

MVLWB Registry

From: Fallon Morton <Fallon.Morton@aandc-aadnc.gc.ca>
Sent: Friday, October 17, 2014 3:08 PM
To: NWTLands
Subject: Giant Mine AQM Weekly Summary for the Week Ending October 11, 2014
Attachments: AQM Weekly Summary Oct 5-11, 2014.pdf

Greetings,

Attached is the AQM weekly summary report for Giant Mine for week ending October 11, 2014.

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:

- 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. Fenceline monitoring results remained very low and well below the fenceline RBAL during the reporting period;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week;
- No 15-minute average PM10 concentrations above the established RBAL criterion (390 µg/m³) were measured at the underground vent locations during the week
- There were no 15-minute average PM10 concentrations above the established fenceline RBAL were measured in the vicinity of the Central and North Tailings Ponds monitor locations during the week;
- Analytical 24-hour arsenic results measured from underground vents September 22, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after September 22, 2014 is pending;
- Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Conveyor Gallery cleanup area on October 6, October 7, October 8, October 9, October 10, and October 11, 2014 were below the referenced criteria for protection of public health and worker safety. Analysis of asbestos samples collected after October 11, 2014 are pending;
- 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;
- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM2.5) and no continuous 24-hour average PM10 concentrations above the referenced criteria measured at the community stations during the week. The PM10 BAM monitor at the NAPS station was down for the week due to unknown reasons;

- Laboratory results from TSP, PM10, and trace metals (including arsenic) samples measured on September 11, September 20, September 23, and September 26, 2014 were less than the analytical detection limit and/or below the reference criteria at the community stations. Laboratory results from samples collected after September 23, 2014 are pending;
- Laboratory results from asbestos samples collected on September 26, 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 September 26, 2014 are pending;
- Laboratory results from samples collected on October 2 – 3, and October 5 – 6, 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;
- The AQM program operated as specified during the week ending October 11, 2014 with the exception of the NAPS PM10 BAM monitor. Twenty-four hour PM10 concentrations will be confirmed following receipt of the integrated PM10 sampling results.

Regards,

Fallon Morton
Giant Mine Remediation Project
Aboriginal Affairs and Northern Development Canada
PO Box 1500
Yellowknife, NT X1A 2R3
Phone (867) 669-2426
Fax (867) 669-2439



PO Box 1500
YELLOWKNIFE NT X1A 2R3

NT 648310

October 17, 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 October 5th

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 October 5th – October 11th, 2014, 2014:

- 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. Fenceline monitoring results remained very low and well below the fenceline RBAL during the reporting period;

- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fence line locations during the week;
- No 15-minute average PM10 concentrations above the established RBAL criterion (390 µg/m³) were measured at the underground vent locations during the week
- There were no 15-minute average PM10 concentrations above the established fence line RBAL were measured in the vicinity of the Central and North Tailings Ponds monitor locations during the week;
- Analytical 24-hour arsenic results measured from underground vents September 22, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after September 22, 2014 is pending;
- Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Conveyor Gallery cleanup area on October 6, October 7, October 8, October 9, October 10, and October 11, 2014 were below the referenced criteria for protection of public health and worker safety. Analysis of asbestos samples collected after October 11, 2014 are pending;
- 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;
- 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. The PM10 BAM monitor at the NAPS station was down for the week due to unknown reasons;
- Laboratory results from TSP, PM10, and trace metals (including arsenic) samples measured on September 11, September 20, September 23, and September 26, 2014 were less than the analytical detection limit and/or below the reference criteria at the community stations. Laboratory results from samples collected after September 23, 2014 are pending;
- Laboratory results from asbestos samples collected on September 26, 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 September 26, 2014 are pending;
- Laboratory results from samples collected on October 2 – 3, and October 5 – 6, 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;

- The AQM program operated as specified during the week ending October 11, 2014 with the exception of the NAPS PM10 BAM monitor. Twenty-four hour PM10 concentrations will be confirmed following receipt of the integrated PM10 sampling results.

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,

A handwritten signature in black ink, appearing to read 'A. Paradis', written in a cursive style.

Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List