

Activity Summary: SOLID WASTE



Activity Description

What we do

Our solid waste services help make sure that our city is clean and safe. We provide kerbside collection of household rubbish and recyclable material, bulk recycling at the landfill, and Trash Palace. We provide green waste diversion and run waste minimisation programs in the community. We clean up around our city centre and suburban shopping areas by cleaning pavements and emptying our litterbins. We paint murals in areas that are high risk for graffiti and we provide awareness and education to discourage graffiti in the future.

Why we do it

We provide clean and safe villages for our community by:

- Ensuring domestic, commercial and industrial waste is disposed of safely
- Adopting a Regional Waste Management and Minimisation Plan
- Minimising the amount of rubbish making its way into our harbour and catchment areas
- Keeping our city centre and suburban shopping areas clean and graffiti free
- Encouraging waste reduction for our city's future

Supported Strategic Priorities

A healthy and protected harbour and catchment, A growing and prosperous city

Levels of Service

Desired Levels of service

- Ensure adequate, affordable and efficient waste collection and disposal
- Promote effective and efficient waste minimisation
- Keep the city clean and graffiti free, protect the harbour
- Manage Spicer landfill sustainably

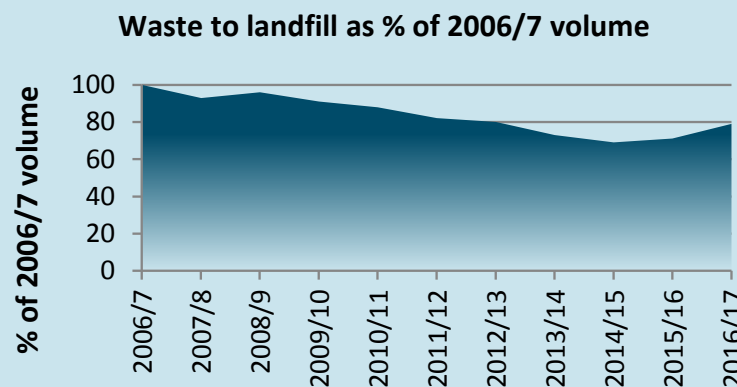
Performance measures

- Resident satisfaction with rubbish and recycling collection, education programs, landfill and city cleaning
- Number of rubbish and recycling collections missed
- Number of schools engaged in waste minimisation activities
- Amount of recycled material recovered
- Compliance with landfill resource consents

Demand

Demand Changes

- As seen in the graph to the right, waste to landfill dropped steadily from 2006/07, levelled off in 2014/16 and has now recovered somewhat.
- The total amount regionally is unlikely to change medium term.
- Recycling tonnages have recovered a little from a low in 2015/16.
- Rubbish bag sales have recovered significantly from a low in 2014/15.



Demand issues

- Waste collectors have 5 landfills in the lower North Island to take their rubbish. The choice depends on relative pricing and transport costs. This can make it hard to predict short term volume trends at our landfill with certainty.
- More private rubbish wheelie bins has probably contributed to the drop in recycling. Improved diversion could have a significant impact on landfill income and life.
- Although rubbish bag sales have recovered and the service is now cost neutral, alternative to rubbish bags may be needed in the long term to overcome health and safety issues

Asset Information

Asset description

Joint venture land includes landfill, borrow area (the area where we get our clean fill from), Botanical Park, Spicer Forest, stormwater, leachate (the underground liquid that seeps out of a landfill over time) and gas systems, Trash Palace, bulk recycling, Poly Palace, kiosk and public transfer station.

Staged landfill upgrades are planned to provide capacity to approximately 2053.

Asset Value

Replacement Cost \$22.5 million
 Depreciated Replacement Cost \$17 million
 Gross value of airspace to 2053 >\$200 million

*Airspace means the potential future volume that a cell can take up before it becomes full, and therefore how much potential income it has.

Asset Condition and Performance

Condition of existing assets is generally good though the limited amount of condition data available has resulted in a Medium risk rating being applied.

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	<i>What are the risks</i>	<i>What are we doing about them</i>
Risk	Resource consent conditions breached	Good operational management and sound planning
	Inability to secure renewal of the consents beyond the expiry date in 2030 resulting in closure	Build constructive relationships with stakeholders
	Severe earthquake or storm affecting the stability of the landfill, or damaging underground network assets	Appropriate design, and contingency and emergency planning
	Professional and contracting services in the solid waste sector is limited and very competitive	Well planned and appropriate use of external expertise

Lifecycle Management Plan	<i>Operating and Maintenance highlights</i>	New initiatives or aspirational change				
		Year 1	Year 2	Year 3	Year 3 and further	
		Rates funded recycling for primary and secondary schools	\$50,000	\$50,000	\$50,000	\$50,000 ongoing
		The Waste Management and Minimisation Plan target of reducing waste to landfill by a third in 10 years will have significant capex and opex costs. Proposed is that business cases be investigated in years 1 to 3 using existing budgets. Options with a net benefit would be put to Council and implemented from year 4.				to be determined once business cases developed
	<i>Significant capital projects</i>	Issue	Response and Project		Cost (\$millions) and timing	
		Current filling cell expected to be filled by January 2022 (potentially earlier depending on filling rate)	Development of new landfill cells, phases 2, 3 and 4		Phase 2: \$3.2m	2022-2031
					Phase 3: \$11.5m	2031-2047
					Phase 4: \$4.1m	2048-2052
		Current resource consent expires in 2030	Apply for new consent and designation change		New consents: \$1.5m	2025-2027

These tables and graphs summarise the total operating and capital expenditure. They are for each year of the LTP (years 1 – 20) and then as 5 yearly averages for year 21-30 of the Infrastructure Strategy. Forecasts are in \$000's, and the base costs are uninflated.

Years	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29
	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000
Operating	9,448	9,489	9,638	9,633	9,644	9,633	9,634	9,638	9,835	9,989	9,995
Growth	152	3,600	77	827	827	122	122	5,483	4,462	123	75
Levels of service	0	0	0	0	0	0	0	0	0	0	0
Renewals	25	25	25	25	25	25	25	25	25	25	1,600

Years	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38-42	43-48
	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000
Operating	10,017	10,034	10,057	10,083	10,108	10,128	10,158	10,184	10,215	10,115	10,115
Growth	75	76	76	76	76	76	76	76	123	2,600	67
Levels of service	0	0	0	0	0	0	0	0	0	0	0
Renewals	25	25	25	25	25	25	25	25	25	25	25

