How environmental effects are managed

Should the proposed landfill progress, best practice systems and techniques will be used to mitigate the potential environmental effects.

Air and odour

- Waste from transfer stations will be delivered in large sealed steel bins.
- Only a small area (workface) will be used at any one time to place waste into the landfill.
- Odour neutraliser spraying will be used daily.
- The workface will be fully covered daily with soil so that no waste is left exposed overnight.
- The soil cover will be monitored for fugitive gas and odour emissions.
- Soil and grass will cover (cap) the final landfill.
- Gas extraction wells will be installed as the landfill is filled.

Pests

- The landfill will be covered daily to stop vermin scavenging from the waste.
- Predator control programmes will be put in place.
- Pest bird species looking for food in the waste will be deterred by minimising the amount of exposed refuse.
- A predator control programme and good fencing will restrict movements into the neighbouring reserve.

Litter

- The landfill will be covered daily to prevent wind-blown litter.
- High fences will be designed and constructed specifically to catch litter around the down-wind side of the workface.
- Litter will be collected regularly from specially designed 'litter traps'.

Noise

- Buffer distance and topography play a key role in minimising noise from the landfill operations.
- Heavy machinery will be fitted with mufflers and softer-sounding reversing 'squawkers'.
- The access road for trucks to travel to the landfill will be contained in a separate valley.
- Electricity generation engines will be housed inside buildings or shipping containers and will have substantial mufflers fitted as standard.

Traffic

- A roundabout will provide passage for trucks to enter the site and for SH1 users to safely go past the site entrance.
- No private vehicles will be allowed to bring waste to the landfill.
- A 2km private road will provide access from SH1 to the landfill.
- The private road will be screened from neighbouring properties and SH1.
- 'Mule' trucks will transport full and empty bins between the workface and the Bin Exchange Area, located a short distance off SH1 entrance.

Visibility

- The landfill will be located in a valley where it will be out of sight, apart from a few years prior to completion when the operations at the top of the valley will be visible from a distance.
- Soil stockpile operations will be largely screened by an outer bund to reduce visibility.
- Planted screening bunds will be developed alongside SH1 to reduce visibility and distraction of seeing some of the access road activities.

Water quality and ecology

- Surveys of flora and fauna will be completed before any area is disturbed, regardless whether it's farm, native bush or pine forestry.
- A series of stormwater ponds and wetlands will be formed downstream of the landfill. These will be used to remove sediment from water off roads and soil stockpiles before it flows into the Hoteo River.
- Water quality will be constantly monitored and reported to Auckland Council.
- Substances like fuels and oils will be stored in certified tanks within bunded areas.

Liquid from waste (called leachate)

- The landfill will be constructed with a multi-layered lining system which will be placed on the floor of the valley to prevent any leachate entering the environment (soil or groundwater).
- All leachate will be captured, extracted from the landfill and treated.

Dust

- Water will be sprayed on roads and trafficked areas during dry spells.
- High use roads off the waste pile will be tar sealed.

Stormwater pond, Redvale Landfill and Energy Park

Watercart for dust control, Redvale Landfill and Energy Park

Litter fences control windblown litter, Redvale Landfill and Energy Park.

Acoustic wall for noise control, Redvale Landfill and Energy Park

Odour management, Redvale Landfill and Energy Park

Access control, Redvale Landfill and Energy Park

Leachate lining system to manage liquid from waste, Whitford Landfill

Waste Management

For updates about the proposed Auckland Regional Landfill visit **wastemanagement.co.nz/arl**

Questions? Call **0800 927 837** or email **arl@wastemanagement.co.nz**