



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

March 19, 2020

Distribution List

Giant Mine Remediation Project Ambient Air Quality Monitoring Program summary for the week ending March 14, 2020.

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending March 14, 2020 is as follows:

Site Perimeter Stations

- Air quality monitoring at the fence line stations was completed at 12:00 AM December 1, 2019;
- All laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the site perimeter stations have been reported.

Community Stations

- No continuous PM_{2.5} or PM₁₀ 24-hour average concentrations above the referenced standards for each were measured at any of the community stations during the week;
- Laboratory results from integrated TSP, PM₁₀, and trace metals (including arsenic) samples collected on March 4, 2020 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 March 4, 2020 are pending;
- Laboratory results from asbestos samples collected on March 4, 2020 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 March 4, 2020 are pending;
- There were no NO₂ concentrations measured at the Niven Lake Community Station above the NWT Ambient Air Quality 24-hour Standard of 106 parts per billion (ppb) or the one-hour Standard of 213 ppb during the week. Table 1 summarizes each day's maximum hourly concentration and each day's 24-hour average concentration at the Niven Lake community station during the week.



Table 1
Niven Lake Community Station NO₂ Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
March 08, 2020	12.5	3.7
March 09, 2020	10.0	4.7
March 10, 2020	2.4	1.3
March 11, 2020	1.1	0.6
March 12, 2020	5.3	1.8
March 13, 2020	6.8	2.9
March 14, 2020	4.7	2.9

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals (including arsenic) was conducted on March 10, 2020. The next regularly scheduled sampling is March 16, 2020;
- The AAQM program operated as specified during the week ending March 14, 2020, with the following exception:
 - The continuous PM_{2.5} monitor at the NVN community station did not collect valid data from 03:00 MST on March 8, 2020 to 10:00 MST on March 12, 2020 due to an instrument error. The monitor has since been repaired.

Sincerely,



Natalie Plato
Deputy Director Giant Mine Remediation Project

c.c.: Distribution List