



AGENDA

Infrastructure Committee Meeting Tuesday, 13 February 2024

Date Tuesday, 13 February 2024

Time Following Environmental Services Committee

Location Council Chamber
Timaru District Council Building
2 King George Place
Timaru

File Reference 1650126

Timaru District Council

Notice is hereby given that a meeting of the Infrastructure Committee will be held in the Council Chamber, Timaru District Council Building, 2 King George Place, Timaru, on Tuesday 13 February 2024, at the conclusion of the Environmental Services Committee meeting.

Infrastructure Committee Members

Clrs Sally Parker (Chairperson), Gavin Oliver (Deputy Chairperson), Stu Piddington, Peter Burt, Owen Jackson, Allan Booth, Stacey Scott, Michelle Pye, Scott Shannon and Mayor Nigel Bowen

Quorum – no less than 5 members

Local Authorities (Members' Interests) Act 1968

Committee members are reminded that if you have a pecuniary interest in any item on the agenda, then you must declare this interest and refrain from discussing or voting on this item, and are advised to withdraw from the meeting table.

Andrew Dixon
Group Manager Infrastructure

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- 1 Apologies**
- 2 Public Forum**
- 3 Identification of Items of Urgent Business**
- 4 Identification of Matters of a Minor Nature**
- 5 Declaration of Conflicts of Interest**
- 6 Chairperson's Report**

7 Confirmation of Minutes

7.1 Minutes of the Infrastructure Committee Meeting held on 14 November 2023

Author: Jessica Kavanaugh, Team Leader Governance

Recommendation

That the Minutes of the Infrastructure Committee Meeting held on 14 November 2023 be confirmed as a true and correct record of that meeting and that the Chairperson's electronic signature be attached.

Attachments

- 1. Minutes of the Infrastructure Committee Meeting held on 14 November 2023**



MINUTES

Infrastructure Committee Meeting Tuesday, 14 November 2023

Ref: 1650126

**Minutes of Timaru District Council
Infrastructure Committee Meeting
Held in the Council Chamber, Timaru District Council Building, 2 King George Place, Timaru
on Tuesday, 14 November 2023 Following Environmental Services Committee**

Present: Clrs Sally Parker (Chairperson), Gavin Oliver (Deputy Chairperson), Mayor Nigel Bowen, Stu Piddington, Peter Burt, Owen Jackson, Allan Booth, Stacey Scott, Michelle Pye, Scott Shannon (via zoom)

In Attendance: **Community Board:** Michael Thomas (Pleasant Point Community Board, Gaye Broker (Temuka Community Board), Rosie Woods (Geraldine Community Board)

Officers: Bede Carran (Chief Executive), Jayson Ellis (Acting Group Manager Environmental Services), Paul Cooper (Acting Group Manager Commercial and Strategy), Beth Stewart (Group Manager Community Services), Andrew Dixon (Group Manager Infrastructure), Stephen Doran (Communications Manager), Nicole Timney (Manager of Property Services and Client Representative), Maddison Gourlay (Marketing and Communications Advisor), Troy Titheridge (Development Liaison Officer), Daniel Naude (Road Safety Coordinator) Bill Steans (Parks Manager), Adam Ward (Road Network Team Leader), Suzy Ratahi (Land Transport Manager), Lucy Mehrtens (Road Safety Coordinator), Rosie Oliver (Development Manager), Katie Ryan (Transport Community Engagement Advisor), Jessica Kavanaugh (Corporate Planner), Rachel Scarlet (Governance Advisor)

1 Apologies

No apologies were received.

2 Identification of Items of Urgent Business

2.1 Consideration of Public Excluded Report

Resolution 2023/27

Moved: Clr Sally Parker

Seconded: Clr Stu Piddington

Clr Stu Piddington asked to consider the report on the Pareora Dam be removed from public excluded, which will be discussed at point 9.

Carried

3 Identification of Matters of a Minor Nature

- Clr Allan Booth requested an update on the State Highway 1 from Ashbury to the Showgrounds.

4 Declaration of Conflicts of Interest

No conflicts of interest were declared.

5 Chairperson's Report

5.1 Presentation of Chairperson's Report

Resolution 2023/28

Moved: Clr Sally Parker

Seconded: Clr Gavin Oliver

The Chairperson has attended a number of meetings including; Tenders and Procurement Meetings, Workshops, Citizenship Ceremony, Council Meeting, City Town Steering Group Meeting, Meeting with Mayor Nigel Bowen, Meeting with Group Manager Infrastructure, Aorangi Stadium Trust Meeting.

Carried

6 Confirmation of Minutes

6.1 Minutes of the Infrastructure Committee Meeting held on 5 September 2023

Resolution 2023/29

Moved: Clr Owen Jackson

Seconded: Mayor Nigel Bowen

That the Minutes of the Infrastructure Committee Meeting held on 5 September 2023 be confirmed as a true and correct record of that meeting and that the Chairperson's electronic signature be attached.

Carried

7 Reports

7.1 Actions Register Update

The Chairperson spoke to the report to provide the Infrastructure Committee with an update on the status of the action requests raised by councillors at previous Infrastructure Committee meetings.

The committee agreed to close;

- Action one – Section of Local Government Act and Road Naming Policy
- Action two – Waka Kotahi Information
- Action five – Seal Extension Policy as this will be part of the Long Term Plan
- Action six – CityTown Steering Group

- Action seven – Pareora Dam update

There was discussion on the Peel Forest Landfill update, State of the Highways and Waka Kotahi's update.

Resolution 2023/30

Moved: Clr Stacey Scott

Seconded: Clr Allan Booth

That the Infrastructure Committee receives and notes the updates to the Actions Register.

Carried

7.2 Gladstone Road Stopping

The Land Transport Manager spoke to the report to seek the Timaru District Council (TDC) Infrastructure Committee support for the initiation of a road-stopping process under the Local Government Act 1974 for the stopping of a defined unformed portion of Gladstone Road, Timaru.

Discussion included the owner of the land initiated this and the owner is liable for costs associated, the other directly affected land owner has indicated support for this road stopping.

Resolution 2023/31

Moved: Clr Michelle Pye

Seconded: Mayor Nigel Bowen

That the Infrastructure Committee endorses the road stopping proposal and initiation of the road stopping process for an unformed part of Gladstone Road, in accordance with Sections 342 and Schedule 10 of the Local Government Act 1974.

Carried

7.3 Adoption of Interim Speed Management Plan for submission to Waka Kotahi

The Land Transport Manager spoke to the report to provide an update on feedback from the community on the recent public engagement on the interim speed management plan and endorse the plan for submission to Waka Kotahi. This endorsement of an interim speed management plan will meet the legislative requirements under the Land Transport Rule: Setting of Speed Limits 2022.

The committee discussed concerns from Geraldine residents regarding State Highway 79. Determination between fixed and variable speed restrictions was based on traffic volumes and how the network should operate.

The Committee suggested that the restriction should be extended to the full length of Mountainview High School boundary. It is clarified there are currently warning lights around schools but no speed restrictions apart from Timaru South School. There is discussion around the speed restrictions in Temuka. The Committee also suggested that Temuka Primary School needs to be amended to include Wilkin Street. The Winchester speed restrictions proposal and the effect of this.

There is a clarification that the cost of this project sits with the approved funding from the Road to Zero. The committee highlighted that there might be some confusion with the public regarding

different speed limits in different areas. The background data and customer request information that has been collected to provide an evidence base.

Resolution 2023/32

Moved: Clr Owen Jackson

Seconded: Clr Gavin Oliver

That the Infrastructure Committee endorse the Timaru District Council Speed Management Plan for submission to Waka Kotahi for approval

In Favour: Clrs Sally Parker, Gavin Oliver, Nigel Bowen, Stu Piddington, Peter Burt, Owen Jackson, Stacey Scott, Michelle Pye and Scott Shannon

Against: Clr Allan Booth

Carried 9/1

7.4 Infrastructure Key Project Updates for Second Quarter 2023/24

The Chairperson spoke to the report to update the Committee on the progress of Key Infrastructure Projects.

Discussion included the progress of the road renewal programme of which a lot of the large-scale projects have been started. The cost of Traffic Management within the contracts held and a request for detailed analysis on this. Redruth Landfill gas flare and requirement to upgrade the power transformer. South Stafford Street regarding the green spaces, it is confirmed the driver of this is the Theatre Royal and Heritage Hub and the Infrastructure required at South Stafford Street. It is requested to provide how much has been spent to date on the CityTown projects.

Resolution 2023/33

Moved: Clr Sally Parker

Seconded: Clr Michelle Pye

That the Committee receives and notes the Progress Reports for Key Infrastructure Projects.

Carried

7.5 Upgrade of Kowhai Stream Road Crossing, Blandswood Road

The Land Transport Manager and Road Network Team Leader spoke to the report to provide options for upgrading the Kowhai Stream Crossing on Blandswood Road, Peel Forest, and endorse a preferred option.

The Committee discussed the flow of the stream and the resident's concerns. The global consent allows for the upgrading of river crossings. Possibility of private/public funding for this upgrade the level of service this would provide, and the option of a targeted rate for this project.

It is suggested to have a District-wide Policy similar to the Seal Extension Policy.

Resolution 2023/34

Moved: Clr Allan Booth

Seconded: Clr Owen Jackson

That the Infrastructure Committee agree to continue to maintain the existing gravel ford in the order of \$6000.

In Favour: Clrs Sally Parker, Nigel Bowen, Stu Piddington, Peter Burt, Owen Jackson, Allan Booth, Stacey Scott, Michelle Pye and Scott Shannon

Against: Clr Gavin Oliver

Carried 9/1

8 Consideration of Urgent Business Items

- Clr Stu Piddington added that the public should know how the decision came about. The Group Manager Infrastructure added that the reason this report is in public excluded due to the public excluded Audit and Risk report being attached.

9 Consideration of Minor Nature Matters

- Update on State Highway 1 requested by Clr Allan Booth. The Group Manager Infrastructure provided an update and advised there are some water issues and some soft spots which was covered in the media release.

10 Exclusion of the Public

Recommendation

That the public be excluded from the following parts of the proceedings of this meeting on the grounds under section 48 of the Local Government Official Information and Meetings Act 1987 as follows:

General subject of each matter to be considered	Reason for passing this resolution in relation to each matter	Plain English Reason
11.1 - Pareora Dam Update	s7(2)(a) - The withholding of the information is necessary to protect the privacy of natural persons, including that of deceased natural persons	To protect a person's privacy, including the privacy of deceased persons

Motion not moved

Motion Lost

11.1 Release of Pareora Dam Report

Resolution 2023/35

Moved: Mayor Nigel Bowen

Seconded: Clr Michelle Pye

The report Pareora Dam Update be heard in public and the report be released to the public, with the Audit and Risk Committees report remain in Public Excluded.

Carried

11 Public Excluded Reports

11.2 Pareroa Dam Update

The Group Manager Infrastructure and Parks Manager spoke to the report to update the Infrastructure Committee on the status of the Pareora Dam.

Discussion included the size of the dam and whether the new regulations will impact the dam, which requires undertaking an assessment of the dam. The importance of the signage being checked regularly including monitoring for deterioration of the dam.

Resolution 2023/36

Moved: Clr Allan Booth

Seconded: Mayor Nigel Bowen

That the Infrastructure Committee endorse the option to leave the historical Pareora Dam structure in place, continue to monitor dam condition, and ensure that hazard signage is in good condition and visible to mitigate public risk.

In Favour: Clrs Sally Parker, Gavin Oliver, Nigel Bowen, Peter Burt, Owen Jackson, Allan Booth, Stacey Scott, Michelle Pye and Scott Shannon

Against: Clr Stu Piddington

Carried 9/1

The Meeting closed at 1.10 pm.

.....
Clr Sally Parker
Chairperson

8 Reports

8.1 Actions Register Update

Author: Rachel Scarlett, Governance Advisor

Authoriser: Paul Cooper, Acting Group Manager Commercial and Strategy

Recommendation

That the Infrastructure Committee receives and notes the updates to the Actions Register.

Purpose of Report

- 1 The purpose of this report is to provide the Infrastructure Committee with an update on the status of the action requests raised by councillors at previous Infrastructure Committee meetings.

Assessment of Significance

- 2 This matter is assessed to be of low significance under the Council's Significance and Engagement Policy as there is no impact on the service provision, no decision to transfer ownership or control of a strategic asset to or from Council, and no deviation from the Long Term Plan.

Discussion

- 3 The Actions register is a record of actions requested by councillors. It includes a status and comments section to update the Infrastructure Committee on the progress of each item.

Attachments

1. Infrastructure Services Actions Required

Information Requested from Councillors (Infrastructure Committee)

Information Requested	Update on Peel Forest Landfill		
Date Raised:	08 August 2023	Status:	Ongoing
Issue Owner	Group Manager Infrastructure	Completed Date:	
<p>Background: The Councillors requested an update on the work at the Peel Forest Landfill.</p> <p>Update: LINZ approval has been granted, and now ECan consent process is ongoing (oral update on timeframe to be provided at the meeting).</p> <p>February 2024 Update: Liaison continues with Aoraki Environmental Consultants. Consent application is almost complete for lodging and work is now commencing on the preparation of tender documentation.</p>			

Information Requested	Waka Kotahi – State of the Highways		
Date Raised:	05 September 2023	Status:	Completed
Issue Owner	Group Manager Infrastructure	Completed Date:	13 February 2024
<p>Background: The Councillors requested Officers to respond to James Caygill (Waka Kotahi), To address all the issues raised in the 25 July meeting, and deliver what was advised. Also to LGOIMA Waka Kotahi to find out what they are funding back into the District.</p> <p>Update: Works have commenced on state highway, Waka Kotahi (WK) to keep Council informed and provide update for the beginning of the new calendar year on both work programme and funding information.</p> <p>February 2024 Update: Representatives from New Zealand Transport Agency are scheduled to meet with a representative group on 13 February to share information and respond to any questions.</p>			

Information Requested	Seal Extension Policy Review		
Date Raised:	05 September 2023	Status:	Ongoing
Issue Owner	Group Manager Infrastructure	Completed Date:	
<p>Background: The Councillors requested a report to include the Seal Extension Policy for the ability to review this document. Including a breakdown of numbers of vehicles/trucks on the roads, schools and residential dwellings.</p> <p>Update: Officers to provide options in the Land Transport Unit’s activity management plan as part of the Long Term Plan 2024-34.</p> <p>February 2024 Update: Seal extension multi criteria analysis is under development. Expect to bring updated policy for approval during this calendar year.</p>			

Information Requested	Detailed Analysis on Traffic Management		
Date Raised:	14 November 2023	Status:	Ongoing
Issue Owner	Group Manager Infrastructure	Completed Date:	
<p>Background: It is requested a detailed analysis on Traffic Management across our contracts, to look at delivering this differently.</p> <p>Update: Information has been gathered around current delivery, now looking at alternative options for delivery which will be presented for consideration.</p>			

Information Requested	CityTown Update		
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Date Raised:	14 November 2023	Status:	Complete
Issue Owner	Group Manager Infrastructure	Completed Date:	13 February 2024
<p>Background: It is requested the running total of spending on this project is presented to the Committee, along with regular updates as not all councillors are able to attend the Steering Group Meetings.</p> <p>Update: This information has been collated and circulated to the Project Steering Group and all elected members (information as current at 12 December 2023). This information will be provided to the Infrastructure Committee at each quarterly update moving forward.</p>			

Information Requested	Pareora Dam		
Date Raised:	14 November 2023	Status:	Complete
Issue Owner	Group Manager Infrastructure	Completed Date:	14/11/2023
<p>Background: It is requested the regulated report comes back to the Infrastructure Committee.</p> <p>Update: A report was presented to the Infrastructure Committee on 14 November 2023.</p>			

8.2 2024 - 2030 Draft Waste Management and Minimisation Plan**Author:** Grant Hamel, Waste Operations Manager**Authoriser:** Andrew Dixon, Group Manager Infrastructure**Recommendation**

That the Infrastructure Committee

1. Receives and endorses the Draft 2024 – 2030 Waste Management and Minimisation Plan for consultation.
2. Adopts the Statement of Proposal for community consultation in accordance with Section 83 of the Local Government Act 2002.

Purpose of Report

- 1 To present the Timaru District Council (TDC) Draft Waste Management and Minimisation Plan (WMMP) 2024 – 2030 (Attachment 1) and seek approval for the Plan to proceed with consultation with the community as required by legislation.

Assessment of Significance

- 2 This matter is considered medium significance in terms of the Council's Significance and Engagement Policy. The Draft WMMP has wide community interest and potentially affects a large number of people should the level of service be changed.

Background

- 3 The Waste Minimisation Act 2008 requires Council to complete a review of the Waste Management and Minimisation Plan every six years.
- 4 The previous WMMP was adopted in 2018 for the period 2018 – 2024.
- 5 The first step in the review is to carry out a Waste Assessment (Attachment 2). The assessment that has been carried out was for South Canterbury, thus includes information relating to Mackenzie, Waimate and Timaru District Councils. The Waste Assessment reviews the composition of waste entering the landfill, particularly organics and recoverable materials. Timaru District is performing well in the waste recoveries area in comparison with other Districts in New Zealand.
- 6 In making the assessment, Council must consult with the Medical Officer of Health. This has been done and the response is included in the Waste Assessment.
- 7 The Waste Management Act 2008 requires that the revised Waste Minimisation Plan is subject to formal consultation with the community. This is undertaken in accordance with the Special Consultative Procedure of the Local Government Act 2002 that involves preparation and adoption of a Statement of Proposal. (Attachment 3).

Discussion

- 8 The Draft WMMP has been developed in association with waste consultants, Morrison Low, who have been supporting TDC in the Waste Management area for several years, including the preparation of the current contract.
- 9 Consideration is given to the New Zealand Waste Strategy, and the WMMP further develops existing strategies, proposes future possible initiatives, and identifies opportunities and challenges.

Waste Management & Minimisation Plan Challenges

- 10 Moving towards more circular economy management of our waste streams. A circular economy is a model of production and consumption and can involve reusing, repairing and recycling existing materials and products as long as possible. From a TDC perspective this primarily involves supporting the recovering and repurposing of products and materials to extend the item's lifecycle.
- 11 An educational focus is now being undertaken by our waste contractor, Enviro NZ. They carry out this function on Council's behalf, including working widely with schools, businesses, event organisations and the wider community.
- 12 The future management of closed landfills, which are often vulnerable and potentially contaminated will create significant challenges.
- 13 The current waste contract, awarded to EnviroNZ, is a long term alignment with Mackenzie and Waimate District Councils. Any significant change in level of service will potentially have a financial impact on this contract.
- 14 Supporting the Crow's Nest is an integral part of our resource recovery programme, allowing for collection and the reuse of many items.
- 15 An on-going challenge is reducing the contamination in the yellow, green and blue bins. Regular audits are undertaken to monitor the contamination rates, and these have shown improvement over recent year's but further reduction is required. Solutions to address this issue is considered as part of the strategy.
- 16 The strategy includes promotion and support of national product stewardship schemes and utilising our Transfer Stations, Redruth Recovery Park, and the Crow's Nest to collect and reuse items as part of our strategy to reduce contamination in our bins.
- 17 One of the main challenges in the Draft Plan is achieving the New Zealand Waste Strategy (NZWS) targets. The Ministry for the Environment has produced standard targets for all Territorial Authorities (TA) across New Zealand. Because Timaru has always been a leader in recycling, we face a disadvantage in achieving our waste targets, especially with diverting at the kerbside. Timaru already diverts 73%, compared to a national diversion rate of approximately 28%. The recent Government mandates on waste may reduce Timaru's diversion rate.
- 18 On-selling recycled materials will continue to be a major focus in the plan. This supports the circular economy approach and assists towards achieving the NZWS targets. On-selling produces the challenge of consistency of markets, as both local and international markets for recycled materials are impacted by availability, access, and revenue.

Waste Management & Minimisation Plan Opportunities

- 19 Reducing emissions created by reducing the organics taken to the landfill and providing gas capture and flaring systems at the Redruth landfill is an opportunity that requires further exploring.
- 20 Working with the business community, promoting organic collection options for food scraps and recyclable materials, therefore reducing their reliance on the Council bin system is another opportunity, as we progress towards greater waste minimisation.

Options and Preferred Option

- 21 Option 1 (preferred option), the Infrastructure Committee supports the Draft Waste Management and Minimisation Plan 2024 – 2030 proceeding to public consultation with the Statement of Proposal.
- 22 Option 2, the Infrastructure Committee amends the Draft Waste Management and Minimisation Plan 2024 – 2030 and subject to the amendments being completed and confirmed by the Infrastructure Chairperson supports proceeding to public consultation with the Statement of Proposal.

Consultation

- 23 The Waste Minimisation Act 2008 requires the WMMP to undergo public consultation using the Special Consultative Procedure set out under Section 83 of the Local Government Act 2002.

Relevant Legislation, Council Policy and Plans

- 24 Waste Minimisation Act 2008
- 25 New Zealand Waste Strategy
- 26 Local Government Act 2002
- 27 Timaru District Waste Assessment 2023

Financial and Funding Implications

- 28 The WMMP is aligned with the current approved budgets and the Draft Long Term Plan 2024-34. A review of waste charges including targeted rate is planned as part of the Long Term Plan process.
- 29 Also planned is a review of the allocation of additional and upsizing of kerbside collection bins. The charges for these extra bins needs to be aligned with the actual costs.
- 30 The revised WMMP is also aligned with the Timaru District Council Waste Minimisation and Management Services Contract 2400.

Other Considerations

- 31 Once the consultation process has been completed, feedback will be considered, and appropriate amendments made. This may also include changes to the Waste Minimisation Bylaw.

- 32 Another consideration is the unknown impact of changes made to kerbside collections from 1 February 2024. It is expected in the Timaru District that removing paper and cardboard and some other items from the green (organics) bin, will increase the materials put into the red (rubbish) bin thus increasing waste going to landfill.

Attachments

1. **WMMP Final Draft** [↓](#) 
2. **Waste Assessment Final 2023** [↓](#) 
3. **Waste Management and Minimisation Statement of Proposal** [↓](#) 



Timaru District Council

Waste Management and Minimisation Plan 2024-2030

January 2024 Final Draft

**Document status**

Job #	Version	Written	Reviewed	Approved	Report Date
2814	Draft	Evan Ou Yang Darren Tiddy	Helen Ramsey	Alice Grace	31 July 2023
2814	Draft	Darren Tiddy	Helen Ramsey	Alice Grace	28 August 2023
2814	Final Draft	Darren Tiddy	Helen Ramsey	Alice Grace	26 September 2023
2814	Final Draft	Darren Tiddy	Helen Ramsey	Alice Grace	22 January 2024

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Foreword

The Timaru District Waste Management and Minimisation Plan (WMMP) covers the six-year period 2024 – 2030. The Plan outlines the strategic direction we are looking to take; the services we offer; the initiatives we are looking to adopt; the challenges we face and the opportunities that exist.

This plan is in three parts:

Part A: The Strategy: contains core elements vision, goals, objectives, and targets. It sets out what we are aiming to achieve and the broad framework for working towards the vision.

Part B: Action Plan: sets out the proposed actions to be taken to achieve the goals, objectives, and targets set out in Part A. Part B also shows how we will monitor and report on our actions and how they will be funded.

Part C: Supporting Information: contains the background information that has informed the development of our Waste Management and Minimisation Plan (WMMP). Most of this information is contained in the joint Waste Assessment (WA).



Part A – Strategy

1 Introduction / He kupu whakataki

Timaru District Council (Council) has a statutory responsibility to promote effective and efficient waste management and minimisation within the Timaru District (Section 42, Waste Minimisation Act 2008 (WMA)). In order to do this, the Council is required to adopt a Waste Management and Minimisation Plan (WMMP) under Section 43 of the Act.

This WMMP is a guiding document which identifies Council’s vision, goals, objectives, targets and methods for achieving effective and efficient waste management and minimisation. It also provides information on how Council intends to fund the activities of the WMMP over the next six years.

In addition to the legislative framework in which this WMMP has been developed, it has also been developed in the context of the New Zealand Waste Strategy 2023 (NZWS). The NZWS sets out the long-term policy priorities for waste management and minimisation and has a vision for 2050:

By 2050, New Zealand is a low-emissions, low-waste circular economy.
We cherish our inseparable connection with the natural environment and look after the planet’s finite resources with care and responsibility.

The NZWS has the following eight goals:

- 1. Systems:**
The Strategic planning, regulatory, investment and engagement systems are in place and operating to drive and support change
- 2. Infrastructure:**
We have a comprehensive national network of facilities supporting the collection and circular management of products and materials
- 3. Responsibility and accountability:**
We all take responsibility for how we produce, manage and dispose of things, and are accountable for our actions and their consequences
- 4. Using less:**
We use fewer products and materials, and using them for longer, by making them more durable, and repairing, reusing, sharing and repurposing them
- 5. Resource recovery systems:**
Resource recovery systems are operating effectively for core materials and across all regions
- 6. Recovering value:**
We look for ways to recover any remaining value from residual waste, sustainably and without increasing emissions, before final disposal
- 7. Emissions:**
Emissions from waste are reducing in line with our domestic and international commitments
- 8. Contaminated land:**
Contaminated land is sustainably managed and remediated, to reduce waste and emissions and enhance the environment.



Council has also considered the waste minimisation hierarchy of reduce, reuse, recycle, recover, treatment and disposal in the development of this WMMP (Figure 1). This plan should be read in association with the joint Waste Assessment (WA) for Timaru, Mackenzie, and Waimate District Councils attached as Part C to this WMMP.

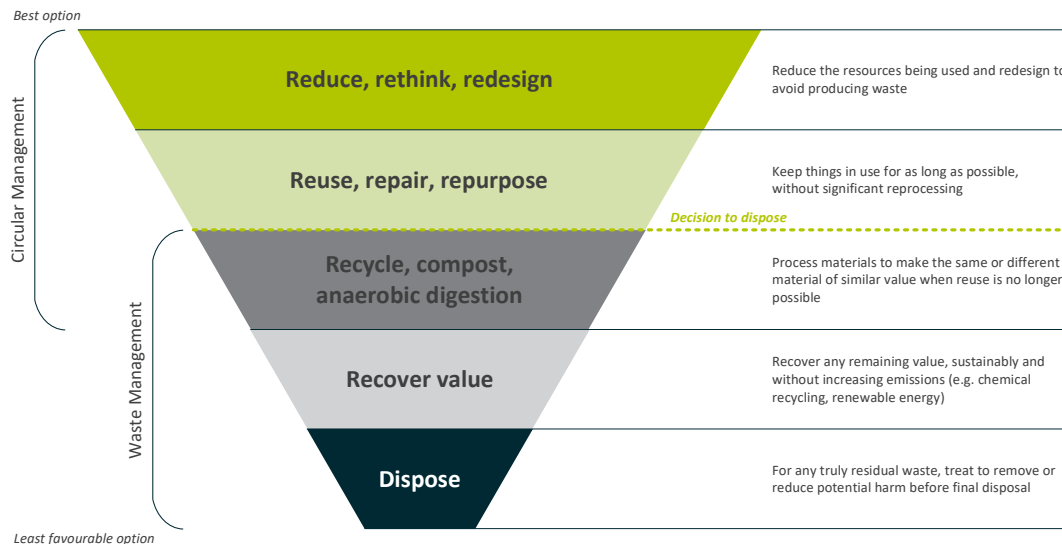


Figure 1 Circular management and waste management within the waste hierarchy

2 What informs the plan? / He aha ōna pūtaketaanga?

There is a clear legislative and policy framework within which the Council provides waste services and facilities within its District. A summary of the applicable legislation is detailed below.

Key legislation affecting waste is:

- Waste Minimisation Act 2008
- Local Government Act 2002
- Resource Management Act 1991
- Climate Change Response Act 2002 (Emissions Trading)
- Litter Act 1979
- Health Act 1956.

While the WMA sets out the legislative requirement for solid waste, the NZWS provides the government’s strategic direction for waste management and minimisation in New Zealand. The goals of this WMMP replicate those from the NZWS.

Local, regional and national plans and policies affect the Council’s provision of waste and diverted material services. Primarily, they are requirements under the WMA and the Local Government Act 2002.



Figure 2 shows the council’s planning and policy framework with alignment from legislative requirements to operational policies. There needs to be alignment between the council’s key planning documents this WMMP, bylaws and the operational policies.

The Long Term Plan (LTP) is a key district plan to support the WMMP initiatives. The LTP identifies increased diversion and reduced waste generation as key performance measures, together with high customer satisfaction ratings for kerbside collections and facilities at the Transfer Stations and Resource Recovery Parks (TS/ RRP’s).

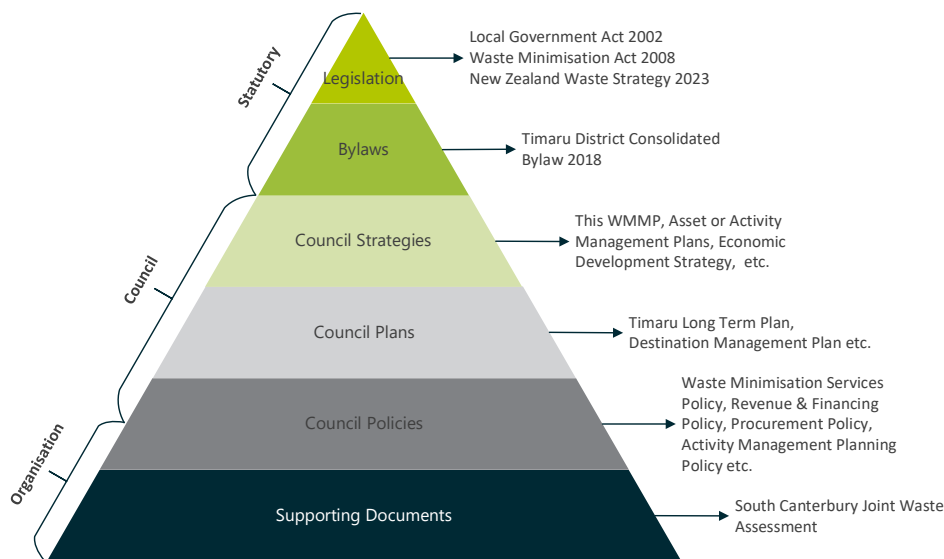


Figure 2 Planning framework for strategic documents

3 Vision, goals, objective, policies, and targets / Te tirohanga, nga whainganga, nga whaainganga, nga kaupapa here me nga whaainganga

Working together, Council and the community can achieve more effective and efficient waste management and minimisation in the district. Council is proposing the following vision, goals, objectives, and targets. Taken together these form the strategy for Council’s WMMP. The objectives for the sub-region have been adopted by Timaru as their objectives.

3.1 Vision for the future

Our vision for the future is:

“By 2050, the South Canterbury Region is a low-emissions, low-waste society built upon a circular economy”.



3.2 Goals, objectives, policies, and targets

3.2.1 Goals and objectives

The Councils have adopted the NZWS 2030 goals and developed South Canterbury objectives that support the achievement of these goals. The NZWS states that “By 2030, our enabling systems are working well, and behaviour is changing”. The NZWS goals and South Canterbury objectives are shown in Table 1.

Table 1 NZWS goals and South Canterbury objectives

#	NZWS Goals	South Canterbury Objective
1	Systems The strategic planning, regulatory, investment and engagement systems are in place and operating to drive and support change	<ul style="list-style-type: none"> Implement new national planning, regulatory, investment and engagement systems continue to drive change in South Canterbury.
2	Infrastructure We have a comprehensive national network of facilities supporting the collection and circular management of products and materials	<ul style="list-style-type: none"> South Canterbury facilities, both Council and private, support collection and circular management of products and materials in the sub-region. Local planning provisions support the circular economy.
3	Responsibility and accountability We all take responsibility for how we produce, manage and dispose of things, and are accountable for our actions and their consequences	<ul style="list-style-type: none"> Deliver behaviour change programmes in South Canterbury to increase awareness and accountability for waste minimisation.
4	Using less We use fewer products and materials, and use them for longer, by making them more durable, and repairing, reusing, sharing and repurposing them	<ul style="list-style-type: none"> Support local redesign, repair, reuse, sharing and repurposing initiatives.
5	Resource recovery systems Resource recovery systems are operating effectively for core materials and across all regions	<ul style="list-style-type: none"> Existing kerbside services and resource recovery facilities enable core materials to be collected across South Canterbury.
6	Recovering value We look for ways to recover any remaining value from residual waste, sustainably and without increasing emissions, before final disposal	<ul style="list-style-type: none"> Look to recover any remaining value from residual waste prior to disposal at Redruth Landfill.
7	Emissions Emissions from waste are reducing in line with our domestic and international commitments	<ul style="list-style-type: none"> Reduce organic waste production and disposal in South Canterbury, from both residents and businesses. Maintain landfill gas capture and flaring systems at Redruth Landfill.
8	Contaminated land Contaminated land is sustainably managed and remediated, to reduce waste and emissions and enhance the environment	<ul style="list-style-type: none"> Identify and sustainably manage contaminated land in South Canterbury, including vulnerable landfills. Reduce the volume of soil disposal at Redruth Landfill



3.2.2 Our targets

The Councils’ waste minimisation targets are set out in Table 2. The current performance is assessed, and targets are set to align with the NZWS.

Table 2 Timaru District’s waste minimisation targets

NZWS target	Local annual target (kg per capita, tonnes, %)	TDC	
		Baseline 2022	Target 2030
10% reduction in waste generation	Total kerbside material	479 kg per capita ¹	431 kg per capita
	Total material received TS/ RRP’s	9,050 tonnes	<9,050 tonnes
30% reduction in final disposal	Kerbside refuse collection	130 kg per capita ²	117 kg per capita ³
	% contamination in kerbside organics, glass, and recycling	Organic <1% Glass <1% Recycling 11%	Organic <1% Glass <1% Recycling <10%
	% contamination Redruth MRF	23.3%	<10%
	Redruth Landfill disposal from TS/ RRP’s ⁴	5,100 tonnes	3,570 tonnes
30% reduction in biogenic methane emissions	% total organics in kerbside rubbish collection	36%	25%
	% organics received at Redruth Landfill	Approx. 50%	25%

4 What happens with our waste? / Ka ahatia ā atou paranga?

4.1 Overview of existing waste management and minimisation infrastructure and services

A summary of the current services provided by Council and non-council providers is outlined below. For a detailed description of Council and non-council solid waste services, refer to the joint WA in Part C.

4.1.1 Services provided by Council

The Council currently provides kerbside refuse, recycling, and organics collections in Timaru, Temuka, Pleasant Point and Geraldine and some rural areas on route. This includes fortnightly kerbside collections alternating for refuse and mixed recycling- and glass (separate bin), with weekly kerbside collections of organics (combined food and green waste). Kerbside collected material is consolidated for processing or disposal at the Redruth facilities (Material Recovery Facility (MRF), compost facility and landfill).

¹ Calculation of kg per capita is based on estimate of service entitled population.

² For January-December 2022.

³ 10% reduction target: was 30% in Waste Assessment, but with kerbside diversion currently at 73%, opportunities to further reduce kerbside refuse volumes are limited.

⁴ Based on 2022 data at Redruth Landfill. Tonnage covers all disposable materials via councils’ TS and RRP.



Four transfer stations (TS's) operate within the district. These are in Temuka, Geraldine, Pleasant Point, and the Resource Recovery Park (RRP) at Redruth in Timaru. The TS/ RRP's operate as public drop-off facilities for recyclables and recoverable items, green waste, cleanfill, and refuse. Like kerbside material, the materials collected at the TS/ RRP's are consolidated for processing or disposal at the Redruth facilities.

The Redruth MRF, composting facility and landfill are regional facilities, receiving recyclables, organics and refuse from kerbside collections and the RRP's in Waimate and Mackenzie. They also receive material directly from commercial customers, including councils outside the South Canterbury area. Recyclables processed at the MRF, and other materials recovered at the TS/ RRP's are transported out of the region for further resource recovery. This includes plastics, scrap metal, domestic paints and oil, batteries, gas bottles, tyres, whiteware and other electronics. Glass is consolidated separately from other kerbside collected material and sent to 5R in Christchurch for processing before final processing at Visy, Auckland. A range of soils, cleanfill, and hardfill materials from landscaping or construction are accepted at Redruth Landfill and used for cover material (daily, intermediate, and final cover) and other construction purposes (roading, bunds, etc).

The waste services contract includes the provision of education initiatives to support the delivery of services and waste minimisation initiatives. A key focus of education initiatives for Timaru is messaging for residents and businesses, ensuring the services are effectively utilised to divert waste from landfill. To help improve the diversion potential and ensure materials are put into the correct bins, TDC regularly publish information via communication channels. This includes the website, social media, and physical collateral. A range of options are available to the Council to improve, extend and align its waste minimisation and management across the district with the new national NZWS and with neighbouring council services, facilities, and initiatives.

4.1.2 Non-council provided services and facilities

Private refuse and greenwaste collection services are available in the district. These services are provided on a user-pays basis, whereas Council services are rates funded. Private services target customers that don't receive a Council service such as rural households outside collection areas or the standard service doesn't meet the needs of commercial businesses.

The NZWS and improved data collection means government departments and private collectors will all now be required to divert waste from landfill. This may result in changes in the waste streams for recyclables, organics and residual waste that come through the Councils TS/ RRP's.

4.2 Public health protection

The range of public and private waste services in the Timaru District and South Canterbury sub-region ensures public health will be adequately protected in the future. Timaru District Council owns a landfill, organic processing facility, materials recovery facility and reuse shop that is currently meeting the sub-region's needs. The community currently has adequate access to council or privately-owned drop-off and collection services for refuse, recycling, food, greenwaste, hazardous waste and litter, but further waste minimisation is achievable as outlined in this plan. This plan proposes initiatives for continued waste minimisation.

In its feedback on the South Canterbury joint WA, Te Mana Ora | Te Waipounamu feedback from the Medical Officer of Health on 11 August 2023 stated they are supportive of the districts plans and that "this [is an] important service which has significant public health value to the South Canterbury community". This feedback has been considered in the development of this plan.



4.3 Volume and composition of our waste

Kerbside waste collections are highlighted in Figure 3.



Figure 3 Summary of kerbside waste in Timaru⁵

Timaru has achieved a diversion rate of 73% with the current kerbside service. This is already above the national target for 50% diversion at the kerbside by 2030. Timaru has the opportunity to maintain this performance and build success around further opportunities.

The impact of the changes introduced by the Ministry for the Environment with effect 1 February 2024 (such as pizza boxes being classified as recyclables not organics) are not yet known, however the composition of kerbside refuse from Timaru is shown in Figure 4. More than half of our residual waste could still be diverted. Figure 5 shows that 44% of our waste should be going into our organics and recycling bins, and glass bin.

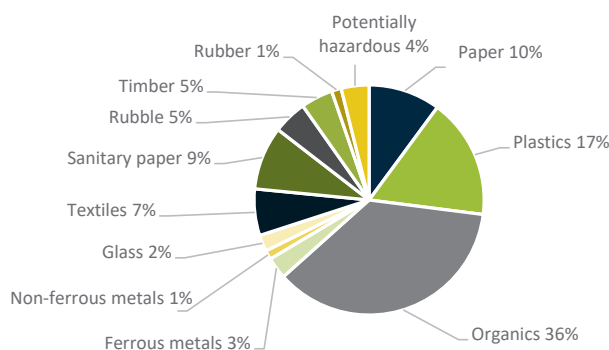


Figure 4 Kerbside refuse composition from a waste audit in 2022

⁵ For January-December 2022.



Figure 5 Diversion potential in Timaru's kerbside refuse (residual waste)

Most kerbside-collected material is transported directly to the Redruth facilities. The Transfer Stations and Resource Recovery Park are not used for consolidation of this material. Likewise, the location of the Redruth facilities within Timaru, means that most of the commercial material collected is also taken directly to the processing and disposal facilities at Redruth (using the landfill's permit system). The TS/ RRP's are used by small commercial collectors (e.g. skip bin operators outside Timaru) and by residents who live in rural areas that do not have kerbside services, or who have excess recyclables, recoverable items that cannot be placed in kerbside bins or bulky waste to be disposed. The core waste types and volumes processed through the TS/ RRP's are highlighted in Figure 6.

Your TS/ RRP Waste in Numbers

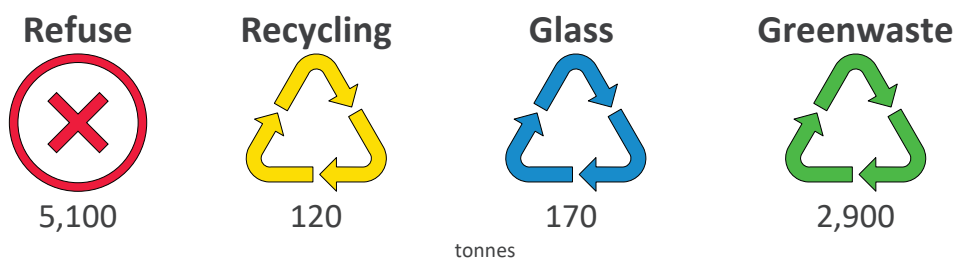


Figure 6 Total waste from Timaru's Transfer Stations and Resource Recovery Park ⁶

Additional to the four waste streams in Figure 6, 1,100 tonnes of hardfill and 1,900 tonnes of cleanfill soils, 15 tonnes of tyres for recycling and 50 tonnes of E-waste were also processed through the Districts TS/ RRP.

⁶ For January-December 2023.



Figure 7 Image of Redruth Resource Recovery Park

As the host of the regional processing and disposal facilities, Timaru has additional obligations to ensure that the facilities remain available and are sufficiently sized to support waste management and minimisation in the wider region. This also presents more opportunities for Timaru to lead the way in terms of providing facilities to enable more material to be diverted from the South Canterbury area.

TDC’s Redruth processing facilities consist of a Material Recovery Facility, a Glass Handling Facility, and an Organic Processing Facility. These facilities are managed by EnviroNZ as part of TDC’s waste services contract. Materials collected from kerbside, transfer stations and RRP’s in the Timaru, Mackenzie and Waimate districts are transported and processed at Redruth. The facilities also receive materials from out of district such as Ashburton, with the three south canterbury council tonnes prioritised over out of district tonnes. Figure 8 shows the annual tonnage processed through the regional facilities between January and December 2022. Figure 9 shows the composition of material received at Redruth landfill. There is sufficient capacity at the regional facilities for the next 27 years until 2050.

Your Regional Redruth Facilities in Numbers

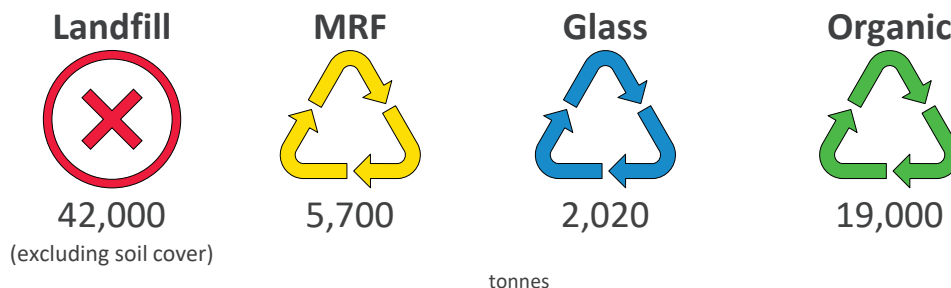


Figure 8 Total waste processed at Timaru’s Redruth Facilities (landfill, MRF, composting facility and RRP)

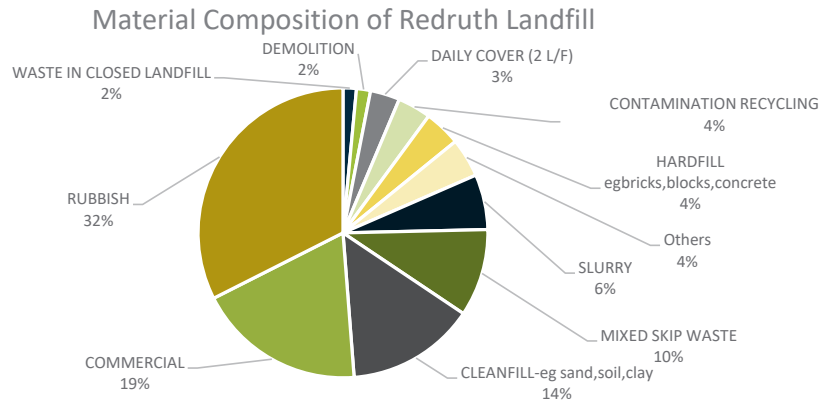


Figure 9 Materials composition of Redruth Landfill

All of this material is received or consolidated at Redruth, image below (Figure 10).



Figure 10 Image of the Redruth Facility

4.4 Cost of the current level of service

Council provides its waste services and facilities at an annual cost of \$12.5 million (FY2022/23). Funding is predominantly provided through general and targeted rates, with some user charges (Table 3). Solid waste accounts for 11% of Council’s total operating costs and 6% of Council’s rates funding.



Table 3 Council services currently provided and their funding methods

Council Service	Funding Methods
Waste minimisation education, promotion, enforcement (e.g. by law), communication, monitoring and policy development	Waste levy, central government funds/ grants, rates, fees and charges
Kerbside collection of waste	Rates
Kerbside collection of recyclables	Rates
Kerbside collection of organics	Rates
Resource Recovery Parks	Rates, fees and charges
Provision of public litter bins	Rates

5 How much better could we do? / Me pēwhea e pai ake ai?

5.1 Council’s role

Timaru District Council has already achieved high levels of recycling and organic diversion, surpassing national targets well ahead of time. We were able to do this because we implemented the changes required early and with the support of our community. Now we need to continue to build upon that success by setting objectives and targets that align with new national targets and bring other stakeholders along our journey, particularly in our tourism and construction sectors.

We value our unique landscape and aim to support the community outcomes described in the LTP through this updated WMMP. We contribute to protecting our treasured environment through maintaining our high levels of diversion and seeking opportunities to improve where possible. We have three methods of bringing about the change required, these include:

1. Influencing behaviours
2. Provision of waste services and facilities
3. Regulating how waste services are provided.

5.2 Challenges

The Waste Assessment identifies issues and opportunities at the regional level, with local challenges also requiring considering when Council develops actions around the opportunities. These challenges can impact on the ability to attain some of the targets, set in the NZWS. One such example is reducing refuse volumes disposed to landfill from both Council and commercial sources. Council is already achieving one of the highest diversion rates for kerbside waste streams, so further reductions in refuse disposal will require on-going support and collaboration with the commercial sector.

Additional challenges also include:

1. Affordability:
There are costs associated with a number of the proposed initiatives, for example introducing a grant programme. The cost of the initiatives needs to be weighed against affordability for the community.



2. Support for the circular economy:
The support from producers and manufacturers to contribute to a circular economy cannot be assured. This is especially relevant in tight economic times.
3. Legislative changes:
The introduction of legislation requiring Council to change established practices can come at a cost to the community.
4. Recycling opportunities:
Our location and the size of our community can restrict the number of recycling opportunities we have. There are few local recycling businesses and there is cost involved in transferring the recycling to other markets.
5. Changing markets:
The market for accepting recycled goods is very fluid. Identified markets can change very quickly and the demand for some recycled products can diminish overnight.

In developing Council's actions plan, we have considered these challenges alongside the opportunities for waste reduction identified in the Waste Assessment.

5.3 Identified district waste opportunities

Council has identified a range of waste issues and opportunities that currently face our communities. The type of services and facilities required is changing based on the need to reduce waste generation, extract more value from our waste materials and reduce biogenic methane emissions from waste.

1. *Promote upstream waste hierarchy and circular economy principles*

The opportunity for developing circular economies extend beyond Council limits. There are opportunities to support initiatives developed by others at a local, sub-regional, regional, and national level. This includes promoting the national product stewardship schemes.

To encourage behavioural change and support the community to develop their own initiatives, there are opportunities to strengthen its public awareness campaigns through Council supported programmes such as Sustainable is Attainable and Sustainable Tourism. Council collection and operation contracts also include education requirements provided by EnviroNZ.

2. *Recover more from kerbside waste streams*

A waste audit in the district in 2022 showed that 44% of our refuse could be diverted from landfill, with nearly three quarters being organics. This organic component of our residual waste represents the majority of our biogenic methane emissions, which will need to be reduced by 30% by 2030. With organic diversion already available to most residents in the district, further uptake of this service can be achieved.

Council has been diverting organics and recyclables for over 17 years via kerbside services. The introduction of the glass bin in 2021 has seen further improvement in diversion performance. However, more can still be done to enhance these services. With the implementation of standardised recycling across the nation, Council hopes households will better comply with a simplified list of recyclable items. Soft plastic recycling options in addition to current initiatives will also be considered, some of these materials can be harder to recycle.



3. Better service rural and business customers

Currently rural households are able to opt-in to collections if they are situated along collection routes and there is a safe place to locate bins for truck access. There are a number of rural households that are not located along these routes and have to drop-off their refuse and recycling at the nearest TS/RRP or use private waste contractors. Similarly businesses can use the kerbside collections if it meets their needs or use private waste contractors if the council service doesn't meet their requirements. Since rural residents, and businesses do not have the same access to a comprehensive service that urban residents do, there is an opportunity to investigate and collaborate to determine how to enable access to the same level of service, thereby increasing diversion. For this reason, these play an important role in this next phase of the Council's WMMP.

4. Support diversion activities for Construction & Demolition (C&D) waste from landfill

Residual waste is taken to Redruth Landfill for disposal. This includes divertible materials including construction and demolition (C&D) waste. Sorting of C&D waste and timber has been tried at Redruth in the past and found not to be cost-effective. Any future solution needs to be supported by sustainable markets. There is a lack of visibility of the alternatives available in South Canterbury to Class 1 landfill disposal i.e. C&D waste diversion or Class 2-5 landfills.

5. Infrastructure to support circular, diversion and disposal activities

Council has the opportunity to seek and support the development of circular and diversion infrastructure. Council understands there is scope to participate in MfE's upcoming development of regional action and investment plan(s). Here Council can continue to collaborate with the other South Canterbury Council's.

The Redruth facilities for processing and disposal remain an important part of Council's waste management and minimisation activities. Government regulation for the operation of landfills is expected to continue as a primary push factor for waste minimisation and Council will need to comply with these regulations. At the same time, Council's visibility of the material being disposed to landfill from its district and ownership of a facility where additional resource recovery can be established, gives Council an important opportunity to enhance diversion from the South Canterbury area and beyond.



Part B – Action Plan

**1 Action Plan Overview /
Te tirohanga Whānui o te Mahere Rautaki**

Through the assessment of waste within the region, Council has identified five opportunities to address issues in our waste. Each of these opportunities have actions that align with the opportunity identified, a sixth action addresses regulatory and administrative tasks to support the other actions (see Table 4). The opportunities and actions are aligned with the three NZWS goals, as shown in Figure 11. Council also has a set of guiding principles that it will use when developing solid waste initiatives. We note that the actions included in the previous WMMP have either been completed or incorporated into the actions below.

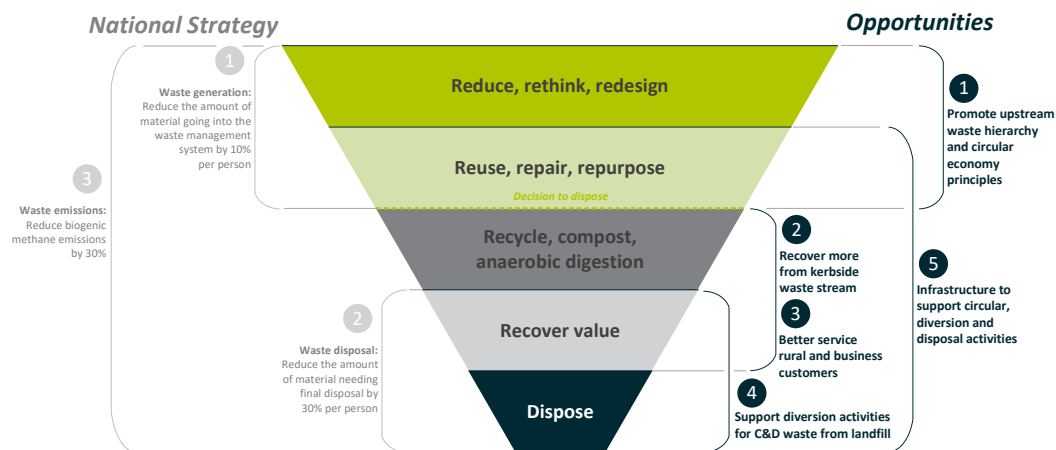


Figure 11 Opportunities aligned to the national waste strategy

Highlighting Our Guiding Principles:

- Addressing legislative requirements
- Recognition of Kaitiakitanga/stewardship
- Application of circular economy principles
- Allowing for integration of technology
- Behaviour change is required to minimise waste, and convenience influences behaviour
- Encouraging innovation
- Leading by example



Table 4 Action items for Council to address and implement during the 2024-2030 WMMP

Action	Approach	New or Existing	Funding	Implementation timeframe	
<i>1. Promote upstream waste hierarchy and circular economy principles</i>					
1.1.	Support provision of education programmes to raise awareness of circular economy principles and businesses, products, and services through the Sustainable South Canterbury Trust Eco Centre and EnviroNZ educators.	Influence	New	Rates, waste levy funds	FY2024/25 onwards
1.2.	Support the implementation of national product stewardship schemes and reuse items through the promotion and use of TS/ RRP/ Crow's Nest as part of the collection network.	Influence	Existing	Rates, waste levy funds	Ongoing
1.3.	Support the development of local circular economy systems through support options, including potentially providing a grant programme.	Influence	New	Grant, waste levy funds	FY2024/34 LTP
1.4.	Continue to collaborate with other councils, in particular South Canterbury Councils (Mackenzie and Waimate), and the Canterbury Joint Waste Committee on waste minimisation projects.	Influence	Existing	Rates, waste levy funds	Ongoing
<i>2. Recover more from kerbside waste streams</i>					
2.1.	Continue to provide four-bin kerbside collection services (refuse, mixed recycling, glass and organics) to residents in urban areas and, in rural areas, on collection routes between townships. Continue to provide event bins, for events that meet TDC criteria and public place recycling in high use locations.	Service	Existing	Rates	Ongoing
2.2.	Continue to provide relevant and updated information to customers via website and other communication channels.	Influence	Existing	Rates, waste levy funds	Ongoing
2.3.	Consider allowing businesses to opt-in to four-bin service if it meets their needs and TDC's	Service	Existing	Rates	Ongoing
2.4.	Continue to support education programmes to schools, businesses and the community and audit bins to help our community reduce waste and make better decisions about recycling and waste minimisation.	Influence	Existing	Rates, waste levy funds	Ongoing



Action	Approach	New or Existing	Funding	Implementation timeframe	
3. Better service rural and business customers					
3.1.	Investigate options for increasing services for business customers, rural residents or provide drop-off points. Implement preferred option.	Service	New	Waste levy funds	Investigate FY2025/26, implement FY2027/28
3.2.	Work with private collectors to increase options to business customers.	Influence	New	Private service	FY2025/26 onwards
3.3.	Continue to operate TS in Temuka, Pleasant Point and Geraldine, as well as the Redruth RRP, Eco-centre and Crows Nest Reuse Shop.	Service	Existing	Rates, fees and charges	Ongoing
4. Support diversion activities for C&D waste					
4.1.	Work with local construction and demolition businesses to support the development and delivery of targeted education programmes to promote awareness of how to divert waste.	Influence	New	Rates, waste levy funds	FY 2024/25 onwards
4.2.	Support the implementation of changes to Building Act process requiring waste minimisation plans.	Influence	New	Rates, waste levy funds	Once amendments are in place
4.3.	Continue to monitor C&D waste quantity and composition at Council TS/ RRP and introduce a targeted SWAP focused on C&D waste in FY2025/26.	Service	Existing New (SWAP)	Rates, waste levy funds	Ongoing
4.4.	Participate in investigating sub-regional C&D waste recovery options including availability of Class 2-5 facilities for cleanfill soils.	Influence	New	Rates, waste levy funds	FY 2025/26 onwards
5. Infrastructure to support circular, diversion and disposal activities					
5.1.	Investigate opportunities for further infrastructure to support circular and diversion activities within the Region.	Service	New	Waste levy	FY 2025/ 26
5.2.	Continue development and operation of the Redruth MRF, composting facility and Landfill. Implement facility maintenance and upgrades to support growth, capacity to support diversion in the wider region and for landfill construction stages.	Service	Existing	Fees and charges	Ongoing



Action		Approach	New or Existing	Funding	Implementation timeframe
5.3.	Redruth Landfill consent renewal by 2030.	Service	Existing	Rates	Procurement of services from 2025
6. Other actions					
6.1.	Review our Solid Waste Bylaw to ensure it remains current and aligns to this WMMP.	Regulate	Existing	Rates, Waste Levy	After this WMMP is published
6.2.	Continue to collect data in accordance with the National Waste Data Framework.	Influence	Existing	Rates	Ongoing
6.3.	Undertake regular SWAP and report progress against WMMP targets on website.	Influence	Existing	Rates, Waste Levy	Ongoing
6.4	Collaborate with District, Regional and National groups for emergency preparedness for waste services and facilitates. Investigate emergency waste procedures and determine if additional facilities and associated consents are required to support these actions.	Influence and Service	Existing	Rates, Waste Levy	Ongoing
6.5	Continued management of closed landfills.	Service	Existing	Rates	Ongoing



1.1 Forecast future demand

Demand on waste services and facilities is linked to population growth. The District’s service entitled population was estimated at 47,385 in 2022. The resident population is predicted to increase from 48,400 in 2022 to around 57,130 by 2050. In the short term, annual growth is predicted to be 2%.

The NZWS focuses on the urban-rural divide for household kerbside collections. Currently, Timaru is classified as a medium urban area, while Temuka, Pleasant Point and Geraldine meets the classification for small urban area. Timaru has already rolled out kerbside collections elsewhere and so is ahead of these targets.

The reduction of waste disposal to landfill shown in Figure 12 is expected to come from three initiatives; reduced waste generation from circular initiatives, maintaining high levels of recycling diversion, and increased uptake of organics diversion. A more detailed summary is available in the WA (see Part C).

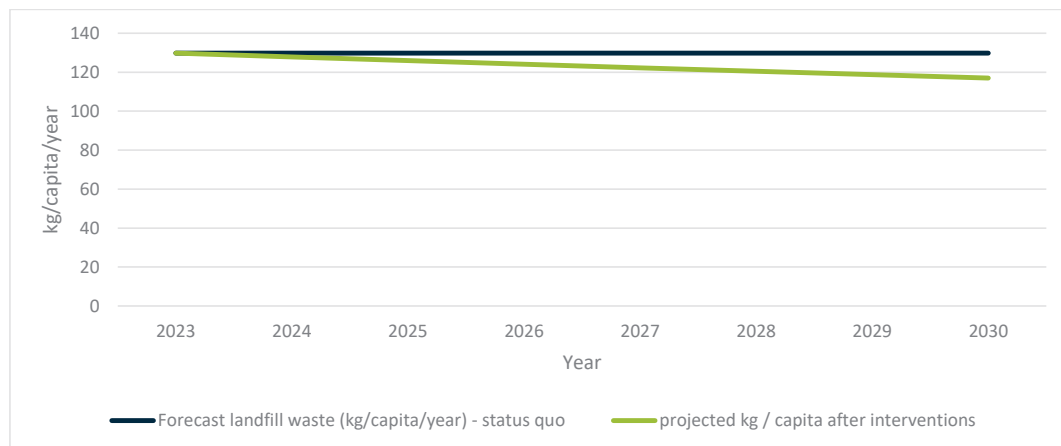


Figure 12 Projected residual waste from kerbside collections sent to landfill

2 Funding / Pūtea

2.1 Funding the plan

The action plan will be funded using the suite of tools available to Council in the delivery of solid waste services. The activities will be funded by:

- Rates
- Fees and charges (including gate fees and user charges)
- Subsidies and grants, including the Waste Levy Fund and other MfE grants
- Loan (for capital works).



2.2 Waste minimisation levy funding expenditure

Council will continue to use the Waste Minimisation Levy funding income to fund waste education, investigations, trials, and to fund capital expenditure for diversion facilities.

2.3 Waste Levy Grants

Section 47 of the WMA gives councils the ability to make grants to a person, organisation, or group to promote or achieve waste management and minimisation. Under this WMMP the Council will continue to give grants at its discretion and on any terms or condition it deems appropriate provided there is an allocated and approved budget for that activity. Specific grants (e.g. for local circular economy initiatives) will also be explored.

3 Monitoring, evaluating and reporting progress / Te aroturuki, Te arotake me ngā pūrongo o Te ngā ahunga whakamua

3.1 Monitoring and evaluation

The Council intends to monitor and report on progress regarding the WMMP and will develop and implement a clear, transparent monitoring and reporting system. Accurate information on how services provided by council are performing is essential for monitoring the effectiveness of the Plan's vision, objectives, goals and targets, and planning for future demand.

Council's current level of service and performance measures are aligned with the 2021-2031 LTP and are focussed on reducing the residential waste to landfill. Council will review its performance measures as part of the 2024-2034 LTP to align with this WMMP.

Measures that provide a broader picture of the waste situation and how to minimise the amount of waste going to landfill will assist Council in identifying more targeted actions in the future. Data will be gathered through:

- Resident and ratepayer surveys
- Contractor reporting against key performance indicators
- Solid Waste Analysis Protocol Audits (SWAPs)
- Waste Assessments
- Consent compliance systems

3.2 Reporting

The Council will report progress of the implementation and effectiveness of this WMMP through:

- Annual Reports
- Monthly performance reports
- Council's website

The Council will also provide progress reports of expenditure of its waste levy funds to the Ministry for the Environment and provide data in accordance with the national reporting systems.



Glossary

Term	Definitions and abbreviations
Clean fill/clean fill material	Inert materials disposed of, into or onto land, at a consented cleanfill. Materials typically include construction and demolition waste such as concrete, uncontaminated soil and rock.
Commercial waste	Waste from premises used wholly or mainly for the purposes of trade or business, recreation or entertainment, excluding, mines, quarries and agricultural waste. May also include some household waste collected by commercial operators.
Diverted material	Anything no longer required for its original purpose and, but for commercial or other waste minimisation activities, would be disposed of or discarded, and includes any materials that are recyclables, compostable, or can be recovered and/or re-used, as determined by the Council by resolution.
Hazardous waste	Waste that is potentially harmful to human and/or environmental health. It typically has one or more of the following hazard properties: explosive, flammable, oxidising, corrosive, radioactive, toxic or ecotoxic, or it may react with air or water to have one of these properties.
Household waste	Solid waste generated by households. Household waste does not include divertible waste, hazardous waste, commercial waste, prohibited waste, trade waste or liquid waste of any nature.
Organic waste	Compostable materials that are organic in origin and appropriate to be used as feedstock for composting and includes greenwaste and food waste.
Recycling	The reprocessing of waste or diverted material to produce new materials.
Resource Recovery Park (RRP)	A facility where solid waste materials such as residual waste, construction and demolition waste, recyclables, organic wastes, and household hazardous wastes are delivered for sorting or before being taken away for treatment, processing, recycling or disposal, and which may also include a retail outlet for the re- sale of used goods and materials deposited at the site.
Reuse shops	Items that are salvaged or diverted from the waste stream undergo little or no modification and are sold at shops run by the community or territorial authorities.
Solid Waste Analysis Protocol (SWAP)	A study to determine the composition of waste as described by Ministry for the Environment.
Transfer Station (TS)	A facility where solid waste materials such as residual waste, construction and demolition waste, recyclables, organics waste and household hazardous wastes are delivered for consolidation before being taken away for treatment, processing, recycling or disposal.
Waste	Anything disposed of, or discarded, and: <ul style="list-style-type: none"> includes a type of waste that is defined by its composition or source (for example, organic waste, electronic waste, or construction and demolition waste), and to avoid doubt, includes any component or element of diverted material, if the component or element is disposed of or discarded.
Waste disposal levy	A levy imposed under the Waste Minimisation Act 2008 on waste.
Waste minimisation	The reduction of waste and the reuse, recycling and recovery of waste and diverted material.



Part C – Supporting Information

Waste Assessment



South Canterbury Councils

Waste Assessment

September 2023



Document status

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1 Introduction

Territorial authorities are legally required to conduct a Waste Assessment and consider it in the review and preparation of their Waste Management and Minimisation Plans (WMMP). The Waste Management Act 2008 (WMA) (s44) also requires that a Waste Assessment be notified with the draft WMMP for public consultation. This process is required every six years. This Waste Assessment is a joint assessment prepared for Timaru District Council (TDC), Mackenzie District Council (MDC) and Waimate District Council (WDC). The three councils are collectively referred to as the South Canterbury Councils (Councils) in this document.

The Councils each have their own WMMP which was prepared in 2018. This joint Waste Assessment will inform each council’s review of its WMMP, which will in turn inform the development of each council’s Long-Term Plan 2024-34. This Waste Assessment was prepared as prescribed in s51 of the WMA and provide details of:

- existing waste services and facilities provided in South Canterbury
- waste quantities, composition, and flows
- identified waste issues
- forecast future demand
- the Councils’ vision, goals, objectives and targets for waste management and minimisation
- an assessment of options to address the identified waste issues (a statement of proposals) for each district.

Figure 1 illustrates the source and destination of waste and diverted material in South Canterbury, both Council and private materials.

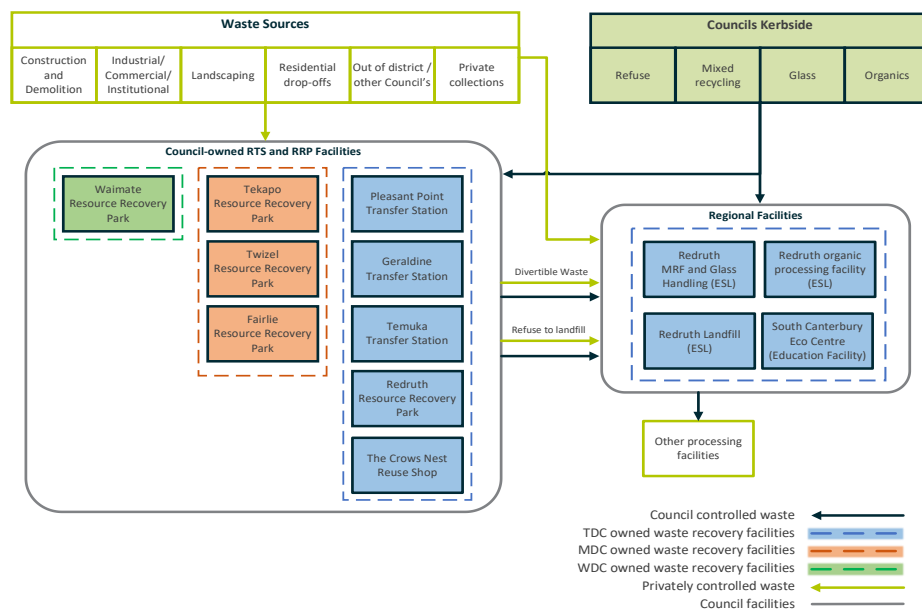


Figure 1 Source and destination of waste and diverted materials in South Canterbury



1.1 Document and accuracy

The tonnage information in this document was prepared using data gathered from a variety of sources including each council's weighbridge data, data gathered by councils' current waste services provider EnviroWaste Services Ltd (EnviroNZ), the most recent Solid Waste Analysis Protocol (SWAP) report of each council and the Councils' 2018 WMMPs.

The data presented in this document does not represent all the waste and diverted materials generated in each district. The amount of waste and diverted material can only be determined from the data managed by the Councils and their waste services provider. No data was available from the private and commercial sector.

It is acknowledged a Waste Assessment is only a snapshot in time of the data collected for the purposes of future waste planning and preparation of the WMMP. Every effort has been made to provide a complete and accurate assessment. In some cases, data has been estimated or there are data gaps such as the volume and composition of privately collected rubbish. Details regarding any limiting factors in preparing the Waste Assessment that are deemed to have materially impacted on the completeness or accuracy of the data, forecasts, estimates or options assessment have been noted where appropriate.

The information contained in this Waste Assessment was considered appropriate when giving regard to:

- the significance of the information
- the costs of, and difficulty in, obtaining the information
- the extent of Councils' resources
- the possibility Councils may be directed under the Health Act 1956 to provide the services referred to in that Act.

1.2 Acronyms

Key Term/ Acronym	Definition
AIP	The government's Action and Investment Plan
CERF	Climate Emergency Response Fund
Councils	South Canterbury Councils covering Timaru District Council, Mackenzie District Council and Waimate District Council
CRS	Container Return Scheme
ETS	Emissions Trading Scheme
LGA	Local Government Act
LTP	Long Term Plan
MDC	Mackenzie District Council
MfE	The Ministry for the Environment
MRF	Material Recovery Facility
NES	National Environmental Standards
NZWS	New Zealand Waste Strategy
RMA	Resource Management Act 1991
RRP	Resource Recovery Park
RTS	Refuse Transfer Station



Key Term/ Acronym	Definition
SWAP	Solid Waste Analysis Protocol (SWAP). Ministry for the Environment-led baseline programme to provide solid waste composition information.
TA	Territorial Authorities. Defined under the Local Government Act 2002 as a city or district council
TDC	Timaru District Council
WA	A Waste Assessment as defined by Section 51 of the Waste Minimisation Act 2008.
WDC	Waimate District Council
WMA	Waste Minimisation Act 2008
WMF	Waste Minimisation Fund
WMMP	A Waste Management and Minimisation Plan as defined in Section 43 of the Waste Minimisation Act 2008

2 Legislative and Strategic Context

This section contains a short summary of the legislative and strategic context within which the South Canterbury Councils will develop their Waste Assessment and WMMP.

2.1 Key legislation

The legal framework for waste management and minimisation in New Zealand is found in the combination of several Acts of Parliament. These Acts provide the legislative imperative and tools to support progress toward the high-level direction outlined in the NZWS. Therefore, careful attention is given to these in developing the Waste Assessment. The Acts that drive waste management and minimisation planning are:

- Waste Minimisation Act 2008 (WMA)
- Climate Change Response Act 2002
- Climate Change Response (Emissions Trading Reform) Amendment Act 2020 that updates the NZ Emissions Trading Scheme
- The Climate Change Response (Zero Carbon) Amendment Act 2019
- Local Government Act 2002
- Resource Management Act 1991 (RMA, as well as District and Regional Plans and designations and consents)
- Hazardous Substances and New Organisms Act 1996
- Health Act 1956
- Litter Act 1979
- Health and Safety at Work Act 2015

It is noted that the RMA, WMA, and Litter Act 1979 are currently being revised or replaced with new legislation.

Appendix B provides links to the primary legislation for further information.



2.2 New Zealand Waste Strategy

Waste management and minimisation in New Zealand is underpinned by the Government’s New Zealand Waste Strategy 2023 (NZWS). The NZWS sets out the long-term policy priorities for waste management and minimisation and has a vision for 2050:

By 2050, New Zealand is a low-emissions, low-waste circular economy. We cherish our inseparable connection with the natural environment and look after the planet’s finite resources with care and responsibility.

2.2.1 Linear and circular economies

The following from the NZWS showing the difference between linear and circular economy.

Taking natural resources, making them into something, using and then disposing of it – is referred to as a ‘linear economy’.

In contrast, a ‘circular economy’ is a system where extracted materials are used and reused for as long as possible. For technical or synthetic materials, the ideal scenario is that they are reused forever. Biological (organic) materials will eventually be returned to the soil to enrich it (see Figure 2).

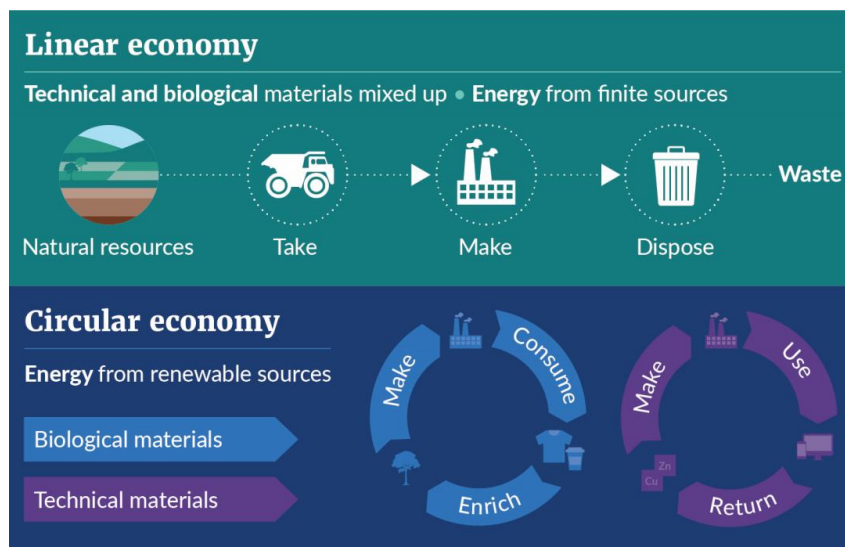


Figure 2 Characteristics of linear and circular economies

The Ellen MacArthur Foundation has led international thinking on the circular economy since it was created in 2010. This is the Foundation’s description of the circular economy:

The circular economy is based on three principles, driven by design:

- Eliminate waste and pollution
- Circulate products and materials (at their highest value)
- Regenerate nature.



It is underpinned by a transition to renewable energy and materials. A circular economy decouples economic activity from the consumption of finite resources. It is a resilient system that is good for business, people and the environment. (Ellen MacArthur Foundation, Circular Economy Introduction: What is a Circular Economy? Retrieved from <https://ellenmacarthurfoundation.org/topics/circular-economy-introduction/overview> (9 November 2022)).

Committing Aotearoa New Zealand to a circular economy means we stay in step with many of our major trading partners. We have already committed to developing a full circular economy and bioeconomy strategy in the Emissions Reduction Plan. This waste strategy is an essential first step. It builds on internationally recognised circular economy principles and adapts them for our context.

2.2.2 National targets

The NZWS sets three national targets to be achieved by 2030 (see Figure 3).

- Waste generation: reduce the amount of material entering the waste management system, by 10 per cent per person.
- Waste disposal: reduce the amount of material that needs final disposal, by 30 per cent per person.
- Waste emissions: reduce the biogenic methane emissions from waste, by at least 30 per cent.

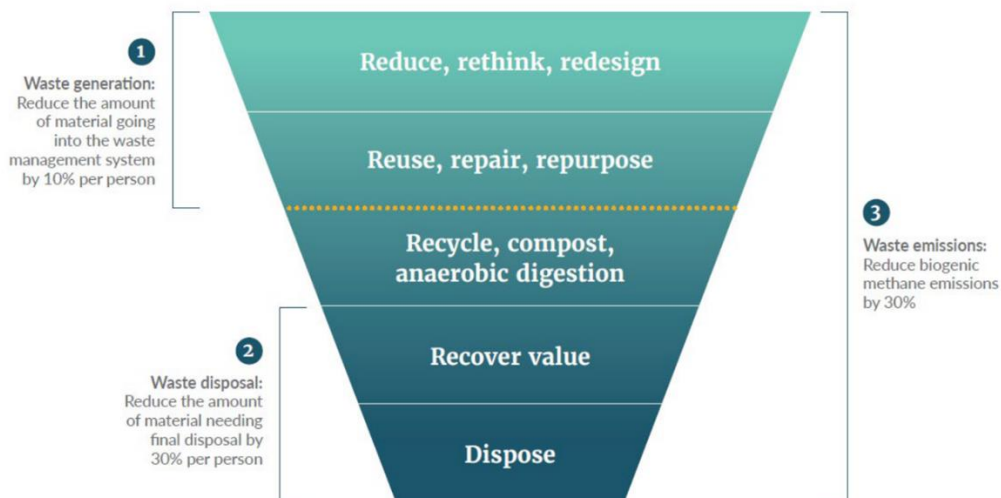


Figure 3 Waste hierarchy with targets

2.2.3 National goals

The strategy has the following eight goals:

- 1. Systems:**
The Strategic planning, regulatory, investment and engagement systems are in place and operating to drive and support change.
- 2. Infrastructure:**
We have a comprehensive national network of facilities supporting the collection and circular management of products and materials.



3. **Responsibility and accountability:**
We all take responsibility for how we produce, manage and dispose of things, and are accountable for our actions and their consequences.
4. **Using less:**
We use fewer products and materials, and using them for longer, by making them more durable, and repairing, reusing, sharing and repurposing them.
5. **Resource recovery systems:**
Resource recovery systems are operating effectively for core materials and across all regions.
6. **Recovering value:**
We look for ways to recover any remaining value from residual waste, sustainably and without increasing emissions, before final disposal.
7. **Emissions:**
Emissions from waste are reducing in line with our domestic and international commitments.
8. **Contaminated land:**
Contaminated land is sustainably managed and remediated, to reduce waste and emissions and enhance the environment.

2.2.4 Local government actions

The NZWS includes the following actions for local government:

- Get involved in implementing the NZWS and the process to develop an action and investment plan (AIP). Use the NZWS as the starting point for their next WMMP.
- Look for opportunities to work with other councils on new, or expanded, facilities and services that will contribute to a national network for circular management of resources.
- Support local community groups and non-governmental organisations with their initiatives to reduce waste (such as the Zero Waste Network and their commercial arm [Localised](#)).
- Link with national behaviour change programmes to support and expand the reach of your local activity.
- Make sure that planning and consenting processes take account of the need for waste management infrastructure and services.
- Plan and resource the work needed to identify and manage vulnerable landfills and other contaminated sites.

Note that councils will need to align their next WMMPs with the NZWS. Once the AIP is developed, they will also need to align it. As such, the AIP will inform later WMMP reviews, e.g. 2030 for the South Canterbury Councils. In the meantime, the government's early investment signals through the Waste Minimisation Fund (WMF) take priority.

2.3 National initiatives

Many waste minimisation initiatives are more suitably implemented at a national level. Work here is needed with the national bodies, such as WasteMINZ and MfE, to encourage ongoing support for and the implementation of national waste minimisation activities through a coordinated advocacy approach to government and industry. National initiatives include:

- Development of the government's first AIP 2024-2028.



- Government investment in diversion infrastructure via the WMF Fund and Climate Emergency Response Fund (CERF). The current funding round focuses on organic waste diversion e.g. infrastructure for food waste collection for residents and businesses, processing facilities for food waste and other organics, sorting of construction and demolition (C&D) waste with a focus on timber.
- Standardisation of the kerbside collection system including:
 - Standardised list of materials collected
 - Introduction of kerbside organics and recycling in urban areas by 2030
 - Meeting a minimum diversion target of 50% by 2030.
- Establishment of a Container Return Scheme (CRS) for beverage containers.
- Banning of specific grades of plastics for packaging and some single-use plastics.
- Introduction of priority product stewardship schemes e.g. tyres, agrichemicals, e-waste, plastics packaging.
- Ongoing implementation of increases to the Waste Disposal Levy and Emissions Trading Scheme costs, as well as expansion of the Levy application to Class 2-4 Landfills, (e.g. construction and demolition waste landfills, and managed fill and clean fill sites).
- Introduction of the transfer station reporting using an agreed National Waste Data Framework.

2.4 South Canterbury Councils strategic plans and regulations

In addition to national legislation, strategies, plans and initiatives, there are local strategies, plans and regulations that also govern direction on waste management and minimisation in South Canterbury.

The South Canterbury Councils are members of the Canterbury Waste Joint Committee which reviews and implements regional waste minimisation strategies and determines what regional infrastructure is required to support waste diversion across the region. Contestable funding is also available for projects that promote Waste Minimisation, Infrastructure Development and Support for Behaviour Change initiatives.

The Councils are about to prepare their 2024-2034 LTPs, which will be informed by their WMMPs. Extracts from the Councils 2021-2031 LTPs are provided below as an indication of their existing strategic direction on waste.

2.4.1 TDC Long Term Plan

TDC's vision within its Long Term Plan 2021-2031 is '*Where people, place and business prosper within a healthy, adaptable and regenerative environment*'. It includes the following community wellbeing outcomes:

- Connected Citizens
- Enhanced Lifestyle
- Sustainable Environment
- Diverse Economy
- Resilient Infrastructure

In relation to creating a sustainable environment, it has the following focus areas:

- Kaitiakitanga – We will foster a strong connection between our people and the environment.
- Low Carbon and Energy – We will promote and support low-carbon, low-energy practices.



- Minimise Waste – We will lead and promote waste minimisation.
- Clean Environment – We will prioritise sustainable land and water use to help regenerate our environment.
- Encourage Biodiversity – We will support practices, partnerships and policies to protect and regenerate our native flora and fauna.

The waste minimisation activity contributes to TDC's vision by:

- Encouraging waste minimisation and better waste management practices to reduce the impact on public health, and the amount of waste going to landfill, which results in a reduction in greenhouse gas emissions, composting of green waste and food waste which eventually goes back onto the land to improve soil structure, and reusing waste materials which can lower the demand for raw materials.
- Collection and appropriate disposal of waste reduces the potential for disease and vermin issues, and degradation of the environment (land and water).
- Managing waste locally to reduce financial and environmental cost of transporting waste out of district for disposal.
- Landscaping of facilities and closed landfill areas provides enhanced amenity areas (e.g. Saltwater Creek walkway) and recreational venues.

2.4.2 MDC Long Term Plan

MDC's vision within its Long Term Plan 2021-2031 is *'To empower our communities and treasure our environment'*. It includes the following community outcomes:

- A treasured environment
- Resilient, successful communities
- Strong and innovative economy
- Embrace heritage and diversity

Council seeks to provide efficient waste management services and divert as much solid waste from landfill as possible by encouraging recycling and creating more recycling opportunities. The waste management and minimisation activity contributes to the following community outcomes:

- A treasured environment – Minimising the amount of waste in landfills and managing waste more efficiently reduces the impact of waste on the environment.
- Resilient, successful communities – Providing the community with recycling opportunities, and kerbside collection services keeps the community clean and safe.
- Strong and innovative economy – Promoting and educating the community and businesses around waste minimisation and recycling can reduce costs associated with landfill. Clean streets also allow businesses to thrive.

2.4.3 WDC Long Term Plan

WDC's vision within its Long Term Plan 2021-2031 is *'Leading our communities towards a diverse, thriving and sustainable district'*. It includes the following community outcomes:

- Thriving communities
- Safe & healthy people



- Sustainable district & environment
- Active, diverse, supportive community

Waste management is necessary for the health and wellbeing of the community and environment. Council has identified the following challenges within the waste management activity:

- The reduction of waste and waste to landfill
- Improved recycling and recovery
- Further encouragement to reduce and reuse.

2.4.4 Solid Waste Bylaw

The WMA requires councils to review their waste bylaws at least every ten years. Waste-related bylaws must not be inconsistent with a council's WMMP which is reviewed every six years. With a review of the WMMP in 2024, the Councils must ensure their existing waste bylaws remain fit for purpose. The three Councils' waste bylaws were last reviewed in 2018 and 2021 following the award of their new waste contracts and new kerbside collection services commencing in Waimate and Mackenzie. Following the review of the WMMP, the waste bylaws will be checked for consistency. Changes to the WMA may also require waste bylaws to be updated once the new legislation is passed.

2.4.5 Regulatory functions

In addition to waste facility assets and the provision of services, Councils also have responsibilities and powers as a regulator and statutory obligations placed upon them by the WMA.

Councils operate in the role of regulator with respect to:

- management of litter and illegal dumping under the Litter Act 1979
- trade waste requirements
- nuisance-related bylaws.

Targeted education programmes are generally more effective than enforcement for changing the behaviour of residents and businesses. However, it is acknowledged that enforcement actions would provide a backup when other avenues have been exhausted.

Making it easy for residents and businesses to do the right thing can be enhanced through the provision of fit for purpose services and facilities at accessible locations. Clear messaging, signage and directions are also instrumental in changing behaviours and encouraging residents and businesses in South Canterbury to minimise waste to landfill.

The management and enforcement of the Litter Act (including illegal dumping) for Timaru District Council is the responsibility of the roading team and regulatory team. For Mackenzie and Waimate District Councils this is primarily the regulatory team.

3 Existing Facilities and Services

This section includes a summary of information regarding waste management and minimisation services and facilities provided in South Canterbury. This includes TDC, MDC and WDC services as well as private and commercial services, where known and applicable.



3.1 Council provided facilities and services

From 1 July 2021 for TDC and WDC, and 1 October 2021 for MDC, EnviroNZ was contracted to provide kerbside collection and resource recovery park (RRP) and transfer station operations for all three councils. In addition, EnviroNZ now operate TDC’s Redruth resource recovery facilities and landfill, which are used by all three councils. The Redruth facility includes a Material Recovery Facility (MRF) for sorting recyclables, a glass handling facility, and a composting facility for food and green waste processing.

The Crows Nest reuse shop and education centre is operated by the Sustainable South Canterbury Trust. They also provide a pick-up service for bulky reusable household items.

The Councils RRP and transfer stations collect a range of materials (as per each Councils website):

- Recyclables
- Reusable items drop-off
- Whiteware drop-off
- E-waste (TV/Monitors, etc) drop-off
- End of life tyre drop-off
- Metal recovery (at Timaru Metal Recyclers)
- Battery Stations (also at some supermarkets)
- Textile Recycling Stations (for WDC, Clothing bins also at other locations)
- Waste Oil drop-off
- Motor Battery Services drop-off
- Domestic volumes of some hazardous chemicals.

The Councils have other arrangements or contracts in place for the management of illegal dumping, litter, and public litter bin emptying.

The services provided by the South Canterbury Councils are listed below.

Table 1 Council provided facilities and services

Service Type	TDC	MDC	WDC
Kerbside Collection	Residential fortnightly kerbside collection of refuse Residential weekly kerbside collection of organics (food and green waste) Residential fortnightly kerbside collection of mixed recycling Residential fortnightly kerbside collection of glass in TDC, weekly in MDC and WDC (including some businesses and rural residential where the Council service meets their needs).		
Transfer stations & RRP	Pleasant Point transfer station Geraldine transfer station Temuka transfer station Redruth RRP	Twizel RRP Fairlie RRP Tekapo RRP	Waimate RRP
Public Place Bins Servicing	30 sets of public place bins. Special event bins are provided as required. Other town centre and parks bins are also provided by other TDC departments.	11 sets of public place bins, 8 single rubbish bins and 4 dog dropping bins. Special event bins are provided as required. Other town centre bins are provided.	16 sets of public place bins; 20 rubbish, 2 recycling, 2 glass. Special event bins are provided as required. Other town centre and parks bins are provided.
Other Operations	Redruth facilities including landfill, hardfill and cleanfill	None.	10 rural recycling stations (located within road reserve or



Service Type	TDC	MDC	WDC
	areas, MRF, compost facility, glass handling facility, the Crows Nest reuse shop, and Eco Centre education centre.		carparks).
Class 1 landfills	Redruth Landfill.	None.	None.
Class 5 landfills	Hardfill and cleanfill areas at Redruth.	Twizel cleanfill site Fairlie cleanfill site Tekapo cleanfill site.	Waimate cleanfill site, 39 MacNamara Rd, adjacent to RRP.
Closed landfill management (full list Appendix C)	34 closed landfill sites.	6 closed landfill sites.	8 closed landfill sites.
Education	Waste minimisation education and behaviour change programmes (funded through rates and Waste Levy funds) provided by two EnviroNZ educators		

The TDC Peel Forest Closed Landfill on the banks of the river has been subject to erosion. There is a significant capital works project underway to remediate this closed landfill. Remedial work is underway to prevent further erosion to the Rangitata River at Peel Forest Landfill. Some waste from the site is being removed and is being transferred to Redruth Landfill.

3.2 Non-council facilities and services

In addition to the kerbside services provided by Councils, private operators such as EnviroNZ, Waste Management, Garbo Rubbish Removals, WasteCo, and Waste Away also offer user-pays kerbside refuse, recycling, and green waste collections to urban households. The Department of Conservation also provide waste services within the Aoraki Mount Cook National Park. The extent of households that use private collections is not known, but it is expected to be minor given the Councils provide a rate funded kerbside service.

Several commercial operators offer gantry skip bin services to householders for the occasional disposal of larger quantities of waste. Different sizes of bins are available, with specific bins being available for dense materials such as hard fill and soil.

Commercial waste operators provide waste and recycling services for most businesses in South Canterbury. Depending on the volume of waste generated, wheelie bins, gantry bins, and front-loader bins are available. Some businesses transport their own waste and recycling to one of the Councils’ facilities using their own transport equipment.

In Mackenzie District, as the neighbouring Waitaki District Council does not provide a council kerbside collection service, some households and businesses use the Mackenzie District Transfer Station facilities. The extent of out of district waste is unknown as it’s not able to be separately identified.

The South Canterbury Councils and private collectors predominantly use the Redruth facilities for processing and disposal of material. Some commercial waste is transported to resource recovery and disposal facilities outside South Canterbury. There are other diverted processing facilities in South Canterbury that are also available. For example, some recyclables are transported to EcoCentral in Christchurch, and TDC provide a scrap metal yard at Timaru Metal Recyclers, Redruth St, Timaru.

End markets for materials sorted and processed at Redruth are all privately owned:

- Glass is transported to Visy’s glass furnace in Auckland, except for MDC glass from Twizel and Tekapo which goes to Road Metals in Twizel.



- Flat (proposed), and window glass is transported to 5R in Christchurch.
- Paper, cardboard, and plastics are sorted by type then baled and transported to local and overseas reprocessors.
- Metals (kerbside collected tins and cans, whiteware and scrap metals) are collected by local reprocessors, such as Timaru Metal Recyclers/ Phoenix Metal Recyclers.
- E-waste and batteries - E-Cycle.
- Tyres - Southern X Press Ltd or Waste Management.
- Tyre Collection Services Ltd at Christchurch.
- Polystyrene and shrinkwrap – EnviroNZ.
- Soil remediation facility in Temuka – Canterbury Enviro Solutions.
- Proposed Class 2 – 4 landfill, 1315 Taiko Rd, Cave (lime rock quarry) – Canterbury Enviro Solutions.

There are currently no registered Class 2-4 landfills in the South Canterbury area. Environment Canterbury is currently processing a consent for a new Class 2 landfill at 1315 Taiko Rd, Cave. MDC and WDC have Class 5 Cleanfill sites located on closed landfills. MDC is currently in the process of applying for consents for their Cleanfill sites, which may mean they become Class 4 landfills in future.

Currently the Redruth Landfill is the only Class 1 disposal facility in the South Canterbury area.

A resource consent application has been received by WDC for a Waste to Energy facility in the Waimate District. This has been referred together with Environment Canterbury to the Environment Count. If consented, this would provide an additional waste disposal option, however, at this stage the source of waste is unknown, and the project is not fully supported by the community.

3.3 Product stewardship schemes

The government is focused on developing regulated schemes for six priority products: plastic packaging, tyres, e-waste including large batteries, agrichemicals and their containers, refrigerants and other synthetic greenhouse gases, and farm plastics. In addition, product stewardship schemes can register for accreditation with the government. A summary of the current product stewardship schemes that have either been accredited or regulated by the government under the WMA is outlined in Table 2. Over time, more product stewardship schemes are expected to be added to this list, and some of the existing accredited schemes are moving towards becoming regulated schemes. Unregulated schemes are not included in this list.

Table 2 Existing product stewardship schemes in New Zealand – regulated and accredited

Scheme Name	Regulated / accredited	Details
Agrecovery Foundation	Accredited scheme, working towards regulated status	Provides NZ farmers and growers with programmes for container recycling, drum recovery and collection of unwanted and/or expired chemicals. Also provides systems for return of shrink wrap and other farm plastics.
Envirocon	Accredited scheme, non-regulated	Waste concrete (including potentially harmful liquids) is diverted from landfill and upcycled into value-added precast concrete products for the Interbloc Modular Wall System.
Filter disposal services	Accredited scheme, non-regulated	Take back scheme for used oil filters from vehicles.
Glass Packaging Forum	Accredited scheme, non-regulated	The forum connects businesses that sell glass-packaged consumer goods with those that collect and recycle glass. This helps to improve



Scheme Name	Regulated / accredited	Details
		the quality and quantity of glass recycled. The aim is zero container glass to landfill.
Interface ReEntry Programme	Accredited scheme, non-regulated	The scheme recycles used Interface carpet tiles into new carpet tiles and other products. PVC backed carpet tiles beyond their usable life are sent back to the original manufacturer in the US where they are stripped and remanufactured.
Large batteries	Currently in design phase for regulated scheme	Managed by the Battery Industry Group, covering batteries greater than 5kg, excluding lead-acid batteries.
Plasback	Accredited scheme, non-regulated	Plasback collects and recycles agricultural plastics such as bale and silage wrap, and crop bags.
Plastic packaging	Currently in design phase for regulated scheme	The Packaging Forum and New Zealand Food and Grocery Council are leading the two-year co-design process on plastic packaging.
Refrigerant recovery scheme	Accredited scheme, currently in design phase for regulated scheme	The Trust for the Destruction of Synthetic Refrigerants, also known as RECOVERY collects and responsibly disposes of refrigerants used in the refrigeration and air conditioning industries.
Resene Paintwise	Accredited scheme, non-regulated	Take-back of paint and paint receptacles. User pays for non-Resene branded paint and paint receptacles.
Recovery Oil Saves the Environment (ROSE)	Accredited scheme, non-regulated	The used-oil recovery programme enables users, oil producers and regulators to responsibly collect, transport, use and dispose of used oil.
Soft Plastic Recycling Scheme	Accredited scheme, non-regulated	Soft plastic packaging is collected from participating stores and delivered to two NZ processors – Future Post in Waiuku and Second Life Plastics in Levin. The soft plastics are made into new products such as plastic fence posts, cable covers & garden edging.
Sharp Comprehensive Recycling and Waste Reduction Scheme	Accredited scheme, non-regulated	Sharp New Zealand aims to reuse and recycle 100% of its packaging materials, electronic products, equipment and obsolete and used parts.
Synthetic refrigerant scheme	Design phase for regulated scheme	End of life refrigerant management scheme.
TechCollect	Design phase for regulated scheme	End of life e-waste scheme.
Tyrewise	Regulated scheme	New Zealand's first regulated product stewardship scheme covering the management of tyres.

4 Waste data

It is important for the Councils to understand the quantity and composition of waste coming through their facilities and services so that it can identify opportunities to reduce waste to landfill and measure progress against targeted improvements. This section contains a summary of the available data for waste collected, recycled, recovered, and disposed of via the Councils' collection services and facilities. This includes data for the period July 2021 to March 2023 (MDC kerbside data starts from December 2021) as well as SWAP surveys from 2022. This is the core data set used for performance measure reporting and setting targets. It is noted that the Councils do not have access to waste data unless the material comes through a council-owned facility.



At a high level, observations from the data show:

- MDC’s refuse volume is seasonal due to the impact of tourism (high percentage of holiday homes in Tekapo and Twizel).
- The refuse volume for TDC and WDC remains relatively consistent throughout the analysis period.
- No data was available from the private and commercial sectors (other than what is disposed at Redruth landfill).

To obtain a better understanding of waste data within South Canterbury and how it compares to other territorial authorities, a per capita figure has been used as the first guide. This is the total amount of known waste collected, divided by the total number of people in a defined area. It is an indicator of average “waste” production or recyclables diverted on a per person basis but is not directly equivalent to the amount of waste an individual throws away each year, as much of the waste is produced from commercial sources.

The 2018 census stated the average household size for the South Canterbury region is approximately 2.3 people per household. Not all households receive kerbside collection services in the region. The following service entitled premise (household and business) numbers were used when Councils started the waste services contract with EnviroNZ. These premise/household numbers are used as a proxy to estimate the number of people who receive kerbside collection services:

- TDC – 20,602 service-entitled premises ≈ 47,385 people
- MDC – 2,700 service-entitled premises ≈ 6,210 people
- WDC – 2,600 service-entitled premises ≈ 5,980 people

4.1 Progress against the 2018 WMMP targets

The Councils’ progress against their 2018 WMMP targets is discussed in the following subsections.

4.1.1 Timaru District Council

Table 3 TDC waste targets

Levels of Service	Performance measure	Target 2021/22	2021/22 Achievement
Waste Minimisation services meet customer expectations	User satisfaction with waste minimisation services (biennial resident survey)	95%	Nearly achieved 91%
No adverse effects on the environment or human health from the operation of waste minimisation services	Compliance with Resource Consent Conditions (Excluding all minor non-compliance as reported by Environment Canterbury)	No abatement notices, infringement notices, enforcement orders and convictions	Not achieved One non-compliance notice issued during the year for stormwater leachate breakout into the stormwater system at Redruth landfill in February 2022 (2020/21: Achieved)
Waste is diverted from landfill	Materials Recovery Facility (MRF) – recycling net tonnages diverted	4,000 tonnes	Achieved 5,059 tonnes
	Compost Facility – Organic net tonnages diverted	15,000 tonnes	Achieved 18,576 tonnes
	Recycling net tonnages diverted via recycling other than for MRF recyclables	300 tonnes	Achieved 382 tonnes
	MRF – level of contamination of recycling	Less than 10%	Not achieved 26.48%



4.1.2 Mackenzie District Council

Table 4 MDC waste targets

Levels of Service	Performance measure	Target 2021/22	2021/22 Achievement
Engage the community to achieve waste reduction	The percentage of solid waste from the district resource recovery diverted from landfills	45% or above	Achieved Council-controlled waste 56%, Incl. commercial waste 51%
	The amount of household kerbside waste to landfill	152kg per person per annum	Achieved 100kg per person per annum
	Average customer satisfaction rating for kerbside waste collections	80% or above	Achieved 88%
	Average customer satisfaction rating for Resource Recovery Parks	80% or above	Not achieved 66% for 2022
Waste is handled hygienically	Compliance with resource consent conditions	100%	Achieved 100%

4.1.3 Waimate District Council

Table 5 WDC waste targets

Levels of Service	Performance measure	Target 2021/22	2021/22 Achievement
Convenient and accessible waste management services	Residents receiving the service are satisfied with waste management services	≥75%	Achieved 77%
	Council provides access to kerbside recycling & refuse collection	≥70% of the district's properties	Achieved 77.5%
Council manages the waste management services wisely	Compliance with Resource Consent conditions	Full compliance	Achieved
	Reduce the percentage of residual waste to landfill	<49%	Achieved 31.67%
Public information and programmes promote waste minimisation and appropriate sorting of waste	Number of fly tipping incidents in the district	≤15	Achieved 9 recorded
	Percentage of organics and recyclables in refuse collection bin	≤22%	Not achieved 57.2%

4.2 Waste quantities and composition

The following sections outline the quantum of waste volumes and composition for each council. This covers Councils' kerbside collection services and facilities. All waste materials controlled by Councils are eventually disposed of at Redruth landfill.

4.2.1 TDC kerbside waste

Figure 4 shows the composition of kerbside waste, recycling, glass and organic materials collected by TDC between July 2021 and March 2023. There is seasonal variability for organic materials that would peak around the summer period. The other material streams remain fairly consistent throughout the analysis period.

Timaru has an estimated service entitled population of 47,385 people. The total amount of kerbside rubbish collected in 2022 was 6,150 tonnes (includes all premises, both service entitled households and businesses). This equates to **130kg per capita per year**. The total kerbside materials collected in 2022 was 22,693 tonnes,



meaning 73% of the materials were diverted.

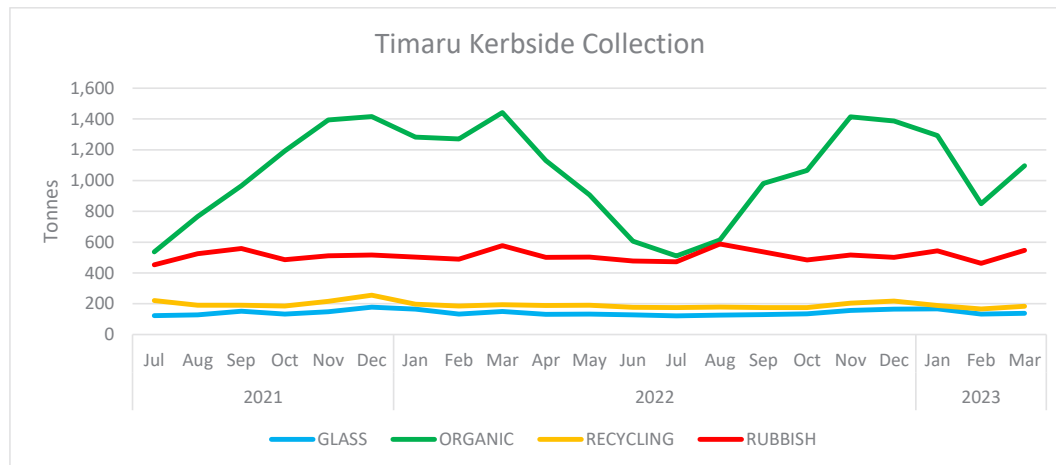


Figure 4 Volume of TDC kerbside collection

4.2.2 MDC kerbside waste

Figure 5 shows the composition of kerbside waste, recycling, glass and organic materials collected by MDC between July 2021 and March 2023. MDC has only started the collection of organic materials in March 2022 and there is still a significant variability in the quantities collected every month. This will gradually stabilise as residents become more aware of the service and how they use it. There is also seasonal variation in kerbside collections, with greater volumes collected during the summer peaks (December to January) in both 2021/22 and 2022/23.

Mackenzie has an estimated service entitled population of 6,210 people. Since the start of organics collections, the total amount of kerbside rubbish collected over the previous twelve months (April 2022 to March 2023) was 619 tonnes. This equates to **100kg per capita per year**. The total kerbside materials collected over this period was 1,818 tonnes, meaning 66% of the materials were diverted.

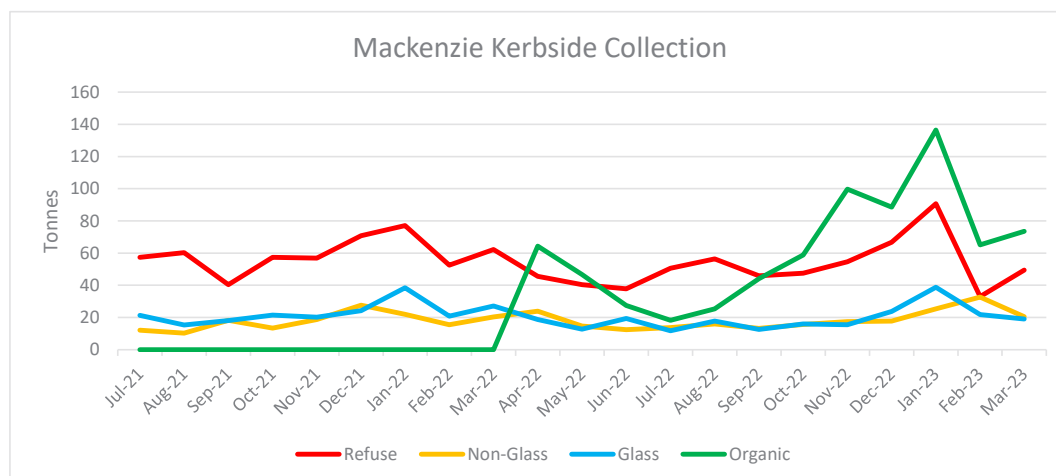


Figure 5 Volume of MDC kerbside collection



4.2.3 WDC kerbside waste

Figure 6 shows the composition of kerbside waste, recycling, glass and organic materials collected by WDC between December 2021 and March 2023. There is seasonal variability for organic materials, whereas the other material streams remain fairly consistent throughout the analysis period. These trends are very similar to TDC however at a much smaller scale.

Waimate has an estimated service entitled population of 5,980 people. The total amount of kerbside rubbish collected in 2022 was 672 tonnes. This equates to **112kg per capita per year**. The total kerbside materials collected in 2022 was 2,579 tonnes, meaning 74% of the materials were diverted.

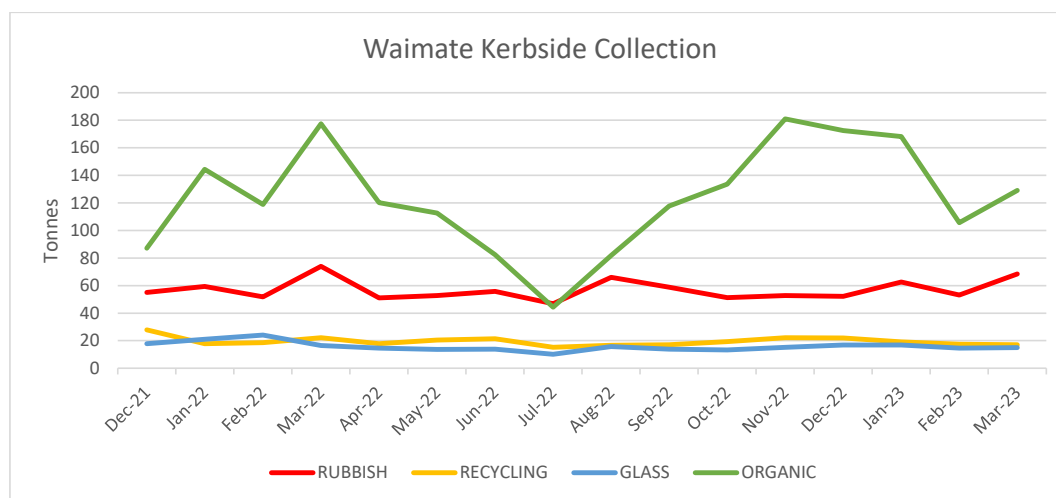


Figure 6 Volume of WDC kerbside collection

4.2.4 TDC Resource Recovery Parks

TDC owns and operates a Resource Recovery Park at Redruth, Timaru. Figure 7 shows the most common materials received at the Redruth Resource Recovery Park that are weighed. Rubbish and organic materials dropped off by the public were the most common and represent over 60% of total materials received. The inclusion of cleanfill and hardfill would represent over 95% of total materials received. Other diverted materials (such as e-waste, tyres) received accounted for approximately 1.6 tonnes, in 2022, excluding material taken directly to the Crows Nest reuse shop.

TDC also owns and operates three transfer stations at Geraldine, Pleasant Point, and Temuka. Figure 8 shows the composition of the weighed materials received at each transfer station. These are similar to the composition at Redruth RRP where rubbish and organic materials received from the public were the most common.

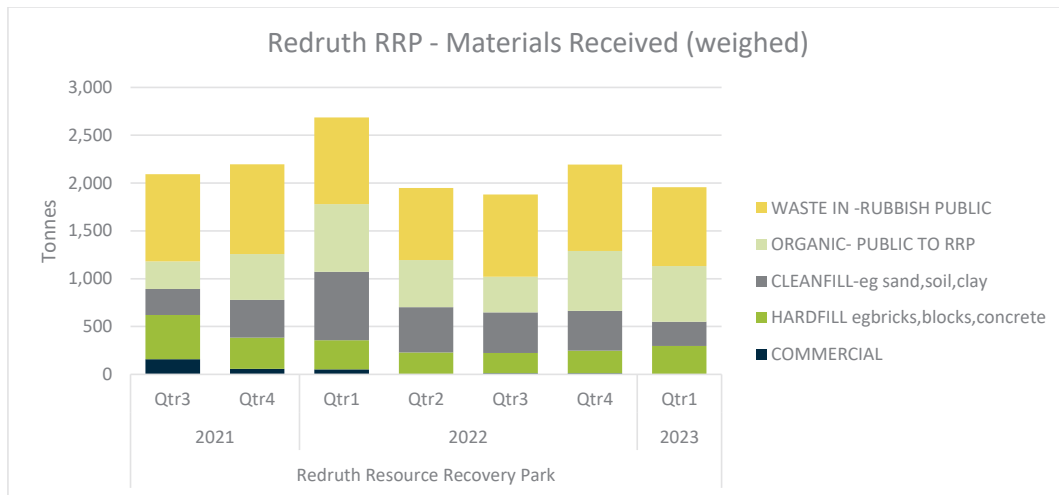


Figure 7 Composition of TDC’s Redruth Resource Recovery Park (weighed materials)

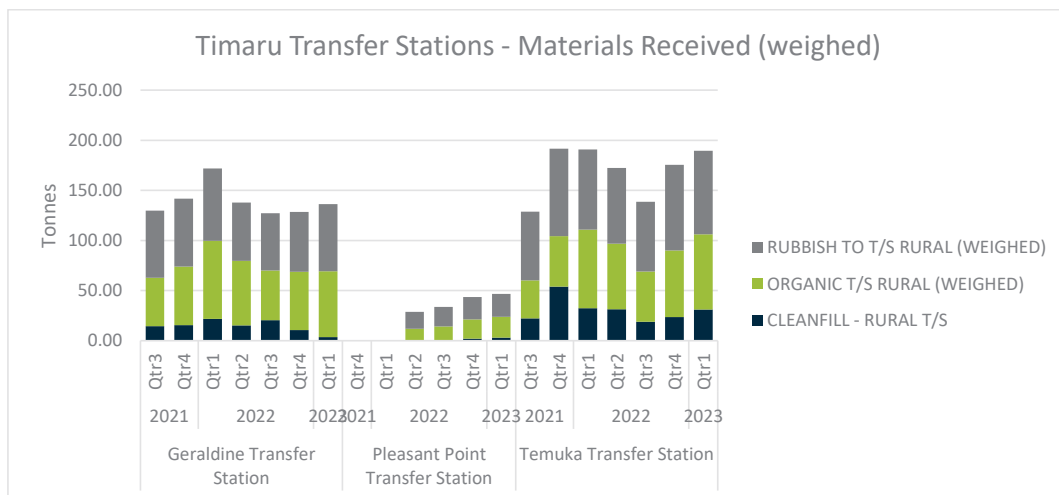


Figure 8 Composition of TDC’s transfer stations (weighed materials)

4.2.5 MDC Resource Recovery Parks

MDC owns and operates three RRP’s at Twizel, Fairlie and Tekapo. Currently, the Twizel RRP is the only RRP has a weighbridge installed. Materials received at Fairlie and Tekapo RRP are transferred, weighed and consolidated at Twizel RRP before they get transported to the Redruth facilities.

Figure 9 and Figure 10 showed the weighed and non-weighed materials received at the RRP’s. Similar to TDC facilities, rubbish and green waste materials appear to be the most common materials received at RRP’s. Furthermore, there appears to be an increasing trend for these materials to be disposed of at each RRP.

MDC has 3 cleanfill sites near the RRP that accept on average 192 tonnes per year.

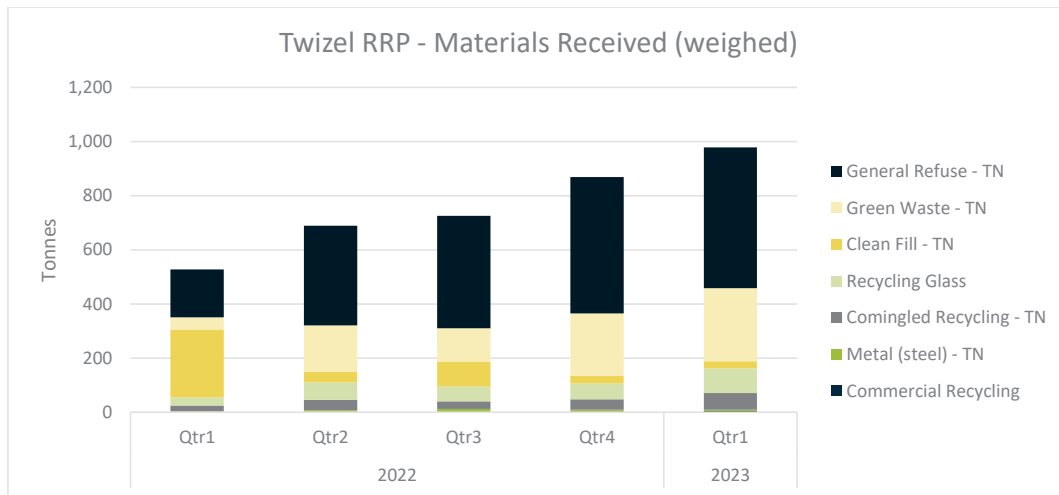


Figure 9 Composition of MDC’s Twizel Resource Recovery Park (weighed materials)

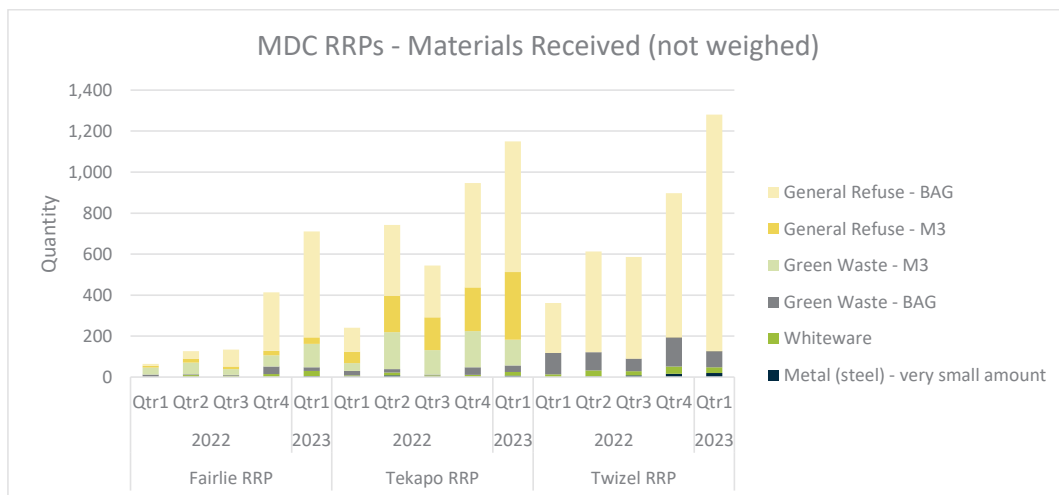


Figure 10 Composition of MDC’s Resource Recovery Parks (non-weighed materials)

4.2.6 WDC Resource Recovery Park

WDC owns and operates one RRP in the district, Waimate RRP. Figure 11 shows the composition of the weighed materials received at the facility from October 2021 to March 2023. The largest volumes being green waste, rubbish and hardfill.

In addition, WDC has a cleanfill site near the RRP. In 2021/22, 275 tonnes of material were deposited in this facility.

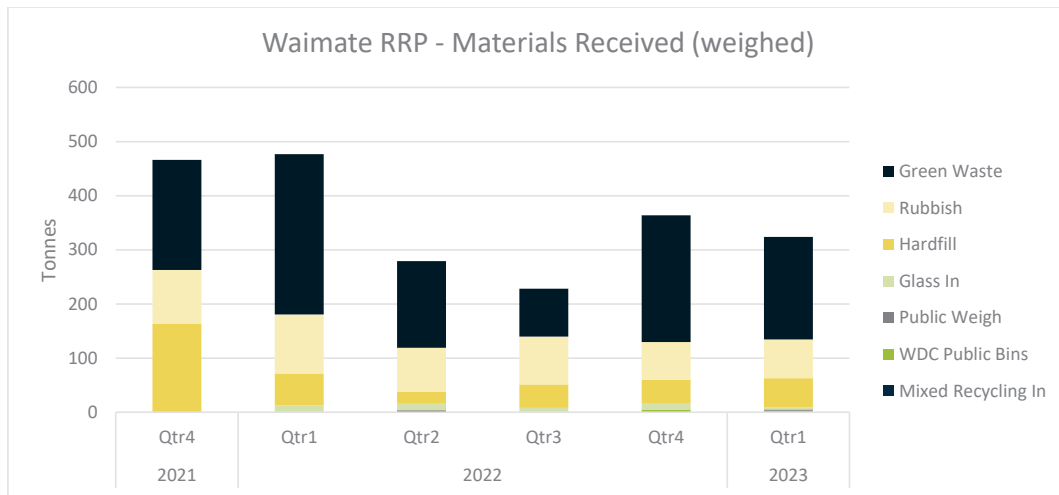


Figure 11 Composition of WDC’s Resource Recovery Park (weighed materials)

Lake Camping Collection: Waimate District Council organises collection of glass, mixed recycling, and rubbish from lakeside camping sites during the camping season – October to May. In the 2021/22 camping season, 17 tonnes of glass, 32 tonnes of rubbish and 3 tonnes of mixed recycling were collected.

Rural Recycling Depots: There is year-round collection of recyclables from rural recycling depots for mixed recycling and glass. In 2021/22, 87 tonnes of glass and 38 tonnes of mixed recycling were collected. The depots are located at Glenavy, Willowbridge, Murven, Makikihi, Saint Andrews, Holmes Station Road (Maungati), Hunter Domain, Forks Hotel, Station Peak, and Hakataramea (Wrights Crossing).

4.2.7 Farm Waste

Environment Canterbury has been participating in the New Zealand Rural Waste Minimisation Project. This project is looking at what options can be implemented to improve the services provided to farmers to support waste reduction and better manage risks associated with farm waste disposal. Surveys undertaken in 2018 reported that 80% of farms burnt or buried their waste on-site. No reliable data is available on the total volume of this farm waste.

Council-provided transfer stations are used by rural households to dispose of waste and recycling and some private waste companies provide rural collection services. Council transfer stations have supported product stewardship schemes such as Agrecovery.

4.2.8 TDC Regional Processing Facilities

TDC’s Redruth processing facilities consist of a Material Recovery Facility, a Glass Handling Facility, and an Organic Processing Facility. These facilities are managed by EnviroNZ as part of TDC’s waste services contract. Materials collected from kerbside, transfer stations and RRP’s in the Timaru, Mackenzie and Waimate districts are transported and processed at Redruth. The facilities also receive materials from other districts in the lower and central South Island.

Error! Reference source not found. Figure 12 shows the tonnage information for these facilities between July 2021 and March 2023. There is variability for materials received at the Organic Processing Facility and it generally follows the volume of organic materials received from the Councils’ kerbside collection. Organic materials received at Redruth were significantly higher than the other materials due to the inclusion of green



waste from kerbside collection.

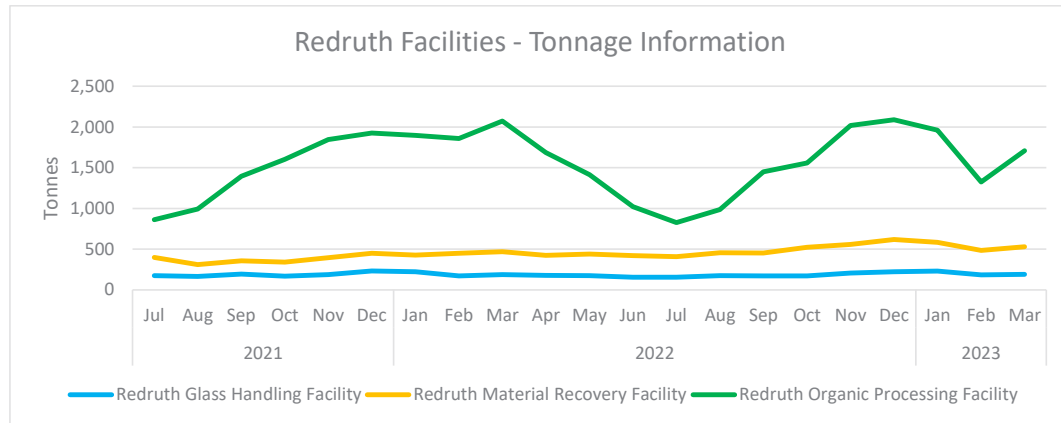


Figure 12 Tonnage information of TDC’s Redruth processing facilities

4.2.9 Waste to landfill

Waste in South Canterbury is disposed at TDC’s Redruth Landfill, a Class 1 landfill facility. The landfill also receives some waste from outside the South Canterbury area in accordance with the waste manifest system. The waste to landfill amounts for the 2021-2023 period are shown in Figure 13. The data includes residual waste from kerbside collections as well as general waste (resident and commercial) from a number of sources.

The most common material received at the landfill was waste generated from commercial, industrial and demolition activities. In addition to waste material, soil is accepted at the landfill that is used for landfill construction activities and cover. This includes soil used for daily cover, intermediate cover, final cover and the development of new cells. In order to optimise the airspace and life of Redruth landfill the material used for landfill construction and daily cover continues to be a focus area that TDC will target and reduce, whilst ensuring minimum operating requirements are met. Figure 14 shows the composition of commercial, industrial and demolition waste received at the landfill.

Unspecified wastes generally consist of residual waste materials transported from the Redruth processing facilities (e.g. contamination and processing losses), the Redruth RRP and the other Council transfer stations and RRPs.

The Redruth Landfill also receives special waste that includes hazardous waste, asbestos, milliscreenings, animal bodies and materials from closed landfill.

Figure 15 shows the waste disposed at Redruth landfill since 2006. Waste volumes reduced from 2006 to 2009, but since then rose until 2020. The rise was mostly gradual but there were spikes in 2010 and 2014. Since 2020, volumes have been reducing, with volume received in 2021 the lowest since 2009.

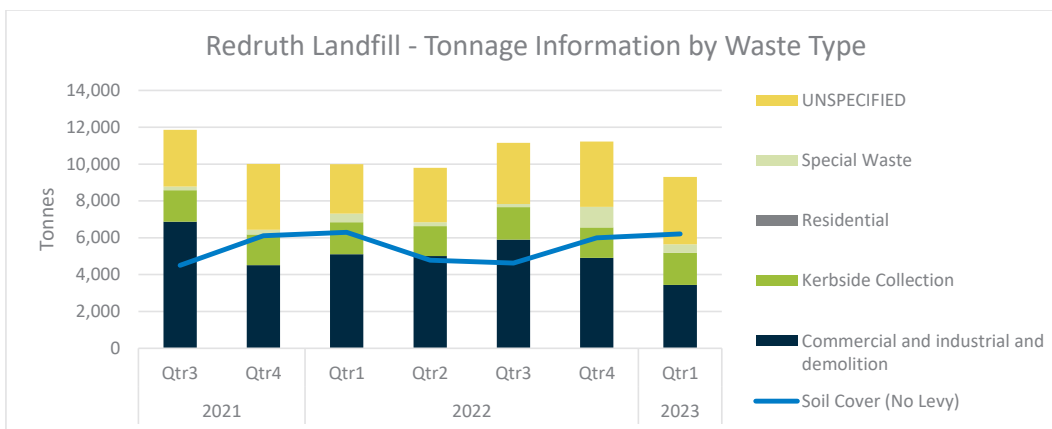


Figure 13 Waste type composition of Redruth Landfill

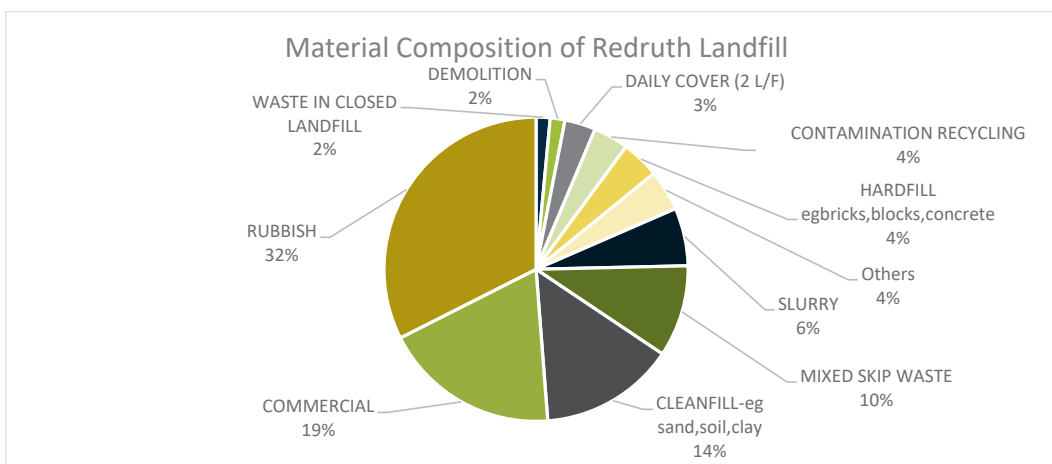


Figure 14 Materials composition of Redruth Landfill

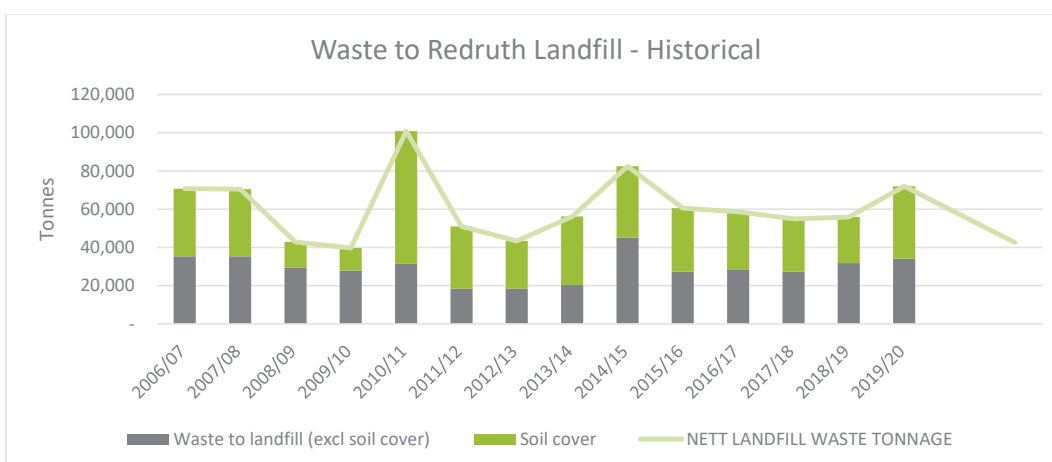


Figure 15 Waste to Redruth Landfill – Historical



4.3 SWAP results

The following analysis uses data obtained from the SWAP report for each council. The methodology for the sort-and-weigh audit of kerbside rubbish was based on Procedure One of the Ministry for the Environment’s Solid Waste Analysis Protocol 2002.

4.3.1 TDC Kerbside waste to landfill composition

Figure 16 below illustrates the kerbside composition of waste disposed in TDC 140-litre wheelie bins destined for landfill. Organics (food waste, green waste, compostable other), was the largest component, comprising 36% of the total.

Plastic was the second largest component of the waste stream, comprising 17%. Of this, plastic bag/film (9%) and plastic grade #1,2,5 bottles/containers (3%) could be recycled. Paper made up 10% of the wheelie bins, most of which was recyclable.

Similar to the other two councils, TDC has recently started the reporting of kerbside bins presentation rates. This information will provide an indication of bin utilisation that can be used to inform council’s future service intervention strategies. Initial results (as at March 2023) indicate the following presentation rates: Refuse (96%), Recycling (72%), Glass (27%) and Organics (72%).

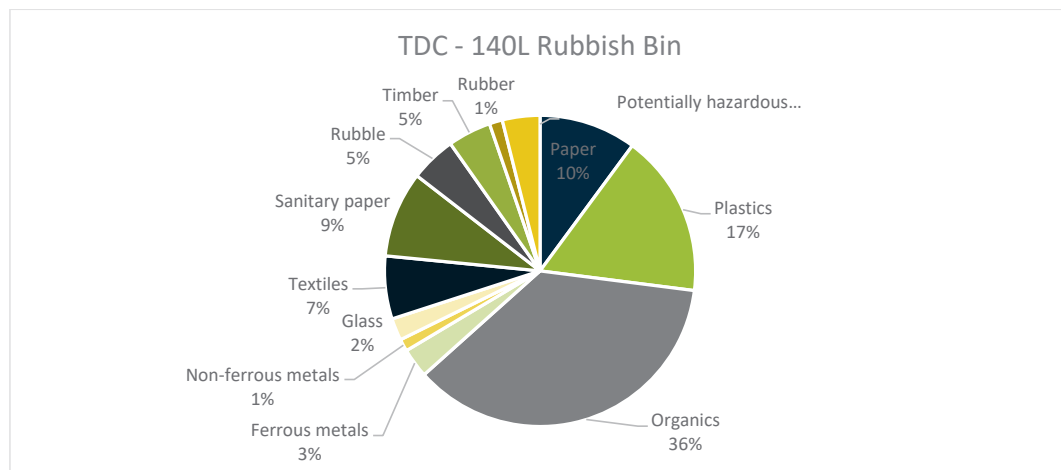


Figure 16 Primary composition of TDC 140-litre rubbish bins – 2022

Source: *Composition of Kerbside Rubbish in Timaru District, WasteNot Consulting, December 2022*

4.3.2 MDC Kerbside waste to landfill composition

Figure 17 below illustrates the kerbside primary composition of waste disposed in MDC 140-litre wheelie bins destined for landfill. Organics was the largest component, comprising 47% of the total.

Plastic was the second largest component of the waste stream, comprising 13%. Of this, plastic bag/film (8%) and plastic grade #1,2,5 bottles/containers (3%) could be recycled. Paper made up 6% of the wheelie bins, most of which was recyclable.

Figure 18 shows the bin presentation rates of kerbside collection. There is an increasing trend for organic bins to be presented for collection. This is expected as residents are gradually adopting the organic service. Seasonal trends can be observed for the other material streams around the summer peak periods.

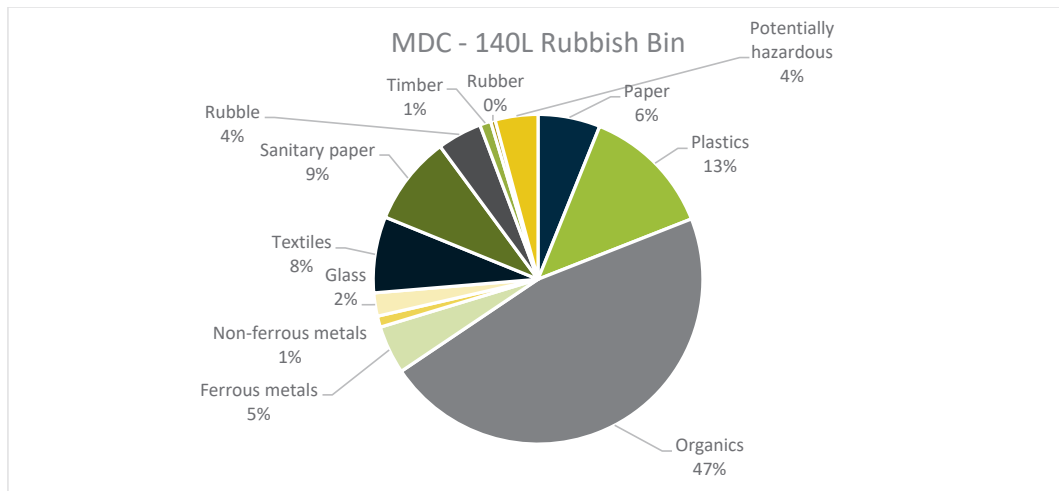


Figure 17 Primary composition of MDC 140-litre rubbish bins – 2022

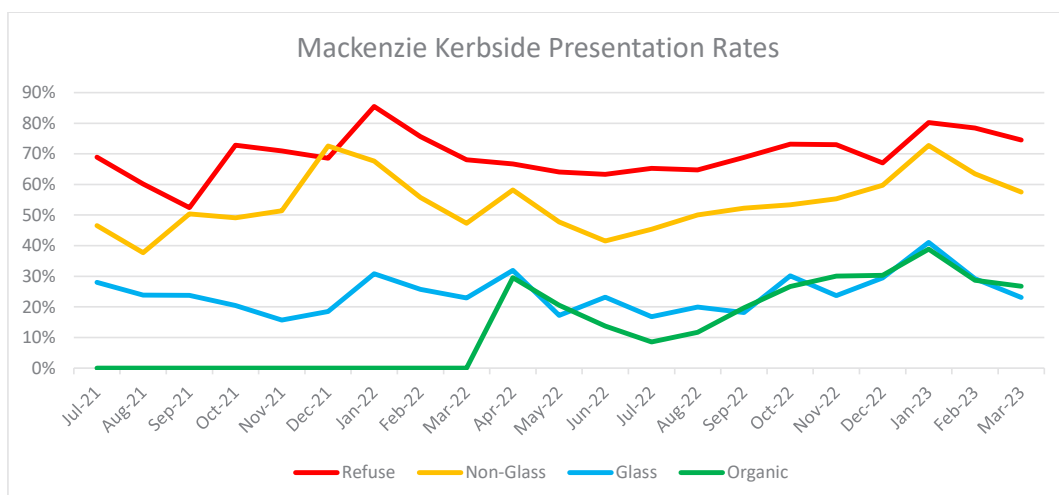


Figure 18 Presentation rates of MDC kerbside collection

4.3.3 WDC Kerbside waste to landfill composition

Figure 19 below illustrates the kerbside primary composition of waste disposed in MDC 140-litre wheelie bins destined for landfill. Organics was the largest component, comprising 40% of the total.

Plastic was the second largest component of the waste stream, comprising 15%. Of this, plastic bag/film (8%) and plastic grade #1,2,5 bottles/containers (2%) could be recycled. Paper made up 8% of the wheelie bins, most of which was recyclable.

Figure 20 shows the bin presentation rates of kerbside collection. The overall presentation rates remain fairly consistent for all material streams throughout the analysis period.

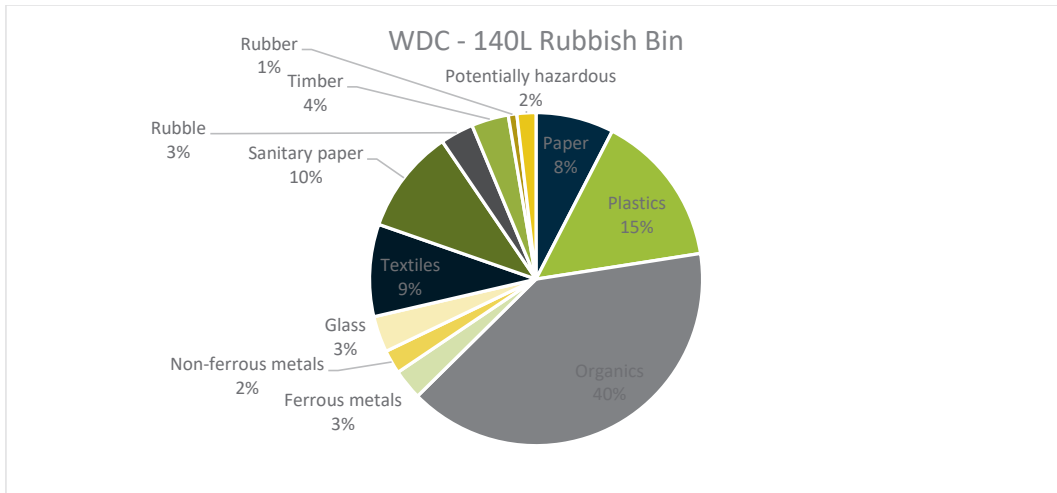


Figure 19 Primary composition of WDC 140-litre rubbish bins – 2022

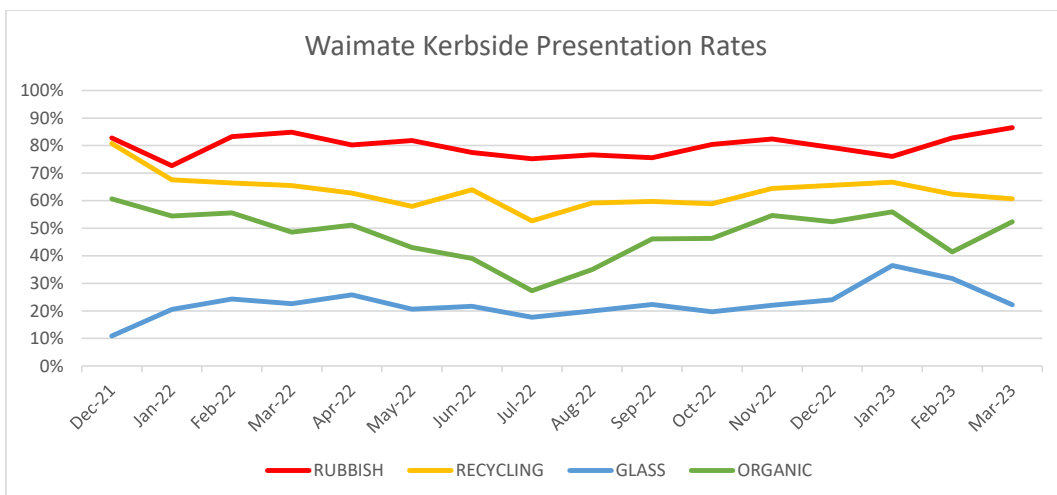


Figure 20 Presentation rates of WDC kerbside collection

4.4 Diversion potential

4.4.1 Councils' 140-Litre rubbish bins

To reduce waste to landfill, Councils provide residential properties with separate kerbside collections of mixed recycling, glass, and organics (food and green waste). The kerbside mixed recycling collection accepts #1,2,5 plastic bottles and containers, clean cardboard and paper, and steel and aluminium cans. Each council also operates their own drop-off facilities that accept all the materials accepted by the kerbside collection except food waste.

Figure 21 to Figure 23 below show the diversion potential of organics and recyclables from Councils' kerbside refuse wheelie bins based on the 2022 SWAP analysis, within which the divertible fraction of different



material types was identified. The average weight per refuse bin was 10 to 12kg. Not all materials collected in the refuse bin can be recycled or composted. However, it is evident that there are still significant amounts of material that can be recycled or composted, specifically food waste. This is promising for the possibility of diverting more material from landfill using the services already provided by the Councils.

For the Councils, 20-30% of the divertible material is recyclables that could be recycled via the kerbside mixed recycling and glass collection systems, while the remaining 70-80% could be composted via the kerbside organics collection system.

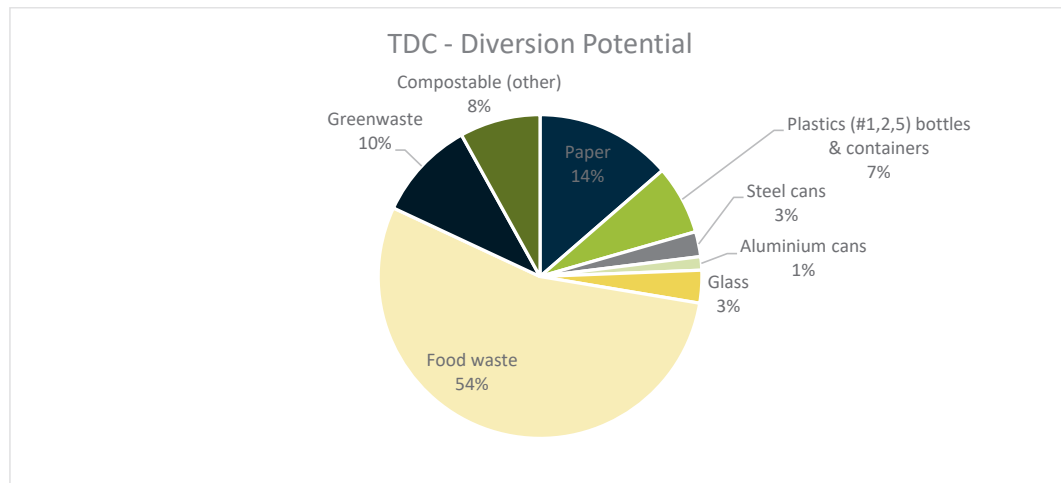


Figure 21 Diversion potential of TDC 140-litre rubbish bins – 2022

(Source: Composition of Kerbside Rubbish in Timaru District, WasteNot Consulting, December 2022)

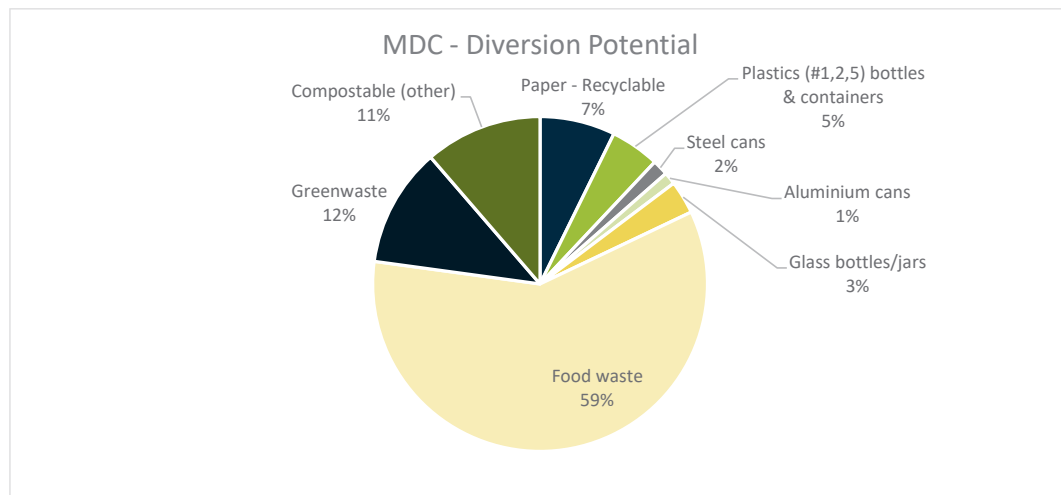


Figure 22 Diversion potential of MDC 140-litre rubbish bins – 2022

(Source: Composition of Kerbside Rubbish in Mackenzie District, WasteNot Consulting, December 2022)

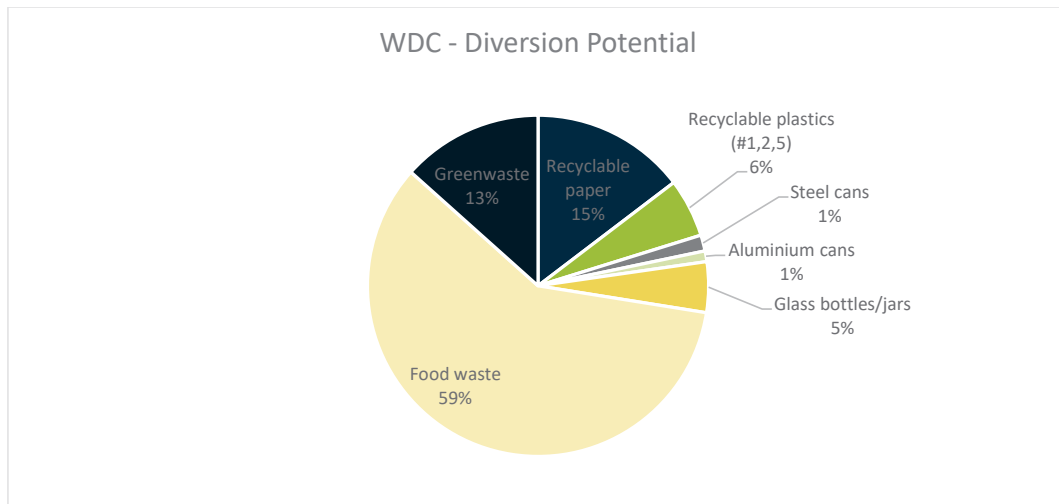


Figure 23 Diversion potential of WDC 140-litre rubbish bins – 2022

(Source: Audit of Kerbside Rubbish and Recycling in Waimate District, Sunshine Yates Consulting, November 2022)

4.4.2 Redruth Landfill

There is no current SWAP data available for Redruth Landfill that specifically identifies the diversion potential. However, from the weighbridge records there are still quantities of organic, recyclables within the general waste stream and C&D waste/cleanfill and hardfill mostly from commercial operators (that TDC has limited control over) that could be diverted from landfill.

5 Future Growth and Demand for Waste Services

The future demand for waste services will be influenced by several key drivers including:

- demographic change
- change in economic activity (such as tourism, construction)
- impact of waste flows (from other districts, change in service, availability of facilities, markets for recovered material)
- customer expectation, consumption patterns and product quality (behaviour change, packaging change)
- the occurrence of natural disaster events (significant earthquake or flood event)
- national policy and legislation change (refer Section 2).

5.1 Demographic change

Total waste is expected to increase due to population growth. As the population increases, the associated demand for waste services increases and diversion services are required to limit the pressure on landfill and other waste handling facilities, including the existing RTS network. Across the three Councils, long-term population growth is expected to be less than 1% per annum.



5.1.1 Timaru District

The population of the Timaru District was estimated at 48,400 in 2020. The District’s population is projected to increase gradually to 52,861 by 2031 (0.7% average annual increase), reaching 57,130 in 2051 (0.3% average annual increase).

The population is concentrated around Timaru township (2018 population approximately 30,000 - including Fairview and Washdyke) and in the smaller townships of Temuka (4,330), Geraldine (2,700) and Pleasant Point (1,400). The District also has a number of villages including Pareora, Orari, Cave, Winchester and Woodbury.

The district will continue to age over the next 30 years as the relatively large ‘baby boomer’ cohort moves into the 65+ age group. This means that by 2051, around 18,478 people will be in this age group or 32.3% of the district’s population. Within this cohort, by 2051 the population at higher ages (i.e. 75+) will more than double compared to 2021 (9%). Other age groups (e.g. below 15, 15-64) will grow much more slowly in comparison. Generally, those in the older age group with smaller households, generate less waste per household.

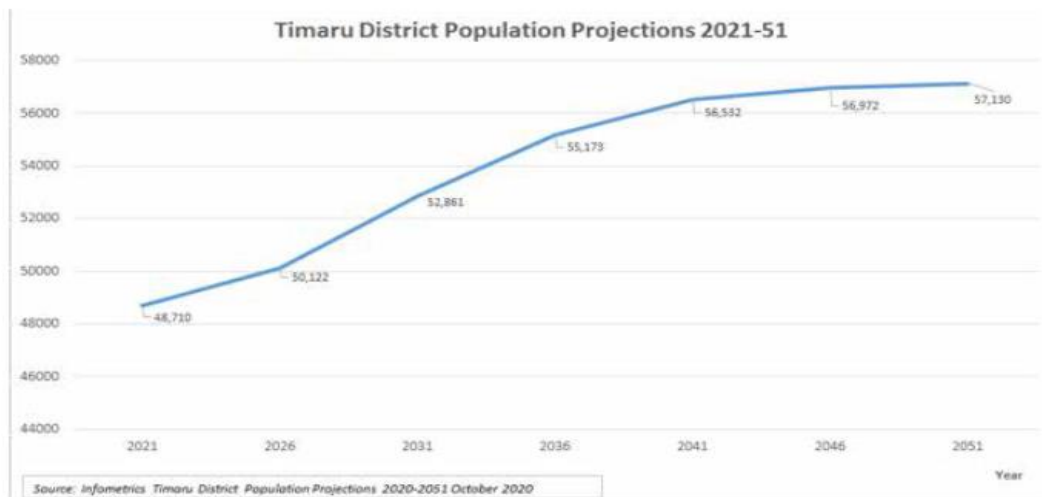


Figure 24 Timaru Population Projections

5.1.2 Mackenzie District

MDC’s population is predicted to continue to grow in all areas but at differing rates. The population is expected to be near 9,000 by 2050. Short term annual growth rate is around 2% with a long-term growth rate around 1.8%.

Tekapo is predicted to reach dwelling capacity in approximately 2030 and Twizel in approximately 2040. This capacity is calculated based on the currently zoned residential land in MDC’s Operative District Plan and current development patterns.

Following capacity being reached, the additional population, and dwellings, (i.e. unrestricted growth) generated by growth fall into the district overflow category. At this point there is too much uncertainty to predict exactly where these people will live. It is assumed that the ‘District Overflow’ will remain in the district if more dwellings are made available. This is predicted to occur in Tekapo between 2040 and 2045. It is not predicted to occur in Twizel before 2050.

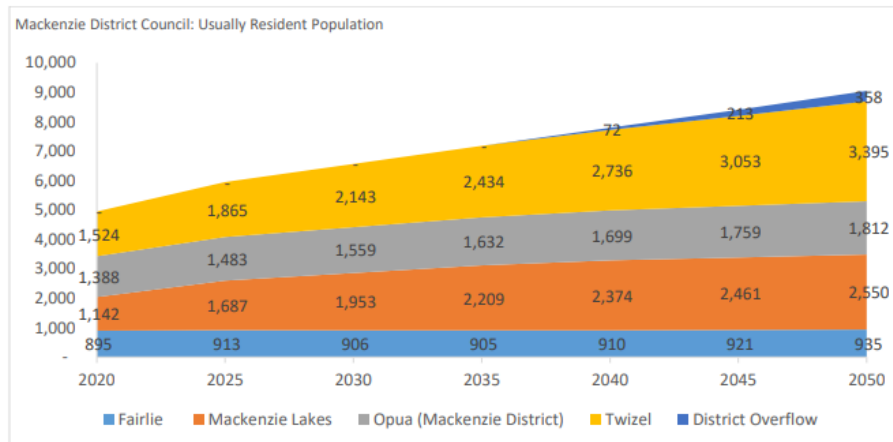


Figure 25 Mackenzie Population Projections

5.1.3 Waimate District

Over the next 30 years, the usually resident population of Waimate District is predicted to increase slightly.

The average age of Waimate District’s population is older than the national average of 37 years (Stats NZ). Looking across the district, Waimate town has a significantly older average age of 49 years in 2020 when compared to the outlying rural areas. This makes sense as people are living and working on farms then moving into Waimate for retirement later in life.

The medium growth scenario projects the District’s population to increase to 9,000 by 2050. Based on the medium projection, the population of the Waimate District is projected to grow by, on average, 0.4% a year between 2017 and 2050. This is less than the projected 1% a year growth rate of the Canterbury region and New Zealand’s total population.

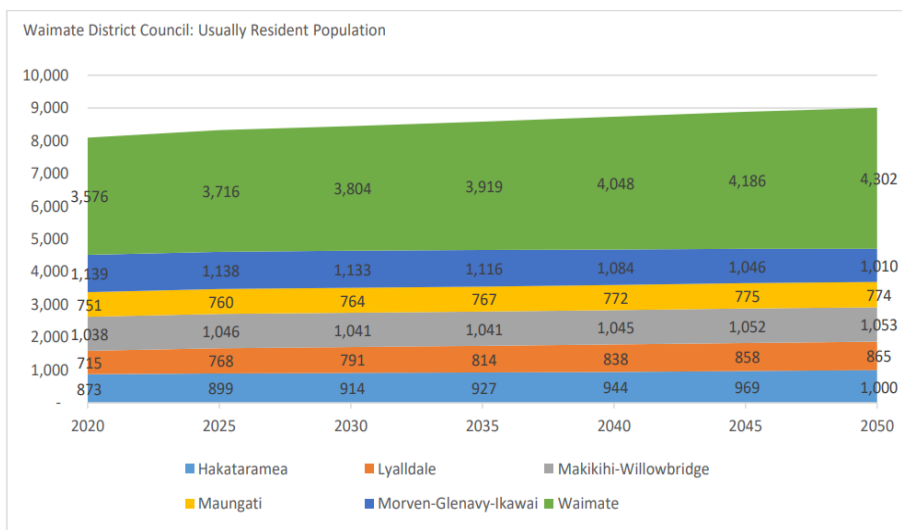


Figure 26 Waimate Population Projections



5.2 Economic activity

The other factor that has a large determinative effect on the volume of waste produced is industrial activity and economic conditions as measured by the Gross Domestic Product (GDP). In 2022, the impact of COVID-19 on the regional economies has been varied. Canterbury's underlying activity in the manufacturing, construction and agricultural sectors has provided some protection to the regional economy from COVID-19 impacts. The impact on tourism has been more significant although this impacts pockets of South Canterbury such as Tekapo and Twizel. The changes to the regional GDP are summarised as follows¹:

- Canterbury's GDP in the year ended March 2021 (latest available) was \$41 billion. This represents 13% of national GDP (compared with 17% of land area and 13% of national population).
- Canterbury's percentage change in GDP 2016-2021 was 24%, the third lowest percentage growth out of the regions, below the national level of 28%. Bay of Plenty had the highest percentage growth of 45% between 2006-2021.
- Canterbury's GDP grew by 1.1% in the year to March 2021, lagging behind growth rates in eight regions but close to the national GDP increase of 0.8%. Two regions experienced negative growth (Taranaki and Otago). In the previous year (to March 2020), Canterbury's GDP increased 4.7% and national GDP increase was 5.4%.
- Canterbury's GDP per person (March 2021) was \$63,523, just below the national GDP per capita (\$63,955) and much lower than GDP per person in Auckland (\$70,952) and Wellington (\$75,319)
- Over the decade 2011-2021, however, average annual per cent growth in GDP per person was higher in Canterbury (3.7%) than Wellington (2.7%), Auckland (3.7%) and New Zealand (3.2%). All regions experienced a negative growth in GDP per person from 2020 to 2021 (year ended March 2021).
- In the year ended March 2020 (latest available), manufacturing contributed 11% of Canterbury's GDP. Of this, primary manufacturing contributed 64%, other manufacturing 36%. Manufacturing contributes 9.8% of the national GDP, construction contributed 8.4% of regional GDP, (7% nationally) and professional, scientific and technical services 7.8% (8.3% nationally).

When considering future waste projections, economic growth in Canterbury has been considered in addition to the population growth in the region.

5.3 Waste from other areas

The policy, services, and facilities of one district or region can dramatically impact on demand for services in neighbouring districts. This is well demonstrated in other parts of New Zealand, where policy and/or pricing changes have a direct relationship on waste movements between districts. The location and pricing of landfills and transfer stations will have an effect on the amount of waste received by them. Pricing and location are the key causes of waste movement between districts.

For Mackenzie District, private out of district waste comes into the transfer stations mainly from the Waitaki District, with Omamara township and Lake Ohau Village neighbouring Twizel. Currently the Waitaki District Council provides an opt in kerbside service in Lake Ohau Village only. Commercial waste from out of district includes several of the large campgrounds in Waitaki that have commercial waste services.

As noted previously, materials received from Councils' kerbside collection or facilities would eventually be

¹ Canterbury wellbeing overview, August 2022, Canterbury Mayoral Forum



transported to Redruth for processing or disposal. Redruth landfill is a Class 1 landfill that also receives waste materials from out of district and private sectors. Changes to gate fees at Redruth and upgrades to Councils' facilities may reduce waste volumes received. Collaboration on diversion infrastructure could also help in future proofing diversion.

5.4 Community expectations and consumer behaviour

In the 2020 Colmar Brunton Better Futures report, the build-up of plastic in the environment and too much waste/rubbish generated, were ranked two of the top concerns for New Zealanders. If waste minimisation objectives continue to be important to the community, demand will continue for kerbside collection of recyclables and there will be increased demand for the collection of other recoverable materials as well as the associated processing infrastructure. There may be increasing pressure on existing resource recovery centres to expand their capacity and, if these objectives are to be met, there is likely to be a need for refuse transfer stations not currently providing recovery services to improve their operations. This could include expanding support for reusables and product stewardship schemes.

Consumer behaviour is a key driver for household waste generation in particular. OECD research indicates that there are a number of factors that influence household waste generation including:

- family composition, e.g. household numbers and children
- household income and size
- attitude toward the environment, consumption and recycling
- presence of volume-based charging systems for waste
- frequency of waste collection
- technological shifts and product supply changes
- increased product packaging
- presence of infrastructure and services to enable resource recovery
- changes in work-from-home dynamics.

These issues are the target of a range of council and government policies and programmes, both at a local and national level. Although contributing factors such as family size and household income are difficult to influence, there are positive correlations between attitude toward the environment and waste generation that can be influenced. Other important factors are the presence of charging systems, such as user-pays schemes and other economic disincentives such as waste levies.

Another example of how these factors can be influenced is through the establishment of product stewardship schemes for priority products (as outlined in Section 3.3).

5.5 Natural and man-made disasters

Natural and man-made disasters apply a different pressure upon waste services and other inter-related services by potentially creating a significant volume of waste, which may be contaminated, in a very short timeframe. The earthquakes in Christchurch and Kaikoura, the Covid-19 pandemic, Cyclone Gabrielle and the Auckland floods re-emphasise the need for planning. Lessons can be learnt from these events to assist in preparing for future natural disaster events in South Canterbury such as the need to provide additional capacity at transfer station and disposal facilities at short notice.



5.6 Future demand for waste facilities and services

Taking the above demand drivers into account, there will be continued pressure on existing waste management and minimisation infrastructure and services.

There is adequate Class 1 landfill disposal capacity in the medium to long term. Redruth Landfill is consented until 2030 and has sufficient space to continue accepting waste at current rates until 2050.

With limited information on the available Class 2-4 landfill facilities, the future capacity of these is unknown. There may continue to be pressure to dispose of C&D material and lightly contaminated soils at Redruth Landfill, when alternative sites are unavailable. In addition, cost-effective resource recovery alternatives are not currently available for C&D materials.

The Redruth processing facilities have capacity to accept all material from the South Canterbury sub-region in the medium to long term, with the potential to also accept volumes from neighbouring council areas.

Projected population growth means there will be increasing demand over time on Councils' kerbside collection services, transfer stations and RRP's. These demands can be met through expansion of collection fleets and existing transfer stations.

5.7 Projected waste volumes

The total waste volume in South Canterbury will continue to grow based on the factors covered earlier in this section. There are no known capacity issues which would prevent waste being collected. However, there are opportunities to reduce residential waste to landfill based on the diversion potentials identified in Section 4.4. Anticipated waste and diverted material have been projected up to 2050. The projection is focused on waste streams that Councils will control, and the plans Councils have to support waste minimisation.

Figure 27 to Figure 29 show the refuse collection projection of each council. Historically in the South Canterbury region, waste growth has aligned with population growth. Waste volumes have remained relatively steady, as has the subregion's population. The future refuse collection projection is based on the expected population growth (0.5% for TDC and WDC, 1.4% for MDC). This means that under the status quo scenario, the future refuse collection per person remains constant throughout the projection period. If in future waste growth decouples from population growth, then the status quo scenario would see waste per capita increase or decrease, in line with economic growth.

The Councils' intention aligned with the NZWS is to reduce the amount of material that needs final disposal, by 30 per cent per person by 2030. As a result, the projection after interventions shows a decrease in refuse collection of 30 per cent by 2030. The new associated Council targets are:

- Timaru District – from the current level of 130kg per capita to **91kg per capita per year**
- Mackenzie District – from the current level of 100kg per capita to **70kg per capita per year**
- Waimate District – from the current level of 112kg per capita to **78kg per capita per year**

The targets are deliberately ambitious, which in turn will encourage the successful and effective implementation the options identified.

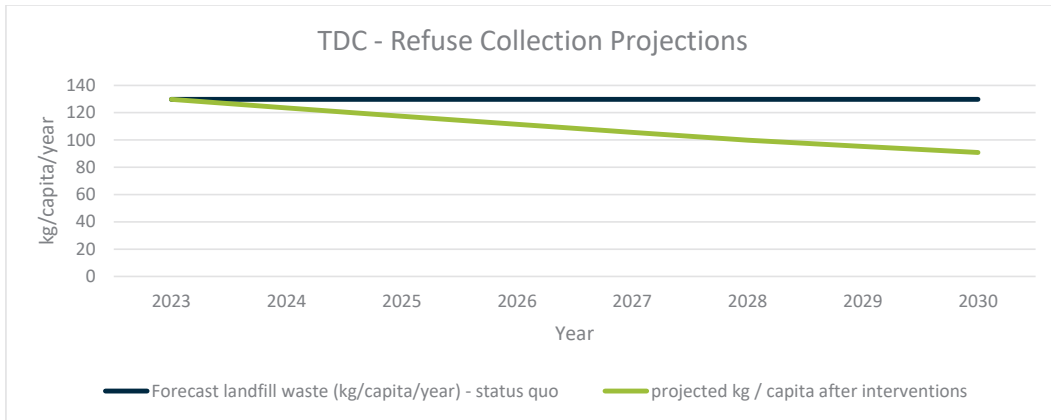


Figure 27 TDC – Kerbside Refuse Collection Projections

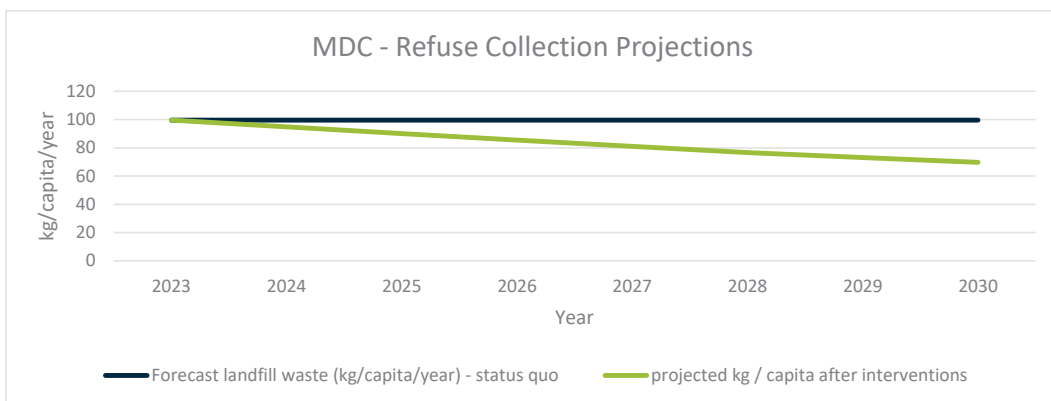


Figure 28 MDC – Kerbside Refuse Collection Projections

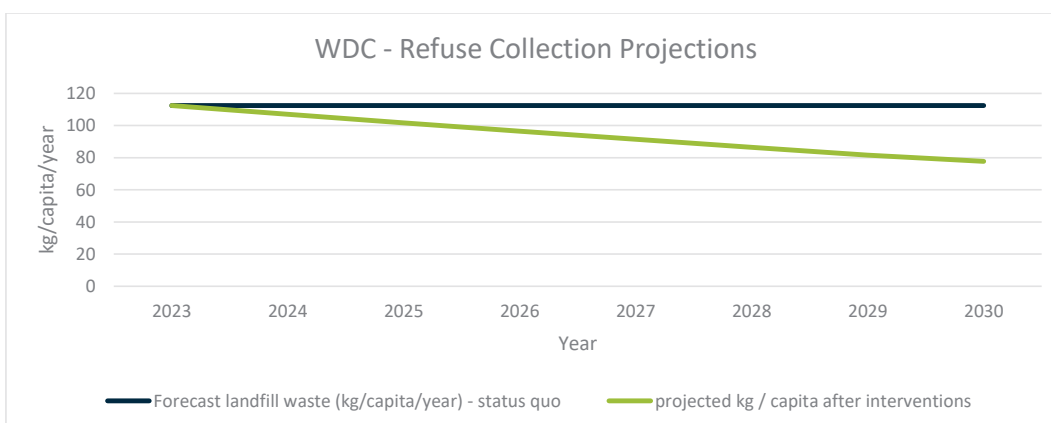


Figure 29 WDC – Refuse Collection Projections



6 Future Planning Framework

This section considers the Councils’ direction with regards to vision, goals, objectives, and targets for achieving waste reduction and for meeting the forecast demand for services in South Canterbury. The vision and targets discussed in this Waste Assessment have been derived from looking at the existing 2018 WMMP and the NZWS.

6.1 Vision

The Councils vision for waste minimisation and management is aligned with the NZWS:

“By 2050, the South Canterbury Region is a low-emissions, low-waste society built upon a circular economy”

6.2 Goals and objectives

The Councils have adopted the NZWS 2030 goals and developed South Canterbury objectives that support the achievement of these goals. The NZWS states that “By 2030, our enabling systems are working well, and behaviour is changing”. The NZWS goals and South Canterbury objectives are shown in Table 6.

Table 6 NZWS goals and South Canterbury objectives

#	NZWS Goals	South Canterbury Objective
1	Systems The strategic planning, regulatory, investment and engagement systems are in place and operating to drive and support change	<ul style="list-style-type: none"> Implement new national planning, regulatory, investment and engagement systems to continue to drive change in South Canterbury.
2	Infrastructure We have a comprehensive national network of facilities supporting the collection and circular management of products and materials	<ul style="list-style-type: none"> South Canterbury facilities, both Council and private, support collection and circular management of products and materials in the sub-region. Local planning provisions support the circular economy.
3	Responsibility and accountability We all take responsibility for how we produce, manage and dispose of things, and are accountable for our actions and their consequences	<ul style="list-style-type: none"> Deliver behaviour change programmes in South Canterbury to increase awareness and accountability for waste minimisation.
4	Using less We use fewer products and materials, and use them for longer, by making them more durable, and repairing, reusing, sharing and repurposing them	<ul style="list-style-type: none"> Support local redesign, repair, reuse, sharing and repurposing initiatives.
5	Resource recovery systems Resource recovery systems are operating effectively for core materials and across all regions	<ul style="list-style-type: none"> Existing kerbside services and resource recovery facilities enable core materials to be collected across South Canterbury.²

² There is sufficient capacity to meet project growth. As the region grows the location and number of facilities will need to be reviewed to identify any future sites and address any adverse effects from current facilities.



#	NZWS Goals	South Canterbury Objective
6	Recovering value We look for ways to recover any remaining value from residual waste, sustainably and without increasing emissions, before final disposal	<ul style="list-style-type: none"> Look to recover any remaining value from residual waste prior to disposal at Redruth Landfill.
7	Emissions Emissions from waste are reducing in line with our domestic and international commitments	<ul style="list-style-type: none"> Reduce organic waste production and disposal in South Canterbury, from both residents and businesses. Maintain landfill gas capture systems at Redruth Landfill.
8	Contaminated land Contaminated land is sustainably managed and remediated, to reduce waste and emissions and enhance the environment	<ul style="list-style-type: none"> Identify and sustainably manage contaminated land in South Canterbury, including vulnerable landfills. Reduce the volume of soil disposal at Redruth Landfill.

6.3 Targets

Table 7 outlines the Councils’ waste minimisation targets, aligned to the targets set out in the NZWS.

Table 7 South Canterbury waste minimisation targets

NZWS target	Local annual target (kg per capita, tonnes, %)	TDC		MDC		WDC	
		Baseline 2022	Target 2030	Baseline 2022	Target 2030	Baseline 2022	Target 2030
10% reduction in waste generation	Total kerbside material	480 kg per capita ³	436 kg per capita	293 kg per capita	264 kg per capita	431 kg per capita	388 kg per capita
	Total material received RRP ⁴ s	9,050 tonnes ⁴	<9,050 tonnes	3,150 tonnes	<3,150 tonnes	1,400 tonnes	<1,400 tonnes
30% reduction in final disposal	Kerbside refuse collection	130 kg per capita	91 kg per capita	100 kg per capita ⁵	70 kg per capita	112 kg per capita	78 kg per capita
	% contamination in kerbside organics, glass and recycling	Organic <1% Glass <1% Recycling 11%	Organic <1% Glass <1% Recycling <10%	Organic <1% Glass <1% Recycling 6%	Organic <1% Glass <1% Recycling <10%	Organic <1% Glass <1% Recycling 3%	Organic <1% Glass <1% Recycling <10%
	% contamination Redruth MRF	23.3%	<10%	n/a	n/a	n/a	n/a
	Redruth Landfill disposal – from RRP ⁶ s	5,100 tonnes	3,570 tonnes	1,900 tonnes	1,330 tonnes	360 tonnes	250 tonnes
30% reduction in biogenic methane emissions	% organics in kerbside rubbish collection	36%	25%	47%	25%	40%	25%
	% organics received at Redruth Landfill	Approx. 50%	25%	n/a	n/a	n/a	n/a

³ Calculation of kg per capita is based on estimate of service entitled population.

⁴ Covering Geraldine, Pleasant Point and Temuka transfer stations and Redruth Resource Recovery Park.

⁵ Based on 12 months data (Apr-22 to Mar-23) since the introduction of organics collections.

⁶ Based on 2022 data at Redruth Landfill. Tonnage covers all disposable materials via councils’ facilities.



7 Options Assessment (Statement of Proposals)

This section identifies the waste minimisation issues and opportunities for South Canterbury. It then presents the guiding principles that will be applied when considering intervention options for the Councils. Finally, it presents an options assessment that considers practicable options to address future demand for waste management and minimisation services and programmes in South Canterbury to address the opportunities that have been identified.

7.1 Waste issues and opportunities for South Canterbury

Waste issues and opportunities for South Canterbury have been identified based on:

- The goals and targets within the NZWS.
- Composition and quantities of waste in the Councils' collection services and facilities, and TDC's Redruth Landfill.
- Progress against the Councils' previous WMMP Action Plans.

The following key issues and opportunities are identified as needing to be addressed in the Councils' next WMMPs to meet the national targets set in the New Zealand Waste Strategy.

Recover more from kerbside waste streams

The recent SWAP analysis shows that there is still a high proportion of potentially divertible material in the kerbside refuse bin. Despite the introduction of organic collection service, the proportion of organic waste continues to remain high in the kerbside rubbish bin for all three councils, approximately 40%. While not as significant, recyclable materials still represent roughly 20% of the refuse bin's content.

Potential solutions: greater education and enforcement are required to ensure residents use the services correctly. This could include regular audits of the refuse bin. TDC previously considered providing a kitchen caddy (currently available for individual purchase) but have opted for FOGO and encourage food waste wrapped in newspaper. MDC and WDC are considering providing a kitchen caddy to promote food waste disposal. There may also be an option for the Councils to consider providing a separate food waste bin to separate food scraps out from green waste. Residents can also compost food waste at home, establish a worm farm, or feed the food waste to hens or other animals.

Better service rural and business customers

Some rural residents, and businesses customers (hospitality and accommodation providers specifically) do not have the same access to a comprehensive four-stream collection service that urban residents do. Noting service differences for each Council. There is an opportunity to divert more by looking at alternative collection systems that meet their needs.

Potential solutions: Canterbury Waste Joint Committee and Environmental Canterbury have been exploring waste minimisation initiatives for rural properties. Councils can continue to engage and support regional initiatives. Some rural households and businesses use private waste collectors; the Councils could require all waste collectors to provide recycling and organic collections with a refuse collection service. The Councils could expand their current service to include rural or business customers as a way of increasing service coverage (review collection areas or service all premises). Alternative collection options could also be explored to create services that are more appropriate for these customers. Note that currently businesses can opt-in to the council kerbside service if it meets their needs.



Target improved recycling behaviour during peak visitor and tourist periods, particularly in the Mackenzie District

MDC is experiencing increased volumes across all four collection streams and volumes at its RRP's due to tourists returning to areas such as Tekapo, Twizel and Aoraki/Mount Cook, and New Zealand holiday makers using holiday homes, contributing to the spike in waste around long weekends, school holidays and public holidays. There is a need to ensure these tourists and holidaymakers can use these services as effectively as the usually resident population.

Whilst it is reasonable to assume that TDC and WDC were not impacted to the same extent, the Councils need to work collaboratively to address localised demand at peak times as the Councils' waste services are provided by the same service provider with shared resources.

Potential solutions: Targeted education programmes for the tourism sector, working closely with tourist operators and accommodation providers, with a focus on waste minimisation and correct use of the services provided. Refer Appendix D for Case Studies.

Support diversion activities for C&D waste

There is a high proportion of divertible material including soil and C&D waste disposed at Redruth landfill. Separation of C&D waste and timber has been tried at Redruth in the past and found not to be cost-effective. Any future solution needs to be supported by sustainable markets.

There is a lack of visibility of the alternatives available in South Canterbury to Class 1 landfill disposal, i.e. C&D waste diversion or Class 2-4 landfills.

Potential solutions: Work with Environmental Canterbury and industry to develop alternative solutions for C&D waste and soils. This could include the use of the Council's Resource Recovery Parks or Redruth facilities as part of these solutions. Develop sustainable markets for diverted material such as treated timber. There is an opportunity to educate industry and to provide services at the facilities to reduce, re-use, or recycle a proportion of this waste.

Divert more organic material from landfill

Although organic waste is not accepted at Redruth landfill there is still a high proportion of organic within the waste stream disposed at Redruth (as per kerbside SWAP analysis data). Organic waste is the source of biogenic methane emissions which have been targeted for reduction as part of the National Waste Strategy. TDC have been investing in gas capture systems to reduce emissions. However, further initiatives should be introduced to ensure organic waste is not disposed to landfill.

Potential solutions: Ensure all private waste operators provide separate organic collection services. Greater enforcement of the acceptance criteria at Redruth landfill.

Promote upstream waste hierarchy and circular economy principles

Currently, there are limited local circular initiatives promoted by businesses or the Councils. There is an opportunity to provide support to national initiatives delivered locally or to enable local circular initiatives to be developed.

Potential solutions: Continue to collaborate with neighbouring councils, outside South Canterbury, particularly via the Canterbury Waste Joint Committee. Ensure that the Councils support all product stewardship schemes as they are introduced, providing facilities for diversion at all RRP's. To encourage behavioural change, there are opportunities for the Councils to strengthen their public awareness campaigns. These campaigns could be in conjunction with initiatives developed by EnviroNZ.



7.2 Guiding principles

In developing options, Councils will be guided by the following principles:

- Addressing legislative requirements
- Recognition of Kaitiakitanga/stewardship
- Application of circular economy principles
- Allowing for integration of technology
- Behaviour change is required to minimise waste, and convenience influences behaviour
- Encouraging innovation
- Leading by example

7.3 Options assessment

Table 8 presents options that the Councils could introduce to address the issues and opportunities presented in Section 7.1. The options cover influence, regulation, and service provision approaches. The options are then assessed against their ability to meet waste minimisation targets, costs, and ease of implementation. The options recommended to be taken forward are also highlighted.



Table 8 Options to address future opportunities for South Canterbury

Opportunity	Description	Approach	Options	Aligns with vision, goals and objective	Cost	Ease of implementation	Commentary	Recommended
Achieve 10% reduction in generation of waste								
Promote upstream waste hierarchy and local circular economy principles	Options to raise awareness of circular economy principles for businesses' products and services.	Influence	Promote and advocate the concept of circular economy to businesses.	High	Medium	Relatively simple	Lead initiatives to promote local circular economy initiatives by businesses. Raise awareness of the benefits of a circular economy approach, where circularity is promoted over downcycling. Host events that are industry specific to share good practices. Attract and retain industry participants (e.g. current reusables project) Provision of circular economy educational programmes and toolkits for businesses.	Yes
	Continue to collaborate across the region for the development of facilities and schemes to support greater diversion of material from landfill.	Influence	Continue to work with the Canterbury Waste Joint Committee and Environmental Canterbury on initiatives to further reduce waste to landfill and provide regional facilities. Support waste minimisation initiatives for rural properties. Support regional C&D diversion facilities or alternative consented cleanfill sites.	High	Low	Medium	The South Canterbury councils are active members of the existing committee. To date several initiatives have been funded by the member councils to support waste minimisation and diversion programmes. Current programmes include determine what regional facilities are required and what different waste streams should be targeted for diversion. How best to service rural properties.	Yes
	Support product stewardship schemes as they are introduced by providing facilities to separately collect the material. Options to further divert waste from landfill targeting a full range of waste streams	Service	Continue to investigate and identify stable markets for the diversion of other waste streams. Determine the feasibility of collecting and diverting other waste streams at RRP and supporting existing and any new product stewardship schemes.	High	Medium	Medium	As new stable markets become available, and more product stewardship schemes are introduced ensure the RRP can collect and divert this material. This is current practice in collaboration with EnviroNZ Services who operates the RRP (example is current polystyrene recovery).	Yes
Achieve 30% reduction in final disposal								
Recover more from kerbside waste streams	Options to further divert waste from landfill targeting behavioural change	Influence	Provide information to customers on how to responsibly dispose of organic and recyclable waste.	High	Medium	Relatively simple	Continue to fund and promote waste education programmes that encourage waste minimisation behaviour. Examples could include: <ul style="list-style-type: none"> General education – Positive messaging and taking a more marketing approach to communicating the Councils' goals and strategic directions. Service specific – Reinforce the correct way of using Council recycling/organic collection services and the concept of how individuals could contribute towards a circular economy. Develop additional educational materials once product stewardship & container return schemes are introduced. Councils could possibly engage and work with external education providers to develop targeted education programmes. This will be informed by Councils' WMMP once developed.	Yes
		Regulate	Restrict/ban specific types of waste in kerbside refuse wheelie bins.	Medium	High	Complex	While simple in theory, this option requires the development of a bylaw and requires compliance costs that may end up unnecessarily consuming time and resources. This is because the source of the non-compliance will be difficult to determine with the certainty required to enable infringement notices/fines to be issued. Bans have been introduced by some councils to encourage residents to separate their recycling from refuse. Formalising this and ensuring compliance would be complex. There will be high costs associated with the drafting of the appropriate policy/bylaw, consultation, hearings and socialisation of such a ban.	Yes
		Influence	Investigate the recoverability of materials that are currently not recoverable	Medium	Medium	Medium	Increases opportunities for the diversion of materials that are not currently getting diverted through kerbside refuse collection (e.g. fabrics).	Yes



Opportunity	Description	Approach	Options	Aligns with vision, goals and objective	Cost	Ease of implementation	Commentary	Recommended
Better service rural and business customers	Options to support waste diversion for rural communities and businesses in town centres.	Influence	Provide information to customers	Medium	Low	Relatively simple	Education and information sharing is an on-going approach that Councils use, this can also be supported by EnviroNZ under the current contract. Tailored communication with a focus on the needs of rural and commercial customers would help.	Yes
		Service	Continue to undertake optioneering and feasibility study of expanding the collection area or introducing new services	Medium	High	Complex	Review extending the collection services to these customers or introducing bespoke collection services or drop-off points (noting each councils current services).	Yes
		Influence	Develop education package for customers	High	Medium	Relatively simple	Based on the outcome of the service option above, this could be an extension to the current education service provided but targeted at rural and commercial customers to utilise Councils' facilities.	Yes
Target improved recycling behaviour during peak visitor and tourist periods	Options to manage increasing service demand arising from tourism activities	Service	Continue providing targeted public place refuse and recycling bins	Medium	Medium	Relatively complex.	Provision of additional or replacement refuse and recycling bins will be targeted at high impact areas. E.g. near service stations, shops, supermarkets and in locations that will encourage use of the facilities.	Yes
		Service	Continue to provide peak period service to meet increasing service demand	Medium	High	Medium	MDC currently provides an extra red bin collection for Tekapo and Twizel during the Christmas/ New Year's period. Further changes to be considered in discussion with EnviroNZ.	Yes
Support diversion activities for C&D waste	Options to support the C&D industry to minimise C&D waste from design to construction, in turn reducing C&D waste to landfill	Influence	Proactively collaborative with industry to change behaviours via education and promotion of waste minimisation.	Medium	Low	Relatively simple	Working across the region will have benefits in reducing construction and demolition waste. Waste minimisation activities such as waste separation, recycling of materials and beneficial reuse can be promoted.	Yes
		Influence	Support the implementation of changes to building consent process requiring waste minimisation plans.	Medium	Medium	Relatively simple	Central Government is driving change to building practices to support waste diversion. Councils need to support these changes.	Yes
		Regulate	Bylaw to enforce reporting of C&D material movements	High	Medium	Medium	A bylaw would require increased resources for administration and enforcement. Need a simple approach to enforce bylaws and ensure compliance.	Yes
		Influence	Continue to learn about, share and promote industry best practice in managing C&D waste	Medium	Low	Relatively simple	Establish relationships with large organisations that manage C&D waste to understand the support they might need and promote their practices. Look to introduce opportunities that would enable local knowledge-sharing to occur e.g. industry forums, publishing and promoting good practice case studies.	Yes
		Service	Monitor the quality and quantity of C&D wastes at Council facilities to gain a greater understanding of the types and quantities of material that could be diverted.	Medium	Low	Relatively simple	Would require increased administrative resources to undertake the monitoring. The end market of the diverted materials will also need to be monitored to ensure they have been reused/recovered as intended. The type of materials to be accepted at transfer stations and RRP's needs to consider the demand of the end market. It is noted that EnviroNZ is about to commence the separation of timber at Councils' facilities and processing polystyrene at Redruth.	Yes
		Service	Investigate local or regional C&D waste recovery options	High	Medium	Medium	While the use of C&D waste recovery facilities could be promoted and encouraged, these options need to be economically viable for their users. Councils could initiate a feasibility study to gain a further understanding of the flow of C&D wastes within the region. However, progression beyond the feasibility stage would need to take into account the existing availability of regional C&D waste recovery options and where an additional site in Canterbury might support this network. The end market of recovered materials would also need to be considered.	Yes
30% reduction in biogenic methane emissions								
Recover more from kerbside waste streams	Options to further divert organic waste from landfill	Service	Providing a kitchen caddy for food scraps that are then emptied into the existing organic bin	Medium	Low	Medium	Council could provide a kitchen caddy to residents to make it easier to divert food scraps from refuse. Kitchen caddies are relatively cheap to provide. They could either be provided to all household or available for purchase at council service centres. Different opinions around how effective this initiative is at diverting more organic from refuse.	(TDC) No (MDC and MDC) TBC



Opportunity	Description	Approach	Options	Aligns with vision, goals and objective	Cost	Ease of implementation	Commentary	Recommended
		Service	Provide a separate food waste collection service	High	High	Complex	Implementation of an additional collection service would require a variation to the existing long term collection contract. A four bin service is already available, providing a five bin is likely to be negatively received by customers.	No (all Councils)
Divert more organic from landfill	Options to support the organic separation from waste collected by private waste operator.	Regulate	Bylaw requiring all private waste operators to provide a separate collection of organic and recycling or restrict the acceptance of waste at Redruth Landfill if it includes organic.	High	Low	Complex	A bylaw would require increased resources for administration and enforcement. Would require all waste operators to register either nationally or locally. Need a simple approach to enforce bylaws and ensure compliance.	TBC



Appendix A Letter from Medical Officer of Health



Te Whatu Ora
Health New Zealand

11 August 2023

Catherine Irvine
Waste Manager
Timaru District Council
PO Box 522
TIMARU 7940

Dear Catherine,

RE: South Canterbury Waste Management and Minimisation Plan 2024

Thank you for inviting the Medical Officer of Health to comment on the Timaru District Council Waste Assessment as required by the Waste Minimisation Act 2008.

Te Mana Ora (formerly Community and Public Health) is supportive of the Draft South Canterbury District Councils' District Waste Management and Minimisation Plan (WMMP). We acknowledge that feedback from the Medical Officer of Health on the previous draft Waste Assessments has been included in the draft Waste Management Minimisation Plan 2023.

Again, thank you for your work in managing this important service which has significant public health value to the South Canterbury community. If you require further information please, in the first instance, contact one of our Health Protection Officers at our Timaru office.

Yours sincerely,

Matthew Reid (he/him/ia)

Āpiha tākuta mō te hauora | Medical Officer of Health

Te Mana Ora | Te Waipounamu | National Public Health Service

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Te Kāwanatanga o Aotearoa
New Zealand Government





Appendix B Legislation

The Waste Minimisation Act (WMA) 2008 -

<https://www.legislation.govt.nz/act/public/2008/0089/latest/DLM999802.html>

Climate Change Response Act 2002 and amendments -

<https://www.legislation.govt.nz/act/public/2002/0040/latest/versions.aspx>

The Local Government Act 2002 (LGA 2002) -

<https://www.legislation.govt.nz/act/public/2002/0084/latest/DLM170873.html>

The Resource Management Act 1991 (RMA) -

<https://www.legislation.govt.nz/act/public/1991/0069/latest/DLM230265.html>

Other legislation

The following is a summary of other legislation that is to be considered with respect to waste management and minimisation planning.

The Hazardous Substances and New Organisms Act 1996 (HSNO Act) -

<https://www.legislation.govt.nz/act/public/1996/0030/latest/DLM381222.html>

The Health Act 1956 –

<https://www.legislation.govt.nz/act/public/1956/0065/latest/whole.html>

The Litter Act 1979 -

<https://www.legislation.govt.nz/act/public/1979/0041/latest/DLM33082.html>

The Health and Safety at Work Act 2015 (HSWA) -

<https://www.legislation.govt.nz/act/public/1979/0041/latest/DLM33082.html>

Urban Development and Building

Various pieces of policy and legislation in the development and construction sector will have an indirect impact on the management and impact of construction and demolition waste. The National Policy Statement on Urban Development 2020 has objectives and policy statements on sustainability, including reduction in greenhouse gases. Amendments to the Building Act (2019) and (2021) are designed to drive product stewardship, the recording of product information and support the use of new, innovative and efficient building methods.

Other legislation

Other legislation that relates to waste management and/or reduction of harm, or improved resource efficiency from waste products includes:

- Biosecurity Act 1993
- Radiation Protection Act 1965
- Ozone Layer Protection Act 1996
- Agricultural Chemicals and Veterinary Medicines Act 1997




Appendix C Closed Landfill Site List

Mackenzie District Council Closed Landfill Sites
Twizel Closed Landfill
Tekapo Closed Landfill
Fairlie Closed Landfill
Burkes Pass Closed Landfill
Albury Closed Landfill
Haldon Closed Landfill
Timaru District Council Closed Landfill Sites
Arundel Rangitata Rd Closed Landfill - LLUR Site 132
Ashbury Park Closed Landfill - LLUR site 357
Aynsley St Closed Landfill - LLUR Site 356
Beach Rd (Seadown) Closed Landfill - LLUR site 282
Beck Road (Pleasant Point) Closed Landfill - LLUR Site 278
Coastal Caledonian Closed Landfill (Patiti Point) - LLUR site 359
Craigie Road Closed Landfill - LLUR site 275
Divan Rd Car Yard / Dump - LLUR Site 334
Ellis Road Dump Closed Landfill - Strathallan County Maps DMS 141045.
Eversly Street Closed Landfill - LLUR No. 358
Falveys Corner Closed Landfill - LLUR Site 350
Landsborough Road Closed Landfill - LLUR Site 352
Lough St Closed Landfill - LLUR site 355
Maori Reserve Road Closed Landfill - LLUR Site 342
Maude Street Closed Landfill - LLUR site 332
Milford Huts Closed Landfill - LLUR No 335
Mill Road Closed Landfill - LLUR site 336
Orari Closed Landfill - LLUR Site 340
Pareora Closed Landfill - LLUR site 279
Peel Forest Closed Landfill - LLUR Site 274, (on Crown land)
Pleasant Valley Road Closed Landfill - LLUR Site 346
Pudjeck Rd Closed Landfill - LLUR No 351
Rangitata Huts Closed Landfill - LLUR Site 270
Redruth Closed Landfill - LLUR site 276
River Road Closed Landfill - LLUR Site No 348, (Says 381 River Road this is 481)
Rolleston Road Closed Landfill - LLUR No 341
Russell Square Closed Landfill - PRE: 1880
Te Moana Rd (GERALDINE) Closed Landfill - LLUR site 2367 and 2275
Temuka Closed Landfill - LLUR Site 86
Temuka Closed Landfill - Soil Remediation Site (Hardfill)
Toomeys Bridge Closed Landfill (Geraldine Flat) - LLUR Site 347
Washdyke Closed Landfill - LLUR No 354
Winchester Closed Landfill No. 1 - LLUR Site 344
Winchester Closed Landfill No. 2 - LLUR site 345
Waimate District Council Closed Landfill Sites
Glenavy Closed Landfill on Te Maiharoa Road Glenavy
Makikihi Closed Landfill on Hook Swamp Road, Makikihi
Waimate Closed Landfill on Racecourse Road, Waimate
Waihao Closed Landfill on State Highway 82, Waihao Downs, Waimate
Hook Closed Landfill on Waimate – Hunter Road, Waimate
Otaio Closed Landfill on Backline Road, Bluecliffs, Waimate
Upper Pareora Closed Landfill on Backline & Motukaika Road, Pareora
Morven Closed Landfill on Morven Beach Road, Morven.



Appendix D Tourism role in waste minimisation

The two following case studies spotlight how council messaging and tourism businesses can promote minimisation and recycling in the sector. These are the types of initiatives implemented elsewhere that could address MDC’s issue with low recycling rates during peak tourist periods.



Spotlight: Cardrona Alpine Resort

Cardrona Alpine Resort is an example of how tourism operators can tackle waste. First, they took away single-use plastic bottles in 2019 and then removed all refuse bins from their resort in 2021.⁷

This was made possible via two means. Firstly, they removed all refuse bins and replaced them with recycling and compost bins only. Secondly, and more importantly, they coordinated with their suppliers to move to multi-use materials or recyclable packaging long before national plastics bans came into place. Any single-use plastics brought to their site must be taken away by the visitor.

A closer look at the circular economy for tourism operators



The Tourism Industry Aotearoa (TIA) published their Tourism 2025 and Beyond framework⁸ in 2019. The TIA provides industry data and research and highlights carbon, waste and ecological footprints as equal priorities for the industry. There are clear synergies for an organisation to reduce their emissions and environmental impact through reduced waste generation and increased diversion of recyclable and organics from landfill. TIA also initiated the New Zealand Tourism Sustainability Commitment which has a solid waste initiative specific to tourism businesses⁹.

There are opportunities to integrate waste minimisation with economic develop and tourism, Council could seek to influence the Mackenzie Tourism Industry Association (MTIA) to help integrate their waste management and minimisation plan into local tourism businesses.

⁷ For more information, see: <https://www.cardrona.com/content-hub/news/no-more-single-use-plastic-bottles/> and <https://www.cardrona.com/content-hub/news/no-landfill-bins-and-free-shuttles/>

⁸ See <https://www.tia.org.nz/tourism-2025>

⁹ See <https://www.sustainabletourism.nz/blog/solid-waste/>



Statement of Proposal

Consultation – 2024 – 2030 Draft Waste Management and Minimisation Plan

The Draft Waste Management and Minimisation Plan sets out the direction for Timaru District in relation to Waste activities for the next 6 years. The Plan although only for 6 years follows on from the Waste Management and Minimisation 2018 – 2024 Plan. It looks to build on measures identified in this plan and also has a future vision.

Submissions close on 22nd March 2024.

Summary

The Waste Minimisation Act 2008 requires that Council must complete a full review of the Waste Management and Minimisation Plan every six years.

This Statement of Proposal is seeking public feedback on the proposed new Draft Waste Management and Minimisation Plan. **We invite your views and feedback via the submission process outlined later in this document.**

Submissions are invited from 21st February 2024 until 22nd March 2024. At the end of this period, the Infrastructure Committee will:

- Consider submissions;
- Conduct hearings for anyone who wishes to speak in support of their written submission, and;
- Recommend a Waste Management and Minimisation Plan to be adopted for 2024 - 2030

This document has been prepared to meet the requirements of Section 83 and 87 of the Local Government Act 2002

Background

Under the Waste Minimisation Act 2008 we are required to update our Waste Management and Minimisation Plan (WMMP) every six years. The current plan was last updated in 2018.

Timaru District has been a leader amongst Councils since the introduction of the 3-2-1-Zero Bin system in 2006. TDC was the first council to adopt such a scheme in New Zealand. Initially the kerbside collection consisted of three bins, however in 2021 a fourth bin (glass) was added.

Written feedback has been received from the Medical Officer of Health informing of support of the Draft Plan.

What can the Plan include?

The WMMP can include goals, initiatives, options, challenges and opportunities for the Timaru District in relation to waste management and minimisation. The period of this Draft Plan is 2024 – 2030, but there needs to also be a longer term focus as per the New Zealand Waste Strategy.

What is being proposed

The Waste Minimisation Act 2008 sets out the legislative requirements for waste and the New Zealand Waste Strategy (NZWS) provides the strategic direction for waste management and minimisation in New Zealand.

Additionally the Mackenzie District Council, Timaru District Council and Waimate District Council are jointly entered into a Waste Management and Minimisation contract with Enviro NZ. The wider group is classified as the South Canterbury area. The Plan contains both goals and objectives for the wider South Canterbury area and those specific Timaru District

Enviro NZ manage the Transfer Stations at Geraldine, Pleasant Point and Temuka and the Redruth Recovery Park on behalf of TDC. In addition they employ two educators to work in the community. This contract has a 15-year period with a 5-year right of renewal. The legislation plus the contract conditions does influence and potentially constrain Council when creating the WMMP.

The proposed waste minimisation targets as established under the NZWS are

NZWS target	Local annual target (kg per capita, tonnes, %)	TDC	
		Baseline 2022	Target 2030
10% reduction in waste generation	Total kerbside material	479 kg per capita ¹	431 kg per capita
	Total material received TS/ RRP's	9,050 tonnes	<9,050 tonnes
Reduction in final disposal	Kerbside refuse collection	130 kg per capita ²	117 kg per capita
	% contamination in kerbside organics, glass, and recycling	Organic <1% Glass <1%	Organic <1% Glass <1%

¹ Calculation of kg per capita is based on estimate of service entitled population.

² For January-December 2022.

	% contamination Redruth MRF	23.3%	<10%
	Redruth Landfill disposal from TS/ RRP ³	5,100 tonnes	3,570 tonnes
30% reduction in biogenic methane emissions	% total organics in kerbside rubbish collection	36%	25%
	% organics received at Redruth Landfill	Approx. 50%	25%

The targets will ensure a focus is on education as the best way to reduce contamination. The recent kerbside legislative changes, which seek to standardise recycling and organics materials throughout New Zealand will result in national publicity relating to allowable items in recycling and organics. Aligned with on-going bin audits there is the opportunity for significant improvement here.

Liaison with community and business groups is a significant part of the plan with TDC providing support for the educators.

Draft Waste Management and Minimisation Plan

The full draft WMMP can be found on the Council website ([link](#)) or at any Service Centre/Library

To help you navigate the draft WMMP, it is split into 3 parts:

Part A: The Strategy: contains core elements, vision, goals, objectives, and targets. It sets out what we are aiming to achieve and the broad framework for working towards the vision.

Part B: Action Plan: sets out the proposed actions to be taken to achieve the goals, objectives, and targets set out in Part A. Part B also shows how we will monitor and report on our actions and how they will be funded.

Part C: Supporting Information: contains the background information that has informed the development of our (WMMP). Most of this information is contained in the joint Waste Assessment (WA)

Alternative Policy Options

The WMMP could have aspects added, removed or changed. Some of these alternative options are outlined below.

Options	Perceived advantages and disadvantages
Promoting the use of business waste partners, as opposed to TDC bin collection, for commercial customers	Reduces TDC bins that are to be collected. Potential development from commercial customers of a sustainable waste strategy

³ Based on 2022 data at Redruth Landfill. Tonnage covers all disposable materials via councils' TS and RRP.

Opportunities to promote local circular economy systems	Helping reduce materials going to landfill and education of community. The cost of set up may be an issue, but can consider opportunities with use of the Waste levy
Promoting the educators within the wider community i.e. providing waste strategy support to schools, businesses, event organisers etc	How to manage waste is better understood. Potential to reduce contamination for both individuals, organisations, businesses and events
Working with private waste contractors a part of the overall Timaru District waste strategy	Understanding their needs better and them gaining a greater appreciation of the waste management and minimisation direction that TDC is taking
Working with construction and demolition companies to see what options are available to divert waste	The firms feel supported. They are made aware of other options for waste disposal. Potential to discuss less waste centred methods of operation
Continue investigating locally, NZ wide and internationally for recycle markets and opportunities	By finding recycle markets we are promoting the circular economy. The fluctuation in prices, transport costs and market availability can make some recycling potentially unsustainable in the short-term.

Have your say

Let us know what you think about our draft WMMP.

You can do this by:

- Completing the online submission form at <https://www.timaru.govt.nz/tell-us/current-consultations>, or;
- Completing the physical submission form at the end of this document and posting it back to Council, or;
- Completing the physical submission form at the end of this document, scanning it and emailing it to submission@timdc.govt.nz.

Privacy Statement

All submissions are public information and will be included on Council’s website or in public documents located at Council offices and Libraries/Service Centres. This will include your name.

Your contact information (phone number and/or email address and/or postal address) will not be made publicly available.

Your contact information will be accessible to, and used by, Council staff for submission administration purposes, such as contacting you if you want to speak at the Hearing.

All information is held by Council in accordance with the Privacy Act 2020. You have the right to access and correct personal information.

Submissions close Friday 22nd March at 5pm.

If you have any questions about the content of the draft WMMP, email: wastemin@timdc.govt.nz

If you have any questions about the submissions process, email: submission@timdc.govt.nz

Alternatively, contact us via telephone: 07 687 7200.

Timeline

21st February 2024 to 5pm Friday 22nd March 2024: Consultation period

Mid-April 2024: Joint Infrastructure Committee considers submissions (and holds a Hearing if required)

April 2024: Infrastructure Committee recommends WMMP to Council

Note: Additional public consultation may be necessary if the WMMP is amended as a result of submissions received.

Submission Form (physical submission)

Complete this form to make a submission on the Waste Management and Minimisation Plan.

**= required*

***if you do not answer this question, we will assume that you do not wish to speak*

*First name**

*Surname**

Organisation (if applicable)

Phone number

*Email**

*Postal address**

*Do you want to speak about your submission at a Council Hearing? *** *Yes/ No*

Do you support the Draft WMMP as presented? *Yes/ No*

Make any comments about why you do or do not support the Draft WMMP.

What changes, if any, would you like to see in the policy?

Please use extra paper if you need more room, and attach these and any supporting documents with your submission.

[Insert Privacy Statement here]

Make your submission by either:

- 1) *Putting this form in a sealed envelope and posting it to*

*FreePost Authority Number 95136
Policy Review Consultation
Timaru District Council
PO Box 522
TIMARU 7940*

or

- 2) *Scanning this form and emailing it to submission@timdc.govt.nz*

All submissions must be received by Council by the close of consultation, being 5pm 22nd March October.

[Note: the online submission form will include the ability to upload electronic documents]

9 Consideration of Urgent Business Items

10 Consideration of Minor Nature Matters

11 Public Forum Items Requiring Consideration

12 Exclusion of the Public

Recommendation

That the public be excluded from the following parts of the proceedings of this meeting on the grounds under section 48 of the Local Government Official Information and Meetings Act 1987 as follows:

General subject of each matter to be considered	Reason for passing this resolution in relation to each matter	Plain English Reason
<p>13.1 - Development Area Plans</p>	<p>s7(2)(b)(ii) - The withholding of the information is necessary to protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information</p> <p>s7(2)(j) - The withholding of the information is necessary to prevent the disclosure or use of official information for improper gain or improper advantage</p>	<p>To protect commercially sensitive information</p> <p>To prevent use of the information for improper gain or advantage</p>

13 Public Excluded Reports

13.1 Development Area Plans

14 Readmittance of the Public