



Details of the berms are presented on Drawing C-13 and C-14 as part of the perimeter tie-in details.

3.9 Final Contours

The final contours (top of waste) are presented in Drawing C-05. The final contours were designed in accordance with the Landfill Criteria, and provide a maximum side slope of 3H:1V (33 percent) and minimum top slope of 10H:1V (10 percent). The top slope should be confirmed during the detail design phase based on the actual waste landfilled to confirm the slope is appropriate for the amount of settlement anticipated. **The top final cover will have a crest elevation of 192 m AMSL, and a peak elevation of 195 m AMSL.**

The final cover ties into the top of the perimeter berm to minimize the potential for leachate seepage from the Landfill. By constructing the perimeter berm and final cover in this manner, the perimeter ditching and maintenance road may be constructed independently of the final cover and therefore effectively manage storm water run-off at the Site during waste placement activities.

3.10 Surface Water Management Works

The surface water management works will be designed and constructed to meet the following criteria:

- Prevent surface water run-on onto the Landfill footprint
- Minimize the potential for erosion of cover soils
- Control surface water flow from the clean soil covers from the Landfill
- Design storm water ditching for the conveyance of 1:100-year, 24-hour storm event
- Include allowances for additional precipitation due to climate change, snow-melt, and multi-day precipitation events.

The surface water management works are described in Section 8.

3.11 Landfill Gas Management Works

The Landfill gas (LFG) management works will be designed to meet the following criteria:

- Soil gas concentrations at the Landfill boundary will not exceed the lower explosive limit of methane
- Combustible gas concentrations in on-site buildings will not exceed 20 percent of the lower explosive limit of methane at any time
- To meet the requirements of LFG Management Regulations and WorkSafeBC requirements
- All federal, provincial and local ambient air quality objectives for LFG emissions

Generally, the LFG management works will include a passive LFG venting system within the Landfill footprint and Landfill site perimeter soil gas monitoring probes. The LFG generation assessment and forecasted management works are described in Section 10.