

Permits

From: Adrian Paradis <Adrian.Paradis@aandc-aadnc.gc.ca>
Sent: Monday, December 7, 2015 10:25 AM
Subject: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of November 28, 2015
Attachments: YELLOWKN-#785528-v1-Giant_Monitoring_Weekly_Air_Quality_28_November_2015.PDF; Adrian Paradis.vcf

A summary of the Giant Mine ambient air quality monitoring program for the week ending November 28, 2015 is as follows:

Fenceline Network:

- Fenceline daily sampling schedule was changed to 7 AM – 7 PM beginning on November 2, 2015.
- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria (159 µg/m³) were measured at the fenceline monitoring stations during the week. PM₁₀ concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL (333 µg/m³) were measured at the fenceline monitoring stations during the week. TSP concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;

Community Stations:

- No twenty-four (24) hour average concentrations of PM_{2.5} and PM₁₀ were measured above the referenced criteria at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typical of seasonal background concentrations;
- Laboratory results from available TSP, PM₁₀, and trace metals (including arsenic) samples collected on November 8, 11, and 14, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory analysis of community station filters collected after November 14, 2015 are pending;
 - Laboratory results from available asbestos samples collected on November 11, 14, and 17, 2015 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 November 17, 2015 are pending;

General Operations:

- The AQM program operated as specified during the week ending November 28, 2015.

Sincerely,

Adrian Paradis

Regulatory Manager, NWT Region, Giant Mine Remediation Project
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December 7, 2015

Mr. Willard Hagen, Chair
Mackenzie Valley Land and Water Board
7TH FLOOR – 4910, 50TH AVE., PO BOX 2130
YELLOWKNIFE, NT X1A 2P6

RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of November 28, 2015

Dear: Mr. Hagen,

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.

A summary of the Giant Mine ambient air quality monitoring program for the week ending November 28, 2015 is as follows:

Fenceline Network:

- Fenceline daily sampling schedule was changed to 7 AM – 7 PM beginning on November 2, 2015.
- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria (159 µg/m³) were measured at the fenceline monitoring stations during the week. PM₁₀ concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;

- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL ($333 \mu\text{g}/\text{m}^3$) were measured at the fence line monitoring stations during the week. TSP concentrations measured at fence line locations during the week were typical of seasonal background concentrations;

Community Stations:

- No twenty-four (24) hour average concentrations of $\text{PM}_{2.5}$ and PM_{10} were measured above the referenced criteria at the community stations during the week. $\text{PM}_{2.5}$ and PM_{10} concentrations during the week were typical of seasonal background concentrations;
- Laboratory results from available TSP, PM_{10} , and trace metals (including arsenic) samples collected on November 8, 11, and 14, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory analysis of community station filters collected after November 14, 2015 are pending;
- Laboratory results from available asbestos samples collected on November 11, 14, and 17, 2015 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 November 17, 2015 are pending;

General Operations:

- The AQM program operated as specified during the week ending November 28, 2015.

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>.

For information on RBALs, TSP, PM_{10} and for answers to other commonly asked questions about Air Quality Monitoring, please see the Giant Mine Remediation Project Team's [online FAQs](#). 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,



Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List