



Wareham Spillway Replacement Project

JUNE 2026 UPDATE

questions and more information

Updates about the Wareham Spillway Replacement Project will be posted at yukonenergy.ca/mayo-spillway.

If you have questions or concerns, please email communications@yec.yk.ca.

The Wareham spillway has reached end-of-life and needs to be urgently replaced. Yukon Energy is also replacing the surge chamber and stabilizing the slope above the Mayo A plant.

These components make up part of the Mayo Hydro Facility, which was commissioned in 1952.



For more information, visit yukonenergy.ca/mayo-spillway



the Wareham spillway

Just upstream of the Wareham Dam, water enters an underground pipe that goes to the Mayo A and Mayo B generators to make electricity. When there is more water than what is needed to generate power, that water flows down the spillway and back into the Mayo River.

DESIGN SELECTION

Starting in 2024, we considered eight different options for replacing the spillway. We decided on an open channel design because it can be built quicker, which reduces risk of more damage to the spillway. It also provides greater cost certainty than the other options considered. As well, an open channel design avoids the risks that come with tunnelling through rock and requires less complex excavation work. Most importantly, the design allows for the new spillway to be built in a way that can pass high volumes of water sooner, even before the project is finished, if needed to reduce the risk of flooding in the Village of Mayo.

ENGAGING THE FIRST NATION OF NA-CHO NYÄK DUN (FNNND) AND REGULATORS

Yukon Energy recognizes FNNND's concerns about fish passage, project timing and the assessment process. Yukon Energy and FNNND have been engaged in discussions related to the relicensing of the Mayo Hydro Facility for the last five years and have been discussing spillway design and opportunities to improve downstream fish passage since late 2023. This work has included assessing spillway geometry, flow depths, plunge pool concepts, fish passage conditions during seasonal spill events, and operational measures that could support fish migration during key periods. Yukon Energy will continue working with FNNND, regulators, governments and the community as this urgent work moves ahead, while considering key concerns. More information about how Yukon Energy is addressing these concerns can be found at yukonenergy.ca/mayo-spillway.

work this season

PLANNED WORK FOR 2026

Pending necessary regulatory approvals

Work at the spillway this year will include:

- site preparation and access improvements;
- excavation, drilling/blasting, rock removal and hauling for new spillway footprint;
- installation of foundations and structural supports; and
- preparation for major concrete work in 2027.

KIEWIT'S ROLE IN THE PROJECT

We have contracted Kiewit to complete the first phase of the Wareham Spillway Replacement Project. Kiewit is currently contracted, through a competitive procurement process, to complete the Mayo slope stabilization and surge chamber upgrade. Since Kiewit is already on-site, contracting them for this work allows them to get started right away, and reduces mobilization costs. Kiewit is also one of a few contractors in Canada qualified to execute the highly specialized work required for this project.

By the end of this summer, Kiewit anticipates there will be 125 workers on-site between the rock slope and spillway replacement projects. Nearly all workers are staying at a camp that has been set up at the Mayo Hydro Facility. The camp was set up and is being run by Summit Camp Services. Camp workers must follow Kiewit's Camp Conduct Policy. They are

only allowed into town for essential services, and the camp is alcohol- and drug-free.

Kiewit has demonstrated a strong commitment to local and First Nations contracting on the slope stabilization and surge chamber project, with an estimated \$8 million awarded to Yukon and/or First Nation of Na-Cho Nyäk Dun-affiliated subcontractors, suppliers and vendors. This includes utilizing Air North to transport employees to the Yukon as well as local caterers, artists, hotels and other services for the project.

For more information about subcontracting opportunities through Kiewit, Mayo residents can visit the Kiewit Corner at Ihdzí' or contact Kiewit at mayo.spillway@kiewit.com.

WHAT TO EXPECT FROM BLASTING

Some of the work at the Wareham Dam will include controlled blasting for the access road and new spillway channel. Kiewit has detailed blasting plans in place, and the work will be managed with public safety in mind.

Blasting is expected to begin in mid-June. It will start at about once per day and could increase to twice per day by early July.

People at the Five Mile Campground and day-use area may hear the blasting. Kiewit will post signs in the area before blasting begins, and notices will be shared with the appropriate organizations.

emergency preparedness

Yukon Energy has a detailed Emergency Preparedness Plan for the Mayo Hydro Facility, including the Mayo Lake Control Structure, Wareham Dam, spillway and related hydroelectric infrastructure. The plan aligns with Canadian Dam Association guidelines and sets out how Yukon Energy would prepare for, respond to and manage water-related emergencies, including extreme flooding, earthquake damage, wildfire damage, severe cold, equipment problems or other events that could affect the safe control of water.

Yukon Energy monitors the facility, completes regular inspections and would increase monitoring if there were high water or other concerns.

In almost all scenarios, signs of a potential issue would be seen well before an emergency, allowing time for public notice and a phased response.

If an emergency were to happen, Yukon Energy would take action at the facility and notify the Government of Yukon. Public alerts, evacuation notices and evacuation instructions would come through the appropriate emergency authorities. Yukon Energy continues to work with the Government of Yukon, the Village of Mayo and the First Nation of Na-Cho Nyäk Dun (FNNND) to test and improve the plan.

HOW EMERGENCY PREPAREDNESS WORKS

Yukon Energy has a plan to monitor the Mayo Hydro Facility, respond to concerns and share information with the Government of Yukon, if needed.

