From: Geneva Irwin

Subject: Air Quality Monitoring Weekly Summary Week Ending in October 22

Date: Thursday, October 27, 2016 3:43:58 PM

Attachments: Oct.22.pdf

Good Afternoon,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending October 22, 2016 is as follows:

Fenceline Network:

No 15-minute average particulate matter less than 10 microns in diameter (PM_{10}) concentrations above the established Risk Based Action Level (RBAL) of 159 μ g/m³ were measured at the fenceline monitoring stations during the week. PM_{10} concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;

No 15-minute average total suspended particulate (TSP) concentrations above the established fenceline RBAL of $333 \mu g/m^3$ were measured at the fenceline monitoring stations during the week. TSP concentrations measured at the fenceline locations during the week were typical of seasonal background concentrations;

Laboratory results of arsenic concentrations from samples collected on September 27, 30, and October 3, 2016 at the Fenceline E-Sampler locations were less than the analytical detection limit and/or below the referenced standards. Laboratory analyses of arsenic filter samples collected after October 3, 2016 are pending.

Community Stations:

No 24-hour average concentrations of $PM_{2.5}$ and PM_{10} were measured above the referenced standards at the community stations during the week. $PM_{2.5}$ and PM_{10} concentrations during the week were typically representative of seasonal background concentrations;

Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on September 15, 18, 21, 24, 27, 30 and October 3, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analysis of community station filters collected after October 3, 2016 are pending;

• Laboratory results from asbestos samples collected on September 15, 18, 21, 24, 27, 30 and October 3, 2016 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 3, 2016 are pending.

Stope Borehole Drilling Program:

There was no air quality monitoring specific to the stope borehole drilling program conducted during the week, as drilling operations have concluded as of September 30, 2016;

Laboratory results of arsenic concentrations from samples collected on September 27, 30, 2016 at the stope borehole locations were less than the analytical detection limit and/or below the referenced standards. There are no further pending laboratory analyses of arsenic filter samples for the Stope Borehole Drilling Program.

General Operation:

The AQM program operated as specified during the week ending October 22, 2016, with the following exception:

o Fenceline DustTrak instruments have been affected by an intermittent internal software error causing sporadic loss of PM₁₀ and TSP 15-minute concentration data. SLR has been working

with the manufacturer to identify and correct this issue, but has yet to determine a cause.
Backup E-Sampler PM ₁₀ instruments have been collocated with the DustTraks at site F-Marina
and G-West to provide data during periods affected by the $DustTrak$ instrument software error;

Best,

Natalie Plato

PO BOX 1500 YELLOWKNIFE NT X1A 2R3

NT 857277

October 27, 2016

Distribution List

RE: Air Quality Reports for the Week of October 22, 2016.

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Sincerely,

Natalie Plato Deputy Director

Giant Mine Remediation Project

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c.c.: Distribution List