

August 11<sup>th</sup>, 2025

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**Re: Follow-up Report Spill #2025-283 – Release of 5,000 m<sup>3</sup> of TIRI01 pit water at the Meliadine Gold Project**

On July 13<sup>th</sup>, 2025, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 5,000 m<sup>3</sup> of TIRI01 pit water coming from the Tiriganiaq Open Pit 01 (TIRI01) sump at the Meliadine Gold Mine (spill coordinates: 63 1'27.41"N, 92 12'33.37"W, Figure 1). This follow-up report provides supplemental information based on the results of the incident assessment and is being provided in accordance with:

- Nunavut Water Board 2AM-MEL1631 Water Licence (the Licence), Part H, Item 8c.

**Description of Incident**

On July 12<sup>th</sup>, 2025, at approximately 10:30AM, an Energy & Infrastructure (E&I) Supervisor observed that water from the TIRI01 sump was not discharging into Saline Pond 1 (SP1) as intended. Upon inspection, it was found that the water was exiting the pipeline where it crosses Channel 5 and flowing into Collection Pond 5 (CP5).

The spill occurred within site's contact water management system, and as such, no water bodies were impacted by the spill. The closest water body, Lake A37, is approximately 578 meters southeast of the spill site (see Figure 1).



**Figure 1:** Location of the spill and proximity to waterbodies.

## Response and Remediation

Once the issue was identified, the TIRI01 sump pump was shut down. The inactive pump in CP5, which transfers water to Collection Pond 1 (CP1), was also locked out until water quality could be assessed. No water was pumped from CP5 to CP1 between July 1 and July 12, confirming that no water from TIRI01 reached CP1 during this period.

Water samples were collected from the TIRI01 sump, Channel 5, and CP5 on July 13 (Table 1). Results confirmed that impacts to water quality in CP5 were minor. Consequently, any effect on CP1 and the CP1 discharge stream was assessed to be negligible and well within Total Dissolved Solids (TDS) compliance limits for discharge, as outlined under Part F, Item 4 of the Licence.

**Table 1:** Internal Total Dissolved Solids results from analysis of July 13 grab sample.

Location	Internal Total Dissolved Solid Results (mg/L)
Tiri01 Sump	4,643
Channel 5	3,080
CP5	2,280

Water in the TIRI01 sump showed slightly elevated salinity, consistent with expectations or surface runoff in the pit, attributable to evaporation and pit wall runoff. TDS levels in Channel 5 and CP5 were lower and remained well within the range typical for contact water.

Under the site's Water Management Plan<sup>1</sup>, water from TIRI01 is permitted to be directed to CP5. While routing to SP1 may be performed for operational efficiency and additional treatment via the Reverse Osmosis (RO) Plant when salinity is slightly elevated, this is an internal optimization step and is not a regulatory requirement.

### Root Cause and Corrective Measures

An assessment was conducted soon after the incident to determine the root cause and contributing factors. The assessment concluded with the following:

- The pipeline from TIRI01 to SP1 had been disconnected during maintenance and was not reconnected afterward; water was unintentionally discharged to CP5 instead of SP1.
- Between July 5 and July 12, approximately 5,000 m<sup>3</sup> of water from the TIRI01 sump was discharged to CP5.

The following corrective and preventative actions have been implemented to address the root cause and to reduce the likelihood of recurrence:

- An inspection procedure of the water pipeline network, focusing on flanges and potential leaks following maintenance work, will be drafted before December 2025.






<sup>1</sup> Agnico Eagle, 2025. Water Management Plan. Version 15B. March 2025.



- It will be added in the pipeline inspection procedure to have 2 employees walking the line at the same time from opposite ends to rapidly catch any leaks upon water management plant start up.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



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## **Appendix A – Photos**



**Photo 1:** Spill location.