

**From:** [Garbutt, Nicole \(AADNC/AANDC\)](#)  
**Subject:** Giant Mine AQMP summary report for the week ending in July 6, 2019  
**Date:** July 16, 2019 11:04:08 AM  
**Attachments:** [July 6.pdf](#)

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Good morning,

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending July 6, 2019 is attached and as follows:

#### Fence Line Stations

- No 15-minute average particulate matter less than 10 microns in diameter (PM<sub>10</sub>) concentrations above the established Risk Based Action Level (RBAL) of 159 µg/m<sup>3</sup> were measured at the fence line monitoring stations during the week. PM<sub>10</sub> concentrations measured at the fence line 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/m<sup>3</sup> were measured at the fence line monitoring stations during the week. TSP concentrations measured the fence line monitoring locations during the week were typical of seasonal background concentrations.
- Laboratory results for TSP, PM<sub>10</sub>, and trace metals (including arsenic) analyses from samples collected on June 14, 2019 at the fence line stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated 24-hour arsenic, PM<sub>10</sub>, and TSP filter samples collected at the fence line stations after June 14, 2019 are pending.

#### 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 TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples collected on June 17, 20, and 23, 2019 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 23, 2019 are pending.
- Laboratory results from asbestos samples collected on June 14, 17, and 20, 2019 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 June 20, 2019 are pending.
- There were no NO<sub>2</sub> 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 Station NO<sub>2</sub> Concentrations**

<b>Date</b>	<b>Maximum One-hour Average (ppb)</b>	<b>24-hour Average (ppb)</b>
June 30, 2019	0.6	0.0
July 01, 2019	0.1	0.0
July 02, 2019	0.3	0.0
July 03, 2019	0.6	0.0
July 04, 2019	1.8	0.3
July 05, 2019	1.4	0.6
July 06, 2019	3.2	0.7

#### General Operation

- Data completeness for the reporting period was 100% for continuous PM<sub>10</sub> and 100% for continuous TSP concentrations measured at the fence line monitoring stations.
- The AQM program operated as specified during the week ending July 6, 2019, with the following exception:
  - PM<sub>2.5</sub> data at community station NDL were incomplete on June 30, 2019 during the annual background check.

#### **Nicole Garbutt**

*Administrative Project Coordinator*

Giant Mine Remediation Project

Crown-Indigenous Relations and Northern Affairs Canada

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July 16, 2019

Distribution List

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Sincerely,



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