

MVLWB Registry

From: Tara Kramers <Tara.Kramers@aandc-aadnc.gc.ca>
Sent: Friday, November 21, 2014 3:40 PM
Subject: Giant Mine Air Quality weekly Summary
Attachments: Air Quality Summary for the week ending Nov 15, 2014.pdf

Please find the summary of the Giant Mine ambient air quality monitoring program for the week ending November 15, 2014 below:

Fenceline network:

- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria were measured at the fenceline locations during the week. PM₁₀ concentrations measured at the fenceline locations remained typical of background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week;

Interim Underground Stabilization (IUS) (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;
- Analytical 24-hour arsenic results measured at the North and Central tailings ponds on October 29 and November 1, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after November 1, 2014 is pending;

Roaster Deconstruction

- No real time 15-minute average PM₁₀ concentrations above the established RBAL were measured during the week at each perimeter monitoring location (upwind and downwind) for the Roaster deconstruction specific air quality monitoring program. Deconstruction work at the Roaster was completed on November 14, 2014. The air quality monitoring program was completed on November 14, 2014;
- Laboratory results from samples collected on November 3 – 4, and November 7 – 8, 2014 for the roaster deconstruction specific air quality monitoring program, indicated 24-hour average arsenic, PM₁₀, and TSP concentrations were below the referenced applicable criteria.

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 October 26 and October 29, 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 October 29, 2014 are pending;

- Laboratory results from asbestos samples collected on October 26 and October 29, 2014 at the community stations (with exception to NAPS on October 29) were less than the analytical detection limit and/or below the referenced criteria. The asbestos sample collected at the NAPS station on October 29, 2014 was not analyzed due to compromised filter media. Laboratory results from asbestos samples collected at the community stations after October 29, 2014 are pending;

General Operations

- The AQM program operated as specified during the week ending November 15, 2014 with the exception of:
 - the PM₁₀ BAM monitor at the NAPS station was not operating during the week due to water damage to the monitor and is waiting repair;
 - the Dust Trak monitor at Site A (North Pond) was down 7:00 AM to 9:45 AM on Thursday, November 13, 2014 due to flow errors, site maintenance, and sampler replacement;
 - the PM_{2.5} and PM₁₀ BAM monitors at NDL station were down for 10 hours on Wednesday, November 12, 2014 due to a power outage. Six hours of PM_{2.5} and PM₁₀ data were invalidate from NDL on November 13, 2014 due to shelter temperature variations as a result of a heater failure.

Regards,

Tara Kramers
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November 21, 2014

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 November 2

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 November 9 – November 15, 2014:

Fenceline for Giant Mine Remediation Project

- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria were measured at the fenceline locations during the week. PM₁₀ concentrations measured at the fenceline locations remained typical of background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week;

Underground and 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;
- Analytical 24-hour arsenic results measured at the North and Central tailings ponds on October 29 and November 1, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after November 1, 2014 is pending;

Roaster Deconstruction

- No real time 15-minute average PM₁₀ concentrations above the established RBAL were measured during the week at each perimeter monitoring location (upwind and downwind) for the Roaster deconstruction specific air quality monitoring program. Deconstruction work at the Roaster was completed on November 14, 2014. The air quality monitoring program was completed on November 14, 2014;
- Laboratory results from samples collected on November 3 – 4, and November 7 – 8, 2014 for the roaster deconstruction specific air quality monitoring program, indicated 24-hour average arsenic, PM₁₀, and TSP concentrations were below the referenced applicable criteria.

Community Monitoring 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 October 26 and October 29, 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 October 29, 2014 are pending;
- Laboratory results from asbestos samples collected on October 26 and October 29, 2014 at the community stations (with exception to NAPS on October 29) were less than the analytical detection limit and/or below the referenced criteria. The asbestos sample collected at the NAPS station on October 29, 2014 was not analyzed due to compromised filter media. Laboratory results from asbestos samples collected at the community stations after October 29, 2014 are pending;

The AQM program operated as specified during the week ending November 15, 2014 with the exception of:

- the PM₁₀ Beta Attenuation Monitor (BAM) at the NAPS station was not operating during the week due to water damage to the monitor and is waiting repair;
- the Dust Trak monitor at Site A (North Pond) was down 7:00 AM to 9:45 AM on Thursday, November 13, 2014 due to flow errors, site maintenance, and sampler replacement;
- the PM_{2.5} and PM₁₀ BAM monitors at NDL station were down for 10 hours on Wednesday, November 12, 2014 due to a power outage. Six hours of PM_{2.5} and PM₁₀ data were invalidate from NDL on November 13, 2014 due to shelter temperature variations as a result of a heater failure.

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,



Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List