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April 24, 2020

Distribution List

### **Giant Mine Remediation Project Ambient Air Quality Monitoring Program summary for the week ending April 4, 2020.**

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

#### Site Perimeter Stations

- Air quality monitoring at the site perimeter stations was completed at 12:00 AM December 1, 2019;
- 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 Stations

- 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;
- Laboratory results from integrated TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples collected on March 22, 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 March 22, 2020 are pending;
- Laboratory analyses of asbestos samples collected at the community stations after March 22, 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.



**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> |
|----------------|---------------------------------------|------------------------------|
| March 29, 2020 | 6.2                                   | 1.2                          |
| March 30, 2020 | 0.7                                   | 0.5                          |
| March 31, 2020 | 1.6                                   | 0.7                          |
| April 01, 2020 | 1.4                                   | 0.6                          |
| April 02, 2020 | 0.6                                   | 0.3                          |
| April 03, 2020 | 4.6                                   | 1.1                          |
| April 04, 2020 | 5.6                                   | 1.6                          |

General Operation

- Integrated sampling for TSP, PM<sub>10</sub>, and trace metals (including arsenic) was conducted on April 3, 2020. The next regularly scheduled sampling is April 9, 2020.

Sincerely,



Natalie Plato  
Deputy Director Giant Mine Remediation Project

c.c.: Distribution List