

## SITE C PROJECT CONSTRUCTION

# North Bank Slope Stabilization

Prior to the start of Site C construction, extensive geotechnical studies were undertaken throughout the project area, including an analysis of slope stability. These studies confirmed that a large excavation on the steep north bank was required to remove unstable materials and flatten the slope for long-term stability.

### Slope Stabilization Activities

As part of Site C construction, work has been underway since the summer of 2015 to remove unstable material on the north bank to create stable slopes for eventual dam construction.

Slope stabilization activities include the construction of access roads and haul roads, excavation of unstable materials and relocation and storage of excavated materials for future use on other areas of the project.

The north bank slope stabilization activities are expected to take about five years to complete. This work includes the removal of approximately nine million cubic metres of material.

### Safety is Priority

As part of the on-going slope stabilization work, BC Hydro and its contractors are aware of the potential for slope movements. In such an event, safety is the number one priority. Qualified professionals — including engineers and other technical experts — are engaged to monitor and assess the situation, and develop a plan for the safe removal of the material.

Flattening the north bank slope is part of BC Hydro's plan to construct and maintain Site C in accordance with international and Canadian safety practices to withstand major events, such as an unlikely extreme earthquake.



Excavation of material, part of the slope stabilization on the north bank of the Site C dam site

### Report of the Joint Review Panel

On May 1, 2014, the Joint Review Panel submitted its report on Site C to the federal and provincial governments, as part of the independent environmental assessment process.

The Joint Review Panel reported: *“NRCan noted that the Proponent had appropriately conducted the slope stability analysis and had established conservative impact lines. NRCan concluded that BC Hydro had adopted current standards and best practices related to slope stability for the Project.”*