

From: Geneva Irwin
Subject: Air Quality Monitoring Weekly Summary - Week Ending in December 31
Date: Friday, January 6, 2017 3:45:44 PM
Attachments: [December 31.pdf](#)

Good Afternoon,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending December 31, 2016 is as follows:

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 December 5 and 8, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analysis of community station filters collected after December 8, 2016 are pending;

- Laboratory results from asbestos samples collected on December 8, 2016 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 on December 5, 2016 and after December 8, 2016 are pending.
- There were no NO₂ 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 NO₂ Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
December 25, 2016	5.4	3.4
December 26, 2016	4.7	3.3
December 27, 2016	24.9	8.7
December 28, 2016	24.4	7.2
December 29, 2016	21.2	6.4
December 30, 2016	7.6	2.5
December 31, 2016	20.7	4.3

General Operation:

The AQM program operated as specified during the week ending December 31, 2016.

erely,

alie Plato



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT 864712

January 6, 2017

Distribution List

RE: Air Quality Reports for the Week of December 31, 2016.

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Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List