



Giant Mine Remediation Project  
PO Box 1500  
Yellowknife, NT X1A 2R3

December 19, 2018

Mavis Cli-Michaud  
Mackenzie Valley Land and Water Board  
7th Floor, 4910-50th Avenue  
PO Box 2130  
Yellowknife, NT X1A 2P6

**Re: NOVEMBER 2018 MONTHLY REPORT FOR WATER LICENCE MV2012L8-0010**

Dear Ms Cli-Michaud:

Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) is pleased to submit the attached November 2018 Monthly Report for Water Licence MV2012L8-0010 (the Licence), on behalf of the Giant Mine Remediation Project (GMRP). The GMRP team consists of CIRNAC and the Government of the Northwest Territories, and is supported by the federal department of Public Services and Procurement Canada. This report is a requirement under Part B, Item 7 of the Licence.

If there are any questions or concerns, please contact the undersigned at 867-669-2775 or Katherine.Harris2@canada.ca.

Sincerely,

Katherine Harris  
Regulatory Manager  
Giant Mine Remediation Project

Attachment: November 2018 Monthly Report for Water Licence MV2012L8-0010

**GIANT MINE SITE STABILIZATION PLAN**

**WATER LICENCE MV2012L8-0010**

**MONTHLY REPORT**

**November 2018**

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## INTRODUCTION

Water Licence MV2012L8-0010 (the Licence) was issued to Aboriginal Affairs and Northern Development Canada (AANDC, now Crown-Indigenous Relations and Northern Affairs Canada [CIRNAC]) on March 28, 2013 for water use and waste disposal associated with roaster complex deconstruction and underground stabilization at the Giant Mine. This Licence has since been extended to July 31, 2020. Part B, Item 7 of the Licence requires that the commitments made in the *Communications Plan for Duration of Site Stabilization Activities* (Site Stabilization Plan [SSP] Communications Plan) be fulfilled. One of the commitments in the SSP Communications Plan is to provide monthly updates to the Mackenzie Valley Land and Water Board (MVLWB) and Identified Parties during active operations.

The SSP Communications Plan requires that the monthly updates include the following items:

- progress/status update of the work;
- summary of outcomes from environmental and health and safety-related inspections; and
- summary of outcomes from air and water quality monitoring.

## ENGAGEMENT ACTIVITIES

No engagement activities were completed in relation to the Site Stabilization Program during the reporting period.

## PROGRESS UPDATE

C5-09 Stope Backfill: Significant progress on the completion of the final phase of backfilling of the stope complex, which includes 24,301 m<sup>3</sup> of paste delivered, occurred during the month of November 2018.

Akaitcho Pumps: No work was completed in relation to this component.

## INSPECTIONS

### Water Licence Inspections

No Water Licence inspections were carried out in November 2018 in relation to SSP works.

### Health and Safety Inspections

Daily toolbox meetings are undertaken, and health and safety inspections in relation to the C5-09 stope backfilling were completed on a weekly basis. The following summary of health and safety incidents was reported during the reporting period:

- Lost Time – none
- Minor First Aid – Paste in eye; first aid was administered. Worker hit hand with sledgehammer; went to hospital for x-rays and medical attention.
- Property Damage – Truck backed into a makeshift shelter causing minor damage. Minor fender-bender between a Parsons truck and NCL truck – minor damage, but no injuries.

- Near Miss – Bulldozer and fuel truck rammed each other in the South Pond (South Tailings Containment Area). Incident was discussed with the WSCC and it was determined that the scene could be released and work continued.
- Medical Monitoring – There were 10 exceedences for arsenic of 35 µg/L from the medical monitoring results during the month of November 2018.

## MONITORING

### Spill Events

No reportable spills related to SSP activities for November 2018.

### Sanitary Waste Management

The volume of sanitary waste produced at the C5-09 work areas and transported to the Yellowknife municipal sewage lagoon during the reporting period is summarized in Table 1.

**Table 1: Volume of Sanitary Wastewater Discharged to the Yellowknife Municipal Sewage Lagoon in November 2018**

Date	Volume (m <sup>3</sup> )
Week ending Nov. 3, 2018	5.68
Week ending Nov. 10, 2018	0
Week ending Nov. 17, 2018	11.36
Week ending Nov. 24, 2018	0
November 26 <sup>th</sup> to 30 <sup>th</sup> , 2018	11.36
<b>Total for November 2018</b>	<b>28.40</b>

### Water Quantity Monitoring

Table 2 summarizes the volume of recycled water used for the C5-09 stope backfill in November 2018.

**Table 2: Volume of Recycled Water Used for Paste Production, Dust Suppression, and/or Drilling Operations in November 2018**

	Dust Control Volume (m <sup>3</sup> )	Paste Production Volume (m <sup>3</sup> )	SLC Volume (m <sup>3</sup> )	Total Volume (m <sup>3</sup> )
Polishing Pond	0	0	0	0
North Pond	0	3322.096	2910.625	6232.721
<b>Total for November 2018</b>	<b>0</b>	<b>3322.096</b>	<b>2910.625</b>	<b>6232.721</b>

Table 3 summarizes the volume of wastewater disposed of in the Northwest Tailings Pond from the C5-09 stope backfill.

**Table 3: Volume of Wastewater Discharged to the Northwest Tailings Pond in November 2018**

<b>Date</b>	<b>Volume (m<sup>3</sup>)</b>
Week ending Nov. 3, 2018	0
Week ending Nov. 10, 2018	0
Week ending Nov. 17, 2018	0
Week ending Nov. 24, 2018	0
November 26 <sup>th</sup> to 30 <sup>th</sup> , 2018	0
<b>Total for November 2018</b>	<b>0</b>

### Water Quality Monitoring

As detailed in Table 2, recycled water was used from the North Pond for concrete production (deposited underground) and from the Polishing Pond for dust control. No water quality samples were collected from the Polishing and North ponds during the reporting period.

### Wildlife Observations

**Table 4: Wildlife Sightings for November 2018**

<b>Date</b>	<b>Species</b>	<b>Location</b>
November 10, 2018	wolves and foxes	various locations
November 17, 2018	wolves and a wolverine	wolves – near Norseman; wolverine near security gate house
November 24, 2018	wolves	near MEG shop

### Air Quality Monitoring Program

The Air Quality Monitoring Program (AQMP) at the fenceline and community monitoring stations was on-going through the month of November, as well as activity-specific monitoring for the C5-09 Stope Stabilization Program.

AQMP results for the reporting period are included in Appendix A; results for the week of November 25 are pending at the time of reporting and will be submitted with the December monthly report.

## **APPENDIX A – AIR QUALITY MONITORING PROGRAM RESULTS**



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

November 14, 2018

Distribution List

**RE: Air Quality Reports for the Week of November 3, 2018.**

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending November 03, 2018 is as follows:

Fence Line Network:

- 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 October 11, 2018 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 on October 8, and after October 11, 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 October 11 and 14, 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 October 14, 2018 are pending;
- Laboratory results from asbestos samples collected on October 17 and 20, 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 October 20, 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.

**Table 1**  
**Niven Lake Community AQM Station NO<sub>2</sub> Concentrations**

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
October 28, 2018	3.2	0.8
October 29, 2018	2.6	1.0
October 30, 2018	6.5	1.5
October 31, 2018	1.7	0.8
November 01, 2018	10.9	2.5
November 02, 2018	7.2	1.8
November 03, 2018	1.3	0.2

C5-09 Stope Stabilization Program:

- Air quality monitoring specific to the C5-09 stope stabilization program was conducted throughout the week at four stations within the vicinity of UBC Pit, and at four stations within the vicinity of the North, Central, and South Tailings Ponds;
- There were no 15-minute average PM<sub>10</sub> concentrations above the RBAL of 260 µg/m<sup>3</sup> measured at the monitors associated with the C5-09 stope stabilization program during the week;
- Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected on October 8 and 11, 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 October 11, 2018 are pending.

General Operation:

- Data completeness for the reporting period was 99.57% for real time TSP samplers associated with the fence line monitoring network, 99.44% for real time PM<sub>10</sub> samplers associated with the fence line monitoring network, and 99.4% for real time PM<sub>10</sub> samplers associated with the C5-09 monitoring network;
- The AQM program operated as specified during the week ending November 03, 2018, with the following exceptions:
  - A total of 6.5 hours of real-time TSP data were invalidated from the fence line stations during maintenance and repair;
  - A total of 8.5 hours of real-time PM<sub>10</sub> data were invalidated from the fence line stations during maintenance and repair;
  - A total of 8 hours of real-time PM<sub>10</sub> data were invalidated from the C5-09 stations during maintenance and repair.

Sincerely,

A handwritten signature in blue ink that reads "Natalie Plato". The signature is fluid and cursive, with the first name "Natalie" written in a larger, more prominent script than the last name "Plato".

Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

November 16, 2018

Distribution List

**RE: Air Quality Reports for the Week of November 10, 2018.**

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending November 10, 2018 is as follows:

Fence Line Network:

- 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 stations 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 October 8, 14, 17, 20, 23, and 26, 2018 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 October 26, 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 October 17, 20 and 23, 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 October 23, 2018 are pending;

- Laboratory results from asbestos samples collected on October 26 and 29, 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 on October 23, and after October 29, 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.

**Table 1**  
**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>
November 04, 2018	28.5	5.3
November 05, 2018	14.5	3.8
November 06, 2018	15.9	5.2
November 07, 2018	9.3	3.1
November 08, 2018	2.6	1.2
November 09, 2018	13.0	0.4
November 10, 2018	24.4	1.4

C5-09 Stope Stabilization Program:

- Air quality monitoring specific to the C5-09 stope stabilization program was conducted throughout the week at four stations within the vicinity of UBC Pit, and at four stations within the vicinity of the North, Central, and South Tailings Ponds;
- There were no 15-minute average PM<sub>10</sub> concentrations above the RBAL of 260 µg/m<sup>3</sup> measured at the monitors associated with the C5-09 stope stabilization program during the week;
- Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected on October 14, 17, 20, and 23, 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 October 23, 2018 are pending.

General Operation:

- Data completeness for the reporting period was 98.86% for real time TSP samplers associated with the fence line monitoring network, 99.02% for real time

PM<sub>10</sub> samplers associated with the fence line monitoring network, and 98.88% for real time PM<sub>10</sub> samplers associated with the C5-09 monitoring network;

- The AQM program operated as specified during the week ending November 10, 2018, with the following exceptions:
  - A total of 17.25 hours of real-time TSP data were invalidated from the fence line stations during maintenance and repair;
  - A total of 14.75 hours of real-time PM<sub>10</sub> data were invalidated from the fence line stations during maintenance and repair;
  - A total of 15 hours of real-time PM<sub>10</sub> data were invalidated from the C5-09 stations during maintenance and repair;
  - The PM<sub>10</sub> and TSP samplers at fence line station B-Town did not record data on November 4, 2018 from 01:00 MST to 03:45 MST due to battery failure. SLR technicians have identified the failed battery and removed it from service;
  - The 24-integrated filter for PM<sub>10</sub> collected on October 8, 2018 at Station E-A1C1 was not analyzed for particulate matter due to an error with the laboratory analysis. Integrated arsenic analysis of this filter was not affected.

Sincerely,



Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

November 23, 2018

Distribution List

**RE: Air Quality Reports for the Week of November 17, 2018.**

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

Fence Line Network:

- 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 stations 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 November 4, 2018 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 on October 29 and November 1, and after November 4, 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 October 26 and 29, 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 October 29, 2018 are pending;
- Laboratory results from asbestos samples collected on October 23, November 1, and 4, 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 November 4, 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.

**Table 1**  
**Niven Lake Community AQM Station NO<sub>2</sub> Concentrations**

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
November 11, 2018	13.9	0.3
November 12, 2018	0.0	0.0
November 13, 2018	0.0	0.0
November 14, 2018	0.3	0.0
November 15, 2018	5.2	1.2
November 16, 2018	13.6	5.2
November 17, 2018	3.0	0.3

C5-09 Stope Stabilization Program:

- Air quality monitoring specific to the C5-09 stope stabilization program was conducted throughout the week at four stations within the vicinity of UBC Pit, and at four stations within the vicinity of the North, Central, and South Tailings Ponds;
- There were no 15-minute average PM<sub>10</sub> concentrations above the RBAL of 260 µg/m<sup>3</sup> measured at the monitors associated with the C5-09 stope stabilization program during the week;
- Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected on October 26, 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 October 26, 2018 are pending.

General Operation:

- Data completeness for the reporting period was 98.66% for real time TSP samplers associated with the fence line monitoring network, 99.12% for real time PM<sub>10</sub> samplers associated with the fence line monitoring network, and 98.88% for real time PM<sub>10</sub> samplers associated with the C5-09 monitoring network;
- The AQM program operated as specified during the week ending November 17, 2018, with the following exceptions:
  - A total of 20.25 hours of real-time TSP data were invalidated from the fence line stations during maintenance and repair;
  - A total of 13.25 hours of real-time PM<sub>10</sub> data were invalidated from the fence line stations during maintenance and repair;
  - A total of 15 hours of real-time PM<sub>10</sub> data were invalidated from the C5-09 stations during maintenance and repair;

- Fourteen (14) 15-minute average TSP concentrations at fence line monitoring Station G-West were invalidated between 13:45 MST and 17:00 MST on November 11, 2018 due to equipment malfunction. The sampler was evaluated and returned back to service;
- A total of 30 hours of continuous PM<sub>2.5</sub> data on November 13 and 14, 2018 was lost from the YCC community station due to a sampler malfunction. The SLR on-site technician repaired the instrument and returned it to service;
- The 24-integrated samples for TSP and PM<sub>10</sub> collected on November 4, 2018 at Station F-Marina were invalid and were not submitted for laboratory analysis due to an extended run time outside the run-time tolerance.

Sincerely,

A handwritten signature in blue ink that reads "Natalie Plato". The signature is written in a cursive, flowing style.

Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List





3666PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

November 30, 2018

Distribution List

**RE: Air Quality Reports for the Week of November 24, 2018.**

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending November 24, 2018 is as follows:

Fence Line Network:

- 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 stations 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 October 29, November 1, and 7, 2018 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 November 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 November 1, 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 November 7, 2018 are pending;

- Laboratory results from asbestos samples collected on November 7, 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 November 7, 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.

**Table 1**  
**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>
November 18, 2018	2.0	0.2
November 19, 2018	0.9	0.0
November 20, 2018	0.4	0.0
November 21, 2018	0.9	0.2
November 22, 2018	2.4	0.0
November 23, 2018	0.0	0.0
November 24, 2018	1.5	0.2

C5-09 Stope Stabilization Program:

- Air quality monitoring specific to the C5-09 stope stabilization program was conducted throughout the week at four stations within the vicinity of UBC Pit, and at four stations within the vicinity of the North, Central, and South Tailings Ponds;
- There were no 15-minute average PM<sub>10</sub> concentrations above the RBAL of 260 µg/m<sup>3</sup> measured at the monitors associated with the C5-09 stope stabilization program during the week;
- Laboratory analyses of C5-09 PM<sub>10</sub> and arsenic filter samples collected on October 29, November 1, 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 November 7, 2018 are pending.

General Operation:

- Data completeness for the reporting period was 99.4% for real-time TSP samplers associated with the fence line monitoring network, 99.62% for real-time PM<sub>10</sub> samplers associated with the fence line monitoring network, and 99.42% for real-time PM<sub>10</sub> samplers associated with the C5-09 monitoring network;
- The AQM program operated as specified during the week ending November 24, 2018, with the following exceptions:
  - A total of 9 hours of real-time TSP data were invalidated from the fence line stations during maintenance and repair;
  - A total of 5.75 hours of real-time PM<sub>10</sub> data were invalidated from the fence line stations during maintenance and repair;
  - A total of 7.75 hours of real-time PM<sub>10</sub> data were invalidated from the C5-09 stations during maintenance and repair;
  - The wind direction data from the on-site meteorological station was invalidated between November 22, 2018 05:00 MST and November 23, 2018 12:00 MST due accumulation of frost on the sensor. The SLR on-site technician repaired the instrument and returned it to service.

Sincerely,



Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List