



Central Goldfields Shire Council

Waste Management Strategy
2020 - 2030



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This report has been prepared with support from RM Consulting Group.



Introduction

This 2020-30 Waste Management Strategy provides a roadmap for the future direction of waste services and waste reduction in Central Goldfields. This Strategy outlines: the current waste management legislative and policy environment in Victoria; Council's current waste service models, infrastructure, and data; and an overview of consultation. These are then brought together to as actions for the future under five focus areas.

Principles underpinning this Waste Management Strategy

In recent decades, there has been an increasing understanding that resources are finite. In the context of waste management this has been expressed through the concepts of the waste hierarchy (see Figure 1) and the circular economy (see Figure 2).

The waste hierarchy shows that the most effective approach to waste reduction is to avoid unnecessary consumption (and therefore generation of associated waste). Only if the consumption cannot be avoided should you move through the hierarchy to the next step of reuse. And so on, down through the hierarchy to least preferable option, disposal.

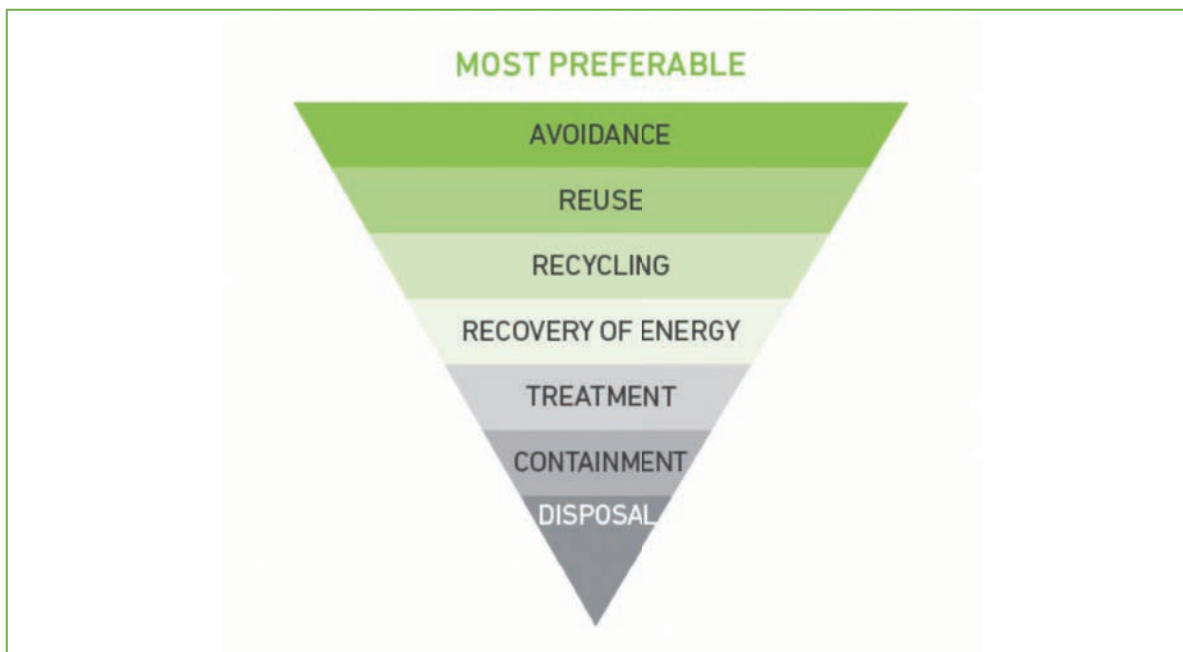


Figure 1: Wastes hierarchy (from Statewide Waste and Resource Recovery Implementation Plan 2019)

The concept of a circular economy is about recognising that there are useful items and materials that can be recovered and utilised (often multiple times) rather than being disposed of to landfill. In a circular economy, resources can flow back into the resource system through incorporation with other materials, new uses, conversion to energy (by using 'waste' as a fuel source) and re-use. With current technology, the circular economy relies on separation of waste streams to be effective. Contamination is one of the major recycling issues.



Figure 2: Circular economy (from Statewide Waste and Resource Recovery Implementation Plan 2019)

Context of this strategy

State and regional waste and waste resource recovery implementation plans

A 2014 amendment to the Victorian *Environment Protection Act 1970* established the Victorian Waste and Resource Recovery Infrastructure Planning Framework. The aim of the Framework was to:

“achieve long-term planning for waste and resource recovery infrastructure at state and regional levels, integrated with land use and transport planning systems.”

The amendment required Sustainability Victoria to develop a Statewide Waste and Resource Recovery Infrastructure Plan (SWRRIP), which it did in 2015 and subsequently it was updated in 2018. The goals and directions of the SWRRIP are included in Appendix 1.

The amendment also required the seven Waste and Resource Recovery Groups within Victoria to each develop a Regional Waste and Resource Recovery Implementation Plan that integrates with the SWRRIP. The Grampians Central West Waste and Resource Recovery Group Implementation Plan was released in 2017. The goals and directions of the regional implementation plan are included in Appendix 2.

Central Goldfields Shire Council is a member of the Grampians Central West Waste and Resource Recovery Group.

Local Government Act 1989

Municipal waste management is also governed by the *Local Government Act 1989*. The following sections are relevant to the provision of waste services and waste facilities to the community:

- Section 3C(1) outlines the primary objective of a Council is to endeavour to achieve the best outcomes for the local community having regard to the long term and cumulative effects of decisions; and section 3C(2)(e) in seeking to achieve its primary objective, a Council must have regard to the following facilitating objectives to ensure that services and facilities provided by the Council are accessible and equitable; and
- Section 3E(1)(b) the functions of a Council include planning for and providing services and facilities for the local community.

Other government waste policies and legislation

- **E-waste ban:** E-waste has been banned from landfill in changes to the *Waste Management Policy (Siting, Design and Management of Landfills)* that came into effect on 1 July 2019.
- **Plastic bag ban:** Lightweight plastic bags have been banned from 1 November 2019 under the *Environment Protection Amendment Act 2019*.
- **Net zero emissions:** The *Climate Change Act 2017* establishes a legislated target for emissions – net zero emissions by 2050.

Central Goldfields Shire Council policy

Council Plan

The Central Goldfields Shire Council’s Council Plan, under Section 3 - ‘Our built and natural environment’, has the following item to guide Council’s waste management.

3.4	Ensure waste management meets current and future demand and standards.	Review and update Council’s Waste Management Plan. Participate in regional waste projects through the Grampians Central West Waste and Resource Recovery Group.
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Council’s Sustainability Action Plan 2012 - 2020 was also considered in development of the focus areas, actions and targets.

Waste Management Strategy 2020 - 2030

Given the rapidly changing nature of waste management, and a similar pace of change in the regulatory environment, Council has sought to develop a Strategy that offers guidance as well as flexibility in its approach.

The following vision, goals and focus areas for Council’s waste management have been developed following community and stakeholder consultation as part of this Waste Management Strategy. The vision, goals and focus areas align with the State and regional implementation plans as illustrated in Figure 3.

Waste Management Vision

We will be a low waste community that has equitable and affordable waste services with minimal impact on the environment and public health.

Waste Management Goals

In order to achieve this vision, the following goals for Council were also developed:

- Reduced volume of waste
- Diverse waste collection and recovery options
- Council leads by example
- Council manages waste infrastructure in ways that minimise impacts on the environment and public health
- All people in the Shire community understand their role in waste management.

Waste Management Focus Areas

Areas of Council's waste management responsibility and/or influence were determined. These correspond to the focus areas:

- Waste service models
- Waste management infrastructure
- Creating an evidence base for planning and investment
- Advocacy
- Industry and community engagement.

A set of actions for Council and the Shire Council community have been developed for each focus area and are detailed in the *What Will We Do* section of this Strategy.

Targets

The following targets have been developed for this Strategy:

- Waste to landfill is 25% (or less) of the total waste stream (tonnes)
- Average annual total kerbside materials collected per household is 450 kg (or less).

INTRODUCTION

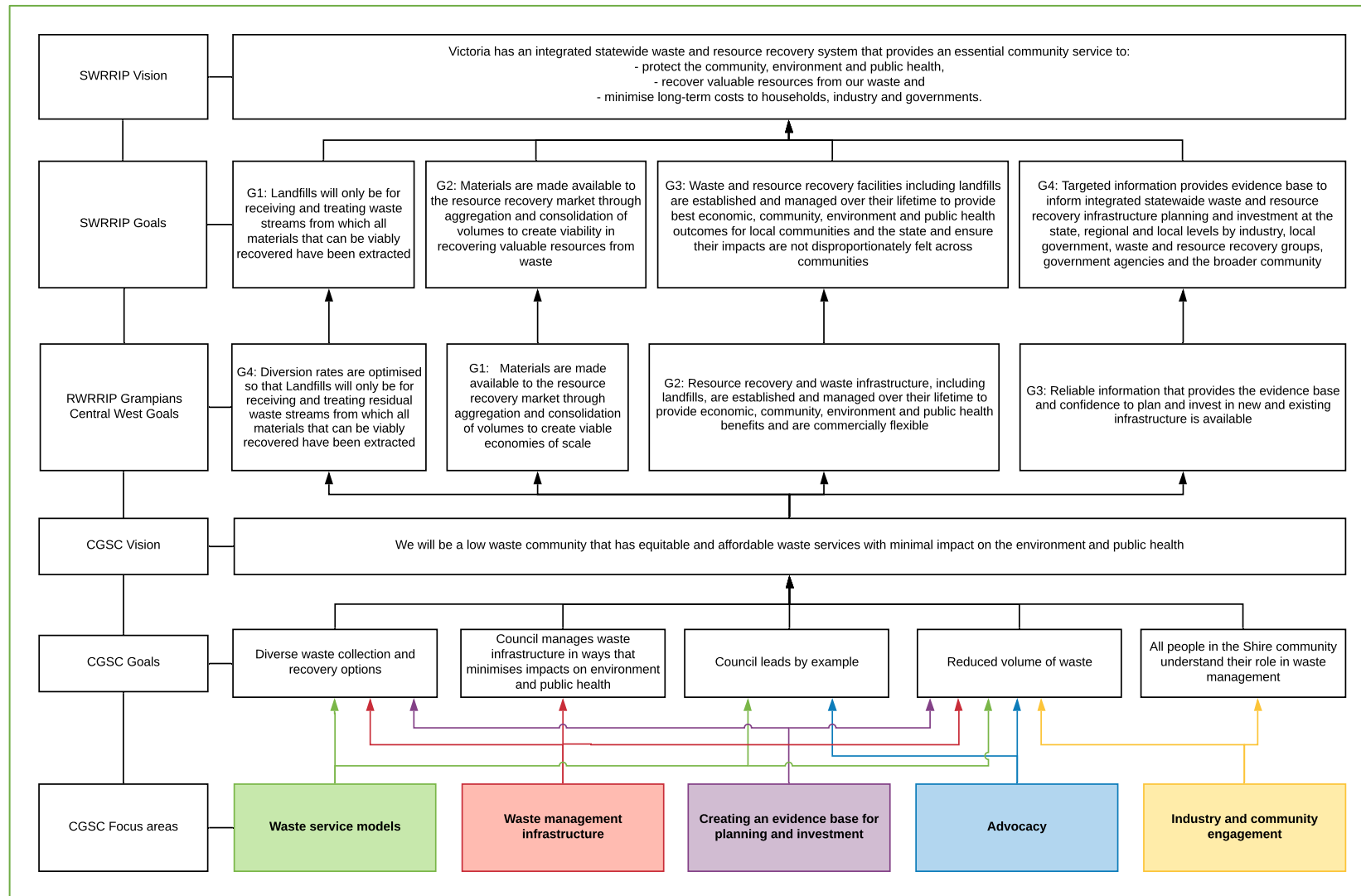


Figure 3: Central Goldfields Shire Council vision, goals, focus areas and alignment with State and regional goals

WHERE ARE WE NOW?

"In-vessel" Composting

Food From Waste

WHAT IS BEING TRIALLED?

A small scale modular in-vessel FABCOM® composting system suitable for rural and regional applications using food waste and green waste from urban Maryborough.

WHAT ARE THE BENEFITS?

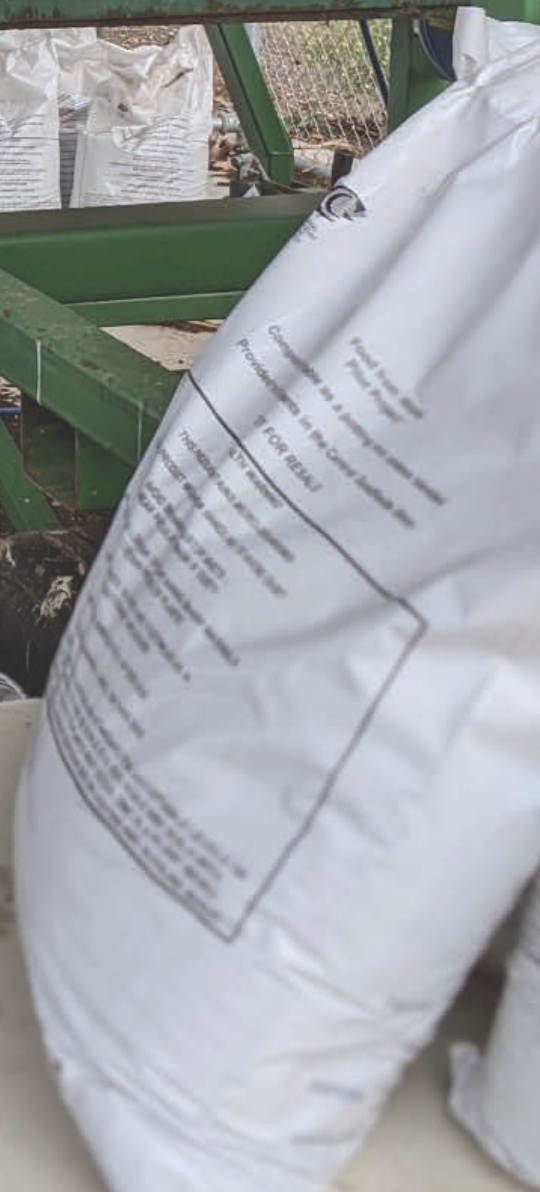
- Turns food waste and green waste into useful compost.
- Reduces the amount of waste going into landfill, thus reducing ratepayer costs.
- Reduces the amount of greenhouse gases, especially methane, produced by landfill.



WHO IS FUNDING

project is jointly funded by the Highlands Region Management Group, 0149 684 49 684, Central Goldfields District Council, 013 600 42 400, and Sustainability Victoria, 0142 400 42 400.

equipment
Bagger



Where are we now?

Despite increased recycling and stabilisation of waste to landfill, landfill costs have more than doubled. This and the policy environment are major drivers of Council's push to avoid waste, increase waste recovery and reduce waste.

Current waste service models and infrastructure

Council has four transfer stations, Bealiba, Carisbrook, Dunolly and Talbot. These are operated under contract. Council kerbside collections (including public litter bins and domestic waste from commercial and industrial properties) are operated under a separate contract.

Council no longer operates landfill within its boundaries but continues to manage and maintain the legacy landfills. Waste for landfill is transferred to Stawell or Patho as part of the above contracts.

Current waste numbers

In 2018/19 Central Goldfields Shire Council sent 2,289 tonnes of municipal solid waste to landfill out of a total of 3,946 tonnes of materials collected at the kerbside. Of this, 1,657 tonnes, or 42%, of waste was diverted from landfill through recycling (1,278 tonnes) and Food organics and Garden organics (FoGo; 379 tonnes) collections.

The introduction of kerbside green waste collection services during 2008, and further expansion to FoGo in 2013, has resulted in steady uptake (see Figure 4), and a significant increase in diversion from landfill.

Council data and waste audits have shown that:

- About 60% of materials generated from Central Goldfields district's households and industry ends up in a landfill
- Only about 75% of material put into recycling bins can be recycled from that waste stream
- 30% to 40% of the contents of general waste bins (red-lidded bin) are food and garden waste
- Only about 1% of materials are separated and recycled as hard waste.

While the proportion of recycled and green waste of kerbside collections has increased to almost 45% (Figure 4), the total tonnes of waste has remained approximately static despite a steady increase in the number of properties serviced since 2001 (Figure 5). This translates to a decrease in tonnes of waste collected per property since 2011 (see the red line in Figure 5).

WHERE ARE WE NOW?

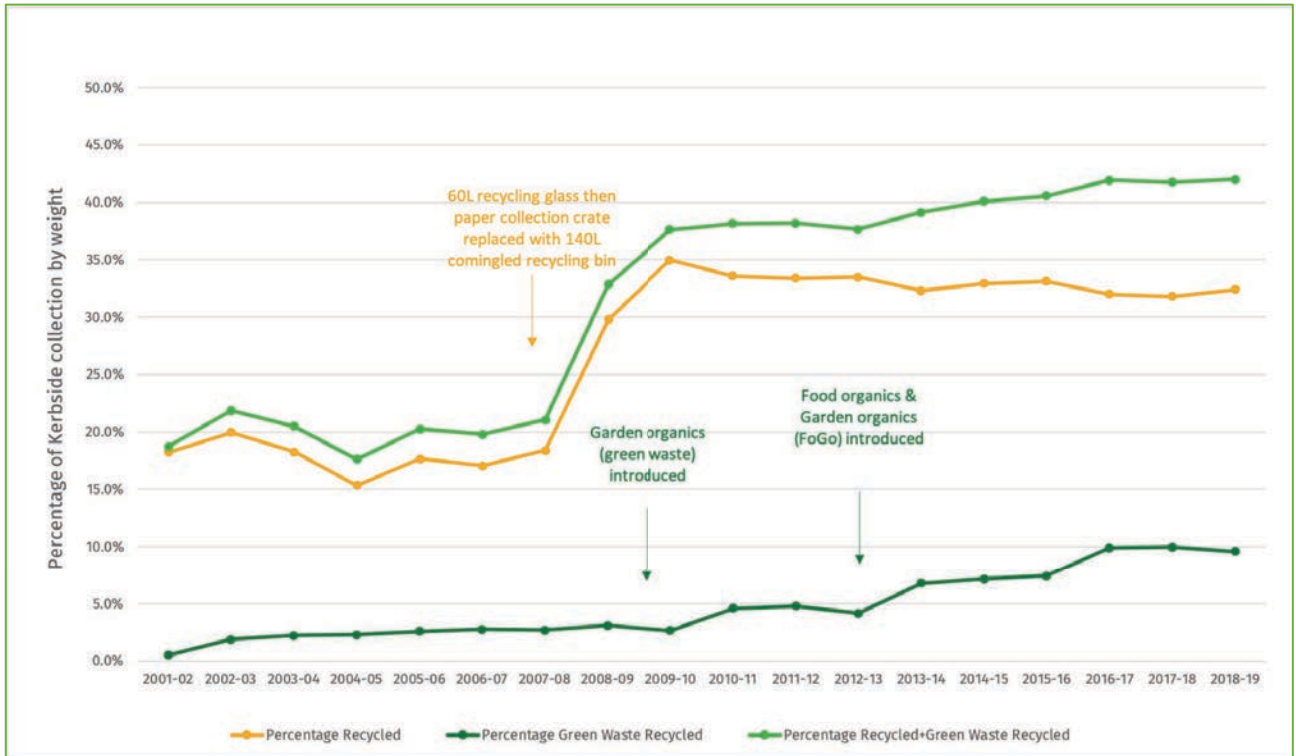


Figure 4: Kerbside materials diverted from landfill by Central Goldfields Shire Council

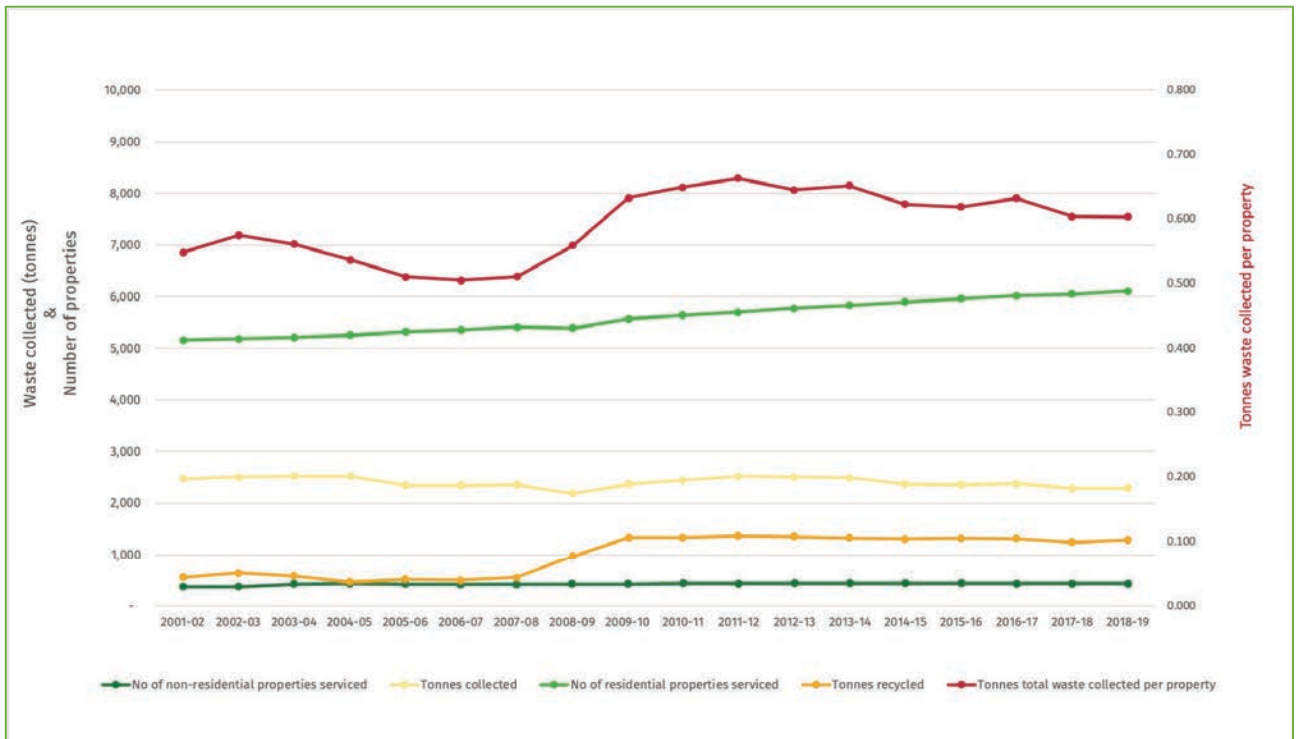


Figure 5: Number of properties serviced, and tonnes kerbside waste and recycling collected by Central Goldfields Shire Council

WHERE ARE WE NOW?

The 2018/19 total annual cost of kerbside waste services is \$1,446,499 for 3,946 tonnes collected from 6,539 properties.

Figure 6 shows the cost to Council per tonne of waste to landfill has more than doubled since 2007/08, while the annual cost of recyclable waste has almost doubled in the last couple of years.

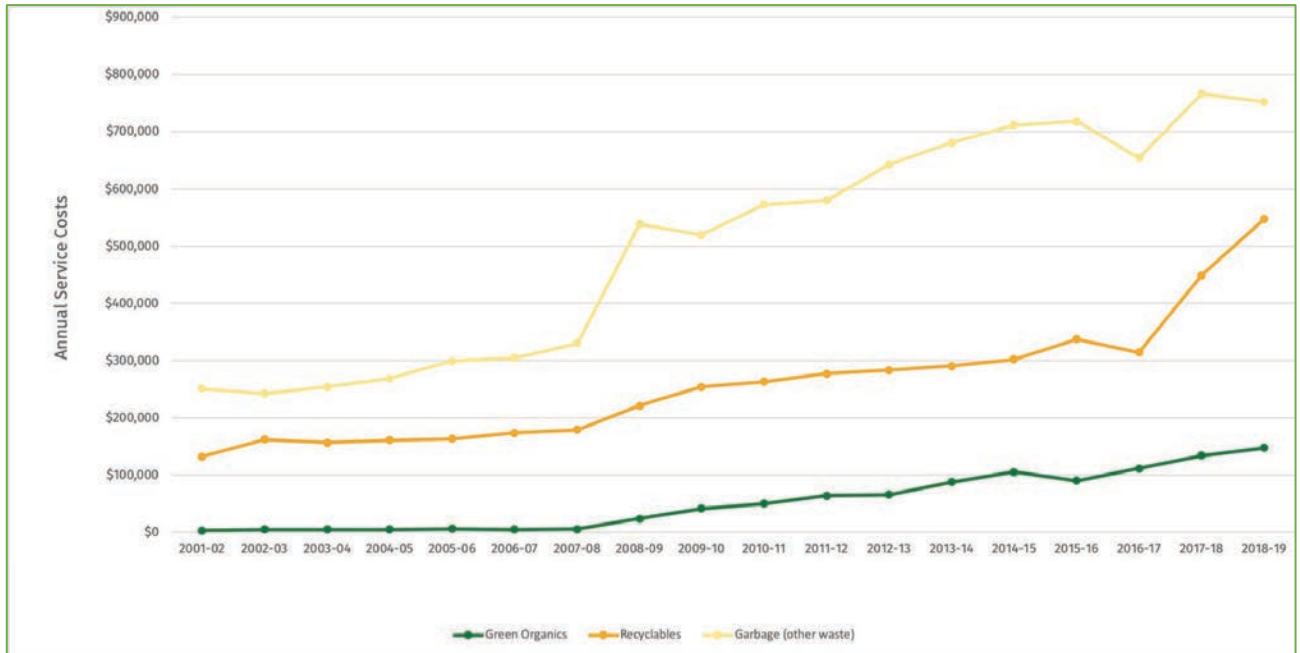


Figure 6: Central Goldfields Shire Council annual kerbside waste collection service costs

Currently the Council spends about \$15,000 per year collecting litter and disposing of illegally dumped litter.

HOW THE STRATEGY HAS BEEN DEVELOPED



How the strategy has been developed

The review and update of the Waste Management Strategy was identified as a key action in the Council Plan. As part of the process, Council consulted with industry and community stakeholders and reviewed their operations and available data.

Review

In 2019, Council commissioned a review of waste in Central Goldfields including initial assessment of a number of current municipal waste plans and strategies, review of waste trends, infrastructure, existing services and consultation with council staff and executive staff, and involvement in community engagement.

Community engagement

Council's communications and waste management teams developed a community engagement plan in accordance with Council's community engagement framework, and held community meetings and a community survey to determine what was important to the local community and industry and identify potential improvements to waste management services.

Community meetings

The waste management strategy community engagement was launched on 18 June 2019 at an event held at the Goldfields Employment and Learning Centre (GELC) in association with the Maryborough community garden group. The event was attended by over forty people representing relevant stakeholders across the shire's towns and rural areas: community groups, interest groups, associations, service clubs, schools, authorities and service organisations. Council also met with internal stakeholders and Community Reference groups.

A number of relevant stakeholders including community groups, interest groups, associations, service clubs, schools, authorities and service organisations, residents and interested community members have been consulted and have contributed to providing information and comments in relation to the development of the waste management strategy.

Surveys

In mid-2019, we conducted an online survey across the shire, supported by hard copy surveys. The results of the survey showed that community members are concerned about current rural area collection services, waste vouchers vs hard waste collection, and what to recycle.

Urban communities are largely happy with current services, including the recently introduced FoGo service, while rural and industry respondents would like either improvements or optional services. The recycling service at major events is well regarded.

The results of this survey have been used to inform the actions developed for each Focus Area.

The detailed questionnaires, a synopsis of comments and further methodology are included in Appendix 3.

What will we do?

In order to achieve our Waste Management Vision and goals, Council will take action in the following Focus Areas:

- Waster service models
- Waste management infrastructure
- Creating an evidence base for planning and investment
- Advocacy
- Industry and Community engagement.

Each of these Focus Areas is aligned with Council, regional and state goals and visions as shown in Figure 3.



FOCUS AREA 1:

Waste service models

Focussing on waste service models will contribute to how, where and what waste services are provided by the Shire.

Waste Strategy Goals addressed

The actions in this Focus Area have been designed to contribute to the following Waste Strategy goals:

- Reduced volume of waste
- Council leads by example
- Diverse waste collection and recovery options.

Actions

Council will continue to	Council will	Community can
<p>Divert Council's waste from landfill.</p> <p>Identify litter 'hotspots' (including waterways).</p> <p>Consult the community and industry regarding service models (e.g. service areas and corridors, types and frequency of collection) and implement changes as appropriate.</p> <p>Develop pathways for e-waste re-use opportunities.</p> <p>Ensure service models are equitable and affordable.</p> <p>Ensure service models have low environmental impact and protect public health.</p> <p>Develop processes that reduce waste stream contamination.</p> <p>Maintain awareness of new systems and technologies for waste collection and resource recovery.</p>	<p>Clarify litter reporting and enforcement requirements with other agencies.</p> <p>Ensure future service models are socially, economically and environmentally responsible.</p> <p>Develop pathways for waste re-use and/or recovery opportunities, particularly for material streams with potential economic value or high environmental and public health risk.</p> <p>Implement new systems and technologies for waste collection and resource recovery as appropriate.</p>	<p>Avoid waste through considered buying.</p> <p>Find ways to re-use items that would previously have gone to landfill.</p> <p>Recycle in ways that reduce contamination of the waste-streams.</p>

FOCUS AREA 2: Waste management infrastructure

Focussing on waste management infrastructure will contribute to planning for the future of the current infrastructure and what and where future infrastructure should be.

Waste Strategy Goals addressed

The actions in this Focus Area have been designed to contribute to the following Waste Strategy goals:

- Reduced volume of waste
- Diverse waste collection and recovery options
- Council manages waste infrastructure in ways that minimise impacts on the environment and public health.

Actions

Council will continue to:	Council will:	Community can:
<p>Upgrade and maintain transfer stations to industry best practice.</p> <p>Monitor closed landfills.</p> <p>Ensure compliance with relevant legislative requirements.</p> <p>Ensure waste infrastructure is designed and located to encourage correct usage and consideration of the waste hierarchy (e.g. signage).</p>	<p>Maintain an awareness of changes in waste infrastructure and usage in other regions.</p> <p>Plan for future needs.</p> <p>Implement changes to waste infrastructure as appropriate.</p>	<p>Continue to support the use of transfer stations.</p> <p>Continue to support the resale shops at transfer stations.</p>

FOCUS AREA 3:

Creating an evidence base for planning and investment

Focussing on creating an evidence base for planning and investment will allow Council to make informed decisions about how to manage waste to best integrate the future needs of the community, the environment and our budget.

Waste Strategy Goals addressed

The actions in this Focus Area have been designed to contribute to the following Waste Strategy goals:

- Reduced volume of waste
- Diverse waste collection and recovery options.

Actions

Council will continue to:	Council will:	Community can:
<p>Monitor and report on waste collection streams.</p> <p>Collect and provide waste data to national, state and regional agencies.</p>	<p>Investigate whether changes are required for:</p> <ul style="list-style-type: none"> ▪ Collection areas ▪ Bin sizes ▪ Collection frequency (particularly for FoGo) ▪ Voucher system ▪ Public place litter/ recycling bin locations. <p>Conduct regular waste audits of:</p> <ul style="list-style-type: none"> ▪ All kerbside collection waste streams ▪ Street litter bins ▪ Gross pollutant traps ▪ Transfer stations ▪ Other facilities, and waste types and collections as appropriate. <p>Regularly audit Council's own waste and reuse of recovered materials and report findings.</p> <p>Investigate why there are litter 'hotspots' and seek ways to address findings.</p> <p>Investigate collaborative procurement opportunities to enable diversion of waste from landfill.</p> <p>Review this Strategy, and any subsequent Strategy, at least every four years.</p>	<p>Liaise with Council as to how to best provide meaningful evidence for waste management issues either as individuals or groups.</p> <p>Actively participate in groups, such as sustainability groups, collecting and regularly providing to Council meaningful data, e.g. roadside litter occurrences.</p>

FOCUS AREA 4:

Advocacy

Focussing on advocacy will enable Council to positively influence waste management policies, processes, systems and future legislation for the best interests of the Shire community, environment and/or Council's budget.

Waste Strategy Goals addressed

The actions in this Focus Area have been designed to contribute to the following Waste Strategy goals:

- Reduced volume of waste
- Council leads by example.

Actions

Council will continue to:	Council will:	Community and local industry can:
<p>Proactively engage with regional and state-based waste reduction and waste recovery groups for the benefit of the Shire Council area's triple bottom line.</p> <p>Advocate for funding to support waste reduction and waste recovery initiatives.</p> <p>Proactively advocate and demonstrate support for legislation, policies, processes and practices that encourage increased waste reduction via the waste hierarchy and the circular economy (e.g. product stewardship, container deposit legislation).</p> <p>Seek markets for waste diverted from landfill.</p>	<p>Consider the waste hierarchy in all Shire Council procurement and disposal decisions (e.g. Buy Recycled, less packaging, catering, source of all paper products, lifecycle of product and spare parts [including asset maintenance, infrastructure and equipment]).</p> <p>Implement waste reduction strategies throughout Council operations (e.g. recycling and FoGo increased in Council offices and depots, compost from transfer stations used in Council garden maintenance, increased public place recycling bins).</p> <p>Council leadership will foster a culture of waste reduction and waste recovery throughout Council's operation.</p>	<p>Actively participate in groups that advocate for waste avoidance and minimisation such as sustainability groups.</p> <p>Incorporate waste minimisation strategies when planning events.</p> <p>Support, encourage and practise waste minimisation strategies.</p>

FOCUS AREA 5:

Industry and community engagement

Focussing on industry and community engagement will ensure that Council is providing the best waste management services for its stakeholders.

Waste Strategy Goals addressed

The actions in this Focus Area have been designed to contribute to the following Waste Strategy goals:

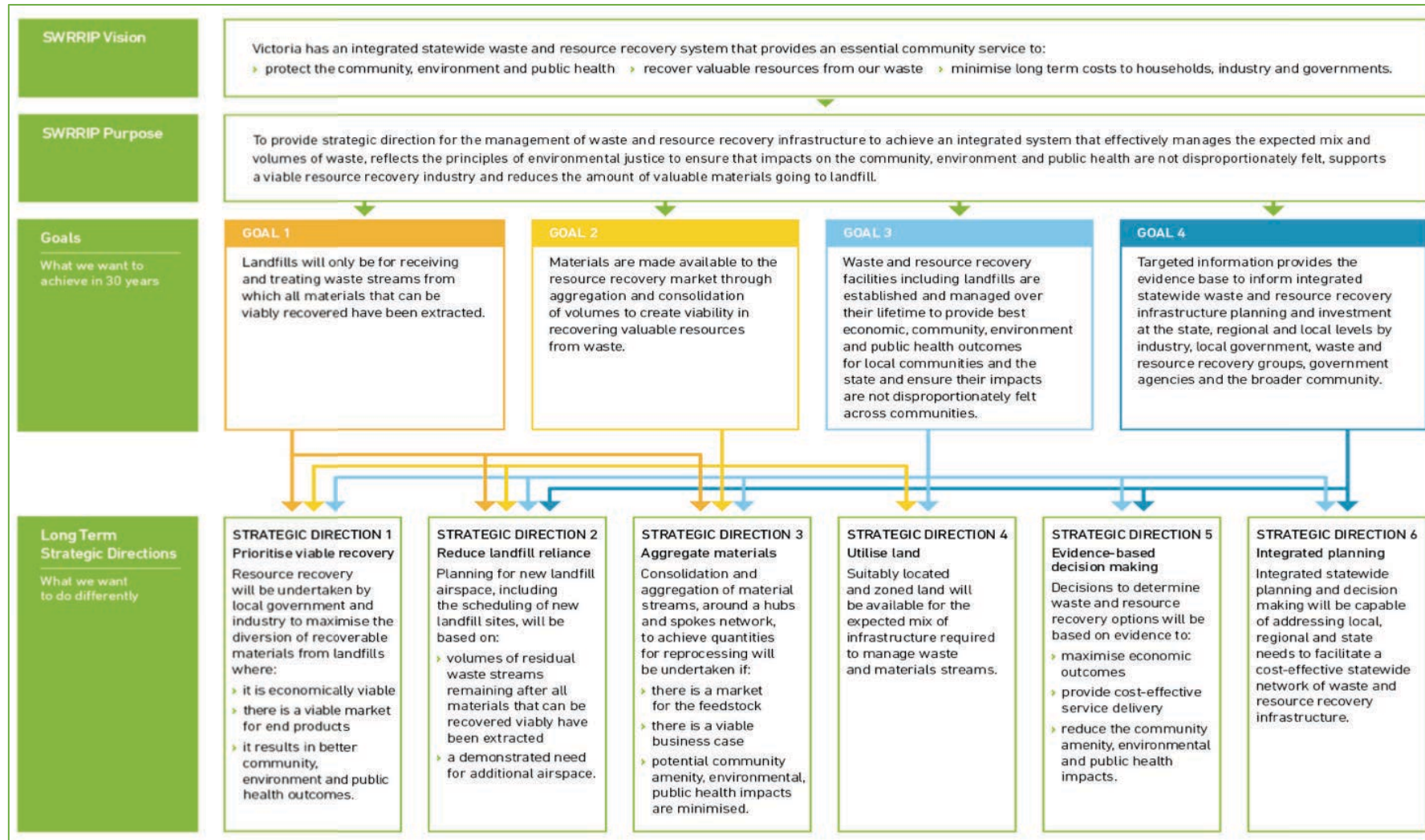
- Reduced volume of waste
- All people in the Shire community understand their role in waste management.

Actions

Council will continue to:	Council will:	Community and local industry can:
<p>Promote and support the Shire Council community, and community and industry groups to access waste avoidance, re-use and recovery pathways.</p> <p>Promote and support local group activities for illegal dumping clean-up.</p> <p>Promote the waste hierarchy concept.</p> <p>Support and collaborate with community sustainability groups.</p>	<p>Develop a community engagement plan that includes:</p> <ul style="list-style-type: none"> ▪ Reduction of use of soft plastics and non-recyclable materials ▪ Information and incentives on composting ▪ The circular economy ▪ Diverting waste from landfill, including contamination reduction, e-waste ▪ Schools ▪ Stories of excellence ▪ “Detox your home” collection ▪ Waste vouchers. <p>Liaise with major event co-ordinators operating in the Shire Council area regarding waste and waste recovery options and advocate waste minimisation strategies.</p> <p>Investigate and report to Council on possible industry re-making and re-use of diverted building materials.</p> <p>Support industry’s circular economy projects and initiatives.</p>	<p>Actively participate in groups that practise waste avoidance and minimisation such as sustainability groups.</p> <p>Advocate for waste minimisation.</p> <p>Retailers and other suppliers can provide low packaging options and offer re-use options where applicable.</p> <p>Seek circular economy opportunities.</p>

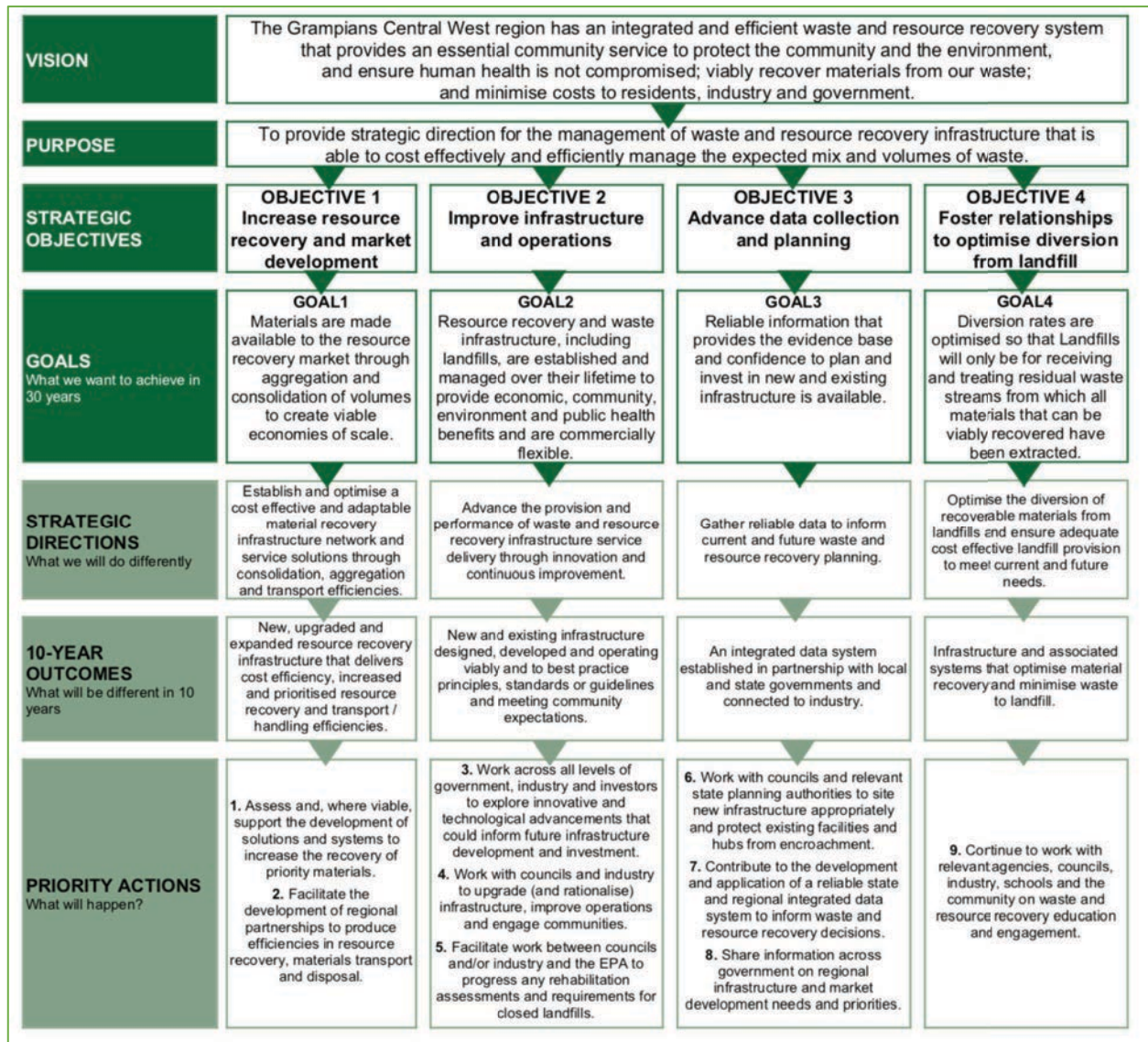
Appendix 1 – SWRRIP Goals and Directions

From Statewide Waste and Resource Recovery Infrastructure Plan 2018.



Appendix 2 – Grampians Central West WRRIP Goals and Directions

From Grampians Central West Waste and Resource Recovery Implementation Plan 2017.



Appendix 3 – Community surveys and questionnaires

The communications team, the waste management team and the consultant consulted with internal staff, executive staff, and staff from other councils, the regional waste management group, Sustainability Victoria staff and some key stakeholders in developing the key messaging and developing the community engagement plan and methodology.

The Maryborough community garden group and the Maryborough sustainability group along with GELC were helpful in arranging the launch event for 18 June.

The waste management strategy community engagement period commenced with the launch on 18 June 2019. Letters and emails were sent out along with press releases, social media and advertising of the online survey on the website and through posters at key locations throughout the shire.

A comprehensive questionnaire survey was developed to glean the necessary information to inform decisions on waste services and how these effect the target audience and community.

The questionnaire survey focused on three groups covering all the target audience:

1. The general community (defined to be the 8,000 households) – full survey advertised through DL cards and posters at key locations throughout the shire, media releases and social media, emailed survey invitations for selected stakeholders, and one on one consultation with selected stakeholders;
2. Rural properties without a current service – a shorter survey relevant to and invitation mailed to 1,100 rural residents; and
3. Commercial business – a specific survey mailed to 440 commercial businesses.

The survey was made available as a survey monkey online and paper copies were made available for community members wishing to complete the hard copy survey. The online survey was opened on 13 June and was made available to 29 July 2019.

A total of 78 responses were received: 25 from the general community; 46 from the rural residents; 3 from commercial business; and 4 emails addressing specific concerns.

A number of verbal comments and discussions were held with a number of stakeholders including community groups, interest groups, associations, reuse business, service clubs, schools, authorities, service organisations, recycle collectors and local waste industry operators.

Current collection services – rural areas

The Council currently provides a compulsory (non-compulsory corridor) fortnightly kerbside waste and fortnightly kerbside recycling collection service to some rural areas.

What we heard

Some in the compulsory corridor runs want ability for them to be optional (e.g. Bet Bet)

Some in rural areas think that they are receiving a lesser garbage service than urban counterparts

The majority in rural areas do not want a FoGo collection service because most indicated that they re-use green material in various ways. Most not interested in a green waste drop-off service.

Current collection services – urban and commercial/industrial areas

The Council currently provides a compulsory weekly kerbside waste (red bin) and fortnightly kerbside recycling (yellow collection service to all urban residential, and commercial/industrial areas.

What we heard

Most in urban areas satisfied with waste and recycling services and costs kerbside.

- The majority (urban) put out the red bins weekly and they were three-quarters or more, full
- The majority are happy with the size of the recycling bins and the cost of the service

Some commercial operators would like to have non-compulsory kerbside red and yellow bin services so they can choose.

- Few commercial/industrial operators responded to the questionnaire.
- The private skip bin service is usually sized around 5 cubic metres, collected monthly.

Vouchers and hard waste, chemicals

The Council currently provides residents with eight waste vouchers with their rates notice to dispose general waste, green waste, or hard waste at the Transfer Stations and/or via Council's bi-monthly kerbside hard waste collection service.

What we heard

- Most are aware of the vouchers but less than 50% of vouchers are claimed at the transfer stations. Only about a fifth of respondents visiting took hard waste to transfer stations
- A number want the Council to establish hard waste collection days kerbside, being unaware of the current kerbside hard waste booking voucher service

Most users of DRUMmuster are aware of their responsibilities about rinsing, deposition.

Transfer stations

The Council operates four Transfer Stations located at Bealiba, Carisbrook, Dunolly and Talbot. All sites are supervised during operating times so as to separate recyclables, collect fees and waste vouchers, and for site management.

What we heard

- Two thirds of respondents say that they currently travel less than 15 kilometres to visit. Just less than half respondents prepared to travel up to 30 kilometres.
- Most rural responses indicate they have visited transfer stations within the last twelve months.
- One in six respondents don't separate recyclables in their loads.
- The voucher system is appreciated.

Community Education

The Council has produced a free “*Sustainable Waste Management*” brochure which is an easy guide to waste and recycling. It is available on Council’s website.

What we heard

- Respondents generally misunderstood what should be placed in street litter bins and street recycling bins
- Generally, there was a lack of awareness about the amount of Food organics and Garden organics (FoGos) that ended up in landfill
- Respondents were unsure or wrong about all except four of fourteen items listed that should be placed in waste or recycling bins. The majority of respondents think that other community members do not know how to correctly separate recyclables from waste
- The importance of uncontaminated recycled material requires a fundamental shift in community behaviour

Some rurally based residents think that their fortnightly 140 litre bin standard waste service is a lesser service than the urban weekly 80 litre bin standard service.

Resale Shops

The Council has built a designated resale shop at the Carisbrook Transfer Station.

What we heard

- Quite a few are aware of them
- When visiting the transfer stations about half respondents said that they have a look at the items for sale
- Most do not go to a transfer station just to visit a resale shop
- A lot take what they hope will be of value to opportunity shops, other charities, or have garage sales, use e-bay or Gum tree platforms.

Litter management and “hotspots”

Besides being unsightly, litter can damage the environment. Rubbish left on roads leaches toxins into the environment and when washed into drains ends up in waterways destroying wildlife.

What we heard

There were some trouble-spots identified which need follow-up

The majority who reported litter contacted the Council or Parks Victoria; none to VicRoads, or Sustainability Victoria, or to the EPA

The majority think that the litter and recycling service at major events is good to excellent.

Food organics and Garden organics (FoGos)

The Council provides a voluntary urban bi-monthly kerbside service for garden green waste and household organics.

What we heard

All respondents who pay for the voluntary service are satisfied with the service

About a third of respondents indicated that they are putting in food scraps, however reported issues about smell and vermin, and about not obtaining end-product compost sometimes

A bit less than half indicated that they might be prepared to swap the weekly red bin service to fortnightly in exchange for a weekly FoGo service

About half respondents not having a FoGo service indicate that they compost at home, and a number place into the waste service

There was little interest shown by rural residents in having the Council set up a FoGo drop off service.

e-Waste

The Council has just distributed receptacles to collect small items of e-waste which are now banned from deposition into landfills. Larger e-waste items are accepted at Council Transfer Stations.

What we heard

The majority of respondents claim they have a good understanding of what e-waste is, and aware that it should not end up in a landfill

- They support that receival points continue to be at transfer stations, and to be established at Council offices and the library, at post offices, the Business Transaction Centre at Dunolly
- A number are dropping off e-waste at opportunity shops and charity outlets

Some suggested to have receival points at schools.

Ways to encourage re-use

The Federal government has now embraced what is known as the Circular Economy, moving away from a linear model of take-make-consume-throw-away pattern to a circular pattern which encourages products to be made and used time and time again.

What we heard

- The majority of respondents are prepared to contribute towards finding means to improve re-use and recycling products markets
- Most would be prepared to contribute around \$20 per annum to achieve a suitable program of encouragement.

Waste management – residents and waste survey

Q1 Which township do you identify with? (e.g. Maryborough, Talbot, Mt Cameron etc)

Q2 How many people live in your household?

Q3 What are their ages?

- 0-9
- 10-19
- 20-29
- 30-39
- 40-49
- 50-59
- 60-69
- 70+

Q4 Do you have a kerbside bin service? (If answered no, the survey will take you to Question 16)

Q5 Tick the bins you have a kerbside collection for:

- Red (garbage)
- Yellow (recycling)
- Green (FOGO, Food Organics Green Organics)

Q6 If you do have a kerbside bin collection service, tick the bins you have received:

- Red (garbage)
- Yellow (recycling)
- Green (green waste and household organics)
- Other (please specify)

Q7 What size red-lidded garbage bin do you have?

- 80 litre (very small)
- 140 litre (small)
- 240 litre (large)

Q8 Are you happy with the red-lidded bin size?

Q9 Are you happy with the red-lidded bin service provided?

Q10 If answered no, can you explain why you are unhappy here?

Q11 Can you suggest how the waste collection (red-lidded bin) service might be improved?

- No
- Unsure
- If yes, please outline your suggestions here

Q12 Do you think you receive value that equates to the cost of receiving the red-lidded bin service?

Q13 When putting out your red-lidded garbage bin, how full is it usually

- Empty to a quarter
- Quarter to half
- Half to three quarters
- Three quarters to full

Q14 How often do you put out your red-lidded bin?

- Weekly
- fortnightly
- Monthly
- Every couple of months

Q15 Do you have a yellow-lidded bin (recycling)?

Q16 To the best of your knowledge, which bin would you place the following items into?

- Plastic bag
- Aerosol can
- Aluminium foil
- Plastic toy
- Polystyrene
- Battery
- Glass jar
- Chip packet
- Yoghurt container
- Clothing
- Pizza box
- Nappies
- Food scraps
- Cardboard
- Recycling bin
- Waste bin
- Not sure/neither

Q17 Are you happy with the yellow-lidded bin size?

Q18 Are you happy with the yellow-lidded bin service provided?

Q19 If no, can you briefly outline why you are dissatisfied here?

Q20 Do you think you receive value that equates to the cost of receiving the yellow-lidded bin service?

Q21 Can you suggest how the recycling collection (yellow-lidded) bin service might be improved (e.g. small bins at less cost, more or less frequently collected etc)

Q22 Can you briefly outline your suggestions here?

Q23 Have you ever found that you have to put any of your recycling into the red-lidded bin?

Q24 How often does this occur?

- Once a month
- After an event
- Most weeks
- Most fortnights
- Every week
- Every fortnight

Q25 When you put out your yellow-lidded bin, how full is it usually?

- Empty to a quarter
- Quarter to half
- Half to three quarters
- Three quarters to full

Q26 How often do you put out your yellow-lidded bin?

- Fortnightly
- Monthly
- Every couple of months

Q27 Do you have a lime green lidded bin service? If no, go to question 36

Q28 Are you happy with the lime-green lidded bin size?

Q29 Do you regularly put vegetable, table or meat scraps, bones and other similar foods into the lime-green lidded bin?

Q30 Can you see any issues about putting food scraps and other similar food materials into the lime-green lidded bin?

Q31 If answered yes, please outline any issues

Q32 If you have a fortnightly lime-green bin collection service and also a weekly red-lidded waste collection service, would you swap how often these bins are collected?

Q33 Please outline your reasons here:

Q34 If you don't have a lime-green bin service, how do you currently dispose of green and household food and organics material?

- Put into general waste (red) bin
- Compost at home
- Dispose of green, garden, food and organics on property
- Burn some or all of it
- Take to a transfer station
- Other (please specify)

Q35 If you dispose green and/or household organics at a transfer station, how often do you do this?

- Monthly or more often
- About every three months
- During spring mostly
- About once a year

Q36 Would you make use of a garden waste drop off service to an existing transfer station for a fee to cover the cost of such a service?

Q37 If a fee was to be charged for a garden waste drop-off service, would you be prepared to pay:

- \$40 per cubic metre
- \$40 to \$60 per cubic metre
- More than \$60 per cubic metre
- I would not be prepared to pay for such a service

Q38 If food, organics and garden waste materials were able to be consistently separated from the kerbside waste stream, how much do you think waste tonnage to landfill might be reduced from Central Goldfields?

- Less than 10 percent
- 10 to 20 percent
- 20 to 40 percent
- More than 40 percent

Q39 If you answered more than 10 percent, do you have any suggestions as to how such waste may be better diverted?

Q40 If you do not have any kerbside collection of waste or recyclable service, please tick the applicable boxes:

- I take it to a Council transfer station
- I have a private service collection arrangement
- I dispose of all my waste, green, garden and household organics on my property and recyclables to others
- Other (please specify)

Q41 If you do not have any kerbside waste collection service, would you be prepared to pay for a kerbside collection service to the vicinity of your property?

Q42 During the last 12 months, have you visited a transfer station situated within the Central Goldfields Shire?

Q43 If answered yes, please indicate where:

- Bealiba
- Carisbrooke
- Dunolly
- Talbot

Q44 How often did you visit the transfer station/s?

- Weekly
- Fortnightly
- Monthly
- Less often than monthly

Q45 How far did you travel to a transfer station?

- Less than 15 kilometres
- 16 to 30 kilometres
- More than 30 kilometres

Q46 Please indicate the following reasons for you to visit a transfer Station

- To deposit rubbish
- To deposit recyclables such as batteries, cardboard, paper glass, metals or wire, plastics, green waste etc
- To pick up items from the resale shop
- To pick up recycled compost bag/s
- To dispose of hard rubbish such as furniture, carpets, old toys, etc
- To dispose of timber
- To dispose of bricks or concrete
- To dispose of tyres
- Other (please specify)

Q47 Do you ensure that your load/s are separated into recyclables, green or household organics and waste rubbish?

Q48 Do you use the vouchers supplied by the Council to help offset the cost of disposal at the transfer station?

- Yes
- No
- Not aware of the vouchers

Q49 Are you happy with the services at the transfer station that you visited?

Q50 Are you aware of the existence of the resale shops at the transfer Stations?

Q51 When visiting a transfer station, do you have a look at what's for sale at the resale shop?

Q52 Have you ever visited a transfer station in Central Goldfields specifically to look an item at the resale shop?

Q53 How do you currently dispose of hard rubbish (e.g. furniture, fridges, broken or discarded toys, tools, etc)?

- Take them to a transfer station
- Take them to an op shop or charity
- Pay for private collection
- Have a garage sale
- Use the Council-arranged collection service by appointment using vouchers and/or payment
- I do not have any hard waste
- Other (please specify)

Q54 When considering a hard rubbish collection, what service would you prefer?

- The current voucher services offered by CGSC
- The current booking service of first and third Monday of each month for a Council contractor to collect
- A blanket once a year hard rubbish collection service paid for by all ratepayers as an extra charge through annual rates and charges
- Other (please specify)

Q55 Do you think you have a solid understanding of what should and what should not be placed in each kerbside collection bin (red, yellow and lime green lidded bins)?

Q55 Do you think you have a solid understanding of what should and what should not be placed in each kerbside collection bin (red, yellow and lime green lidded bins)?

Q57 Do you have any suggestions about how Council might encourage the community to better understand what can be placed in which bins?

- Online education
- Funding local community groups to educate about better waste management
- Information through social media
- Videos on Council's website
- Information stands at community events
- A community festival about sustainability
- A hotline to about waste
- Other (please specify)

Q58 What is your assessment about the number and placement of street litter and street recycling bins the Council provides?

- Maryborough
- Carisbrook
- Talbot
- Dunolly
- Bealiba
- Moliagul
- Number and locations about right
- Not enough
- Too many
- Emptied often enough
- Not emptied enough
- In wrong location

Q59 When using street litter bins, what do you place in them?

- Wrappings
- Disposable coffee cups
- Food scraps
- Soft drink bottles
- Other bottles and containers
- Newspapers
- Cigarette butts
- Plastic bags
- Advertising material
- Household rubbish
- Dog droppings
- Other (please specify)

Q60 When using recycling bins, what do you place in them?

- Disposable coffee cups
- Soft drink bottles
- Other bottles and containers
- cardboard containers
- Newspapers
- Plastics
- Plastic bags
- Advertising material
- Household rubbish
- Other (please specify)

Q61 What are your thoughts about the number and placements of rubbish and recycling bins used at community events, which are directly supported by Council?

- Excellent
- Good
- Could be better
- Poor
- Not sure
- Other (please specify)

Q62 Have you noticed any litter and illegal dumping “hotspots”?

- Yes
- No
- If answered yes, please describe the location/s, what type of material was dumped and if it was reported?

Q63 If yes, did you report it to:

- Council
- EPA
- Parks Victoria
- Sustainability Victoria
- VicRoads
- Other (please specify)

Q64 Do you know what e-waste is?

Q65 Are you aware from 1 July 2019, e-waste will not be able to be accepted into any kerbside bin, street litter bin, or even landfill anywhere in Victoria?

Q66 Where should Central Goldfields Shire Council provide suitable locations to accept e-waste?

- Transfer stations (for larger items)
- Council's Customer Service Centre at 22 Nolan Street, Maryborough (for smaller items)
- Maryborough Regional Library (for smaller items)
- Post offices in townships (for smaller items)
- Other Council-owned buildings (please suggest which ones below)
- Schools
- Other (please specify)

Q67 Do you dispose of household products that contain chemicals?

- Yes
- No
- If yes, please specify what products:

Q68 Do you dispose of them:

- Into kerbside red-lidded bins
- Into kerbside yellow-lidded recycling bins
- Take them to a transfer station
- Other (please specify)

Q69 Are you aware of the DrumMUSTER program at Central Goldfields Shire Council?**Q70 If answered yes, what are the requirements of the program?**

- Need to deposit containers at a transfer station
- Need to ask for containers to be picked up at the farm
- Need to rinse the containers at least once
- Need to rinse containers at least three times
- The containers do not need to be rinsed
- N/A

Q71 Would you be prepared to pay more to ensure more valuable materials that are currently deposited to landfills be diverted and better markets are built up to re-use the materials to be more sustainable?

Q72 If answered yes, would your household be prepared to pay an extra:

- \$20 per year
- \$50 per year
- More than \$50 per year

Waste management – rural households survey

Q1 Which township do you identify with? (e.g. Maryborough, Talbot, Mt Cameron or on land that is not part of a settlement – please describe)

Q2 How many people live in your household?

Q3 What are the ages of your household? (Select as many as needed)

- Aged between 0-9
- Aged between 10-19
- Aged between 20-29
- Aged between 30-39
- Aged between 40-49
- Aged between 50-59
- Aged between 60-69
- 70+

Q4 If you do not have any kerbside collection of waste or recyclable service, please tick the boxes applicable to you:

- I take most of it to a Council transfer station
- I have a private service collection arrangement
- I dispose of all my waste, green, garden and household organics on my property
- Other (please specify)

Q5 If you do not have a kerbside waste collection service, would you be prepared to pay the annual charge of \$153.90 for a waste collection service to the vicinity of your property?

Q6 If you do not have any kind of kerbside recycling collection service, would you be prepared to pay the annual charge of \$137.70 for a recycling collection service to the vicinity of your property?

Q7 If you do not have a lime green bin service, how do you dispose of green and household organics?

- Compost at home
- Burn some or all of it
- Take to a transfer station
- Feed it to my animals
- Other (please specify)

Q8 How often do you dispose of green and/or household organics materials at a transfer station?

- Monthly or more often
- About every three months
- During spring mostly
- About once per year
- I do not dispose of it at a transfer station

Q9 Do you think the garden and household organics (lime green-lidded) bin service should be extended to your property for an annual charge of \$68.70?

Q10 Would you use a garden waste drop off service to take green waste to an existing transfer station for a fee?

Q11 If a fee was to be charged for a garden waste drop-off service, would you be prepared to pay:

- \$40 per cubic metre
- \$40 to \$60 per cubic metre
- More than \$60 per cubic metre
- I would not be prepared to pay for such a service

Q12 During the last 12 months, have you visited a transfer station situated within the Central Goldfields Shire?

Q13 If answered yes, please answer the following: Please indicate which transfer station/s you have visited?

Q14 How often do you visit the transfer station/s?

- Weekly
- Fortnightly
- Monthly
- Less often than monthly

Q15 How far did you travel to a transfer station?

- Less than 15 kilometres
- 16 to 30 kilometres
- More than 30 kilometres

Q16 Which is the furthest distance you would be prepared to travel to a transfer station?

- Less than 15 kilometres
- 16 to 30 kilometres
- More than 30 kilometres

Q17 Please indicate the following reasons for you to visit a transfer Station

- To deposit rubbish
- To deposit recyclables such as batteries, cardboard, paper glass, metals or wire, plastics, green waste etc
- To pick up items from the resale shop
- To pick up recycled compost bags
- To dispose of hard rubbish such as furniture, carpets, old toys, etc
- To dispose of bricks or concrete
- To dispose of timber
- To dispose of tyres
- Other (please specify)

Q18 Do you ensure that your load/s are separated into recyclables, green or household organics and waste rubbish?

Q19 Do you have any of the vouchers supplied by the Council to help offset the cost of disposal at the transfer station?

- Yes
- No
- Not aware of the vouchers

Q20 Are you happy with the services at the transfer station that you Visit?

Q21 If answered no, can you list why you were not happy, and at which transfer station/s?

Q22 Are you aware of the existence of the resale shops at the Transfer Stations?

Q23 When visiting a transfer station, do you have a look at what's for sale at the resale shop?

Q24 Have you ever visited a transfer station in Central Goldfields to specifically look for something that might be offered for sale at a resale shop?

Q25 How do you currently dispose of hard rubbish (e.g. furniture, fridges, broken or discarded toys, tools, etc)?

- Take them to a transfer station
- Take them to an op shop or charity
- Pay for private collection
- Have a garage sale
- use the Council-arranged collection service by appointment using vouchers and/or payment
- I do not have any hard waste
- Other (please specify)

Q26 Are you aware of the DrumMUSTER program at Central Goldfields Shire Council?

Q27 If answered yes, what are the requirements upon those wishing to dispose of chemical containers through the program?

- Deposit containers at a transfer station
- Ask for containers to be picked up at the farm
- Rinse the containers at least once
- Rinse containers at least three times
- The containers do not need to be rinsed
- N/A

Q28 Would you be prepared to pay more to have a better waste sorting service, so more materials are diverted from landfill?

Q29 If answered yes, would your household be prepared to pay an extra:

- \$20 per year
- \$50 per year
- More than \$50 per year

Q30 Do you have any other comments about the separation and re-use of materials going to landfill or disposed of by other means?

Waste management – commercial, industrial and enterprises survey

Q1 Describe the category of business that you conduct

- Commercial retail shop enterprise
- Large or major commercial retailer enterprise
- Industry (please describe below)
- Builder or allied trade
- Similar trading enterprise
- Other (if you selected industry, please type your answer here)

Q2 Where is your business located?

Q3 Do you currently dispose of some or all commercial, building or other industrial waste using a commercial skip bin service? If answered no, the survey will take you to Question 7

Q4 How big is the skip bin?

- Up to 1 cubic metre capacity
- 1 to 2 metres capacity
- 2 to five metres capacity
- Greater than 5 cubic metres capacity

Q5 How many skip bins on average are supplied and emptied to your enterprise?

- One
- Two
- Three
- If more than three, please specify

Q6 How often does this occur?

- Daily
- Weekly
- Monthly
- Every two to three months
- Every six months
- Less frequently

Q7 Do you currently dispose of some or all commercial, building or other industrial waste using the kerbside bin service provided by Council?

Q8 If yes, how many red-lidded kerbside bins (waste) are provided by Council?

- One
- Two
- Three
- Four
- More than four

Q9 If yes, how many yellow-lidded bins (recycling) are provided by Council?

- None
- One
- Two
- Three
- Four
- More than four

Q10 If you do not use a skip bin service, or dispose waste to a kerbside service, or dispose to a transfer station, how do you dispose of your waste?

Q11 Do you currently dispose of some or all commercial, building or other industrial waste by direct disposal to one of Council's transfer stations?

Q12 If answered yes, what material generally best describes the types of waste disposed of?

- General waste
- Recyclables
- A mix of general and recyclables
- Builder's waste
- Other (please specify)

Q13 If answered yes to question 10, how much material is disposed?

- Up to one cubic metre
- 1 to 2 cubic metres
- 2 to 5 cubic metres
- Greater than 5 cubic metres

Q14 How often do you dispose of your material?

- Daily
- Weekly
- Fortnightly
- Monthly
- Every two to three months

Q15 Do you find that access to a Council transfer station has:

- Adequate opening days
- Adequate hours during opening days
- Inadequate hours during opening days
- Adequate access to disposal points
- Inadequate access to disposal points
- Adequate access within the transfer station facility
- Inadequate access within the transfer station facility

Q16 Do you have any other comments about Council's transfer station/s?

Q17 What are your views about how your business may better separate recyclables from the waste stream?

Q18 How do you think Council may assist your business in better separation of recyclables?

Q19 If your business has a current skip bin service, is the frequency skip bin service:

- About right
- Not frequent enough
- Doesn't apply to our business

Q20 Is the collection frequency of Council's kerbside red bin (garbage) service:

- About right
- Not frequent enough
- Doesn't apply to our business

Q21 Is the collection frequency of Council's kerbside yellow bin (recycling) service:

- About right
- Not frequent enough
- Doesn't apply to our business

Q22 Would you be prepared to pay more to have a better waste sorting service, so more materials are diverted from landfill?

Q23 If you answered yes, would your business be prepared to pay an extra:

- \$20 a year
- \$50 a year
- More than \$50 a year

Q24 How do you currently dispose of hard rubbish (e.g. furniture, fridges, broken or discarded toys, tools, etc)

- Take them to a transfer station
- Take them to an opportunity shop or charity
- Pay for private collection
- Have a garage sale
- Use the Council-arranged collection service by appointment using vouchers and/or payment
- I do not have any hard waste
- Other (please specify)

Q25 When considering a hard rubbish collection, what service would you prefer?

- The current voucher services offered by Council
- The current booking service of first and third Mondays of each month for a Council contractor to collect
- A blanket once a year hard rubbish collection service paid for by all ratepayers as an extra charge through your annual
- rates and charges
- Other (please specify)

<p>Central Goldfields Shire Council</p> <p>22 Nolan Street</p> <p>Maryborough VIC 3465</p> <p>Telephone: (03) 5461 0630</p> <p>Mobile:</p> <p>Email:</p> <p>www.centralgoldfields.vic.gov.au</p>	<p>Document: Waste Management Strategy 2020 - 2030</p>
	<p>Title: Waste Management Strategy 2020 - 2030</p> <p>Project Manager: Ron Potter, Manager Infrastructure</p> <p>Authors: Morag Anderson, RM Consulting Group Malcolm Styles, Principal, Engineering Management Styles</p>
	<p>Synopsis: This Waste Management Strategy reviews the waste management activities of Central Goldfields Shire Council and its goals for the next ten years. It establishes actions to achieve these goals. The views of the local community and other stakeholders were sought regarding Council's waste management services. These views have been used to inform the development of actions that ensure that the waste responsibilities of Council are met.</p>