



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

January 26, 2021

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending January 2, 2021 is as follows:

Site Perimeter Monitoring Network

- Air Quality monitoring at the site perimeter stations was completed at 12:00 AM December 1, 2020.
- All laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the site perimeter stations have been reported.

Community Station Monitoring Network

- 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. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations.
- Laboratory results for integrated TSP, PM₁₀, and trace metals analyses from samples collected on December 11, 2020 at the community stations were less than the analytical detection limit and/or below referenced standards. Laboratory analyses of community station filters collected after December 11, 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)
December 27, 2020	5.8	2.5
December 28, 2020	24.2	5.1
December 29, 2020	19.5	3.8
December 30, 2020	13.0	2.5
December 31, 2020	5.8	2.4
January 01, 2021	15.8	3.6
January 02, 2021	1.4	0.6

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals was conducted on December 29, 2020. The next regularly scheduled sampling date is January 4, 2021.
- The AAQM program operated as specified during the week ending January 2, 2021, with the following exceptions:
 - One hour of PM₁₀ data were invalidated at the YKB community station on December 28, 2020 due to reported concentrations of less than -3 µg/m³.
 - Three hours of PM_{2.5} data were invalidated at the YKB community station on January 2, 2021 due to reported concentrations of less than -3 µg/m³.

Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project
c.c.: Distribution List