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To: [Cooper, Kayla \(AADNC/AANDC\)](#)
Subject: Giant Mine ambient AQMP weekly summary report for the week ending March 17, 2018
Date: March 26, 2018 9:00:40 AM

Good morning,

A summary of the Giant Mine ambient air quality monitoring program (AQMP) for the week ending March 17, 2018 is as follows:

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Fenceline Network:

- 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 fenceline monitoring stations during the week. PM₁₀ concentrations measured at the fenceline locations during the week were typical of seasonal background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL (333 µg/m³) were measured at the fenceline monitoring stations during the week. TSP concentrations measured at most of the fenceline 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 fenceline sampling locations after February 25, 2018 are pending.

Community Stations:

- No 24-hour average concentrations of PM_{2.5} and PM₁₀ were measured above the referenced standards at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on February 25, 2018 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected on February 7, 2018 after February 25, 2018 are pending;
 - Laboratory results for asbestos analyses from samples collected on March 3 and 6, 2018 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations after March 6, 2018 are pending;
 - There were no NO₂ concentrations measured at the Niven Lake community air monitoring station above the NWT Ambient Air Quality 24-Hour Standard of 106 parts per billion (ppb) or the 1-Hour Standard of 213 ppb during the week. Table 1 summarizes the daily hourly maximum concentrations and the daily 24-Hour average concentrations measured at the Niven Lake community station during the week.

Table 1

Niven Lake Community AQM Station NO₂ Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
March 11, 2018	39.3	12.6
March 12, 2018	28.7	6.8
March 13, 2018	33.1	7.5
March 14, 2018	9.4	3.4

March 15, 2018	1.4	0.7
March 16, 2018	7.2	2.0
March 17, 2018	8.0	2.5

General Operation:

- The AQM program operated as specified during the week ending March 17, 2018.

Thanks,

Kayla Cooper

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