

**From:** Geneva Irwin  
**Subject:** Air Quality Monitoring Weekly Summary - Week ending in May 20, 2017  
**Date:** Friday, May 26, 2017 10:57:25 AM  
**Attachments:** [May 20.pdf](#)

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Good Morning,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending May 20, 2017 is as follows:

Fenceline Network:

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) of 159 µg/m<sup>3</sup> were measured at the fenceline monitoring stations during the week. PM<sub>10</sub> concentrations measured at most of 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/m<sup>3</sup>) were measured at the fenceline monitoring stations during the week. TSP concentrations measured at most of the fenceline locations during the week were typical of seasonal background concentrations;

Community Stations:

No 24-hour average concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> were measured above the referenced standards at the community stations during the week. PM<sub>2.5</sub> and PM<sub>10</sub> concentrations during the week were typically representative of seasonal background concentrations;

Laboratory analyses of community station filters collected after April 25, 2017 are pending.

- Laboratory results from asbestos samples collected on May 1, 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 May 1, 2017 are pending.
- There were no NO<sub>2</sub> concentrations measured at the recently established 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 NO<sub>2</sub> Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
May 14, 2017	0.4	0.2
May 15, 2017	7.8	1.0
May 16, 2017	2.1	0.6
May 17, 2017	2.9	1.2
May 18, 2017	3.8	1.6
May 19, 2017	3.2	1.5
May 20, 2017	2.4	0.6

General Operation:

The AQM program operated as specified during the week ending May 20, 2017, with the following exceptions:

- o PM<sub>10</sub> and TSP concentrations above the seasonal background level but below the RBAL for PM<sub>10</sub> and for TSP were measured as site H – Northwest Pond on May 18, 2017 from 22:00 to 23:15. SLR technicians were on site and observed visible windblown dust from vehicle traffic on Vee Lake Road. SLR is not aware of any site activities that may have influenced these concentrations.

Sincerely,

Geneva Irwin



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

NT 884676

May 26, 2017

Distribution List

**RE: Air Quality Reports for the Week of May 20, 2017.**

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summarizes the daily hourly maximum concentrations and the daily 24-Hour average concentrations measured at the Niven Lake community station during the week.

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Sincerely,



Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List