

Improved Landfill Management

Landfill Equipment

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Landfill equipment

Tasks:

- Ripping new cells, winning earth cover
- Loading waste and cover
- Hauling waste and cover
- Pushing waste and cover
- Compacting liners and waste
- Grading haul roads
- Shaping stockpiles, batters
- Dust suppression, watering rehab, firefighting

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Landfill equipment

Requires a variety of equipment:

- Bulldozer
- Scraper
- Loader
- Dump truck
- Compactor
- Grader
- Water bowser
- Hook lift, skip lift, fork lift

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Landfill equipment

- Expensive capital items
- Purchase, lease or hire for campaigns
- Often old or second hand
- Range of sizes, effectiveness and suitability
- Often have to compromise on performance
- Issues of serviceability
- Availability, scheduling
- Servicing and maintenance
- Downtime

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Landfill equipment

- Pre-operation checks
- End of shift checks
- Record keeping
- Tyres
- Tracks
- Drivetrain
- Radiator clogging
- Undercarriage
- Air filters

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Landfill equipment

Other equipment may be hired as required:

- Crusher
- Screening
- Conveyor
- Tub grinder
- Chipper
- Backhoe
- Pumps

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Dozer compactor



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Bulldozer



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Landfill compactor operating on face



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Compactors – old and new

- BOMAG BC 1172 RB-2
- Red Hill Waste Management Facility, WA



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Compactors

- TANA H260 (29 tonnes)
- TANA E520 (52 tonnes)



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Compactor

- Caterpillar 836 (57 tonnes)



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Dump truck



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Screen and conveyor



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Tub grinder

- Campaign grinding of stockpiled green waste
- Product with potential for rehabilitation or sale



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Crushed and screened recycled concrete



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Dust suppression on haul road



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