



## Case History

### DETAILED DESIGN AND CONSTRUCTION

**SPERLING  
HANSEN  
ASSOCIATES**

#### Design Build Project – Bailey Landfill (Chilliwack) Liner and Groundwater Interceptor

- *Sperling Hansen Associates and Southwest Contracting completed a 1.1 ha (11,000 m<sup>2</sup>) liner installation.*
- *Design challenges included steep slopes (2H:1V) and dealing with groundwater flow behind the liner system.*
- *An HDPE leachate collection system was installed at the toe of the liner.*
- *Double-sided textured HDPE membrane served as the primary barrier layer.*
- *A groundwater interceptor and pore pressure relief drain were used to eliminate head build-up behind the liner.*

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- **Landfill Siting**
- **Landfill Closure**
- **Hydrogeological Investigation**
- **Environmental Monitoring**
- **Design and Operations Plans**