

Permits

From: Adrian Paradis <Adrian.Paradis@aandc-aadnc.gc.ca>
Sent: Friday, November 13, 2015 3:45 PM
Subject: Giant Weekly Air Quality Monitoring Report week of 7 November 2015
Attachments: YELLOWKN-#778103-v1-Giant_Monitoring_Air_Quality_Report_for_7_Nov_2015_.PDF; Adrian.Paradis.vcf

A summary of the Giant Mine ambient air quality monitoring program for the week ending November 7, 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 October 21, 24, and 27, 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 October 27, 2015 are pending;
 - Laboratory results from available asbestos samples collected on October 21, 24, and 27, 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 October 27, 2015 are pending;

Interim Underground Stabilization (IUS) (tailings work):

- Air quality monitoring specific to the IUS program was conducted at:
 - Four (4) locations within the vicinity of paste fill operations in the B1 and A1 Pits;
 - Four (4) locations set on the west, north, and south perimeters of the Central and South Tailings Ponds;
 - Four (4) locations at the mine vents and intake openings.

- All IUS program monitors were taken offline on October 31, 2015. Operations have concluded for the season at the paste fill locations, tailings ponds, and mine vent and intake openings.
- Laboratory results from available arsenic filter samples collected October 21, 24, 27, and 30, 2015 at the IUS locations were less than the analytical detection limit and/or below the referenced criteria. Analysis of available arsenic filter samples has concluded for the season as of October 31, 2015.

General Operations:

- The AQM program operated as specified during the week ending November 7, 2015.

Regards,

Adrian Paradis

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November 13, 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 7, 2015

Dear: Mr. Hagen,

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General Operations:

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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, PM₁₀ 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