PO BOX 1500
YELLOWKNIFE NT X1A 2R3

July 15, 2020

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending July 4, 2020 is as follows:

Site Perimeter Stations

- No 15-minute average particulate matter less than 10 microns in diameter (PM_{10}) concentrations above the established Risk Based Action Level (RBAL) of 159 $\mu g/m^3$ were measured at the site perimeter monitoring stations during the week. PM_{10} 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 $\mu g/m^3$ 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, PM_{10}, and trace metals (including arsenic) analyses from samples collected on June 8, 11, and 14, 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, PM_{10}, and TSP filter samples collected at the site perimeter stations after June 14, 2020 are pending.

Community Stations

- No continuous $PM_{2.5}$ or PM_{10} 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 PM_{10} concentrations during the week were typically representative of seasonal background concentrations;

- Laboratory results for integrated TSP, PM_{10}, and trace metals (including arsenic) analyses from samples collected on June 17, 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 June 14, 2020 are pending;

- There were no NO_2 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_2 Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
June 28, 2020	1.3	0.3
June 29, 2020	2.3	0.9
June 30, 2020	2.2	0.8
July 01, 2020	0.7	0.3
July 02, 2020	1.0	0.6
July 03, 2020	1.5	0.4
July 04, 2020	2.4	0.2

General Operation

- Integrated sampling for TSP, PM_{10}, and trace metals (including arsenic) was conducted on June 29 and July 2, 2020. The next regularly scheduled sampling is July 5, 2020;

- Data completeness for the reporting period was 99.83% for continuous TSP and 99.82% for continuous PM_{10} concentrations measured at the site perimeter monitoring stations;

- The AAQM program operated as specified during the week ending July 4, 2020, with the exception of nine hours of $PM_{2.5}$ data and one hour of PM_{10} at YKB on July 2, 2020 due to an instrument malfunction.

Sincerely,

Natalie Plato

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