



Silverstream Landfill

Stage 1 of Silverstream landfill has been in operation for over 30 years and the extended area of the original development (Stage 1A) is due to close early in 2007. The current landfill will be replaced by a new area of landfill development (Stage 2) that will open in late 2007. The landfill extension will be the only landfill in the Wellington Region that complies with the proposed MfE Class A landfill requirements.

The project is notable for the fact that the new landfill area did not require a hearing to obtain resource consent. This was a reflection of the effective consultation process developed with the owner and the commitment of the Hutt City Council ensuring relevant issues of concern to adjoining residents were effectively addressed.

The site for the new landfill is a steep-sided valley, with a depth of over 60 m. To maximise the potential of the site and allow for a cost effective approach to construction over subgrades ranging from soil to hard rock, a range of liner systems is to be used.

Project Data

Owner - Hutt City Council.

Tonkin & Taylor Involvement - Stage 1 airspace optimisation, design of Stage 1 overlay and ultimate airspace envelope options, design and construction management of Stage 1

stormwater upgrade works, borrow source optimisation, development of new operations specification and contract, concept design for Stage 2, geotechnical, seismic and engineering investigations, preparation of preliminary designs, public consultation, consent management, management plan, design of 13 m high sediment retention dam, contract supervision, eastern stormwater and Phase 1 enabling works, detailed design of Phase 2 development, whole-of-life cost estimation and capital budget planning support to Hutt City Council.

Landfill Volume - 9 Mm³.

Footprint Area - 21.3 ha.

Liner - Multiple liner systems based around geocomposites on steep rock slopes, Subtitle D designs on shallow slopes and base.

Waste Input - 115,000 tpa.



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