



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

September 28, 2020

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending September 19, 2020 is as follows:

Site Perimeter Stations

- 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 site perimeter monitoring stations during the week. PM₁₀ concentrations measured at the site perimeter monitoring locations during the week were typical of seasonal background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL of 333 µg/m³ were measured at the site perimeter monitoring stations during the week. TSP concentrations measured at the site perimeter monitoring locations during the week were typical of seasonal background concentrations;
- Laboratory results for integrated TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on July 20, 2020 at the site perimeter monitoring stations 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 site perimeter stations on August 13 and 25, 2020, and after August 31, 2020 are pending.

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. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory analyses of community station filters collected after August 31, 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)
September 13, 2020	0.4	0.0
September 14, 2020	5.5	0.8
September 15, 2020	12.6	1.6
September 16, 2020	13.3	1.7
September 17, 2020	12.6	1.6
September 18, 2020	3.4	1.0
September 19, 2020	3.6	0.0

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals (including arsenic) was conducted on September 15 and 18, 2020. The next regularly scheduled sampling is September 21, 2020;
- Data completeness for the reporting period was 99.90% for continuous TSP and 100% for continuous PM₁₀ concentrations measured at the site perimeter monitoring stations;
- The AAQM program operated as specified during the week ending September 19, 2020, with the following exceptions:
 - The continuous PM₁₀ sampler at the YKB community station did not collect data from 12:00 MST until 17:00 MST on September 16, 2020 due to a malfunction and repair.

Sincerely,



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