

## MVLWB Registry

---

**From:** Fallon Morton <Fallon.Morton@aandc-aadnc.gc.ca>  
**Sent:** Tuesday, April 7, 2015 2:49 PM  
**To:** NWTLands  
**Subject:** Giant Mine AQM weekly summary report for the week ending March 28, 2015  
**Attachments:** Weekly AQM Summary Mar 22-28, 2015.pdf

Greetings,

Attached is the AQM weekly summary report for Giant Mine for week ending March 28, 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:

- Fenceline air quality monitoring started limited operations at Site D (Beach) on Friday March 20, 2015, providing surveillance of any wind blown dust from the South Tailings Pond. Site D was operating 24 hours per day with maintenance and QC checks performed at 7 AM each day.
- No 15-minute average particulate matter less than 10 microns in diameter (PM<sub>10</sub>) concentrations above the established Risk Based Action Level (RBAL) criteria were measured at the Site D (Beach) fenceline location during the week. PM<sub>10</sub> concentrations measured at the Site D (Beach) fenceline locations remained typical of background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the Site D (Beach) fenceline locations during the week.

### Community Stations

- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) and no continuous 24-hour average PM<sub>10</sub> concentrations above the referenced criteria measured at the community stations during the week.
- Laboratory results from all valid TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples measured on February 5, 14, 17, and 23, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Note, the February 5<sup>th</sup> sample collected at YCC was invalidated due to snow damage to sampler motor and delayed motor replacement and sampler re-calibration. Laboratory results from samples collected at the community stations after February 23, 2015 are pending.
- Laboratory analytical results received for asbestos samples measured on February 5, 8, 14, 17, and 23, 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 February 23, 2015 are pending.

- The 3-day sampling schedule for 24-hour integrated TSP, PM<sub>10</sub>, trace metals, and asbestos monitoring at the community stations has resumed as of March 19, 2015.

#### Interim Underground Stabilization (IUS) (tailings work)

- Air quality monitoring near the IUS work was completed and shut down on January 20, 2015 for the winter coinciding with shut down of tailings harvesting work activities. General Contractor has started preliminary site preparation.

#### General Operations

- The AQM program operated as specified during the week ending March 28, 2015 with the exception of:
- Data from the PM<sub>2.5</sub> and PM<sub>10</sub> BAM monitors at the NAPS station were unavailable on March 21, 2015 due to unknown causes. Normal hourly data collection resumed as of 4 PM, March 22, 2015.

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**

April 7, 2015

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

**RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of March 22**

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:

- PM<sub>10</sub> 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 March 22 – March 28, 2015:

**Fenceline Network:**

- Fenceline air quality monitoring started limited operations at Site D (Beach) on Friday March 20, 2015, providing surveillance of any wind blown dust from the South Tailings Pond. Site D was operating 24 hours per day with maintenance and QC checks performed at 7 AM each day.
- No 15-minute average particulate matter less than 10 microns in diameter (PM<sub>10</sub>) concentrations above the established Risk Based Action Level (RBAL) criteria

were measured at the Site D (Beach) fenceline location during the week. PM<sub>10</sub> concentrations measured at the Site D (Beach) fenceline locations remained typical of background concentrations;

- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the Site D (Beach) fenceline locations during the week.

#### Community Stations

- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) and no continuous 24-hour average PM<sub>10</sub> concentrations above the referenced criteria measured at the community stations during the week.
- Laboratory results from all valid TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples measured on February 5, 14, 17, and 23, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Note, the February 5<sup>th</sup> sample collected at YCC was invalidated due to snow damage to sampler motor and delayed motor replacement and sampler re-calibration. Laboratory results from samples collected at the community stations after February 23, 2015 are pending.
- Laboratory analytical results received for asbestos samples measured on February 5, 8, 14, 17, and 23, 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 February 23, 2015 are pending.
- The 3-day sampling schedule for 24-hour integrated TSP, PM<sub>10</sub>, trace metals, and asbestos monitoring at the community stations has resumed as of March 19, 2015.

#### Interim Underground Stabilization (IUS) (tailings work)

- Air quality monitoring near the IUS work was completed and shut down on January 20, 2015 for the winter coinciding with shut down of tailings harvesting work activities. General Contractor has started preliminary site preparation.

#### General Operations

- The AQM program operated as specified during the week ending March 28, 2015 with the exception of:
- Data from the PM<sub>2.5</sub> and PM<sub>10</sub> BAM monitors at the NAPS station were unavailable on March 21, 2015 due to unknown causes. Normal hourly data collection resumed as of 4 PM, March 22, 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>.

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](mailto:Adrian.Paradis@aandc-aadnc.gc.ca).

Sincerely,

A handwritten signature in blue ink, appearing to read 'A. Paradis', with a long horizontal flourish extending to the right.

Adrian Paradis  
Regulatory Manager  
Giant Mine Remediation Project

c.c.: Distribution List