

Permits

From: Geneva Irwin <Geneva.Irwin@aandc-aadnc.gc.ca>
Sent: Friday, May 27, 2016 1:35 PM
Attachments: AQM May 21.pdf

Good Afternoon,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending May 21, 2016 is as follows:

Fenceline Network:

- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) (159 µg/m³) were measured at the fenceline monitoring stations during the week. PM₁₀ and TSP concentrations measured at the 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 standard at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typical of seasonal background concentrations;
- Laboratory analysis of community station filters collected after May 3, 2016 are pending;
 - Laboratory results from asbestos samples collected on April 27, April 30, and May 3, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory results from asbestos samples collected at the community stations after May 3, 2016 are pending;

South Pond Air Monitoring:

- A Met One E-Sampler was operating at the south end of the South Tailings Pond to monitor for potential dust from the North, Central, and South Tailings Ponds during anticipated high seasonal winds historically occurring during the spring months;
- No 15-minute average PM₁₀ concentrations above the RBAL criteria (159 µg/m³) were measured at the South Pond Monitoring location during the week. PM₁₀ concentrations measured at this location during the week were typical of seasonal background concentrations;
- Laboratory results of arsenic concentrations from samples collected on May 3, May 6, and May 9, 2016 at the South Pond location were less than the analytical detection limit and/or below the referenced standards. Laboratory results from available arsenic filter samples collected after May 9, 2016 are pending;

General Operations:

- The AQM program operated as specified during the week ending May 21, 2016, with the following exception:
 - On May 16, 2016 seven hours of beta attenuation monitor PM_{2.5} data at the NDL community station were invalidated for being less than -3 µg/m³ due to large variable internal shelter temperatures.

Sincerely,

Natalie Plato



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT 842992

May 207, 2016

Distribution List

RE: Air Quality Reports for the Week of May 21, 2016.

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending May 21, 2016 is as follows:

Fenceline Network:

- No 15-minute average particulate matter less than 10 microns in diameter (PM_{10}) concentrations above the established Risk Based Action Level (RBAL) ($159 \mu\text{g}/\text{m}^3$) were measured at the fenceline monitoring stations during the week. PM_{10} and TSP concentrations measured at the 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 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 PM_{10} were measured above the referenced standard at the community stations during the week. $PM_{2.5}$ and PM_{10} concentrations during the week were typical of seasonal background concentrations;
- Laboratory analysis of community station filters collected after May 3, 2016 are pending;
- Laboratory results from asbestos samples collected on April 27, April 30, and May 3, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory results from asbestos samples collected at the community stations after May 3, 2016 are pending;

South Pond Air Monitoring:

- A Met One E-Sampler was operating at the south end of the South Tailings Pond to monitor for potential dust from the North, Central, and South Tailings Ponds during anticipated high seasonal winds historically occurring during the spring months;
- No 15-minute average PM_{10} concentrations above the RBAL criteria ($159 \mu\text{g}/\text{m}^3$) were measured at the South Pond Monitoring location during the week. PM_{10} concentrations measured at this location during the week were typical of seasonal background concentrations;
- Laboratory results of arsenic concentrations from samples collected on May 3, May 6, and May 9, 2016 at the South Pond location were less than the analytical detection limit and/or below the referenced standards. Laboratory results from available arsenic filter samples collected after May 9, 2016 are pending;

General Operations:

- The AQM program operated as specified during the week ending May 21, 2016, with the following exception:
 1. On May 16, 2016 seven hours of beta attenuation monitor $PM_{2.5}$ data at the NDL community station were invalidated for being less than $-3 \mu\text{g}/\text{m}^3$ due to large variable internal shelter temperatures.

Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List