

From: Cooper, Kayla (AADNC/AANDC)
To: [Cooper, Kayla \(AADNC/AANDC\)](#)
Subject: Giant Mine ambient AQMP summary report for the week ending March 24th
Date: April 6, 2018 3:16:59 PM
Attachments: [GIANT - REGULATORY AND MONITORING - AQM WEEKLY SUMMARY - WEEK ENDING IN March 24, 2018.pdf](#)

Good afternoon,

a summary of the Giant Mine ambient air quality monitoring program (AQMP) for the week ending March 24, 2018 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) of 159 µg/m³ were measured at the fenceline monitoring stations during the week. PM₁₀ 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 most of the fenceline locations during the week were typical of seasonal background concentrations;
- Laboratory results for TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on February 25, 28, and March 3, 2018 at the fenceline sampling locations 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 March 3, 2018 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 February 28, March 3, and March 6, 2018 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected on February 7, 2018 after March 6, 2018 are pending;
- Laboratory analyses of asbestos samples collected at the community stations after March 6, 2018 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)
March 18, 2018	4.3	2.3
March 19, 2018	3.9	1.7
March 20, 2018	1.5	0.4
March 21, 2018	2.1	0.6
March 22, 2018	8.1	2.5
March 23, 2018	2.4	0.7
March 24, 2018	0.9	0.4

General Operation:

- The AQM program operated as specified during the week ending March 24, 2018, with the following exception:
- The NVN station did not report PM₁₀ data on March 23 and March 24, 2018 due to a temperature probe and pump error that was repaired on the afternoon of March 24, 2018.

Kind regards,

Kayla Cooper

Administrative Project Coordinator
Giant Mine Remediation Project, INAC
867-669-2425



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

April 5, 2018

Distribution List

RE: Air Quality Reports for the Week of March 24, 2018.

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Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List