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January 5, 2021

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending December 26, 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.
- All laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the site perimeter stations have been reported.

Community Station Monitoring Network

- 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 results for integrated TSP, PM₁₀, and trace metals analyses from samples collected on November 29 and December 5, 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 5, 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)
December 20, 2020	3.8	1.7
December 21, 2020	2.3	1.2
December 22, 2020	5.5	2.3
December 23, 2020	3.3	2.0
December 24, 2020	4.4	1.4
December 25, 2020	7.0	2.2
December 26, 2020	16.2	6.2

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals was conducted on December 23, 2020. The next regularly scheduled sampling date is December 29, 2020.
- The AAQM program operated as specified during the week ending December 26, 2020.

Sincerely,



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