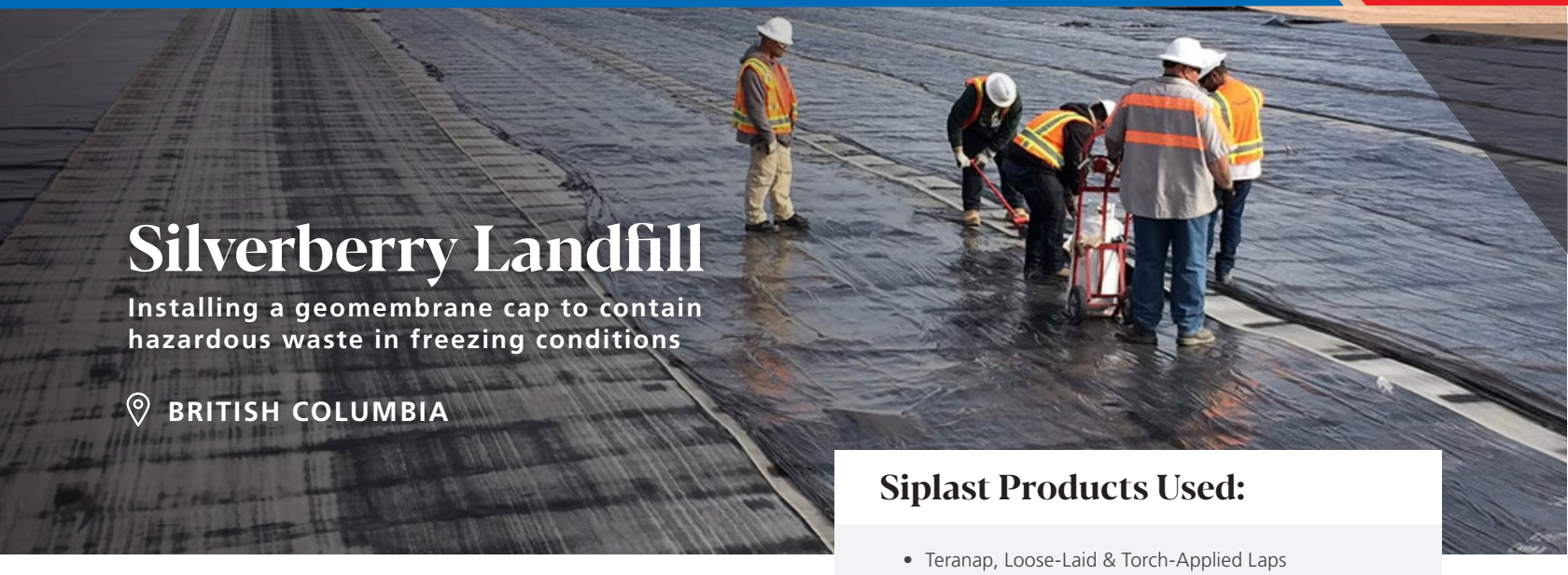

Silverberry Landfill

Installing a geomembrane cap to contain hazardous waste in freezing conditions

BRITISH COLUMBIA

Siplast Products Used:

- Teranap, Loose-Laid & Torch-Applied Laps

Project at a Glance:

Category: Civil Engineering Solutions

Completed: 2014

Type: Mining

Size: 9,139 squares

The Challenge:

The Silverberry Landfill project featured a hazardous waste secure landfill that required a reliable closure cap to reduce leachate infiltration and limit environmental risk. The solution needed to meet strict regulatory standards, perform in subzero temperatures, and be installed quickly—within a tight 37-day window during the middle of winter in northern British Columbia.

The Solution:

Siplast delivered a durable bituminous geomembrane engineered for environmental containment and extreme climate conditions:

- **Engineered for cold-weather performance**
  Teranap 431 was selected for its flexibility and workability in freezing February temperatures, making it ideal for use in challenging winter conditions.
- **UV stability for long-term exposure**
  The membrane offered excellent resistance to UV degradation, providing the durability needed for long-term performance in an exposed landfill cap.
- **Fast installation for regulatory compliance**
  Despite freezing conditions, the system was successfully installed within the project's 37-day deadline, helping the site meet its environmental and operational timelines without compromise.

By using Teranap, the project team completed a high-stakes landfill closure that supports environmental protection and long-term containment—even under the toughest conditions.