

Redvale Landfill

Redvale was the first privately owned Landfill to be developed to serve the growing Auckland metropolitan area. The Landfill, located to the north of the city, accepts municipal solid waste from a catchment of over half a million people and containing a large proportion of Auckland's major businesses.

Redvale Landfill is uniquely located in a thick "pod" of very low permeability mudstone and muddy limestone rock. Re-worked site materials are used in conjunction with the natural materials beneath the site to provide a landfill with unsurpassed containment qualities. Redvale Landfill is now a key component of Auckland's regional infrastructure and operates to the highest standards.

Project Data

Owner - Waste Management N.Z. Ltd.

Developer - Waste Management N.Z. Ltd.

Tonkin & Taylor Involvement - Concept design, consents, ongoing engineering and consent services for all phases: 1990-present, consent and infrastructure support services for LFG system.

Landfill Volume - 20 Mm³.

Footprint Area - 58 ha.

Liner - Re-compacted and in-situ mudstone.

Landfill Gas Control - Owner developed extraction, flaring and leachate evaporation systems, featuring 5 MW of installed gas to energy plant, with projected peak output of 15 MW, progressive vertical extraction well development, with supplementary horizontal collectors.

Waste Input - 750,000 tpa approx.

Commenced Filling - 1993.



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