



AGNICO EAGLE
MELIADINE

SALINE WATER DIFFUSER PROJECT

RANKIN INLET

MELIADINE OVERVIEW

- The Meliadine gold project is Agnico Eagle's second major project in the Kivalliq region of Nunavut, following the Meadowbank mine.
- A 25 kilometer all weather access road (AWAR) links the project with the Rankin Inlet hamlet.
- Agnico Eagle achieves commercial production in May 2019.



WHAT IS THE SALINE WATER DIFFUSER PROJECT?

The Saline Water Diffuser involves a discharge of saline effluent from the Meliadine Mine to the marine environment at Melvin Bay near Rankin Inlet. Based on the **predicted flows** of groundwater into the **underground workings**, we have found that additions to our short and long-term groundwater strategy are required. Therefore, we will be installing a storage tank and building a pipe as well as a diffuser during the summer of 2019 in order to **discharge treated underground water** into Melvin Bay. Some of the groundwater from the Mine will be treated and discharged to Meliadine Lake, but there is too much groundwater for Meliadine Lake alone. This is why we need to discharge water into Melvin Bay.

MAP OF PROJECTS

Location of the Saline Water Diffuser that will discharge water into Melvin Bay



NOTE: YOU CAN FIND A DEFINITION OF WORDS IN BOLD ON LAST PAGE OF THE DOCUMENT.

CONSTRUCTION PHASE

PHASE 1 : EARTHWORK

EARLY JUNE 2019

This first phase consists of retrieving **aggregates** in order to build the basin for the storage tank.

PHASE 2 : INSTALLATION OF STORAGE TANK

JUNE TO JULY 2019

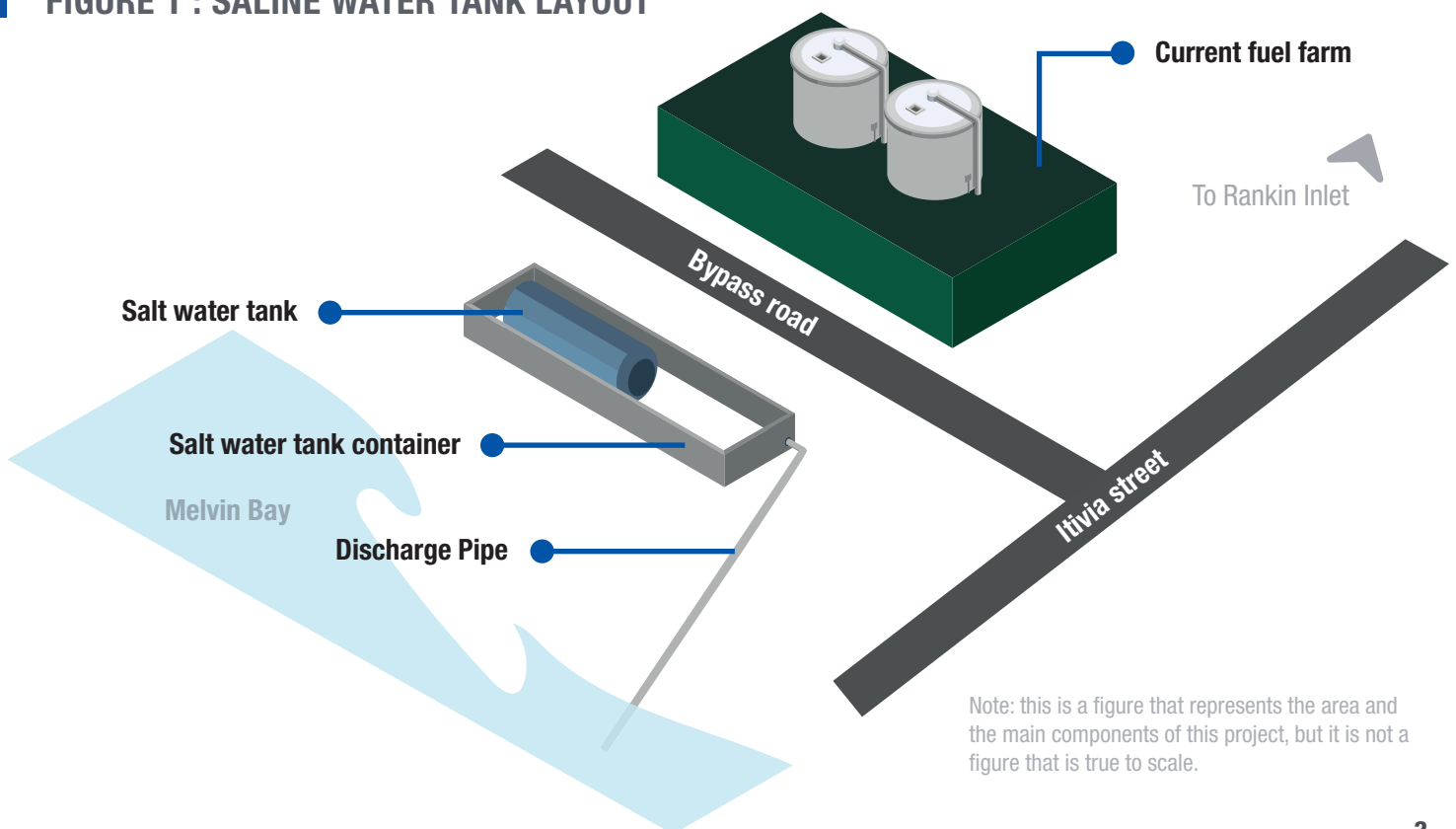
The second construction phase will consist of installing a **prefab** tank as well as the installation of the pumping station that is built in the container.

PHASE 3: ASSEMBLY AND INSTALLATION OF THE PIPE AND DIFFUSER

JULY 2019

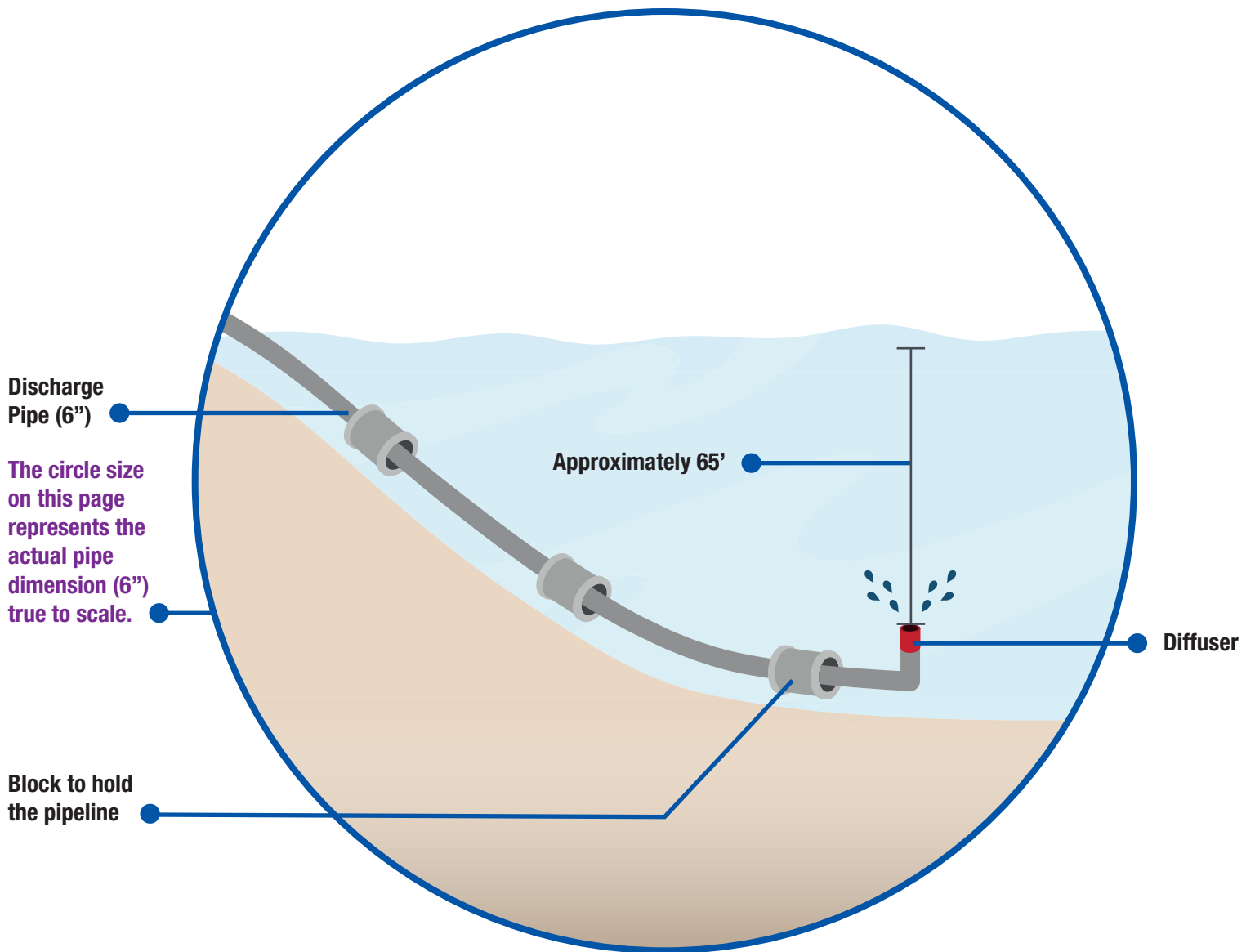
The last phase of construction will consist of assembling the in-water pipe from shore and **ballast weights**. Our team will finish the construction by installing the in-water pipe and diffuser.

FIGURE 1 : SALINE WATER TANK LAYOUT



Note: this is a figure that represents the area and the main components of this project, but it is not a figure that is true to scale.

FIGURE 2 : SALINE WATER DIFFUSER - DISCHARGE INTO MELVIN BAY





IMPORTANT INFORMATION ABOUT THE SALINE WATER DIFFUSER PROJECT

Agnico Eagle Mines Nunavut Operations aims to contribute to the social and economic development of **sustainable** communities associated with our operations. One of the ways in which we do this is through open and transparent communications to communities about the construction projects we are working on.

Here is information to answer questions you may have about our Saline Water **Diffuser** Project.

DID AGNICO EAGLE CONSULT WITH THE LOCAL COMMUNITY AND PUBLIC BEFORE PROCEEDING WITH THE PROJECT?

Yes, public meetings were held in Rankin Inlet during the winter of 2018. Community consultations were also held during the fall of 2018 as part of the Nunavut Impact Review Board (NIRB) process. Some of the feedback we received from the community was incorporated into the design. For example, the portion of the pipe in the **intertidal zone** (the area that is above water at low tide and underwater at high tide) will be removed every fall since the community was concerned that burying the pipe would not be safe enough with the rocks moving due to ice and **tidal action**.

WHAT IS PLANNED TO REDUCE THE POTENTIAL IMPACTS FOR THE COMMUNITY?

As discussed during the public meetings of winter 2018, our team will make sure to responsibly manage the construction work and will take the appropriate measures in order to be mindful of the community.

Here are the actions planned to reduce potential impacts for the community.

Concern	Actions Planned
Noise	<ul style="list-style-type: none"> • Low impact activities are being completed. • The duration of the construction will be short. • It is not expected that the construction noise will impact the community.
Traffic	<ul style="list-style-type: none"> • Bypass road will be used to bring aggregates from Site D to Construction area. • Most of the work will be completed on Agnico Eagle leased property
Health & Safety	<ul style="list-style-type: none"> • Construction area will be restricted to workers to ensure public safety. • Signs located at the entrance of the work site area will be put in place.
Communication	<ul style="list-style-type: none"> • Buoys and signs will be put in place for in-water work. • Short duration of in-water work. • Access to Melvin Bay will not be restricted to local community.

WILL COMMUNITY MEMBERS BE ABLE TO PASS THROUGH THE SITE DURING CONSTRUCTION?

The community members will not be able to pass through the **onshore** construction site, but the sea portion will remain accessible. The community members will be able to launch their boat from the Itivia boat launch and access sea. While at sea, the construction team will not be in the community member's way. We are expecting that approximately 27 days will be needed for the on-shore construction, which includes:

- Approximately 11 days of work for the installation of the pipe;
- Approximately 16 days of waiting time to get the Bay clear of ice.

Once construction will be completed, the Melvin Bay area where the Saline Water Diffuser is, will be accessible for anyone in the community.

Note that the number of days required for the construction are subject to change.

WILL THE WATER QUALITY BE AFFECTED? WILL IT BE MONITORED?

We will sample water prior to discharge and validate against Metal and Diamond Mining Effluent regulation (MDMER). If the water meets the criteria, we will discharge a certain quantity per day as per the approval we received.

Modelling showed that the water will mix within a few meters from the diffuser once it is discharged into Melvin Bay and it will not contaminate the bay.

We will also conduct additional monitoring as per MDMER such as sampling around the diffuser location, biological studies in the receiving environment, etc. The Hunters and Trappers Organization (HTO) will also be involved in the monitoring.

Note that the purpose of the MDMER is to reduce threats to fish and their habitat by improving the management of harmful substances in metal and diamond mining effluent. You can find more information on their regulations by visiting the following website: <https://laws-lois.justice.gc.ca/>

WHERE CAN I GO FOR QUESTIONS OR TO EXPRESS A CONCERN?

You can reach our **community representative** at our Rankin Inlet office at **(867) 645-2920 x4603199** or send them an email at rankininlet@agnicoeagle.com

If you have any concerns, you can do so via our **Nunavut Community Complaints System – Tusaajugut** at tusaajugut@agnicoeagle.com or call us toll-free at **1-844-323-3002**.



GLOSSARY

AGGREGATES

Sand or fine gravel that is used to make concrete

BALLAST WEIGHTS

Any heavy substance placed in such a way as to improve stability and control

DIFFUSER

Something, or a device that distributes a substance

DISCHARGE

To unload, or release something (a substance, liquid, etc.)

EARTHWORK

The operations connected with excavations and backfilling of earth

GROUNDWATER

Water that is underground

INTERTIDAL ZONE

The portion of shore that is submerged during high tide and exposed at low tide

MODELLING

Creation of a 2 or 3D representation of something that exists or will be built later

ONSHORE

On the land instead of at sea

PREFAB

Something that is built in advance in sections in one location, to be shipped and assembled some other place

PREDICTED FLOWS

The quantity, volume of water that is expected

SUSTAINABLE

Capable of being continued for a long time

TIDAL ACTION

The rise and fall of sea levels

TREATED UNDERGROUND WATER

Water that is underground will go through a process that improves the quality of water to make it suitable for a specific use

UNDERGROUND WORKINGS

Any type of work that is being conducted underground