chair
Mackenzie Valley Land and Water Board
7TH FLOOR – 4922, 48TH ST., PO BOX 2130
YELLOWKNIFE, NT X1A 2P6

Dear: Mr. Hagen,

RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of January 11

This report is meant to satisfy commitments made in the May 21, 2013, responses to review comments on the roaster plans. Our commitment was to provide weekly summaries of the following data:

- PM₁₀ measurements captured by the contractor and the fence-line program;
- All other available and quality assured data, including TSP, trace elements (metals) and asbestos data.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports the project has decided to provide weekly summaries and a detailed monthly report. This is done to make the reporting more useful to users, while still maintaining the level of details previously provided.

In summary for the week of January 11 – January 17, 2015:

Fenceline network:

- Air quality monitoring along the fenceline resumed on January 5, 2015, coinciding with the continuation of the Interim Underground Stabilization (IUS) program (tailings work).
- One (1) 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentration above the established Risk Based Action Level (RBAL) criteria was measured at the fenceline locations during the week. The measured PM₁₀ concentration (192 µg/m³) above the RBAL was measured 1:45 PM local

time on January 13, 2015 at Site F (Marina). A site visit in response to the high PM₁₀ concentration showed no visible airborne dust in the vicinity of Site F. An elevated PM₁₀ hourly concentration was also measured by the BAM unit located at the Marina (YCC). The PM₁₀ concentration above the RBAL was likely caused by interfering frost build-up on the inlet. PM₁₀ levels measured at other fence line stations were well below the RBAL and typical of background concentrations ranging from 1-3 µg/m³. The majority of PM₁₀ concentrations measured at the fence line locations remained typical of background concentrations during the week.

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Community Stations

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General Operations

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1. Data from the PM_{2.5} and PM₁₀ BAM monitors at the NAPS station was incomplete due to unknown causes.

Additional air quality information for the Giant Mine can be found on the NWT Air Quality Monitoring Network web page: <http://aqm.enr.gov.nt.ca>.

Should you have any questions or comments, please contact Adrian Paradis by Telephone: (867) 669-2425 or by E-mail: Adrian.Paradis@aandc-aadnc.gc.ca.

Sincerely,



Benny Nordahn for,
Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List