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May 27, 2020

Distribution List

Giant Mine Remediation Project Ambient Air Quality Monitoring Program summary for the week ending May 16, 2020

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending May 16, 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 analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the site perimeter stations on and after May 3, 2019 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;
- No 24-hour average concentrations of PM_{2.5} were measured above the referenced standard at the community stations during the week. PM_{2.5} concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory results from integrated TSP, PM₁₀, and trace metals (including arsenic) samples collected on May 3, 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 May 3, 2020 are pending;



- The final asbestos sample was submitted for laboratory analysis on April 27, 2020;
- 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)
May 10, 2020	3.2	0.6
May 11, 2020	3.3	1.0
May 12, 2020	20.0	2.1
May 13, 2020	2.2	0.4
May 14, 2020	20.0	6.9
May 15, 2020	11.1	1.5
May 16, 2020	9.9	4.0

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals (including arsenic) was conducted on May 12 and 15, 2020. The next regularly scheduled sampling is May 18, 2020;
- Data completeness for the reporting period was 99.59% for continuous TSP and 99.93% for continuous PM₁₀ concentrations measured at the site perimeter monitoring stations;
- The AAQM program operated as specified during the week ending May 9, 2020, with the following exception:
 - A total of 6.25 hours of continuous data were invalidated from the TSP site perimeter monitor at station G-West on May 16, 2020 due to a sampler malfunction and its repair.

Sincerely,



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