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Subject: Air Quality Monitoring Weekly Summary - Week Ending in December 16
Date: December 22, 2017 12:01:49 PM
Attachments: [December 16.pdf](#)

Good Morning,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending December 16, 2017 is as follows:

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Fenceline Network:

- The real time fenceline air quality network was shut down for the winter season on November 30, 2017.
- Laboratory results for TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on November 9, 18, and 21, 2017 at the fenceline samplers were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the fenceline sampling locations after November 21, 2017 are pending.

-
Community Stations:

- No 24-hour average concentrations of PM_{2.5} and PM₁₀ were measured above the

referenced standards at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations;

- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on November 18 and 21, 2017 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected after November 21, 2017 are pending;
- Laboratory results for asbestos analyses from samples collected on November 18, 21, 24, and 27, 2017 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations after November 27, 2017 are pending;
- There were no NO₂ concentrations measured at the Niven Lake community air monitoring station above the NWT Ambient Air Quality 24-Hour Standard of 106 parts per billion (ppb) or the 1-Hour Standard of 213 ppb during the week. Table 1 summarizes the daily hourly maximum concentrations and the daily 24-Hour average concentrations measured at the Niven Lake community station during the week.

Table 1

Niven Lake Community AQM Station NO₂ Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
December 10, 2017	3.6	1.5
December 11, 2017	3.9	2.0
December 12, 2017	2.7	0.7
December 13, 2017	6.2	1.9
December 14, 2017	3.2	1.3
December 15, 2017	1.5	0.6
December 16, 2017	20.2	4.1

General Operation:

- The AQM program operated as specified during the week ending December 16, 2017.

Sincerely,

Natalie Plato



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT 933038

December 22, 2017

Distribution List

RE: Air Quality Reports for the Week of December 16, 2017.

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending December 16, 2017 is as follows:

Fenceline Network:

- The real time fenceline air quality network was shut down for the winter season on November 30, 2017.
- Laboratory results for TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on November 9, 18, and 21, 2017 at the fenceline samplers were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the fenceline sampling locations after November 21, 2017 are pending.

Community Stations:

- No 24-hour average concentrations of PM_{2.5} and PM₁₀ were measured above the referenced standards at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on November 18 and 21, 2017 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected after November 21, 2017 are pending;
- Laboratory results for asbestos analyses from samples collected on November 18, 21, 24, and 27, 2017 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations after November 27, 2017 are pending;
- There were no NO₂ concentrations measured at the Niven Lake community air monitoring station above the NWT Ambient Air Quality 24-Hour Standard of 106 parts per billion (ppb) or the 1-Hour Standard of 213 ppb during the week. Table 1 summarizes the daily hourly maximum concentrations and the daily 24-Hour average concentrations measured at the Niven Lake community station during the week.

Table 1
Niven Lake Community AQM Station NO2 Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
December 10, 2017	3.6	1.5
December 11, 2017	3.9	2.0
December 12, 2017	2.7	0.7
December 13, 2017	6.2	1.9
December 14, 2017	3.2	1.3
December 15, 2017	1.5	0.6
December 16, 2017	20.2	4.1

General Operation:

- The AQM program operated as specified during the week ending December 16, 2017.

Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List