



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

January 5, 2021

## Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending December 12, 2020 is as follows:

### Site Perimeter Monitoring Network

- Air Quality monitoring at the site perimeter stations was completed at 12:00 AM December 1, 2020 for the season.
- Laboratory results for integrated TSP, PM<sub>10</sub>, and trace metals (including arsenic) analyses from samples collected on November 26, 2020 at the site perimeter monitoring stations were less than the analytical detection limit and/or below the referenced standard. All laboratory analyses of integrated 24-hour arsenic, PM<sub>10</sub>, and TSP filter samples collected at the site perimeter stations have been reported.

### 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 November 26, 2020 at the community stations were less than the analytical detection limit and/or below referenced standards.
- 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>
December 06, 2020	2.2	0.8
December 07, 2020	5.0	1.4
December 08, 2020	5.1	2.4
December 09, 2020	2.5	1.1
December 10, 2020	1.3	0.5
December 11, 2020	2.0	0.5
December 12, 2020	18.4	3.7

General Operation

- Integrated sampling for TSP, PM<sub>10</sub>, and trace metals was conducted on December 11, 2020. The next regularly scheduled sampling date is December 17, 2020.
- The AAQM program operated as specified during the week ending December 12, 2020, with the following exceptions:
  - One hour of PM<sub>2.5</sub> data were invalidated at the YKB community station on both December 6 and 7, 2020 due to reported concentrations of less than - 3 µg/m<sup>3</sup>.

Sincerely,



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