



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

January 18, 2021

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending January 9, 2021 is as follows:

Community Station Monitoring Network

- No continuous PM<sub>2.5</sub> or PM<sub>10</sub> 24-hour average concentrations above the referenced standards for each were measured at any of 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 results for integrated TSP, PM<sub>10</sub>, and trace metals analyses from samples collected on December 17 and 23, 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 23, 2020 are pending.
- There were no NO<sub>2</sub> 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 NO<sub>2</sub> Concentrations**

<b>Date</b>	<b>Maximum One-hour Average (ppb)</b>	<b>24-hour Average (ppb)</b>
January 03, 2021	7.3	1.6
January 04, 2021	15.4	4.0
January 05, 2021	7.8	2.2
January 06, 2021	10.9	2.7
January 07, 2021	22.2	6.3
January 08, 2021	11.7	4.7
January 09, 2021	15.8	5.5



## General Operation

- Integrated sampling for TSP, PM<sub>10</sub>, and trace metals was conducted on January 4, 2021. The next regularly scheduled sampling date is January 10, 2021.
- The AAQM program operated as specified during the week ending January 9, 2021, with the following exception:
  - One hour of PM<sub>10</sub> data were invalidated at the YKB community station on January 3, 2021 due to reported concentrations of less than -3 µg/m<sup>3</sup>.

Sincerely,

A handwritten signature in purple ink that reads "Natalie Plato".

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