



PO BOX 1500
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NT 933496

January 8, 2018

MV2012L8-0010

Distribution List

RE: Air Quality Reports for the Week of December 23, 2017.

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending December 23, 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 24, 27, and 30, 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 30, 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 24 and 27, 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 27, 2017 are pending;
- 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 17, 2017	2.8	1.3
December 18, 2017	2.1	0.6
December 19, 2017	24.0	8.4
December 20, 2017	8.0	3.6
December 21, 2017	7.6	1.7
December 22, 2017	10.8	3.0
December 23, 2017	11.7	2.9

General Operation:

The AQM program operated as specified during the week ending December 23, 2017.

Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List