

**From:** [Garbutt, Nicole \(AADNC/AANDC\)](#)  
**To:** [Garbutt, Nicole \(AADNC/AANDC\)](#)  
**Subject:** Air Quality Monitoring Weekly Summary - Week ending December 29, 2018  
**Date:** January 7, 2019 1:48:24 PM  
**Attachments:** [December 29.pdf](#)

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Good Afternoon,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending December 29, 2018 is as follows:

Fence Line Network:

- Air Quality monitoring at the fence line stations was completed at 12:00 AM December 19, 2018.
- Laboratory analyses of integrated 24-hour arsenic, PM<sub>10</sub>, and TSP filter samples collected at the fence line stations after December 7, 2018 are pending.

Community Stations:

- No real-time 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 December 4, and 7, 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 after December 7, 2018 are pending;
- Laboratory results from asbestos samples collected on December 10, 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 December 10, 2018 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.

**Table1**  
**Niven Lake Community AQM Station NO<sub>2</sub> Concentrations**

<b>Date</b>	<b>Maximum One-hour Average (ppb)</b>	<b>24-hour Average (ppb)</b>

December 23, 2018	7.7	3.0
December 24, 2018	24.4	6.5
December 25, 2018	2.3	1.3
December 26, 2018	1.9	1.3
December 27, 2018	4.1	2.0
December 28, 2018	3.8	2.3
December 29, 2018	3.4	1.9

C5-09 Slope Stabilization Program:

- Air Quality monitoring associated with the C5-09 slope stabilization program was completed at 12:00 AM December 19, 2018.
- Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected on December 4, and 7, 2018 were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected after December 7, 2018 are pending.

General Operation:

- The AQM program operated as specified during the week ending December 29, 2018.

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Sincerely,

Nicole Garbutt on behalf of Natalie Plato

**Nicole Garbutt**

Giant Mine Remediation Project  
Crown-Indigenous Relations and Northern Affairs Canada  
[nicole.garbutt@canada.ca](mailto:nicole.garbutt@canada.ca)  
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PO BOX 1500  
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January 7, 2019

Distribution List

**RE: Air Quality Reports for the Week of December 29, 2018 .**

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Fence Line Network:

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Community Stations:

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General Operation:

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Sincerely,



Natalie Plato  
Giant Mine Remediation Project

c.c.: Distribution List