

**Long Term Plan 2018 –
2028
Solid Waste
Council Briefing
13 June 2017**



Discussion

- Solid Waste's contribution to LTP Outcomes
- Activity Overview
- AMP and WMMP relationship
- WMMP vision and goals
- Draft 2018 WMMP objectives and targets
- Current and proposed AMP LOS and targets
- Key WMMP challenges and AMP issues
- Current performance
- Meeting waste reduction targets
- Current and proposed operational expenditure
- Proposed projects and capital expenditure
- Financial summary
- Summing up – key issues for consultation
- Council direction requested

Solid Waste's contribution to LTP Outcomes

| Outcome | Solid Waste's contribution to the Outcome | Level |
|---------------------------------------|--|---------------|
| Easy and safe to move around | Solid waste's contribution is minimal | |
| Growing, resilient economy | Solid waste's contribution is minimal; ensuring the activities of the department are provided to support economic activity | |
| Clean, healthy and valued environment | Reliable collection and cleaning minimise the effects on the physical environment from pollution, and with recycling, avoids excess wastage to landfill | High |
| Vibrant and healthy communities | A clean environment contributes to city pride and well being of its residents and visitors | Medium |
| Well managed growth | Growth is supported through appropriate planning mechanisms to ensure the provision of sufficient solid waste collection, disposal and recycling systems for the existing and growth communities | Medium |

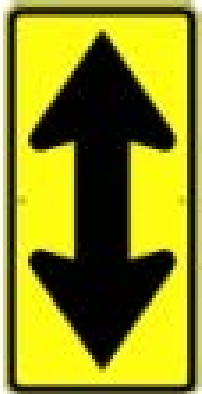
Activity Overview – Assets and Services

| Asset/ Service | Description |
|--------------------------------------|---|
| 8 Rural Transfer Stations | Hikurangi, Kokopu, Uretiti, Tauraroa and Ngunguru, Oakura, Ruatangata and Parua Bay |
| Weekly roadside refuse collection | Approx. 95% of households including rural areas User pays bags and stickers Comingled with NWL bins |
| Weekly roadside recycling collection | Same coverage as above. Approx. 35k small crates- 1 per property |
| Litter control | Approx. 500 bins serviced regularly Illegal dumping and roadside clean-ups |
| 4 closed landfills | Management and monitoring of closed landfills at Pohe Island, Ruatangata, Tauraroa and Hikurangi |
| Re:Sort Centre | Owned and operated by NRLLP Extensive diversion services, green waste, recycling, shop Hazardous waste collection |
| Puvera landfill | Owned and operated by NRLLP Serving Northland and northern Auckland Bulk haul only |

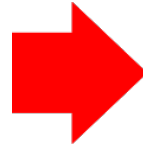


AMP and WMMP relationship

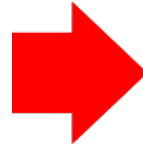
- Waste Assessment
- Waste Management & Minimisation Plan



Strong linkages between these documents



Purpose: To encourage waste minimisation and a decrease in waste disposal in order to protect the environment from harm, and provide environmental, social, economic and cultural benefits.

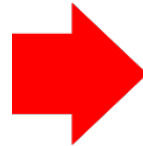


- Shared Vision, goals.
- Shared waste minimisation targets
- Shared demand management strategy

Solid Waste Activity Management Plan 2018



Long Term Plan



Provides a desired level of service in the most cost-effective manner, while demonstrating responsible stewardship in meeting community expectations for present & future customers

WMMP requirements

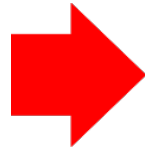
The Waste Minimisation Act 2008



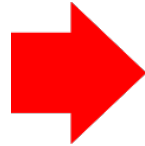
- Council must prepare
- **Waste Assessment**
 - **Waste Management & Minimisation Plan**



NZ Waste Strategy 2010
Government's long-term priorities for waste management & minimisation



Purpose: To encourage waste minimisation and a decrease in waste disposal in order to protect the environment from harm, and provide environmental, social, economic and cultural benefits.



Purpose: Outlines how future policies, services and facilities will be provided to manage the district's waste, and to minimise the quantities requiring disposal while making best use of council's resources and fostering sustainability.



Goals:

- Reduce harmful effects of waste
- Improve the efficiency of resource use.

WMMP Vision

WMMP Vision 2012

Whangarei District will be provided with efficient, effective and safe solid waste services which reduce the quantity of waste we generate and discard, protect public health and provide environmental, social, economic and cultural benefits

DRAFT WMMP Vision 2018

To deliver community benefits and reduce waste Whangarei businesses and households will be provided with efficient and effective waste minimisation and management services



WMMP Goals

WMMP Goals 2012

- ✓ *Protect public health from the potential harmful effects of waste*
- ✓ *Minimise environmental harm by minimising the adverse effects arising from waste generation, collection, diversion and disposal*
- ✓ *Use material resources more efficiently to improve sustainability and productivity, and to reduce waste and associated costs*

DRAFT WMMP Goals 2018

- ✓ *Avoid and reduce waste where we can.*
- ✓ *Manage waste responsibly - make it easy to recycle and safely dispose of the materials that can't be recycled.*
- ✓ *Maximise community benefits - employment, multi-use facilities, cost effective services.*



Draft 2018 WMMP Objectives and Targets

| Objective | Target(s) |
|---|---|
| 1. To avoid creating waste | <p>To maintain or reduce the total quantity of waste generated (refuse and recycling)</p> <p><i>Waste generation < 800 kg per person each year</i></p> |
| 2. To make it easy to recycle | <p>To increase in the roadside collection of material captured for recycling. The current figures are 25% and 44% respectively.</p> <p><i>Kerbside recycling > 35% by 2020</i></p> <p><i>Recycling at Refuse Transfer stations > 50% by 2020</i></p> <p>95% of people are satisfied with their recycling service. 2015/16 (Currently 95% satisfaction vs Annual Plan Target 85%).</p> <p><i>Residents satisfaction > 85%</i></p> |
| 3. To ensure households and businesses have access to safe disposal of residual waste | <p>Satisfaction with roadside refuse and transfer station services. Currently 95% satisfaction vs Annual Plan Target 85%.</p> <p><i>Residents satisfaction > 85%</i></p> |

Draft 2018 WMMP Objectives and Targets contd..

| Objective | Target(s) |
|--|--|
| <p>4. To create opportunities for Whangarei District - jobs, new products, more efficient businesses</p> | <p>To publish a summary of available data on waste generation and management with each annual report.</p> <p><i>Summary data published in Annual Report</i></p> <p><i>To create a grant scheme to support new initiatives to reduce waste</i></p> |
| <p>5. To reduce illegal dumping</p> | <p>Reduction in illegal dumping incidents and quantity of material illegally dumped in the Whangarei District. Quantity of illegally dumped waste < 2015/16 figure</p> <p>Residents satisfaction with litter and illegal dumping. Currently 87% satisfaction vs Annual Plan Target 75%.</p> <p><i>Residents satisfaction > 75%</i></p> |
| <p>6. To improve community understanding of issues and opportunities for waste management in the Whangarei District.</p> | <p><i>Schools programmes delivered by Council - Five new schools adopt Waste Wise Schools programme each year.</i></p> <p><i>WDC (or contractors) promote waste minimisation at events in the District.</i></p> |

Current AMP LOS and Targets

| LOS | Performance Measure | Target | Achieved 2016 |
|--|--|--------|---------------|
| Council will provide roadside refuse and recycling collection services to all properties in the district and transfer stations will be operated throughout the district. | Customer satisfaction with solid waste collection and recycling services and transfer stations (excluding don't knows) | 85% | 95% |
| Council will foster waste minimisation by supporting recycling and waste reduction practices so that a continued reduction in refuse sent to landfill occurs. | Reduce tonnes from within council boundaries to landfill per year | ≤2% | +6%* |
| | Tonnage collected by roadside recycling and at transfer stations will increase | ≥2% | +13% |
| Council will provide and empty public rubbish bins and undertake litter control throughout public places in the district | Satisfaction with litter control | 75% | 87% |

Proposed AMP LOS and Targets

| LOS | Performance Measure | Target | Achieved 2016 |
|--|--|-----------|---------------|
| Council will provide roadside refuse and recycling collection services to all properties in the district and transfer stations will be operated throughout the district. | Customer satisfaction with solid waste collection and recycling services and transfer stations (excluding don't knows) | 85% | 95% |
| Council will foster waste minimisation by supporting recycling and waste reduction practices. | We will maintain waste generation (refuse and recycling) at the given level per year per person in Whangarei | < 800 kg* | NEW |
| | We will recycle at least the given percentage or material collected at the roadside. | ≥ 35%* | NEW |
| | We will recover at least the given percentage of waste taken to transfer stations in Whangarei. | >50%* | NEW |
| Council will provide and empty public rubbish bins and undertake litter control throughout public places in the district | Customer satisfaction with litter control | 75% | 87% |

* Waste minimisation and recycling rates are subject to agreement with JV partner and the procurement process/ negotiation for the roadside collection and transfer station operations.



Key WMMP Challenges

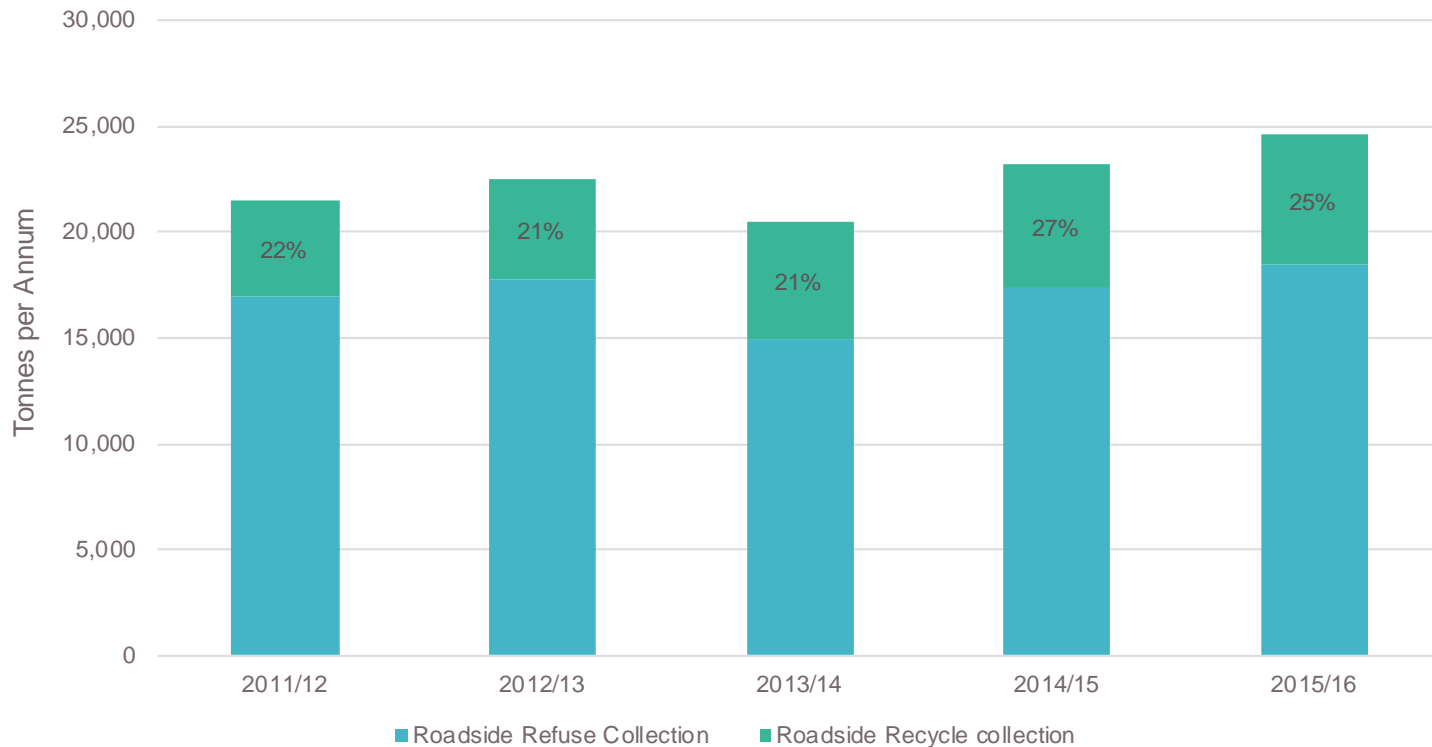
- Achieving waste management performance targets through the partnership and contracts
- Maintaining market share to ensure long term security and affordability for all ratepayers
- Rising disposal costs – ETS surrenders, Waste Levy
- Recyclables commodity prices
- Beneficial reuse of biosolids
- Increasing organic waste capture and reuse
- Managing fairness across the district
- Managing negative effects – fly tipping

Key AMP Issues

- Ongoing monitoring and management of Pohe Island Closed Landfill – operational costs
- Maintaining beneficial outcomes for the Whangarei District through the partnership for Puwera and Re:Sort
- Optimising services for rural communities (rural transfer stations vs rural collections)
- Review longer term options for RTS sites – e.g. Uretiti site on DOC land; long term disposal of green waste to land
- Optimising litter bins and locations

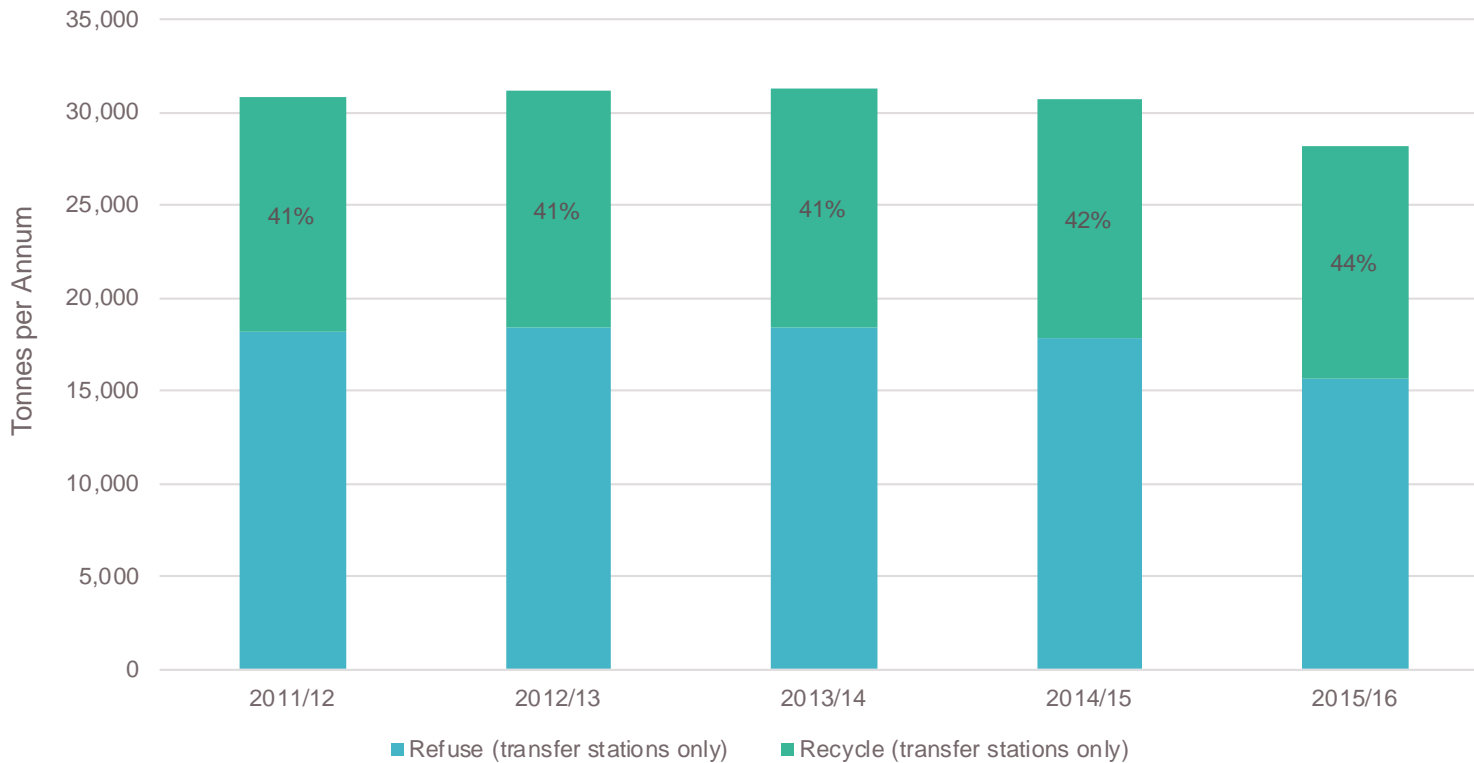
Performance - Waste Generation and Diversion – WDC Roadside

Waste Generated and Diverted – WDC Roadside



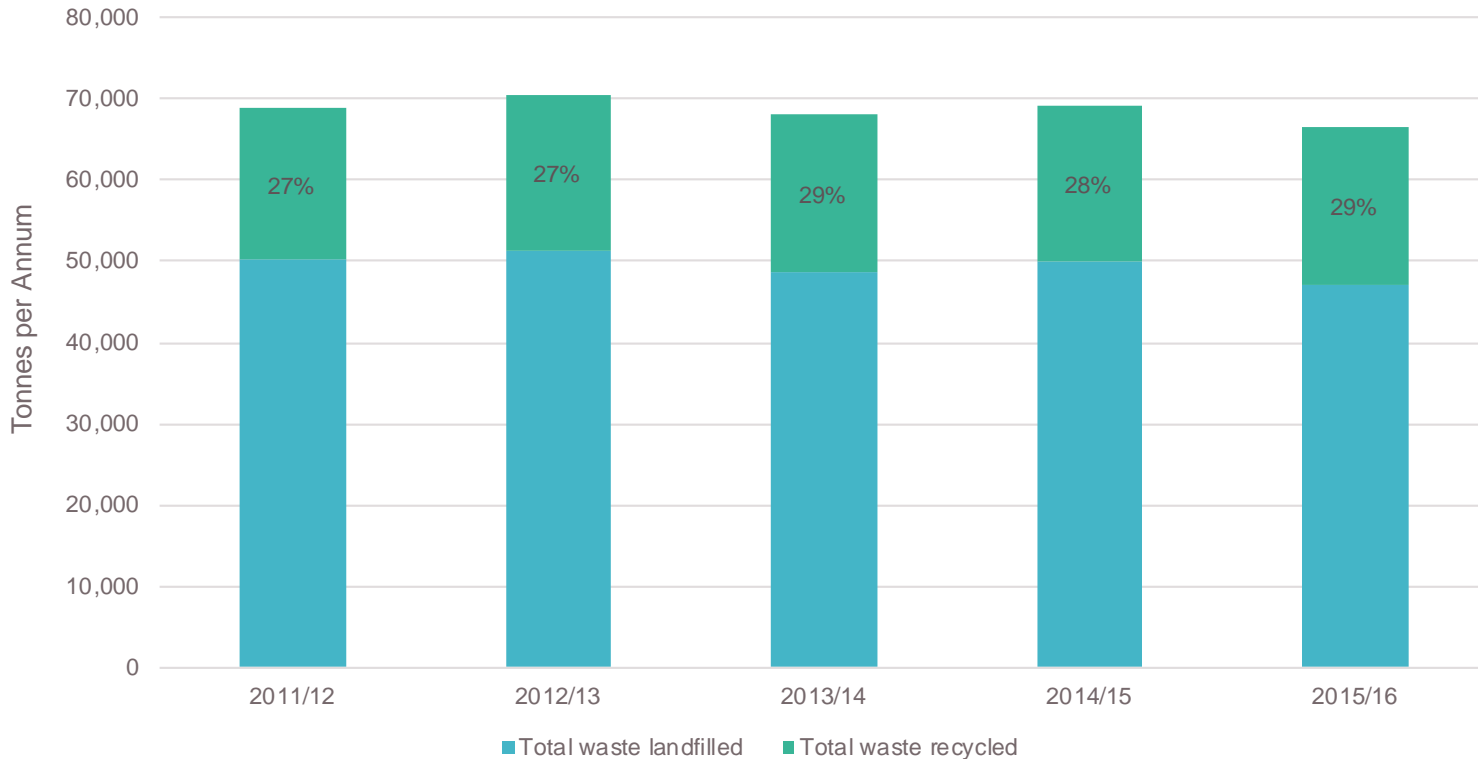
Performance - Waste Generation and Diversion – Transfer Stations

Waste Generated and Diverted - Transfer Stations



Performance - Waste Generation and Diversion – Big Picture

Whangarei District Waste Generation and Diversion



How we will meet our waste reduction targets

- ✓ Continue to use “user pays” bags and stickers for roadside refuse collection
- ✓ Continue to use a mix of “user pays” and rates funding for rural transfer stations
- ✓ Double recycling capacity – replace crates with 240 litre wheelie bins (fortnightly collection)
- ✓ Investigate and put into place improved organic waste collection e.g. green waste diversion at RTS’s
- ✓ Investigate and optimise services for bulky household waste
- ✓ Investigate options to reduce commercial, industrial, demolitions and construction waste going directly to landfill
- ✓ Work with community to solve litter and litter bin issues



How we will meet our waste reduction targets

Contd...

- ✓ Ensure high quality data is continuously gathered and improved upon so it may be used for reducing waste and communication/ education (incl. implement bylaw)
- ✓ Initiate a grant scheme to encourage waste minimisation initiatives
- ✓ Improved school education programme – “Resource Wise Schools” and school support delivered by EcoSolutions
- ✓ Provide waste minimisation facilities and education at events
- ✓ Provide funding for waste minimisation initiatives



Current Operational Expenditure and Revenue

| Expense | Cost | Revenue | Difference (targeted rate) |
|----------------------------------|------------------------|--------------------------|----------------------------|
| Landfill Care Expenses | \$ 50,000.00 | | \$ 50,000.00 |
| Litter Control | \$ 600,000.00 | (\$ 21,000.00) | \$ 579,000.00 |
| Recycling and Waste Minimisation | \$ 1,100,000.00 | | \$ 1,100,000.00 |
| Debt and Depreciation | \$ 1,200,000.00 | | \$ 1,200,000.00 |
| Transfer Station Operations | \$ 1,400,000.00 | (\$ 400,000.00) | \$ 1,000,000.00 |
| Overheads | \$ 1,450,000.00 | | \$ 1,450,000.00 |
| Refuse Collection and Disposal | \$ 2,300,000.00 | (\$ 2,200,000.00) | \$ 100,000.00 |
| Total | \$ 8,100,000.00 | (\$ 2,621,000.00) | \$ 5,479,000.00 |



Proposed Operational Expenditure and Revenue

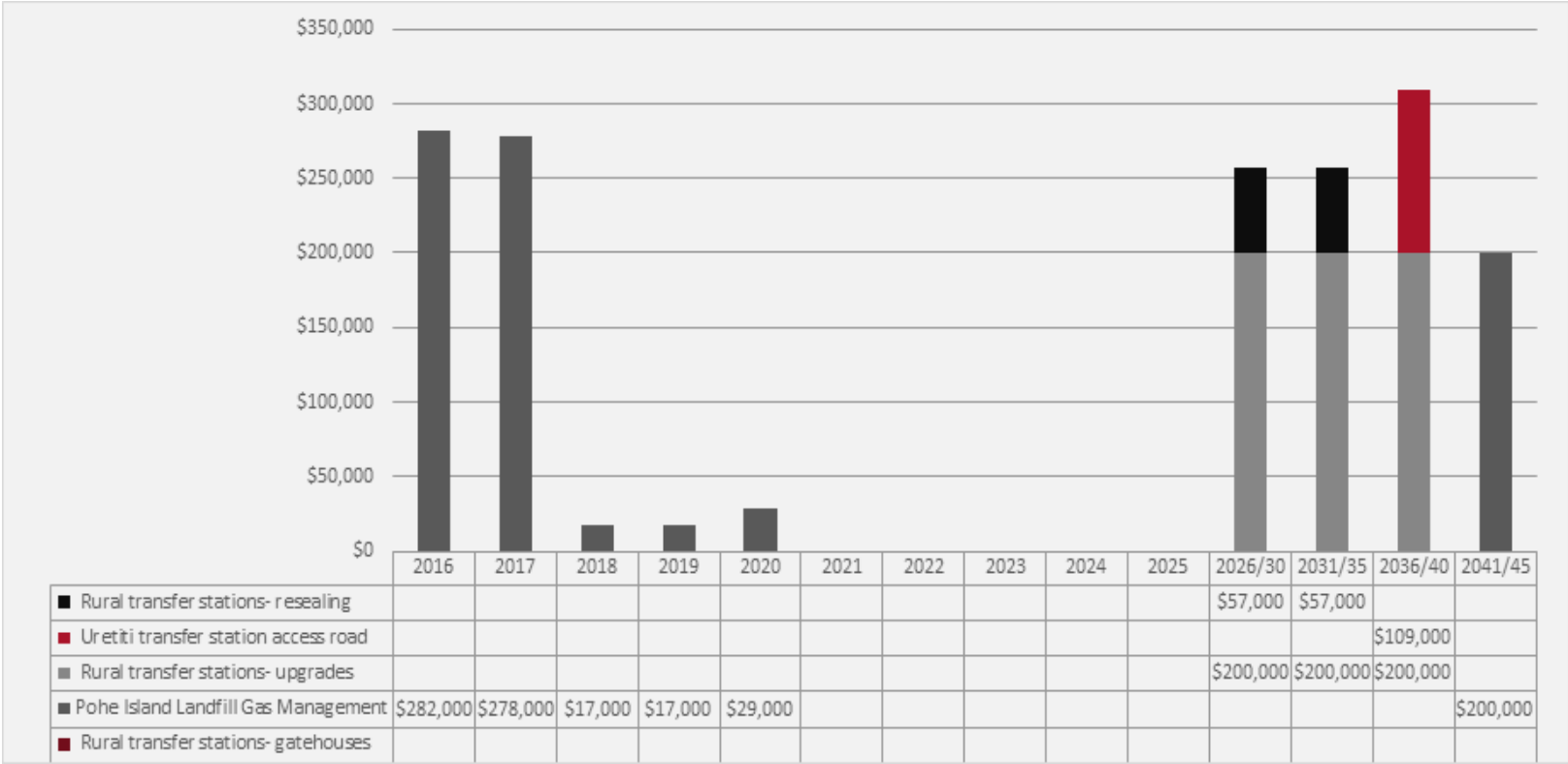
| Expense | Cost | Revenue | Difference (targeted rate) |
|-----------------------------------|------------------------|--------------------------|-------------------------------|
| Landfill Care Expenses | \$ 50,000.00 | | \$ 50,000.00 |
| Litter Control | \$ 600,000.00 | (\$ 50,000.00) | \$ 550,000.00 |
| Recycling and Waste Minimisation* | \$ 2,100,000.00 | | \$ 2,100,000.00 |
| Debt and Depreciation | \$ 1,200,000.00 | | \$ 1,200,000.00 |
| Transfer Station Operations | \$ 1,400,000.00 | (\$ 500,000.00) | \$ 900,000.00 |
| Overheads | \$ 1,450,000.00 | | \$ 1,450,000.00 |
| Refuse Collection and Disposal | \$ 2,300,000.00 | (\$ 2,300,000.00) | \$ 0.00 |
| Total | \$ 9,100,000.00 | (\$ 2,850,000.00) | \$ 6,250,000.00 |

**Recycling and waste minimisation cost is assumed to include the provision of wheelie bins, but this could be managed differently (Council to own bins)*



Capital expenditure

2015 Capex programme



Capex and Opex programme changes/ New projects

- Roadside recycling change to 240 Litre recycling bins:
 - option for Council to own the wheelie bins (Capex) or as assumed above to be for full service contract (Opex)
 - approx. cost increase in targeted rate \$21 to \$27 per annum
 - consider how cost may be offset by decreased refuse disposal costs
- Pohe Island managed under Activity Management Plan rather than infrastructure solution (now Opex)
- Parua Bay Transfer station– current location may not be long term solution (Capex/ Opex)
- Green waste provision at all larger rural transfer stations (Capex/ Opex)



Potential Long Term Projects

- Review services and location for all rural transfer stations (next three years) and implementation of the outcome (five to ten years)
- Review and consider change to wheelie bin service for roadside collections

Funding Policy

- ✓ Continue to use “user pays” bags and stickers for roadside refuse collection
- ✓ Continue to use a mix of “user pays” and targeted rates funding for rural transfer stations
- ✓ Continue to fund roadside recycling through targeted rate



Financial Summary

| Revenue | 10 year total | Expenditure | 10 year total |
|--------------|----------------|-------------|----------------|
| Revenue | \$94.5M | OPEX | \$91.0M |
| | | CAPEX | \$3.5M |
| Total | \$94.5M | | \$94.5M |

**Capex forecast is based on existing previous LTP and is to be updated*



Summing up – key issues for Consultation

- Change to recycling service
- WMMP vision, goals and objectives (drive AMP/ LTP funding)
- Achieving new waste minimisation and LOS targets
- Increasing organic waste capture and reuse
- Optimising services for rural communities (rural transfer stations vs rural collections)
- Managing fairness across the district
- Managing negative effects – fly tipping
- Optimising litter bins and locations
- No change to funding policies



Council direction requested

- Consideration of proposed new level of service measures.
- Consideration of change to recycling service.
- Confirmation of proposed funding policy.