

LAND USE INSPECTOR NOTIFICATION/REQUEST

MV2007L8-0031 and MV2019X0007 - Giant Mine Remediation Project

To: Land Use Inspector, Erika Nissen, CIRNAC
 Land Use Inspector, Megan Larose, CIRNAC
 Sr. Program Manager, Michael Roesch, CIRNAC
 Mackenzie Valley Land and Water Board, Beth Cowan
 Mackenzie Valley Land and Water Board, Kimberly Murray
 Fisheries and Oceans Canada, Anna-Maija LaFlamme
 Fisheries and Oceans Canada, Tatiana Leclerc-Beaulieu

Date: September 4, 2024

CC: Project Manager, Andrea Markey, CIRNAC
 Regulatory Manager, Candace Ross, CIRNAC
 Deputy Director, Natalie Plato, CIRNAC
 Regulatory Lead, Stephanie Krysa, PSPC
 Technical Manager, Miguel Lariviere, CIRNAC
 Project Manager, Curtis Duffy, CIRNAC
 Project Manager, Rene Hawkes, PSPC
 Senior Engineer, Patrick Schmidt, CIRNAC

Luc Normandin, Reuben Makohoniuk, Madison Hornbeck, Les Dunkley, Doug Hayes, Wanda Sakura,
 Parsons Environmental Regulatory, Parsons Inc.

From: Environmental Manager, Parsons Inc.

Subject: Spill Notification – 201 Pumphouse Arsenic-Impacted Water Release

<input checked="" type="checkbox"/> New Notification/Request	<input type="checkbox"/> Revision to previous Notification/Request dated:
Activity Type	
<input type="checkbox"/> Archaeological site discovery <input type="checkbox"/> Blasting activities <input type="checkbox"/> General notice of start of project for new work packages* <input type="checkbox"/> Ground disturbance or excavation activities <input type="checkbox"/> Letter of acceptance for off-site waste disposal, including wastewater <input type="checkbox"/> Non-compliance with Water Licence or Land Use Permit <input type="checkbox"/> Notification of a change to the design of work package activities	<input type="checkbox"/> Notification of moderate to high action level exceedance – Aquatic Effects Monitoring Plan <input checked="" type="checkbox"/> Reportable spill <input type="checkbox"/> Temporary storage area approval <input type="checkbox"/> Use of heavy equipment <input type="checkbox"/> Vegetation clearing <input type="checkbox"/> Waste recovery and disposal activity <input type="checkbox"/> Working in water start date, trigger for Fisheries and Oceans Canada (DFO) notification

Notification of moderate to high action level exceedance – Air Quality Monitoring

Working within 100 metres of the ordinary high-water mark

Other:

Parsons, on behalf of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC), for the Giant Mine Remediation Project (GMRP) is notifying the Board and the Land Use Inspector of the following:

At 08:30 on September 3, 2024, an air bleed valve on the deep well pump system at the 201 Pumphouse was discovered to have malfunctioned, resulting in the release of arsenic-impacted mine water to the immediate surrounding area. Spill response included flow control at discovery (valve shutoff). The automated deep well pump activated as scheduled some time between 04:30 and 05:30 and ran for approximately 4 hours prior to discovery. As the pump system is automatic and the incident occurred unsupervised, the exact volume of mine water lost is not known. However, volumes are estimated to be between 30,000 L and 40,000 L (30-40 m3) based on observed flow rates.

The air bleed valve was designed to allow air to exit the system and exhaust outdoors when the pump is started and when water reaches the valve, it turns off passively. As it shuts off, the air bleed valve may release a small volume of water. A plastic 1m3 tote was fitted outdoors to collect this water. As the valve had malfunctioned, the water was freely pumped through the valve, overflowing the designated container. This container is located directly adjacent to the pumphouse, and the mine water overflow was released onto the aggregate pad directly below. The exact cause for the malfunction of the valve is under investigation. There is an ephemeral (intermittent) wetland present approximately 45 m to the east and south of the pumphouse and Shot Lake is approximately 450 m to the northeast.

Water Use

Not applicable

Fuel/Chemical Use and Storage

Not applicable

Waste Recovery and Disposal

Not applicable

Erosion and Sediment Control

Not applicable

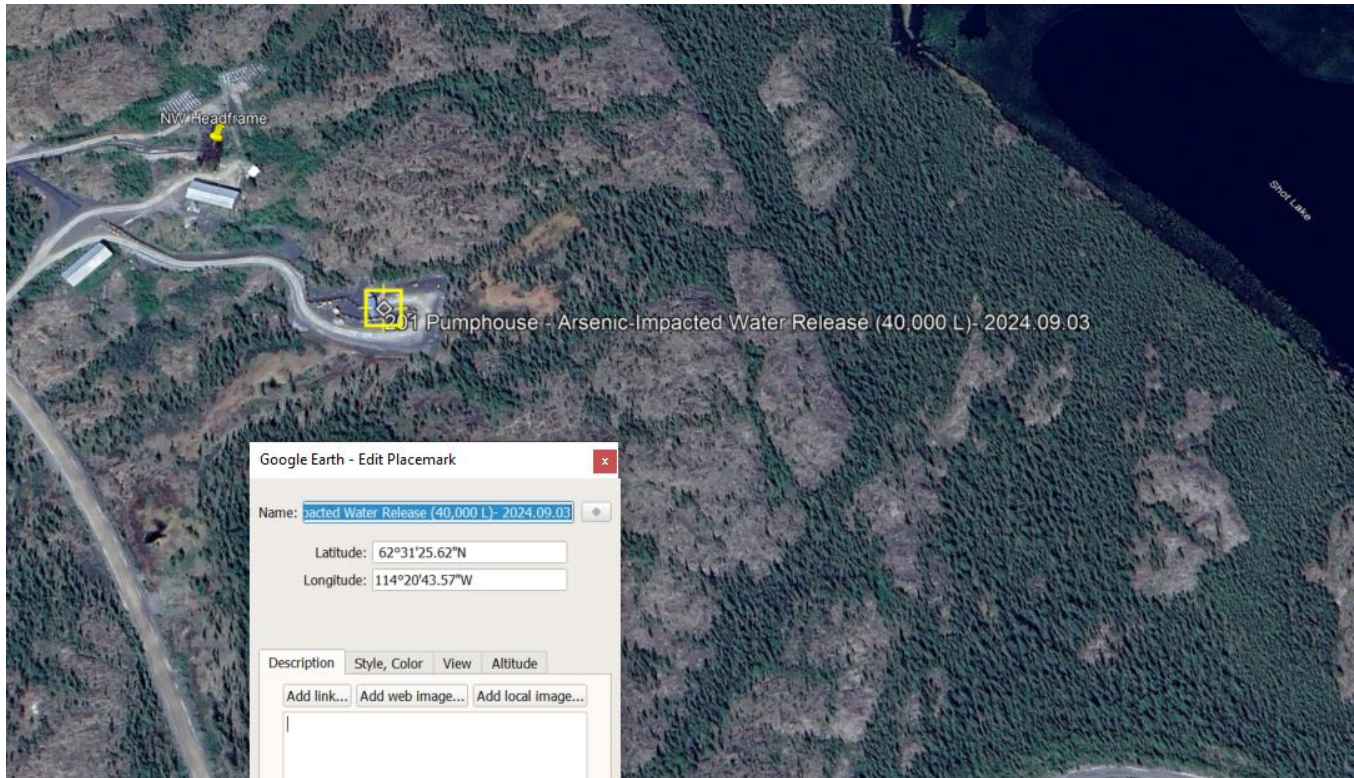
Vegetation Removal/Restoration of Site

Not applicable

Schedule

Not applicable

Site Plans and Drawings



Site Contacts

Primary Site Contact:	Senior Construction Manager	Les Dunkley	Les.Dunkley@parsons.com	867.688.9265
Alternate Site Contact:	Mine Manager	Doug Hayes	Doug.Hayes@parsons.com	867.688.1036
Parsons Contact	Environmental Manager	Reuben Makohoniuk	Reuben.Makohoniuk@parsons.com	867.669.3725
CIRNAC Contact	Regulatory Manager	Candace Ross	Candace.Ross@rcaanc-cimac.gc.ca	867.444.9783