

SITE C PROJECT CONSTRUCTION

HUDSON'S HOPE SHORELINE PROTECTION

The Hudson's Hope shoreline will be protected prior to the filling of the Site C reservoir. Shoreline protection consists of a granular berm to prevent shoreline erosion and to offset effects of the reservoir on slope stability.

Preliminary geotechnical investigations were completed prior to berm construction to provide information to assist with the design of the berm and components.

Shoreline protection begins at the upstream end of Hudson's Hope and extends approximately 2,650 metres downstream past the current location of the municipal sewage treatment facility.



Construction of the berm was completed in November 2022.

Other activities in the area include:

- Upgrades to D.A. Thomas Road.
- Recreation improvements, including a trail along the berm downstream of the museum area and a recreational site with a small craft launch.
- Extension of the existing brake check on Canyon Drive.

Timeline

2020 to 2023

Protecting the shoreline

The Site C project will create a reservoir, which will change groundwater conditions. When coupled with the effects of shoreline erosion, these conditions are predicted to cause some bank recession in the slopes below the community of Hudson's Hope.

The slopes already experience river erosion at the bottom (toe) of the slope, and ongoing shallow landslides from the mid to upper slopes. Without a berm, the Site C reservoir would affect the stability of the slopes below Hudson's Hope due to increased rates of toe erosion by wind-generated waves and an increase in the likelihood of landslides.

To protect the shoreline from the reservoir's effects on erosion and slope stability, we've built a berm to maintain or improve the stability of the slopes. The potential for future landslides on the mid to upper slopes caused by natural processes will not be eliminated, so development setbacks from the crest of the slope will need to continue.

The shoreline protection will be provided by the 2.6-kilometre berm.



Access and recreation

D.A. Thomas Road, which provides access to the shoreline, will be upgraded to allow construction of a recreational site and provide future public access.

We'll also build and operate a permanent small craft launch at the shoreline protection area at the foot of D.A. Thomas Road. The existing trail travelling west from D.A. Thomas Road, connecting to the existing Portage Trail leading up into Hudson's Hope, will also be reconnected along the berm after construction.

What to expect

- There will be some truck traffic in the Hudson's Hope area as equipment and materials are brought to site.
- There may be noise, vibration, and dust in the vicinity of remaining construction activities.
- Where possible, we'll take steps to reduce the effects of construction activities on Hudson's Hope residents.
- We provided \$150,000 in funding to the District of Hudson's Hope for enhancements to Alwin Holland Park or other community shoreline recreation areas.
- Prior to the beginning of shoreline protection construction activities, we provided opportunities for residents, businesses, and property owners to learn more about construction plans, potential effects on the community, and plans to minimize construction-related impacts.