



INFRASTRUCTURE COMMITTEE MEETING

AGENDA

6 JUNE 2023

Your attendance is required at an Infrastructure Committee meeting of Council to be held in the Council Chambers, 232 Bolsover Street, Rockhampton on 6 June 2023 commencing at 9:00am for transaction of the enclosed business.

A handwritten signature in black ink, appearing to be "C. P.", written in a cursive style.

CHIEF EXECUTIVE OFFICER
30 May 2023

Next Meeting Date: 04.07.23

Please note:

In accordance with the *Local Government Regulation 2012*, please be advised that all discussion held during the meeting is recorded for the purpose of verifying the minutes. This will include any discussion involving a Councillor, staff member or a member of the public.

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1 OPENING

1.1 Acknowledgement of Country

2 PRESENT

Members Present:

The Mayor, Councillor A P Williams (Chairperson)
Deputy Mayor, Councillor N K Fisher
Councillor S Latcham
Councillor C E Smith
Councillor C R Rutherford
Councillor M D Wickerson
Councillor D M Kirkland
Councillor G D Mathers

In Attendance:

Mr E Pardon – Chief Executive Officer
Mr P Kofod – General Manager Regional Services (Executive Officer)

3 APOLOGIES AND LEAVE OF ABSENCE

4 CONFIRMATION OF MINUTES

Minutes of the Infrastructure Committee held 3 May 2023

5 DECLARATIONS OF INTEREST IN MATTERS ON THE AGENDA

6 BUSINESS OUTSTANDING

Nil

7 PUBLIC FORUMS/DEPUTATIONS

Nil

8 PRESENTATION OF PETITIONS

Nil

9 COUNCILLOR/DELEGATE REPORTS

Nil

10 OFFICERS' REPORTS

10.1 REMOVAL OF PART OF CRAIGNAUGHT ROAD FROM THE ROAD REGISTER

File No: 6984

Attachments:

1. [Craignaught Road - Road Register](#)
2. [Craignaught Road - Proposed Length \(with aerials\)](#)
3. [Craignaught Road - Proposed Length](#)

Authorising Officer: John Gwydir - Manager Civil Operations

Author: Hayley Chadwick - Business Improvement Advisor

SUMMARY

A request has been received by a property owner on Craignaught Road, Morinish, to reduce the length of road maintained by Council and listed on the Road Register to 1.5km from Glenroy Road. The request is supported by other affected land owners along Craignaught Road.

OFFICER'S RECOMMENDATION

THAT Council remove 2.96km of Craignaught Road from the Road Register.

COMMENTARY

A request has been received by a property owner on Craignaught Road to remove a length of Craignaught Road from the Road Register. The proposal is for the maintained road to be reduced to the first 1.5km from Glenroy Road which services a number of property accesses. Beyond this point, the only properties serviced are those owned by the requesting property and their family/relatives. All property owners beyond this point have also submitted written support for this adjustment to the Road Register.

Craignaught Road is in the locality of Morinish and has a full length of approximately 16.5km. As shown in attachment 1, the majority of Craignaught Road is on the Road Register with a break of 2.2km, approximately 4.46km from Glenroy Road. This 4.46km section, is the section proposed to be reduced to 1.5km.

The section of road remaining on the register services a number of properties and accesses. Beyond this point, properties serviced do not contain dwellings and support has been received by these property owners to remove the road from the Road Register.

Reducing the length of maintained road on the Road Register, in this scenario is consistent with the Rural Road Network Policy with the principal purpose of the policy being to provide road access to properties containing habitable dwellings.

CONCLUSION

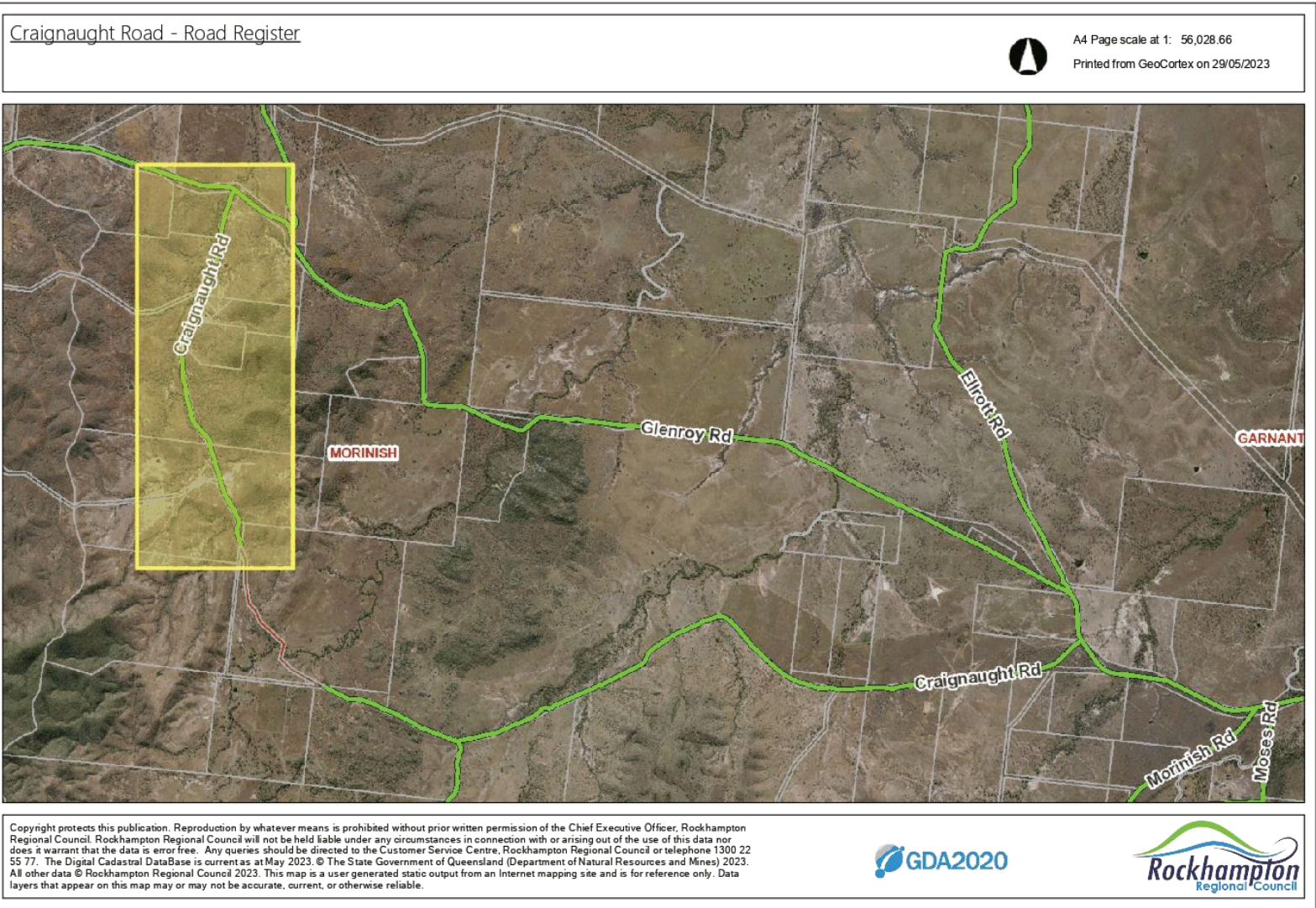
Reducing the length of Craignaught Road on the Road Register is at the request of the landowners of Craignaught Road, is consistent with Council policy and is recommended Council support this request.

**REMOVAL OF PART OF
CRAIGNAUGHT ROAD FROM THE
ROAD REGISTER**

Craignaught Road - Road Register

Meeting Date: 6 June 2023

Attachment No: 1



**REMOVAL OF PART OF
CRAIGNAUGHT ROAD FROM THE
ROAD REGISTER**

**Craignaught Road - Proposed Length
(with aerials)**

Meeting Date: 6 June 2023

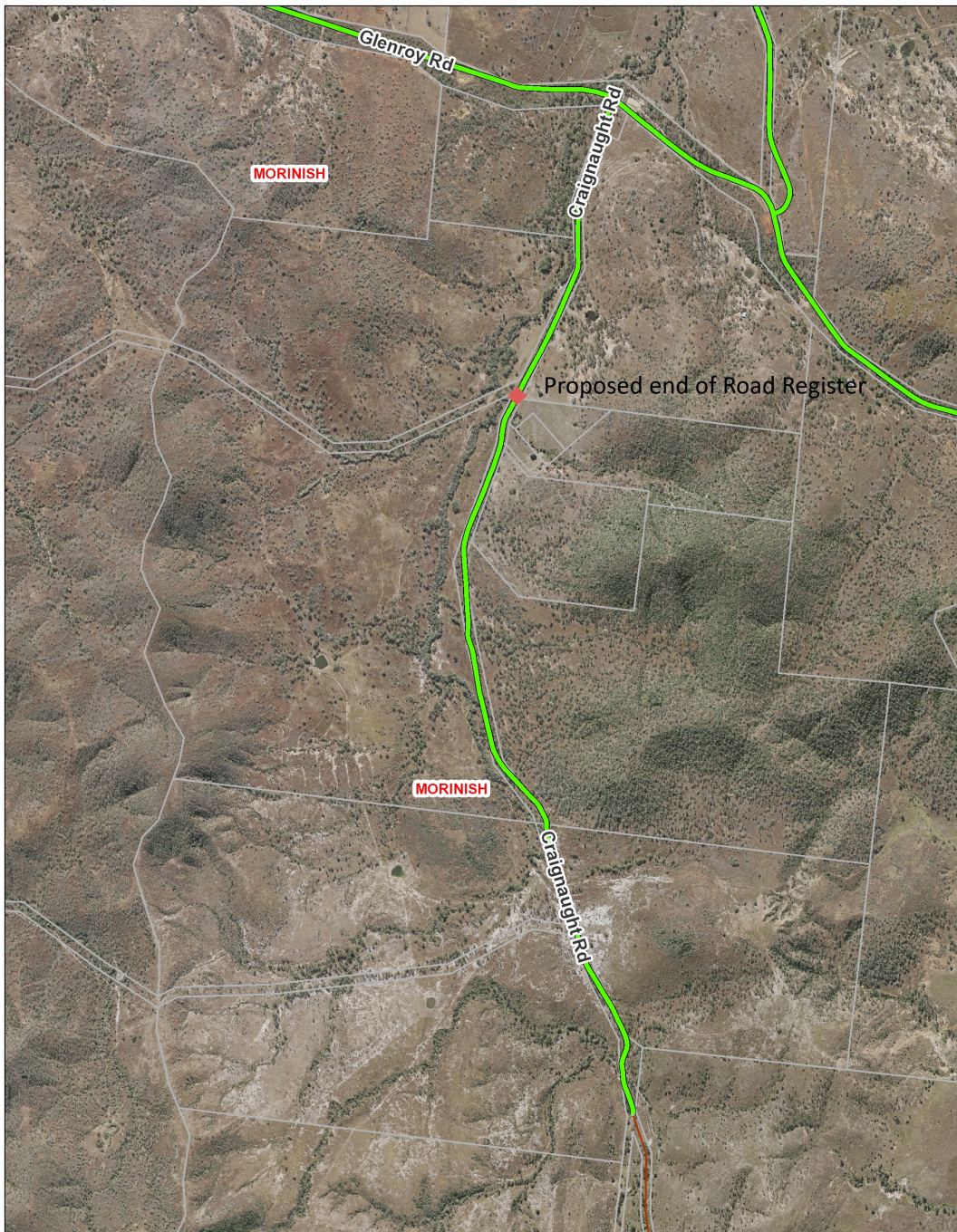
Attachment No: 2

Proposed Road Register End - Craignaught Road



A4 scale at 1: 21,232.58

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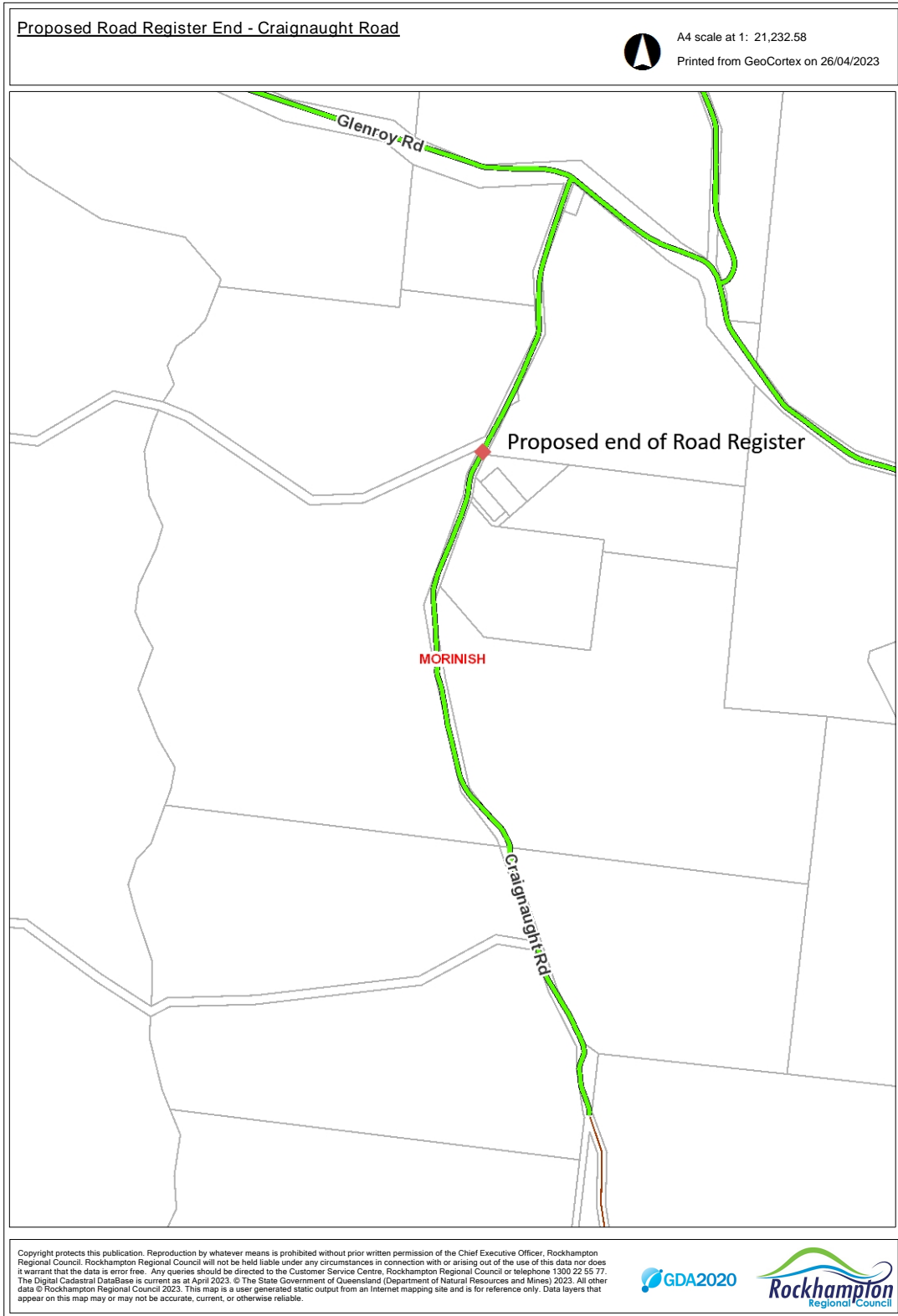


**REMOVAL OF PART OF
CRAIGNAUGHT ROAD FROM THE
ROAD REGISTER**

Craignaught Road - Proposed Length

Meeting Date: 6 June 2023

Attachment No: 3



10.2 MILDURA RISE ESTATE - SEWERAGE CONNECTION

File No:	D/207-2022
Attachments:	1. Mildura Rise Proposed Layout ↓
Authorising Officer:	Doug Scott - Manager Planning and Regulatory Services Alicia Cutler - General Manager Community Services
Author:	Jamie McCaul - Coordinator Development Engineering

SUMMARY

Council have received a referral from Livingstone Shire Council (LSC) in relation to a Development Application for a low-density residential development within the Rockyview suburb to the north of the Rockhampton Regional Council (RRC) boundary called the Mildura Rise Estate.

The referral is regarding a connection of the proposed development to RRC's reticulated sewerage network. This could be achieved via an agreement between LSC and RRC subject to appropriate terms being reached.

OFFICER'S RECOMMENDATION

THAT Council support connection to Rockhampton Regional Council's reticulated sewerage network upon agreeing to appropriate terms that will form part of a commercial agreement between Rockhampton Regional Council and Livingstone Shire Council.

COMMENTARY

A briefing session occurred with Council on 16 May 2023 regarding the Mildura Rise Estate and connection to Council's reticulated sewerage network. RRC owns and operates the sewerage network to the south of the Rockyview area. The proposed low density residential development requires a connection to a reticulated sewerage network in accordance with the LSC Planning Scheme.

A connection to Council's sewerage network could be achieved via an agreement between LSC and RRC similar to that of the current bulk water supply agreement. Terms would need to be agreed around several items including infrastructure charges payable, bring forward costs of any trunk works, rates, operation and maintenance responsibilities and connection location.

The existing sewerage network has been assessed by Infrastructure Planning and it has been identified that the existing infrastructure has spare capacity to cater for the additional demand. The implications in catering for the additional load will mean some trunk sewerage works, in the order of \$3.2M, will be brought forward to 2038 depending on the rate of the development.

BACKGROUND

On 21 April 2023, Council received a third-party advice referral from LSC regarding the Mildura Rise Development proposed in Rockyview. The site is situated on the eastern side of the Bruce Highway between the Olive Estate to the north and Paramount Park to the south.

The applicant has had previous preliminary discussions with both LSC and RRC regarding the proposed development and specifically with RRC around connection to the reticulated sewerage network.

The LSC planning scheme indicates the site is located in the rural zone, in between rural residential development to the north and south. The development of the subject lot for infill rural residential development is consistent with the strategic plan for LSC and any increase in densities currently inhibited by the availability of infrastructure including sewerage.

The intention is to vary the effect of the scheme and permit low density residential development.

The proposed development consists of:

1. Service Station (already approved, approval valid till 2024)
2. Commercial Precinct
3. Residential Subdivision (approximately 400 lots)

Council is required to provide a response to LSC regarding the referral and specifically as to whether a connection to the reticulated sewerage network would be considered.

PREVIOUS DECISIONS

Nil

BUDGET IMPLICATIONS

The existing sewerage network has capacity to cater for the proposed demand however, it will bring forward proposed trunk sewerage work. The estimated timing associated with the bring forward works is 2038, depending on rate of development.

Terms to be agreed will include provision of appropriate infrastructure charges, bring forward costs etc.

LEGAL IMPLICATIONS

A commercial agreement between RRC and LSC will need to be established.

CORPORATE/OPERATIONAL PLAN

This project aligns with the corporate plan outcome 1.1: Safe, reliable, and sustainable infrastructure and facilities.

CONCLUSION

The works brought forward as a result of the additional demand are currently sequenced at 2048 and will be brought forward to 2038 (depending on the rate of development). In the meantime, the infrastructure charges payable and bring forward costs could be attributed towards a return on the investment Council has made towards the North Rockhampton Sewerage Treatment Plant upgrades.

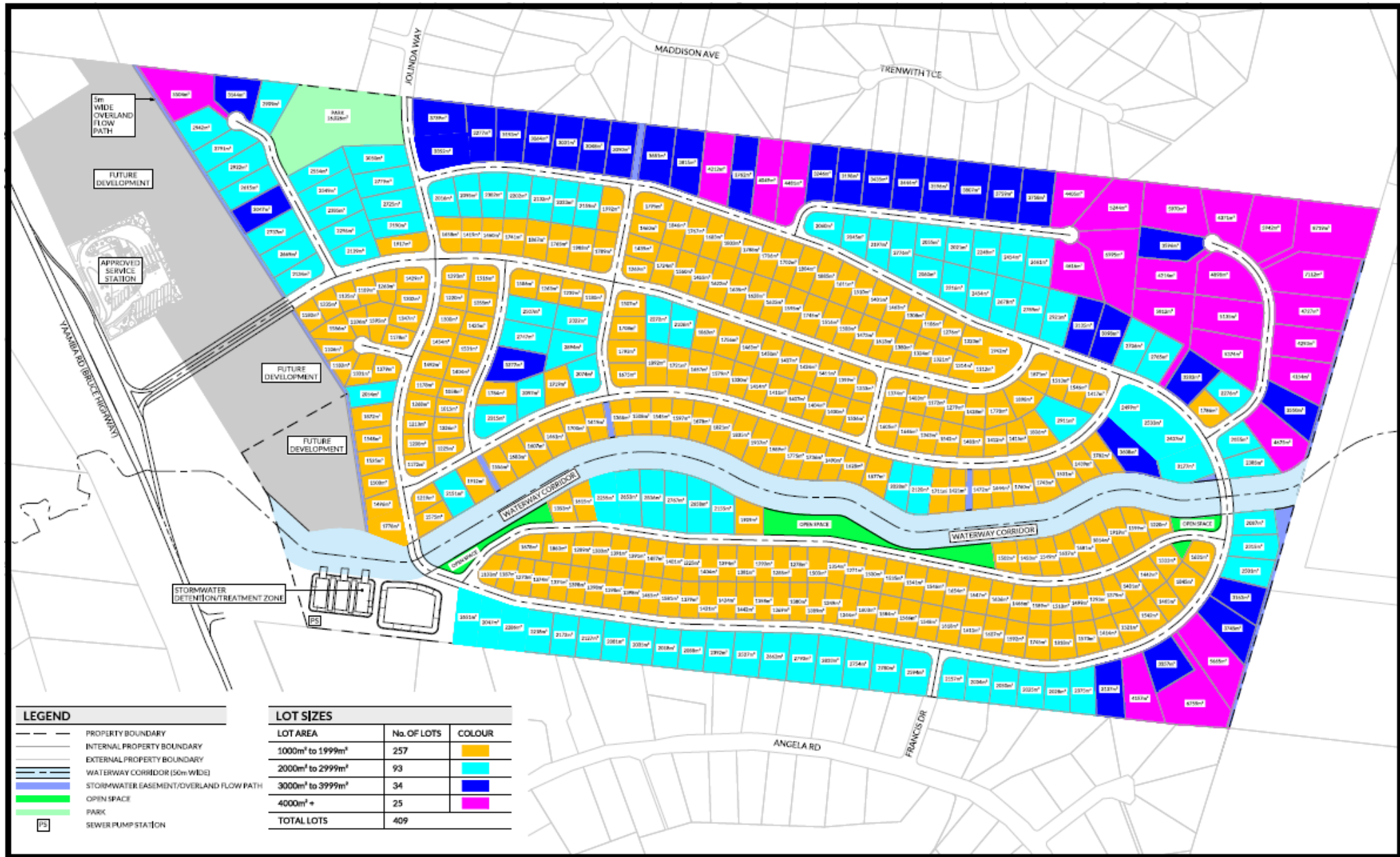
Further, the northern Rockyview area is considered RRC's logical growth corridor, and the smaller lots are supported in this regard.

MILDURA RISE ESTATE SEWERAGE CONNECTION

Mildura Rise Proposed Layout

Meeting Date: 6 June 2023

Attachment No: 1



LEGEND

	PROPERTY BOUNDARY
	INTERNAL PROPERTY BOUNDARY
	EXTERNAL PROPERTY BOUNDARY
	WATERWAY CORRIDOR (50m WIDE)
	STORMWATER EASEMENT/OVERLAND FLOW PATH
	OPEN SPACE
	PARK
	SEWER PUMP STATION

LOT SIZES

LOT AREA	No. OF LOTS	COLOUR
1000m ² to 1999m ²	257	
2000m ² to 2999m ²	93	
3000m ² to 3999m ²	34	
4000m ² +	25	
TOTAL LOTS	409	

10.3 REGIONAL WASTE AND RESOURCE RECOVERY MANAGEMENT PLAN - CENTRAL QLD

File No: 2233
Attachments: 1. CQ RWRRMP Executive Summary [↓](#)
Authorising Officer: Peter Kofod - General Manager Regional Services
Author: Michael O'Keeffe - Manager Rockhampton Regional Waste and Recycling

SUMMARY

The purpose of this report is to provide Councillors with the final Regional Waste and Resource Recovery Management Plan – Central Queensland and to seek endorsement.

OFFICER'S RECOMMENDATION

THAT Council endorse the Regional Waste and Resource Recovery Management Plan – Central Queensland and work with CQROC to seek the necessary funding to support implementation.

COMMENTARY

The Regional Waste and Resource Recovery Management Plan – Central Queensland (Plan) outlines the key issues and required actions to meet waste targets and ensure Council provides an effective waste management service. The Plan also provides an implementation roadmap and indicative cost estimate to implement the Plan from 2024 to 2031.

Summary below:

Organics

- Organics is a priority area focus for the region
- Councils with reducing advance payment (eg, Rockhampton & Gladstone) should explore FOGO
- All Councils continue to receive self-haul garden organics
- Behaviour change and education at regional scale

Recyclables

- Focus on a kerbside collection in areas where critical mass (eg, Rockhampton, Gladstone, Central Highlands & Livingstone)
- Notes limited benefits in the smaller Councils undertaking the additional yellow bin service
- Support for a CQ regional Materials Recycling Facility
- Consideration of Precincts, focusing on tyres, plastics, solar panels & e-wastes, etc.
- Behaviour change and education at regional scale

Residual

- Notes need for a regional solution such as Energy from Waste (EfW), Landfill, Refuse Derived Fuel (RDF)
- Notes the estimated additional cost per household for an EfW (\$155 per household) or RDF facility (\$91 per household), noting it is currently cost prohibitive
- Recommends undertaking a regional residual waste solution and business case (including a review of regional landfill airspace capacity)

Implementation

- Recommends the CQ Working Group to continue on to implement the Plan
- Governance Framework provided within the Plan. Individual Council endorsement prior to CQROC Board endorsement
- Regional Support Resource to be funded by the State

BACKGROUND

The Queensland Government released its Waste Management and Resource Recovery Strategy in June 2019. Queensland's vision is to become a zero-waste society, where waste is avoided, reused and recycled to the greatest possible extent. Current waste reduction targets by 2050 are:

- reduce waste generation by household by 25% by 2050;
- recycle 75% of all waste types by 2050; and
- send no more than 10% of all waste to landfill by 2050.

The strategy is underpinned by a waste levy, which commenced on 1 July 2019, the aim of which is to encourage business and industry to reduce, reuse and recycle more and send less waste to landfill.

Since the waste levy started, annual payments have been provided to Councils on the amount of Municipal Solid Waste disposed to landfill, to ensure that the levy has no direct cost impact on households. However, to progress the State towards achieving its targets, from 1 July 2022 the existing levy zone will be divided into two new zones – metro and regional – and annual payments will be reduced from 1 July 2023 in accordance with each Council's levy zone arrangements. While most councils in the new regional levy zone will see their annual payments reduced by 5% from 105% to 100% from 1 July 2023, the major regional councils of Cairns, Townsville, Mackay, Rockhampton, Gladstone, Bundaberg and Fraser Coast will see year on year decreases, starting at 95% from 1 July 2023 and reducing to 20% by 1 July 2030.

This has an impact on the Rockhampton community of in the order of \$12M over this same period.

Recognising the impact of changes to the levy rate and annual payment arrangements, the Queensland Government has funded the development of Regional Waste and Resource Recovery Management Plans across the State.

The established CQ Working Group has been working with the appointed consultant over the past 11 months to co-design the Regional Waste and Resource Recovery Management Plan – Central Queensland (Plan).

The Draft Plan was presented to Council on 13 December 2022.

BUDGET IMPLICATIONS

The indicative cost estimate to implement the Plan for Central Queensland from 2024 to 2031 is \$66.5M.

The quantum or mechanism around available funding from the State is currently unknown.

CONCLUSION

The Plan is of significant importance to Rockhampton Regional Council and Central Queensland. The Plan cannot be delivered without significant support, including funding from the State. With the endorsement of Council and each Central Queensland Council the Plan will be provided to the CQROC Board for final endorsement. The CQROC Board has endorsed the Plan in principle on 10 April 2023.

REGIONAL WASTE AND RESOURCE RECOVERY MANAGEMENT PLAN - CENTRAL QLD

CQ RWRRMP Executive Summary

Meeting Date: 6 June 2023

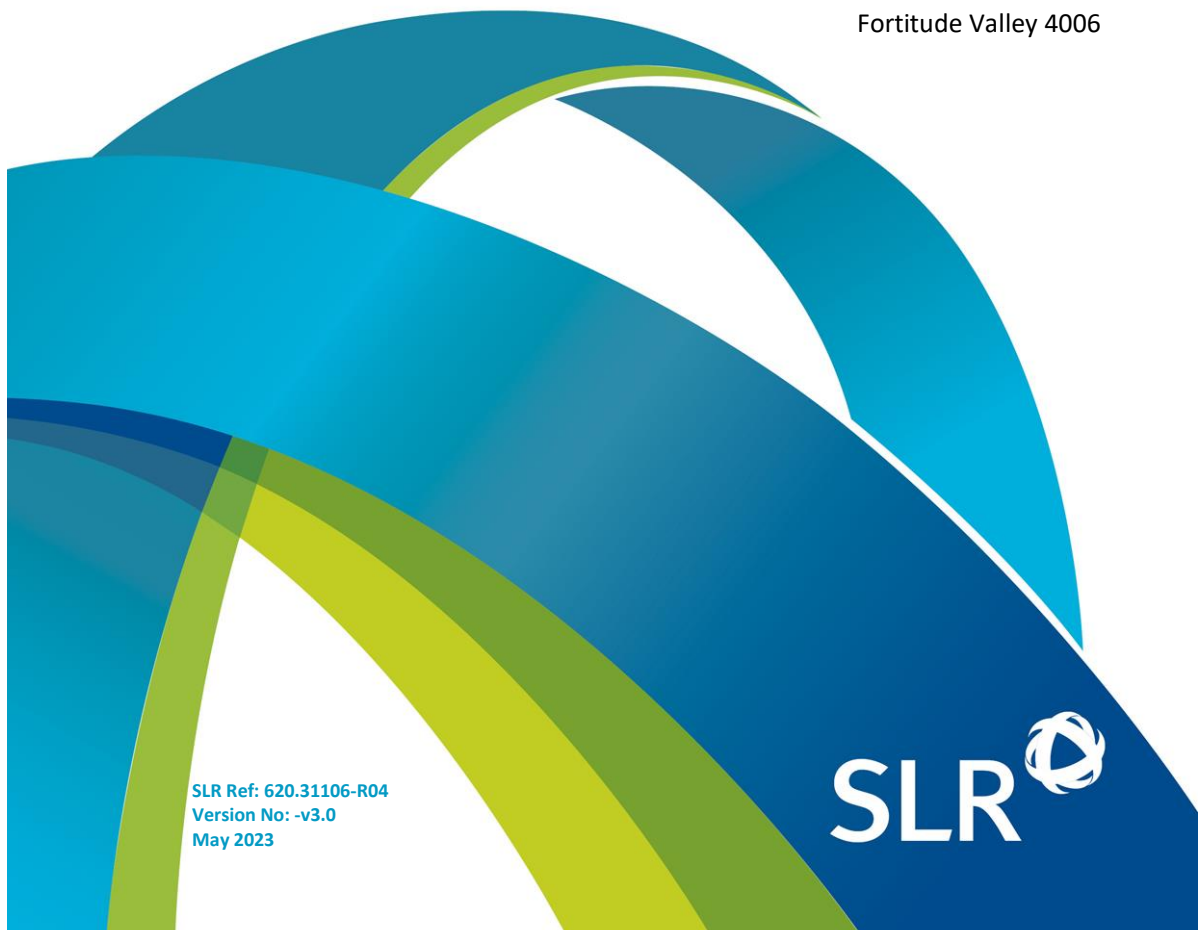
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REGIONAL WASTE AND RESOURCE RECOVERY MANAGEMENT PLAN

Central Queensland

Prepared for:

Local Government Association of Queensland
Local Government House
25 Evelyn Street
Newstead
Fortitude Valley 4006



SLR Ref: 620.31106-R04
Version No: -v3.0
May 2023

Local Government Association of Queensland
 Regional Waste and Resource Recovery Management Plan
 Central Queensland

SLR Ref No: 620.31106-R04-v3.0-20230523 CQ RWRMP.docx
 May 2023

PREPARED BY

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BASIS OF REPORT

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Local Government Association of Queensland (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

DOCUMENT CONTROL

Reference	Date	Prepared	Checked	Authorised
620.31106-R04-v3.0	23 May 2023	SLR Consulting	SLR Consulting	SLR Consulting
620.31106-R04-v2.0	12 April 2023	SLR Consulting	SLR Consulting	SLR Consulting
620.31106-R04-v1.0	8 December 2022	SLR Consulting	SLR Consulting	SLR Consulting

EXECUTIVE SUMMARY

The Central Queensland Regional Waste and Resource Recovery Management Plan

This Plan identifies a series of actions to be taken at a regional scale and for individual Councils to improve waste and resource recovery outcomes in the Central Queensland region. Participating Councils are Banana Shire Council, Central Highlands Regional Council, Gladstone Regional Council, Livingstone Shire Council, Rockhampton Regional Council, and Woorabinda Aboriginal Shire Council. Under the Central Queensland Regional Organisation of Councils (CQROC) Waste and Resource Recovery Working Group (WRRWG), a series of workshops and interviews were undertaken to define current challenges and opportunities, to identify, refine and select preferred options, and to identify a pathway for implementation.

The current population of the CQROC area is approximately 230,000¹ and predicted to grow an estimated 360,000 residents by June 2036. Population projections suggest growth in population will be most significant in Gladstone, Livingstone, and Rockhampton LGAs, marginal in Central Highlands, and population may decline in Banana Shire and Woorabinda Aboriginal Shire Council between 2016 and 2041.² Central Queensland is a major contributor to the state and National economy, generating \$17 billion in Gross Regional Product in 2019, primarily from key industries of mining and agriculture. These key industries are widely dispersed throughout the region. Key mining operations are conducted in the central, western, and southern areas near Emerald, Blackwater, Biloela, and Moura. Agricultural activities are located across the region from Banana through to Rockhampton, with the Central Highlands supporting approximately 1.3 million head of cattle across its expansive LGA.³

CQROC recognises that Woorabinda Aboriginal Shire Council is a member of the Central Queensland region for the purpose of developing and implementing a Regional Waste Management Plan and that:

- Woorabinda's preliminary internal assessment of impacts and opportunities relating to Waste Management does not identify business case elements for potential initiatives to be considered as part of the Qld State Infrastructure Investment Plans and/or other Strategic Plans in the immediate future.
- To negate this limitation, Woorabinda Aboriginal Shire Council will develop its own local waste reduction and resource recovery Plan to inform further iteration of the CQROC Regional Waste Management Plan and in due course provide greater opportunities to align needs and opportunities for State Infrastructure Investment and/or other Strategic Plans for Waste Management into the future.

¹ Central Queensland Regional Organisation of Councils, 2022. Population (<https://cqroc.org.au/population/>)

² Queensland Government population projections, 2018 edition; Australian Bureau of Statistics, Population by age and sex, regions of Australia, 2016 (Cat no. 3235.0).

³ DSDIP (2013). Central Queensland Regional Plan

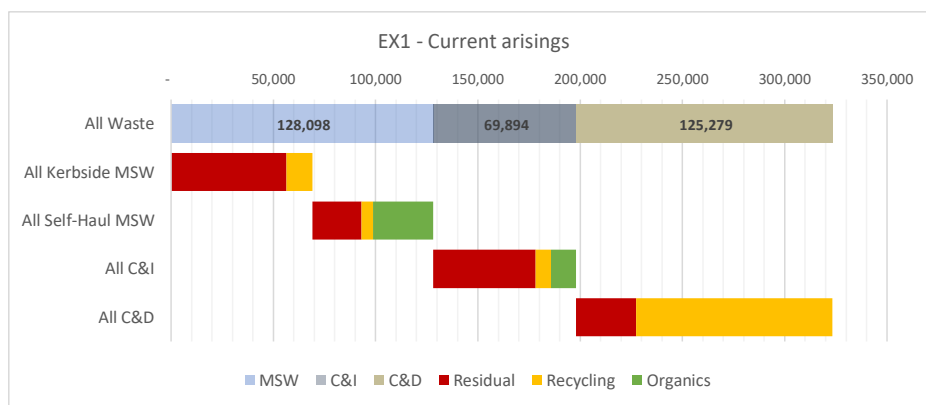
EXECUTIVE SUMMARY

Current state

Waste arisings and services

Councils in the Central Queensland region managed a total of 323,271 tonnes of waste in the 2020-21 financial year (FY20-21). This included (see **Figure EX1**):

- 128,098 tonnes of household waste (MSW stream).
- 69,894 tonnes of commercial and industrial waste (C&I); and
- 125,279 tonnes of construction and demolition waste (C&D).



Regionally the amount of waste managed by individual councils in FY20-21 was:

- Banana Shire Council: 4%
- Central Highlands Regional Council: 14%
- Gladstone Regional Council: 20%
- Livingstone Shire Council: 12%
- Rockhampton Regional Council: 50%
- Woorabinda Aboriginal Shire Council: <1%

Without action, waste managed by councils in the region is forecast to grow to 400,000 tonnes per year in FY30-31, and 480,000 tonnes per year by FY50-51. There remains a need to improve the quality and quantity of data available, particularly for private sector waste and recycling operations in the region.

All councils offer at least a kerbside household residual waste bin collection service. Central Highlands Regional Council, Gladstone Regional Council, Livingstone Shire Council and Rockhampton Regional Council currently offer a 2-bin collection system. Banana Shire Council offers a kerbside, blue-lidded bin for paper and cardboard

EXECUTIVE SUMMARY

All Councils also provide some form of self-haul facility which receive householder, commercial and industrial, and construction wastes. Problematic wastes with limited currently available recovery options in the region include construction and demolition wastes (e.g., masonry, aggregates, and concrete), contaminated soils, e-waste, food and garden organics, timber, textiles, and tyres.

The Plan identifies several regional or cross-regional solutions for these but acknowledges that Queensland or Commonwealth Government leadership and interventions will be needed for some of the more problematic waste streams.

Key issues

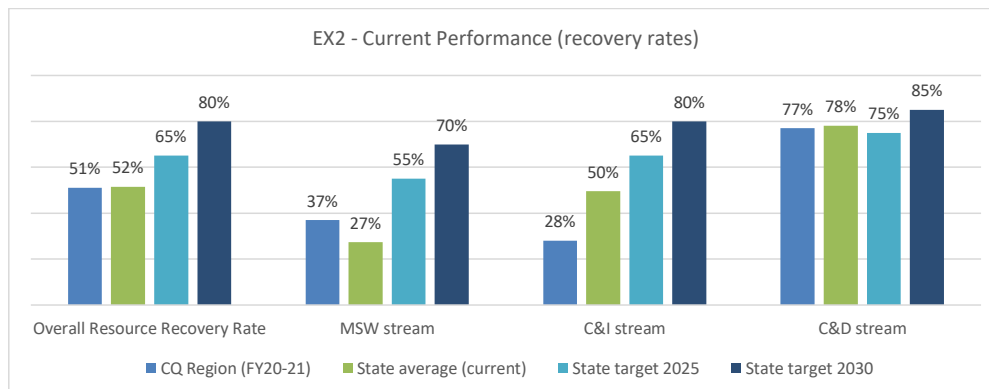
Several key issues identified were identified for the Plan to address:

- Lack of long-term approved and constructed landfill capacity.
- Geographical diversity in the region with a range of large geographical areas with dispersed populations and more densely populated urban areas, resulting in prohibitive transport costs.
- Councils in the region are required to diversify their service offering, but also receive significant amounts of non-household waste which they are expected to manage.
- Lack of scale for recycling or secondary processing.
- Lack of end-markets locally driving demand for recycled materials.
- Community understanding and behaviours impose a significant risk and impact to existing or proposed future operations.
- Current policy settings do not support greater recovery and recycling.
- There is an increasing cost to improving waste and resource recovery outcomes in the region.

Current performance against Strategy targets

The Central Queensland region has a current resource recovery rate of 51% across all streams, compared to a current state average of 52% and 2025 state target of 65%. The municipal solid waste (MSW) and construction and demolition (C&D) waste streams are consistent with the state average, whilst the commercial and industrial (C&I) stream is performing poorly. Across all streams, the 2025 and 2030 targets are challenging without intervention, as shown on **Figure EX2**.

EXECUTIVE SUMMARY



Plan outcomes

Education as a primary focus

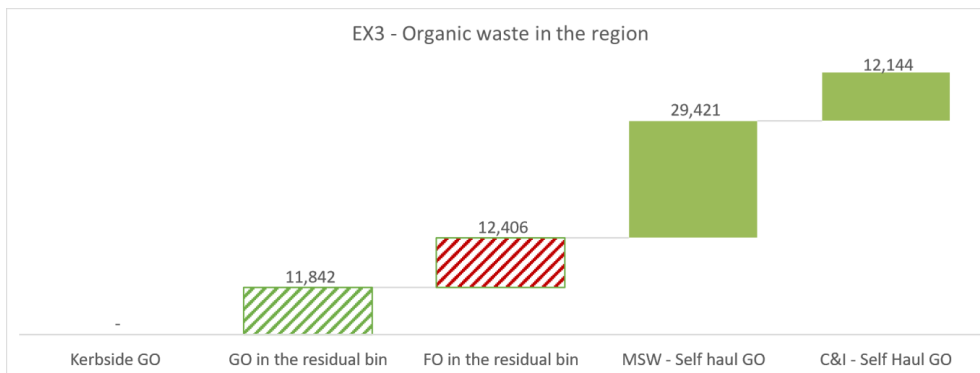
A regional waste and recycling education strategy has been identified by Councils to focus investment on education and behaviour change activities that promote better outcomes for the region. Education will focus on problem areas including reducing the kerbside recycling bin contamination rates, which diminishes the value of sorted material and can increase operational costs, as well as capturing more recyclable material currently sent to landfill. Other areas of focus will include food waste avoidance programs, and other behaviour change activities which educate residents on the benefits of getting recycling right.

The regional education strategy will be developed through collaboration by Councils in the region however will require investment and input from the Queensland Government to prepare and implement. Through further investment, this Strategy, and the resources deployed could also target education of waste producers in the C&I stream to drive better resource recovery outcomes. Woorabinda Aboriginal Shire Council will develop its own community specific education Plan to align with other education services in the area.

Improved organic waste management

The Central Queensland region already recovers and recycles 41,565 tonnes of green waste (in FY20-21) through material delivered to Council resource recovery facilities. A further 24,000 tonnes of food and garden organic waste (FOGO) is estimated to be sent to landfill across the region (as shown on **Figure EX3**). This represents an opportunity in the region to divert some of this material from landfill and into organic waste recycling through composting, whether at commercial facilities, at home, or via community facilities. In the region, current policy and economic settings suggest that Gladstone Regional Council and Rockhampton Regional Council have sufficient volume to introduce a separate organic waste kerbside collection and processing solution. For other councils in the region, lack of suitable processing and current policy settings may limit the potential establishment of kerbside organic waste services.

EXECUTIVE SUMMARY



For those parts of the region that cannot access a kerbside organic waste collection service, the Queensland Government will establish mechanisms for residents to participate in composting through community gardens or composting hubs, or by encouraging access to at-home composting infrastructure such as compost bins or worm farms. These interventions will be implemented as soon as practically possible and dependent on availability of funding. Food waste avoidance education should also be rolled out across the region.

Economic analysis to support this Plan has identified that the introduction of a new kerbside organics service is expected to result in extra cost for Councils. The estimated cost for Gladstone Regional Council and Rockhampton Regional Council for a new organics collection service including processing is estimated is **\$45 million** (present value) assuming a simple open-windrow technology can be deployed over a 30-year forecast period in each LGA. The estimated annualised cost increase compared to business as usual, allowing for increasing levy costs, would be an additional estimated **\$25 per household** per year (present value), assuming the residual bin collection is reduced to fortnightly where a kerbside organics collection is available. This includes:

- One-off-transition costs to purchase consumables and distribute to households including new bins, kitchen caddies, and compostable liners estimated at **\$1.5 million** for Gladstone Regional Council and **\$2.2 million** for Rockhampton Regional Council.
- An additional potential one-off cost of \$11-\$21 per bin may also be incurred to change current residual bin lids from green to the standardised red.
- Additional establishment education and ongoing organics diversion education costs just for FOGO implementation are included in the estimate at **\$0.14 million** for Gladstone and **\$0.21 million** in Rockhampton per year commencing 2-years before a new service commences.

Whilst nothing in this Plan precludes other Councils from introducing a kerbside FOGO collection and processing solution, under current policy settings, the comparable cost per household would be higher due to 100% of landfill levy paid being returned to council in annual advance payments, in addition to the lack of scale and large distances required to transport waste for processing. Similar proportional costs may be incurred by other Councils progressing organic waste diversion.

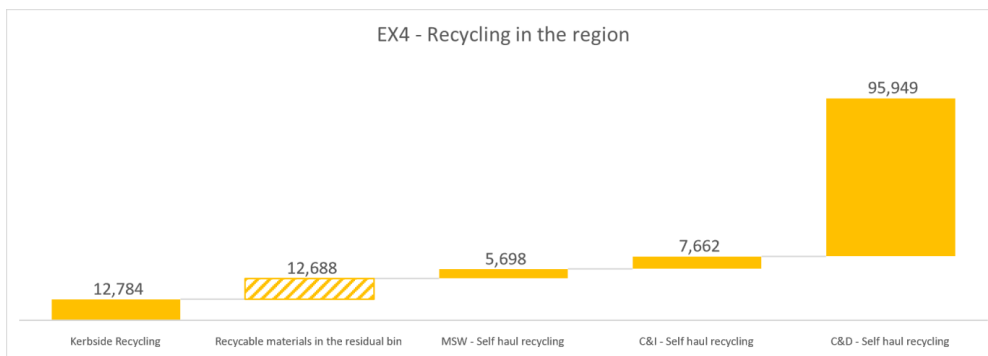
EXECUTIVE SUMMARY

Activities and actions are identified for Councils not introducing new kerbside services to support food waste avoidance, at-home, or community composting. These interventions are expected to be led by the Queensland Government.

It is estimated that the introduction of a FOGO collection service in both Gladstone and Rockhampton could capture an initial 13,000 tonnes of organic waste to be recycled. As a region this is forecast to result in a 4% increase in overall recovery rate for the region from a current 51% to 55% once the services commence. Between FY25-26 and FY30-31 this intervention is estimated to divert an estimated additional 65,000 tonnes of organic waste from landfill.

Improved material recovery and recycling

In FY20-21, 122,092 tonnes of material managed in the region was reported as recovered, of which the household kerbside collection of dry recyclables contributed 12,784 tonnes.



The bulk of reported recovered waste is from the C&D stream which has a recovery rate already of 77%. Contamination of the kerbside commingled bin in the region is around 20% but, in some cases, higher. It is estimated that approximately 12,688 tonnes of dry recyclable material is currently disposed of in the kerbside residual bin that could be captured.

Through focussed education campaigns as part of the regional education strategy it is expected that contamination will be reduced, and that there will be greater capture of recyclable material currently lost to landfill. Central Highlands Regional Council, Gladstone Regional Council, Livingstone Shire Council and Rockhampton Regional Council are currently collaborating on a new regional recycling processing solution. This may include the establishment of a new material recycling facility in the region.

There may be opportunities for the establishment of new recycling or reprocessing facilities in the region aligned with the Queensland Governments precinct approach, however this requires further refinement. Target reprocessors may access organic waste, C&D waste (masonry, aggregates, and concrete) and solar panel recycling to complement existing arrangements.

EXECUTIVE SUMMARY

To facilitate future precinct development and better diversion through resource recovery facilities, an allowance has also been made in the economic analysis for improvements to transfer facilities or existing landfill sites, additional operating costs, and transport to move recyclables from satellite sites to processing hubs. This may also include community recycling hubs or hazardous waste transfer facilities, and circular economy solutions such as fixing facilities.

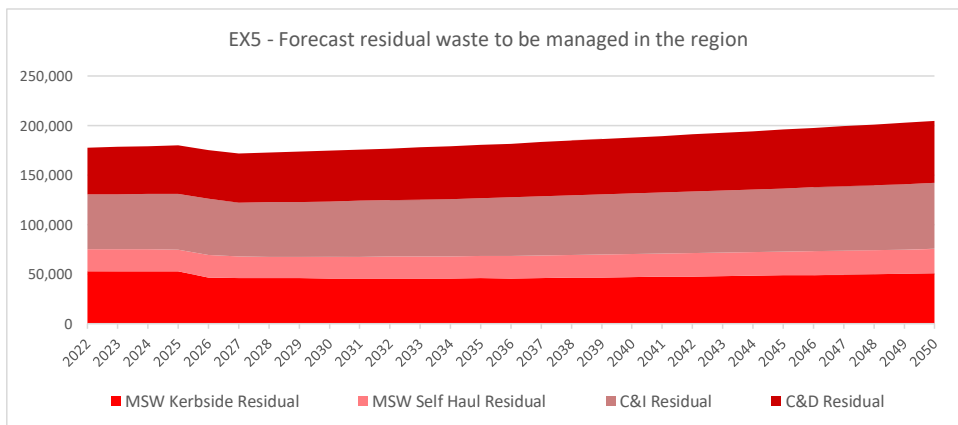
The estimated cost to implement the material recovery and recycling interventions is **\$44 million** (present value) equivalent to an annualised cost of approximately \$25 per household per year. This includes:

- Estimated capital expenditure of **\$18 million** for a new regional scale MRF, if identified as the preferred solution, and ongoing operational costs for the MRF over the 30-year lifetime.
- Small-scale infrastructure improvement indicative budget of **\$7.5 million** to allow for upgrades to existing facilities, or conversion of existing landfills to transfer facilities.
- The development and delivery of a regional education strategy that applies across all Councils to provide education priorities in collaboration with the Queensland Government, estimated to be **\$0.68 million** per annum commencing immediately

It is assumed that additional education costs are funded by the Queensland Government. These changes are focussed on improving the quality and quantity of material captured for recycling through enhanced education across the region. A separate education Plan will be developed by Woorabinda Aboriginal Shire Council specific to community needs.

Residual waste management in the long-term

In FY20-21, 159,613 tonnes of residual waste was managed, of which 56,392 tonnes was generated directly by households. With the interventions identified in this Plan, residual waste is expected to be 180,615 tonnes by FY30-31 growing to 193,074 tonnes by FY40-41 and 212,240 tonnes by FY50-51. For the household derived MSW stream only, Councils are forecast to need to manage 69,482 tonnes of residual waste in FY30-31, 72,740 tonnes in FY40-41 and 78,282 tonnes by FY50-51 (see **Figure EX5**).



EXECUTIVE SUMMARY

Some Councils are running out of approved and constructed landfill capacity. The cost of residual waste management in general is expected to increase as new landfill capacity is required, or alternative solutions procured. However, the immediate cost of landfilling is also increasing rapidly for Gladstone Regional Council and Rockhampton Regional Council due to changes in annual advanced payments. In the long-term the region will need to identify and Plan a residual waste solution that considers continuation of landfill through development of new capacity, or via sending some residual waste to energy or to fuel from waste facilities that could be developed in the region. All solutions will still require ongoing landfill capacity.

Aligned with Queensland's Waste Management and Resource Recovery Strategy, utilisation of energy from waste is the likely path to achieve the states resource recovery targets of 90% recovered by 2050. There is uncertainty over the costs. This is because an energy from waste solution is not currently available or proposed in the Central Queensland region, or Queensland at present. If a solution was available, the estimated cost per household of diverting residual waste to EfW is likely to be significantly greater than continued landfilling. An action in the Plan is to monitor the opportunity to develop an EfW facility of suitable scale for the region.

Other problematic streams identified in the residual waste stream include biosolids, timber and contaminated soils. Long term solutions for these streams that avoid the need for landfill will require further cross-regional collaboration and strategic transformation of regional waste management.

Expected recycling and resource recovery outcome of the Plan

To achieve an estimated regional resource recovery rate of approximately 56% resource recovery, which amounts to an overall improvement of 5% for the entire region and a 19% improvement in recovery rate on the kerbside MSW stream, the Councils, principally Gladstone Regional Council and Rockhampton Regional Council, would need to introduce an organics diversion service targeting FOGO. This should be coupled with improvements to the existing yellow top bin recycling services for all Councils through a combination of improved transfer facilities and education. Beyond this, significant improvements to the C&I stream are required, but only after data for non-council managed wastes are collected and assessed. A forward estimate on the potential benefit to resource recovery rates if energy from waste was available in the future could be between 72% (for produced engineered fuel/refused derived fuel) to 78% (thermal combustion) depending on technology selection.

Implementation

Cost to deliver the Plan

The estimated cost for implementation (excluding residual waste management) is **\$66 million** over this period as presented in **Table EX1**⁴.

⁴ Costs are estimated to a maximum of p50 accuracy where presented in this Plan

EXECUTIVE SUMMARY

Table EX1 Indicative Cost Estimate (costs in millions, p50 accuracy)

Item	2024	2025	2026	2027	2028	2029	2030	2031	Total to FY31
Regional Implementation									
Project Manager (RWG)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.44
Administrative & Legal	0.10	-	-	-	-	-	-	-	0.10
Develop detailed implementation Plan	0.05	-	-	-	-	-	-	-	0.05
Review RWWP	-	-	-	-	0.10	-	-	-	0.10
Meetings (Council FTE requirement)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.39
Council contribution to actions	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.22
Sub Total – Plan Implementation	0.43	0.25	0.25	0.25	0.35	0.25	0.25	0.25	2.30
Regional Education Strategy									
Education Strategy (and updates)	0.05	-	0.02	-	0.02	-	0.02	0.00	0.10
FOGO implementation, GRC/RRC only	Captured within organic implementation costs below								-
Kerbside Education & Other	Captured within material recycling & recovery costs below								-
Sub-Total – Regional Education	0.05	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.10
Regional Organics Solution									
<i>FOGO Implementation, GRC only</i>									
Administration, business cases, PM	0.20	0.20	0.08	0.08	0.08	0.08	0.08	0.08	0.85
FOGO education costs (new service GRC)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.08
One off investment (bins) (GRC)	-	-	1.43	-	-	-	-	-	1.43
Collection costs (new, GRC)	-	-	0.55	0.58	0.60	0.61	0.62	0.63	3.59
Processing costs (new, GRC)	-	-	0.64	0.65	0.67	0.69	0.70	0.72	4.08
Sub-Total – New FOGO Service, GRC	0.34	0.34	2.83	1.44	1.48	1.51	1.53	1.56	11.03
<i>FOGO Implementation, RRC only</i>									
Administration, business cases, PM	0.20	0.20	0.08	0.08	0.08	0.08	0.08	0.08	0.85
FOGO education costs (new service RRC)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.08
One off investment (bins) (RRC)	-	-	2.20	-	-	-	-	-	2.20
Collection costs (new, RRC)	-	-	0.91	0.93	0.95	0.97	0.99	1.00	5.75
Processing costs (new, RRC)	-	-	0.93	0.95	0.98	1.00	1.03	1.05	5.94
Sub-Total – New FOGO Service, RRC	0.46	0.46	4.38	2.22	2.26	2.31	2.35	2.39	16.82
<i>Organics Programs</i>									
Community composting	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.80
Roll out of compost bin program	-	0.21	-	-	-	-	-	0.21	0.43
Material flow analysis - organics	0.01	0.02	-	-	-	-	0.02	-	0.05
Sub-Total – Organics Programs	0.11	0.33	0.10	0.10	0.10	0.10	0.12	0.31	1.28
TOTAL (Regional Organics Solution)	0.91	1.13	7.30	3.76	3.84	3.91	4.01	4.26	29.13

EXECUTIVE SUMMARY

Item	2024	2025	2026	2027	2028	2029	2030	2031	Total to FY31
Material recovery & recycling solution									
Education Implementation (kerbside + other)	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	5.44
Education Plan (Woorabinda)	-	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.17
Small scale infrastructure improvements	-	1.25	1.25	1.25	1.25	1.25	1.25		7.50
Community circular economy programs	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.40
Household Hazardous Waste CRCs	-	-	0.20	0.20	0.20	0.20	0.20	-	1.00
New regional scale MRF	0.50	17.50	-	-	-	-	-	-	18.00
Waste audit program	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.64
TOTAL (MRR Solution)	1.31	12.11	9.78	2.28	2.28	2.28	2.28	0.83	33.15
Residual Waste									
Develop regional residual waste solution & business case	-	0.05	0.30	0.30	0.30	0.02	0.02	0.01	1.00
Progress & implement R&D into problematic wastes & disaster wastes	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.80
TOTAL (Residual Solution)	0.10	0.15	0.40	0.40	0.40	0.12	0.12	0.11	1.80
OVERALL TOTAL – IMPLEMENTATION COST FOR RWRMP TO FY30-31	2.79	13.64	17.75	6.70	6.89	6.57	6.67	5.46	66.47

All costs presented in Million \$ based at 2023 rates, BSC-Banana Shire Council, CHRC-Central Highlands Regional Council, GRC-Gladstone Regional Council, LSC-Livingstone Shire Council, RRC-Rockhampton Regional Council, WASC-Woorabinda Aboriginal Shire Council

Access to supporting resources and funding

There is a need for support around the development of business cases and forecasting suitable for approval by the Queensland Government, particularly for infrastructure such as new or improved transfer facilities, new collections, or processing infrastructure. Access to regional facilitation / coordination support resources is essential for Councils implementation of the Plan, as would funding support to develop supporting documentation for funding applications. Implementation at the regional scale will also require funding to coordinate and liaise with the Queensland Government, and advocate for better waste outcomes in the region.

Funding for capital expenditure such as an organic waste processing facility (or enhancements to existing privately owned facilities), small scale infrastructure improvements, or potentially an energy from waste facility may also be facilitated by the Queensland Government, pending specific business case development.

EXECUTIVE SUMMARY

Regional collaboration and responsibilities

To support delivery of this Plan, the region has utilised a collaborative approach to strategy development and implementation through a working group operated under the Central Queensland Regional Organisation of Councils. This group will continue to collaborate on Plan implementation, and seek to undertake regional procurement where beneficial, as well as collaborate on the implementation of education and awareness campaigns. This is a critical action required to be commenced immediately following finalisation of the Plan. The Queensland Government will fund a project or program manager to deliver the Plan. Depending on procurement and ownership decisions around certain infrastructure, there may be a need to establish additional governance structures.

Responsibility for decision making for the implementation of interventions under this Plan will sit with individual councils facilitated by the WRRWG. The WRRWG will coordinate funding requests required to the Queensland Government for approval under the following proposed structure:

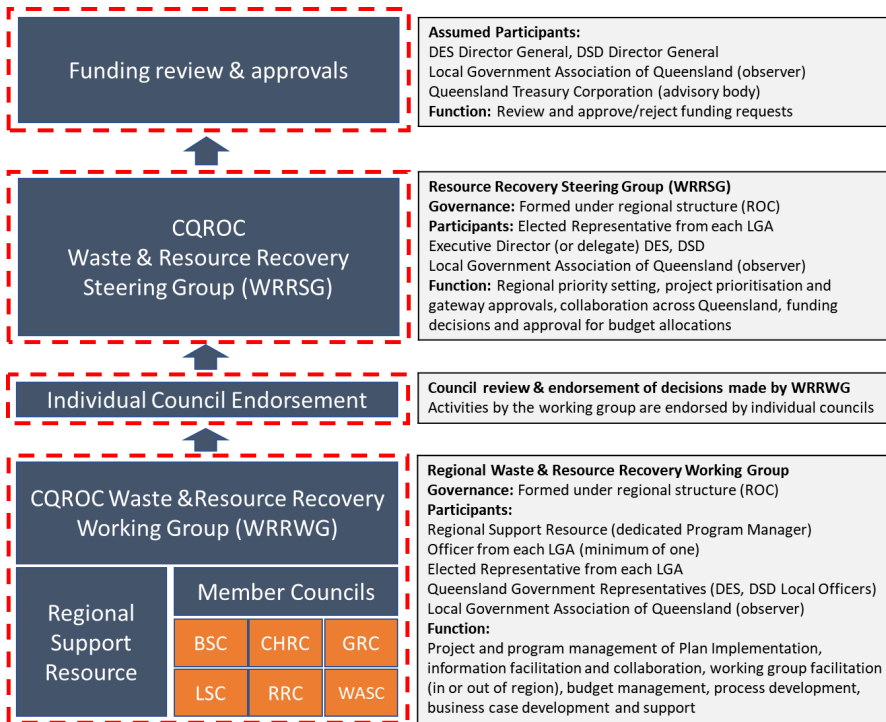


Figure EX6 – Regional governance structure

EXECUTIVE SUMMARY

Review and monitoring

Implementation of the Plan will be the responsibility of the regional steering group through the regional facilitation / coordination support assistance. Initial actions will be measured against progress, but longer-term review should be against metrics including delivery of specific services identified in the Plan and achieving levels of education, capture of types of waste (e.g., FOGO, GO, dry recyclables) and resultant change to recovery rates compared to forecast. The Plan will be scheduled for review and update every 5-years.

Implementation roadmap

An implementation roadmap has been developed identifying timing and activities to deliver this Plan, as show in **Table EX2**.

While the Regional Waste and Resource Recovery Management Plan provides the primary vehicle for accessing available funding from the Recycling and Jobs Fund, there may also be opportunities for initiatives to be funded that are outside the Plan. For example, a pilot at a local level to 'test' the suitability of a model or infrastructure for the region (or sub-region). It is recognised that the Plan needs to be a living document and that not all potential initiatives will have been identified in the Plan.

However, it is expected that the bulk of the funding will come through the projects identified in the Plan with a more streamlined pathway for funding approvals as it has already been identified in the Plan. In the first instance any projects identified that are outside the Plan would likely be discussed with the regional working and steering groups and the proposed regional support resource position that will be funded to support implementation of the Plan, to assess suitability for funding under the Plan or whether this would be considered under a separate funding process.

Councils, in participating in the development of this Plan and subsequent endorsement of or support for its finalisation and publication, can do so in the knowledge that this consideration does not obligate individual Councils to any funding commitment. Subsequent business cases developed as part of implementing the Plan and implementation decisions made by the region for implementing the Plan would normally include that detail.

EXECUTIVE SUMMARY

Table EX2 Implementation Roadmap

Action	Responsibility	Immediate	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2040	2050
		Next 2 years		Within next 5 years					Within next 10 years					To 2040
General														
Formalise regional waste working group to implement Plan	WRRSG, All													
Program management	WRRSG, WRRWG													
Regional collaboration (e.g., WRRWG meetings, action management, etc.)	WRRSG, WRRWG, All													
Organic Waste Management														
Participate in Education and Behaviour Change Initiative (assumed continuation) as part of regional education strategy – incorporating a food waste avoidance component	WRRWG, All													
Review potential for behaviour change regulation (new services)	GRC, RRC													
Roll out of at-home composting solutions (where appropriate)	QGOV, ALL													
Develop detailed business case for organics collection service for council approval including market development	GRC, RRC													
Commence new organic waste collection service education	GRC, RRC													
Procurement of organic waste collection solution	GRC, RRC													
Procurement of organic waste processing solution	GRC, RRC													
Commence and operate kerbside organic waste collection service (pending individual council approval)	GRC, RRC													
Continuation of self-haul green waste receipt and processing	All													
Roll out of community composting solutions including guidance (where appropriate)	QGOV													
Develop regional solution for biosolids and timber	WRRWG													
Develop pathway to improve non-Council held data collection	QGOV, All													
Material Recycling & Recovery														
Develop Regional Education Strategy & Implement	WRRSG, WRRWG, All													
Participate in Education and Behaviour Change Initiative (assumed continuation)	WRRSG, WRRWG, All													
Develop Council specific Education Plan for Woorabinda Aboriginal Shire Council and implement	QGOV, WASC													
Review & agree pathway for improved enforcement activity for poor household behaviours in kerbside bin service provision, and implement	WRRSG, WRRWG, CHRC, GRC, LSC, RRC													
Collaborate on regional kerbside recycling processing solution	WRRSG, WRRWG CHRC, GRC, LSC, RRC													
Seek opportunities to collaborate on regional kerbside recycling collections approach when contracts allow	WRRSG, WRRWG, All													
Develop business case, designs for new or improved transfer facilities	All (as required)													
Construct and commission upgrades or new transfer facilities	All (as required)													
Collaborate and refine need for establishment of regional scale precinct and ancillary satellite sites in accordance with precinct guidelines	QGOV, WRRSG, WRRWG,													

EXECUTIVE SUMMARY

Action	Responsibility	Immediate	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2040	2050
		Next 2 years		Within next 5 years			Within next 10 years					To 2040	To 2050	
Construct enabling infrastructure for precinct	QGOV													
Establish new resource recovery processing facilities within precinct	GGOV													
Work with Queensland Government agencies to improve uptake or recycled materials in procurement	QGOC, WRRWG													
Develop pathway to improve material flow data and knowledge across region for recyclable material	QGOV, WRRSG, All													
Collaborate to collect data on contamination within kerbside bins to improve education approach.	QGOV, WRRSG, WRRWG, All													
Residual Waste Management														
Councils to consider individual landfill capacity needs in short-medium and long-term	All													
Consider long-term options and approach to managing residual waste in the long-term, pending availability of facilities out of region	SG, WRRWG, All													
Design, construct & commission long-term residual waste solution (or enter into long-term supply agreements with privately owned facilities)	SG, WRRWG, All, QGOV													
Develop long-term approach to managing problem and emerging wastes	All													

Notes: BSC-Banana Shire Council, CHRC-Central Highlands Regional Council, GRC-Gladstone Regional Council, LSC-Livingstone Shire Council, RRC-Rockhampton Regional Council, WASC-Woorabinda Aboriginal Shire Council, QGOV-Queensland Government, All-All councils, WRRWG-Regional Waste and Resource Recovery Working group, WRRSG-Regional Resource Recovery Steering Group

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10.4 PROJECT DELIVERY CAPITAL PROJECT REPORT - MAY 2023

File No: 7028
Attachments: 1. **Project Delivery Monthly Dashboard Report May 2023**[↓](#)
Authorising Officer: Peter Kofod - General Manager Regional Services
Author: Andrew Collins - Manager Project Delivery

SUMMARY

Monthly Status Report on all projects currently managed by the Project Delivery Unit

OFFICER'S RECOMMENDATION

THAT the Project Delivery Monthly Report for May 2023 be received.

COMMENTARY

The Project Delivery section submits a monthly project report outlining the status of capital projects managed by the Unit.

The following projects are reported on for the month of May 2023.

- Alliance Maintenance Facility
- Botanic Gardens & Zoo Redevelopment
- Botanic Gardens Carpark
- SES Gracemere Carpark
- Athelstane Reservoir Roof Replacement
- Glenmore Water Treatment Plant Upgrade
- Glenmore Water Treatment Plant Solar Farm
- Gracemere & South Rockhampton STP Strategy
- Mount Morgan Pool
- North Rockhampton Sewage Treatment Plant Upgrade
- Mount Morgan Water Treatment Plant
- Mount Morgan Water Supply Pipeline Project

PROJECT DELIVERY CAPITAL PROJECT REPORT - MAY 2023

Project Delivery Monthly Dashboard Report May 2023

Meeting Date: 6 June 2023

Attachment No: 1

Regional Services – Project Delivery

Monthly Dashboard Update

Reporting Period: May 2023



Scope

Deliver the annual capital works program, achieving a capital program within 95% of the budget.

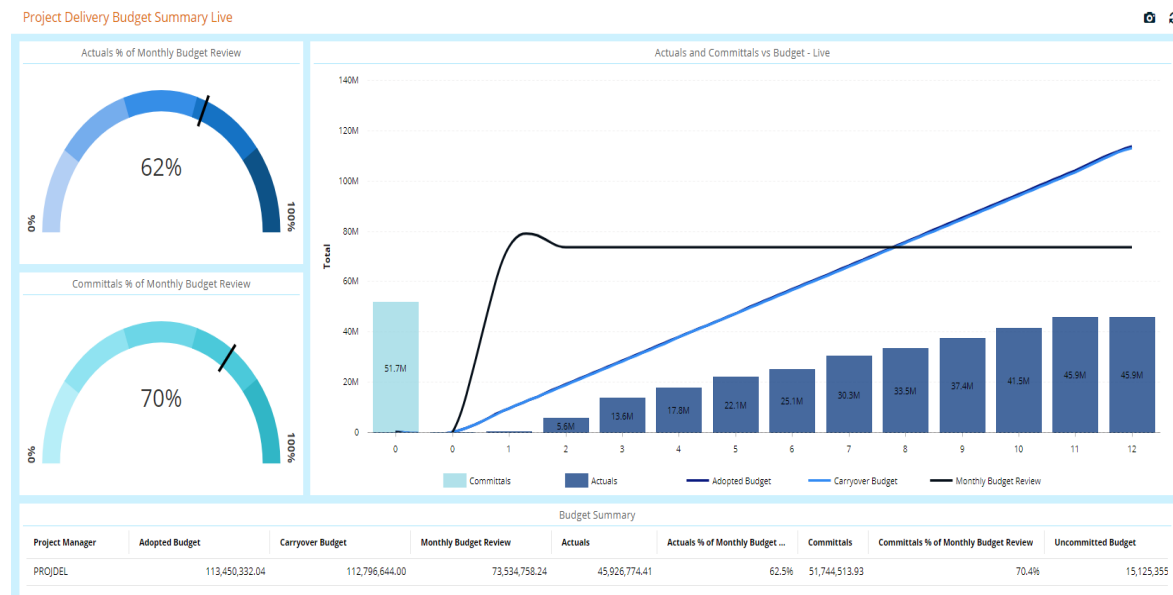
Ensure the delivery of infrastructure projects meet objectives set out in the 2022/23 Operational Plan.

BUDGET \$73,534,758.

Traffic Light Reporting

Item	Last Month	This Month	Comments
Scope	G	G	
Budget	A	A	Budget for MMWPP being assessed against tender offers
Schedule	R	R	Zoo visitor hub. Re-tender for stage 1 Visitor Hub MMWPP – Assessing time impacts of tender offers. GWTP- Issues with diffusers installed.

2022/23FY R1 Summary



Status Overview

Key Milestones & Deliverables This Month (May)

- **Mt Morgan Pool**
D&C Design development
- **Mt Morgan Water Supply Project**
Pipe deliveries/ WTP commissioned
- **North Rockhampton Sewage Treatment Plant**
Concrete structures nearing completion
- **GWTP Upgrade**
Filter reconstruction continue
- **Botanic Gardens & Zoo Redevelopment**
Visitor hup tender process
- **GWTP / Solar**
Site works to commence
- **GSTP**
Electrical services
- **Alliance Maintenance Facility**
Power connection infrastructure.

Three Month Horizon

June	July	August
<ul style="list-style-type: none"> • Mt Morgan Water Supply Tender / budget assessments • North Rockhampton Sewage Treatment Plant Walkway and mechanical install • Botanic Gardens & Zoo Redevelopment Eagle enclosure completion • GSTP Aerator/diffuser install • Mt Morgan Pool Site works commenced • GWTP / Solar Work underway • Athelstane Reservoir Roof Replacement Pre-start meeting planned. 	<ul style="list-style-type: none"> • North Rockhampton Sewage Treatment Plant Mechanical / electrical installation • Mt Morgan Pool Construction continues • GWTP / Solar Site installation works continue • Alliance Maintenance Facility Official Opening. 	<ul style="list-style-type: none"> • North Rockhampton Sewage Treatment Plant Mechanical / electrical installation • Mt Morgan Pool Construction continues • GWTP Upgrade Filter reconstruction continue • GWTP / Solar Site works continue.

Regional Services – Project Delivery

Monthly Dashboard Update

Reporting Period: May 2023



Project Name	Current Status	Monthly Update			
		Scope	Budget	Schedule	
Alliance Maintenance Facility	Construction	G	G	A	Mains power connection to the new Hangar building has been completed. Project complete.
Botanic Gardens & Zoo Redevelopment	Procurement / Construction	G	G	R	<p>Project 1 - Visitor Hub Construction: Project and design documentation staging has been completed. (Stage 1: Visitor Hub, Stage 2: Animal Operations Centre). A revised tender package for stage 1 was released to market and closed on the 10th May 2023. The Project is currently under evaluation as significantly high tender prices were received from market.</p> <p>Enclosure renewal as follows</p> <p>Project 1 - Gibbon Enclosure Renewal was completed in September 2022.</p> <p>Project 2 - Design and Construct of New Eagle enclosure was scheduled to be completed May 2023, Due to supply delays of the structural steel the project now is forecasted to be completed 30 June.</p> <p>Project 3 - Concept design for Lemur enclosure is currently being finalised, the scoping document and plans will be provided shortly to a quantity surveyor to quantify project budget for capital budget forward planning.</p> <p>Project 4 - Marmoset Enclosure Preliminary Evaluation has been completed and a budget has been submitted for consideration for 23/24 capital budget.</p>
Botanic Gardens Carpark	Construction	G	G	G	The Carpark Civil works is completed. Landscaping to Carpark area to be completed by Botanic Gardens Parks staff and will be finished by 30 June 2023. The Carpark is open for use.
Gracemere SES Carpark	Construction	G	G	A	Construction started on 26 th of April and scheduled to be completed by 15 th June. Unsuitable ground conditions have been encountered during the works. These have been appropriately dealt with as a variation to the contract.

Regional Services – Project Delivery

Monthly Dashboard Update

Reporting Period: May 2023



Project Name	Current Status	Monthly Update			
		Scope	Budget	Schedule	
Athelstane Reservoir Roof Replacement	Procurement	G	G	A	<p>Following are the activities recently undertaken on the project:</p> <ul style="list-style-type: none"> Tender package - Athelstane roof replacement was released to market on the 17 February 2023, the tender closed on 12th April 2023, significant departures were received in the tender submission. Negotiations to tender conditions have been finalised, Contract was awarded on 24 May 2023.
Glenmore Water Treatment Plant Upgrade	Design & Construction	G	G	R	<p>Following are the activities recently undertaken on the project:</p> <ul style="list-style-type: none"> Filter No.9 – Garnet and sand layers installation and testing completed. Coal layer installation has commenced. Contractor is working to correct fabrication production fault in weld. Existing dosing system removed. New main switch room construction almost complete [in old dosing area] Telemetry room electrical fit-out complete Control Room refurbishment complete. Commenced moving furniture back into room. Installation of laboratory cabinetry commenced 22 May 23. Stainless steel benchtops installation scheduled for end of May 23 Stage 2 upgrade for the Design and Construction of Lamella Plates in Sedimentation Tanks, Sludge Removal System and UV Design under review.
Glenmore Water Treatment Solar Farm	Design & Construction	G	G	G	<p>Following are the activities recently undertaken on the project:</p> <ul style="list-style-type: none"> Tracking system equipment has been secured and delivered to site. Tender has closed, been adjudicated and awarded to GEM solar. Work to commence on site April. GEM solar are finalising detail design and Started procurement of long lead items. HV Kiosk and solar panels. GEM Liaison with Ergon energy for connection to grid HAZOP meeting completed in early April Survey has commenced onsite Have been notified of delay in procurement of HV Kiosk. Possibly to 27 February 2024 Site Mobilisation has occurred. Pile boring has commenced, although rock has been encountered on majority of holes. Special rock drilling has been mobilised and has commenced drilling these affected pile holes, drilling expected to be completed by 13 June.

Regional Services – Project Delivery

Monthly Dashboard Update

Reporting Period: May 2023



Project Name	Current Status	Monthly Update			
		Scope	Budget	Schedule	
Gracemere & South Rockhampton STP Strategy	Strategic Assessment	G	G	G	<p>Current work relates to developing and implementation of stages to be able to realise the strategic plan. A consultant has been engaged to develop the design strategy for both Gracemere and South Rocky STPs.</p> <ol style="list-style-type: none"> 1. Installation of Penstocks in bioreactors at SRSTP has been completed. 2. New Caustic soda dosing system at SRSTP completed, now combining with Sugar dosing, design being developed. 3. Installation of recycled water PS at SRSTP underway. Pump station structure installation and cut in now completed. Electrical works to be finalised. 4. New Wet well for Sludge Pump Station (Planning works undertaken, H2o have carried out site inspection) 5. Defective diffusers now replaced. 6. Condition assessments & upgrade of sludge digesters (investigation work underway H2o have carried out site inspection) 7. Upgrade of Sludge Lagoons both at SR & G STPS (Gracemere works complete / NRSTP underway 30% scope increased / SRSTP underway 80%). Geobags at NRSTP are being processed (emptied) 8. Sewer diversion; Gracemere to South Rockhampton STP (Geotech complete at GSTP, pipeline prelim design completed. PS design prestart / design commenced.) 9. Variation order issued to Haslin for new aerator install at GSTP. Work commenced, blower slab completed, and blower installed. On site electrical installations underway.
Mount Morgan Pool	Construction	G	G	G	<p>Following are the major activities recently undertaken on the project:</p> <ul style="list-style-type: none"> • 50% Design review workshop held 11 May 2023 • Final Design Workshop scheduled for 1 Jun 2023 • Contractor establishing to site June 2023 • Demolition commencing following establishment
North Rockhampton Sewage Treatment Plant Upgrade	Construction	G	G	G	<p>Following are the major activities recently undertaken on the project:</p> <ul style="list-style-type: none"> • Pre hydrostatic testing, preparation of the structures, caulking / sealing underway. • Grit classifier steel platform structure to inlet works erected. • Various penstocks installed. • Cable trays being installed to perimeter walls. • Clarifier column installed • Mixed liquor lines installation continues • Electrical pit and duct being installed. • Slab for RAS & WAS pumps constructed • All Blowers now positioned on deck.

Regional Services – Project Delivery

Monthly Dashboard Update

Reporting Period: May 2023



Project Name	Current Status	Monthly Update			
		Scope	Budget	Schedule	
Mount Morgan Water Treatment Plant	Construction	G	G	G	<p>Following are the major activities recently undertaken on the project:</p> <ul style="list-style-type: none"> The Contractor removed all the corroded structural supports and PVC pipes, grit blasted and painted the Clarifier and Filters. New structural supports installed Installation of laterals in the filter completed. Lamella tubes and filter media ordered and delivered New backwash pump ordered and installed. Tested and commissioning by FRW. Filter media installation and disinfection completed. Lamella tubes installed. Contractor to finalise the alignment of the lamella tubes and add more joiners. Pre-commissioning activities by FRW in progress. Process commissioning planned to commence on 5th June 2023.
Mount Morgan Water Pipeline Project	Construction	G	A	A	<p>Following are the major activities recently undertaken on the project:</p> <ul style="list-style-type: none"> Contract awarded and first order placed for the Supply & Delivery of Pipes, Fittings & Valves for Mt Morgan Supply Trunk Mains. Tender package 15274 Design and Construction of Three Water Pump Stations for the Mount Morgan Water Supply Project was released to market on the 21 October 2022, site inspection completed. Tender closed on 25 January 2023. Evaluation now in progress. Design development completed. Agreement negotiated and finalized with Ed QLD for land lease / Order placed for fencing of the project laydown area at Lucas Street. Cultural Heritage Assessments to undertaken from 27th March 2023 to 31st March 2023. First order for the Supply & Delivery of Pipes, Fittings & Valves for Mt Morgan Supply Trunk Mains delivered to the project laydown area at Lucas Street by 5 April 19, 2023. Applications for statutory approvals in progress.

Legend

G No change from previous month

A Minor Impact/change from previous month

R Major change/ongoing Impact from previous months

10.5 CIVIL OPERATIONS STATUS REPORT - APRIL 2023

File No: 7028
Attachments: 1. [Civil Operations Monthly Report - April 2023](#)
Authorising Officer: Peter Kofod - General Manager Regional Services
Author: John Gwydir - Manager Civil Operations

SUMMARY

Monthly status report on all activities currently managed by the Civil Operations section.

OFFICER'S RECOMMENDATION

THAT the Civil Operations Monthly Report for April 2023 be received.

COMMENTARY

The Civil Operations section submits a monthly project report outlining the status of capital and maintenance managed by the Unit. The report also provides information relating to customer service and corridor management activities.

CIVIL OPERATIONS STATUS REPORT - APRIL 2023

Civil Operations Monthly Report – April 2023

Meeting Date: 6 June 2023

Attachment No: 1

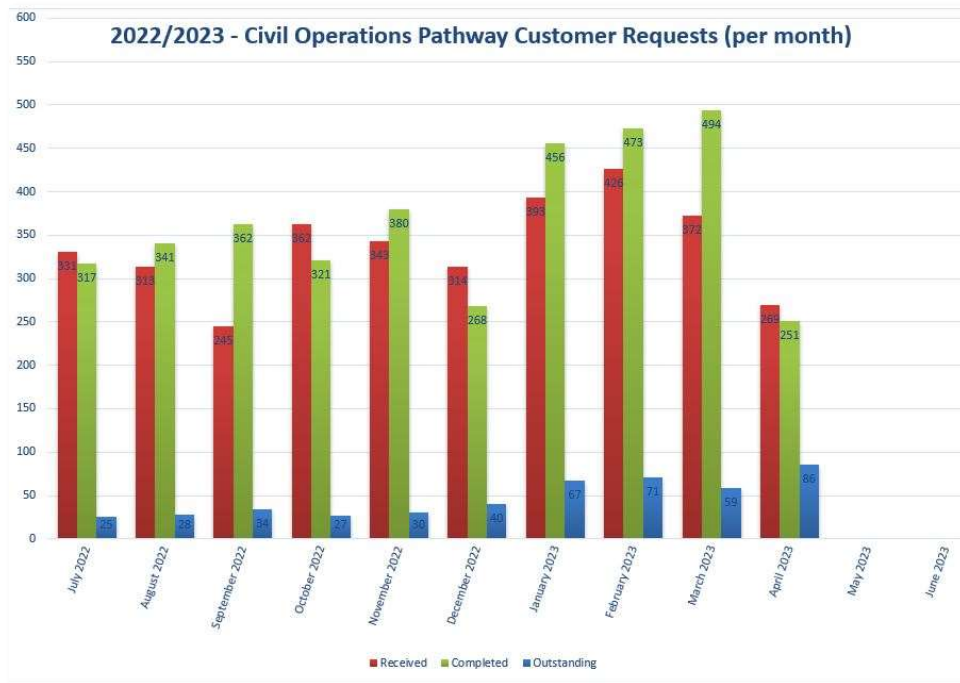
CIVIL OPERATIONS

Monthly Report – April 2023

ROAD CORRIDOR MANAGEMENT

CUSTOMER REQUESTS

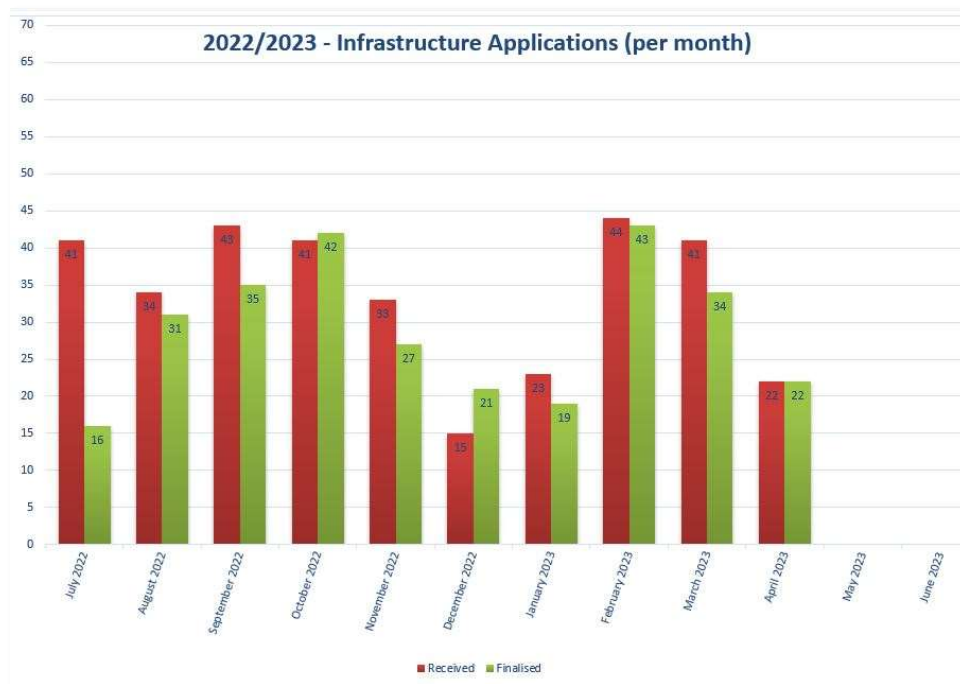
Received – April 2023 269	Total Received YTD 3,368	Total Received Last YTD 3,545
Completed – April 2023 251	Total Completed YTD 3,663	Total Completed Last YTD 4,082



As can be seen by the above graph, there is an increasing trend of open/unresolved Customer Requests within Civil Operations. A large proportion of these requests relate to ongoing issues such as abandoned vehicles, street lighting requests and bus stop queries that involve liaising with other agencies and remain open for extended periods of time.

APPLICATIONS

Received – April 2023 22	Total Received YTD 337	Total Received Last YTD 314
Finalised – April 2023 22	Total Finalised YTD 290	Total Finalised Last YTD 133

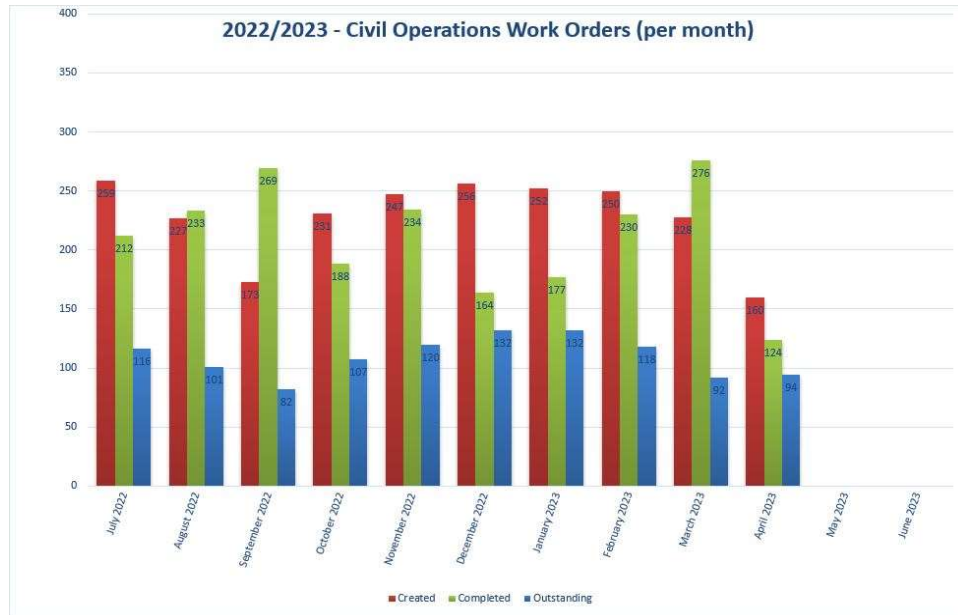


NATIONAL HEAVY VEHICLE REGISTER (NHVR)

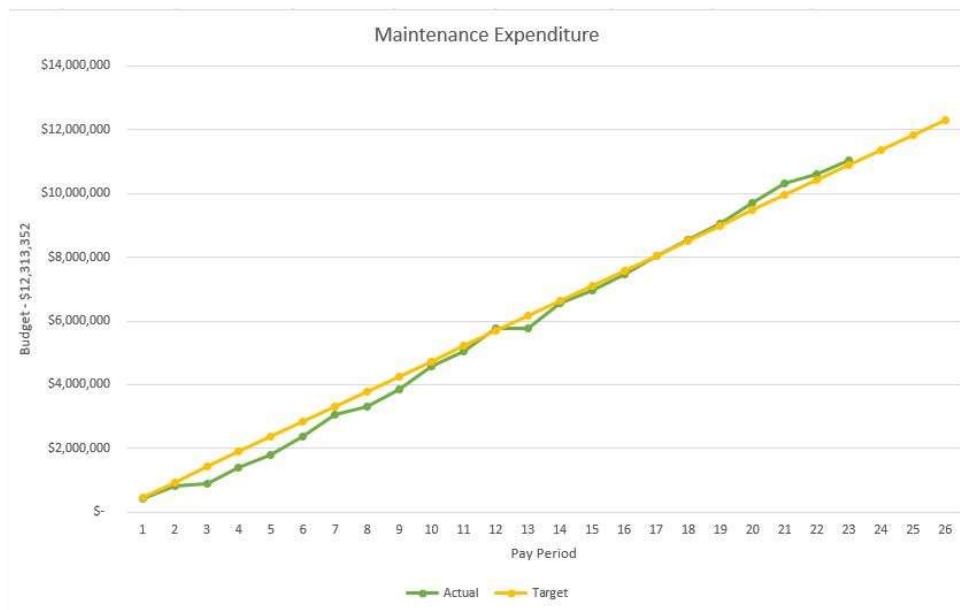
Received – April 2023 71	Total Received YTD 664	Total Received Last YTD 682
Completed – April 2023 63	Total Completed YTD 665	Total Completed Last YTD 682

MAINTENANCE

WORK ORDERS		
Created – April 2023 160	Total Created YTD 2,283	Total Created Last YTD 2,141
Completed – April 2023 124	Total Completed YTD 2,107	Total Completed Last YTD 1,993



BUDGET SUMMARY - MAINTENANCE



UNSEALED ROAD NETWORK

During the months of April and May 2023, 184.6kms of roads were graded and a further 31.2kms were gravel re-sheeted with approximately 100mm of gravel to improve wet weather trafficability.

Road Name	Area	Length of Grading	Length of Re-sheet	Comments
Scott Road	Alton Downs		1.46kms	
McKenzie Road	Alton Downs	2.0 km	0.4kms	
Spragg Road	Alton Downs	0.7km		
Greenup Road	Alton Downs	0.8km		
Harmsworth Road	Alton Downs	0.8km	0.12kms	
South Yaamba Road	Alton Downs	20km	2.0kms	In Progress
Murphy Road	Kabra	3.5km		
Kabrlea Road	Kabra	1.6km		
River Road	Port Curtis	16.8km	4.9kms	In Progress

Road Name	Area	Length of Grading	Length of Re-sheet	Comments
Hunter Gully Road	Morinish			
Mornish Road	Morinish	7.0kms		
Frankish Road	Morinish	3.2kms		
Faraday Road	Dalma Ridgeland	3.0kms		
Andy Road	Dalma Ridgeland	0.8kms		
Moses Road	Dalma Ridgeland	7.96kms		In Progress
Boulder Creek Road	Mt Morgan	14.7kms	1.5kms	
Mt Morgan Streets	Mt Morgan	6.0kms		
Fire Trails	Mt Morgan			
Grant Street	Mt Morgan	0.2kms		
Radloff Street	Mt Morgan	0.6kms		
Coles Avenue	Mt Morgan	0.7kms		
Cooks Roa	Hamilton Creek	0.6kms	0.4kms	
Wyvills Roa	Mt Morgan	0.58kms	0.4kms	
Leydens Hill Road	Struck Oil	1.8kms		In Progress
Rookwood Road	Gogango	19.0kms	2.75kms	In Progress
Hopper Road	Malchi Nine	4.32kms		In Progress
Rosewood Road	Wycarbah	18.0kms	0.5kms	
Hunt Road	Bouldercombe	2.3kms		
J Pierce Road	Bouldercombe	1.7kms		
Sugarloaf Road	Westwood	7.86kms	3.0kms	
Enfield Road	Westwood	5.3kms	0.78kms	
River Road	Port Curtis		0.3kms	Patches
Tipson Lane	Midgee	2.0kms	0.5kms	
Tindall Road	Gracemere	1.27kms		
Allen Road	Gracemere	1.2kms	2kms	
Sullivan Road	Gracemere		2kms	
Halfpenny Road	Gracemere	2.0kms		
Goodwin Road	Gracemere	2.85kms		
Ashford Road	Gracemere	0.7kms		
Cavell Road	Gracemere	1.68kms		
Woodford Road	Alton Downs	1.5kms	2.0kms	
Cranston Road	Alton Downs	1.6kms		
Glenroy Road	Morinish	18.0kms	6.2kms	

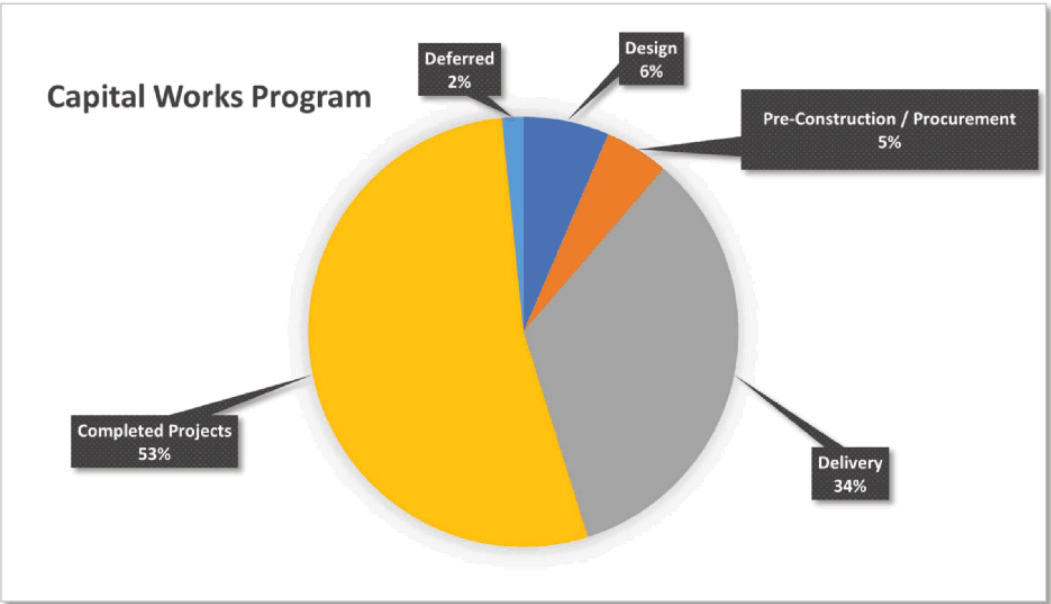
Roads Programmed During June 2023
<ul style="list-style-type: none">• Comanche Road• Moses Road• Faraday Road• Weale Creek Road• Rosewood Road• South Yaamba Road• Leydens Hill Road• Archer Road• Struck Oil Road• Mountain Hideaway Road



CIVIL OPERATIONS – CAPITAL WORKS PROGRAM

CAPITAL WORKS PROGRAM 2022-2023

Summary (by project status)



Design			
			Comment
Floodway - Well Station Creek Road, Wycarbah			
Reconstruction - Wade Street, Parkhurst (Alexandra Street to McLaughlin Street) (HVSPP Funding)			
Stormwater - Archer Street, Rockhampton – Drainage Scheme - Stage 1 (PACP Funding)			
Stormwater - Archer Street, Rockhampton – Drainage Scheme - Stage 2 (PACP Funding)			
Pre-Construction / Procurement			
	Estimated Start Date		Comment
Reconstruction - Caribea Estate - Drainage - Stage 3 (Inlets)	July 2023		Contract awarded
Stormwater - North Rockhampton Flood Barrier	June 2023		
Stormwater - Quay Street / Wood Street, Depot Hill - 1500mm Fibre Pipe Replacement	May 2023		Contract awarded
Delivery			
	Actual Start Date	Estimated Completion Date	Comment
Annual Reseal Program	December 2022	June 2023	In progress
Bridge Rehabilitation Program – Scrubby Creek Bridge – Old Capricorn Highway, Fairy Bower	August 2023	November 2023	Culverts ordered
Bus Shelter Program (BSSP Funding)	October 2022	June 2023	
Bus Stop Program (PTAIP Funding)	October 2022	June 2023	
Floodway - Candlelight Road, Kalapa		June 2023	

Delivery			
	Actual Start Date	Estimated Completion Date	Comment
Footpath – Lower Dawson Road, Allenstown (Port Curtis Road to No. 283 Lower Dawson Road)	January 2023	June 2023	
Footpath – Lower Dawson Road, Allenstown (No. 311 Lower Dawson Road to Jellicoe Street)	November 2022	June 2023	
Footpath Reconstruction Program	January 2023	June 2023	
Kerb and Channel - Eton Street, Rockhampton (Denham Street Extended to southern end)	June 2023	August 2023	
New Construction - River Rose Drive, Norman Gardens (LRCl Funding)	December 2022	August 2023	
Reconstruction - Campbell Street, Rockhampton (Cambridge Street to Albert Street) (LRCl Funding)	January 2023	August 2023	
Reconstruction – Darcy Street, Mt Morgan (Highway to Black Street)		June 2023	
Reconstruction - Farm Street / Alexandra Street, Kawana (Maloney Street, Hinchliffe Street, Hollingsworth Street) – Intersection Upgrade (TIDS Funding)	September 2022	July 2023	
Reconstruction - Glenroy Road, Morinish (Ridgeland Road to Glenroy-Marlborough Road)	June 2023	July 2023	
Reconstruction – Hanrahan Crossing - Floodway	May 2023	September 2023	
Reconstruction - Malchi-Nine Mile Road, Nine Mile	May 2023	June 2023	
Reconstruction - North Street, Rockhampton (East Street Extended to end)	June 2023	June 2023	
Reconstruction - Stanley Street / East Street, Rockhampton - Intersection Upgrade (Blackspot Funding)	March 2023	July 2023	
Reconstruction - Stanwell-Waroula Road, Stanwell	June 2023	June 2023	
Stormwater - Limestone Creek Diversion - Open Channel	October 2022	July 2023	

Delivery			
	Actual Start Date	Estimated Completion Date	Comment
Unsealed Road Gravel Program	July 2022	June 2023	
Completed Projects			
Floodway - Beak Road, Bajool			
Floodway - Mt Hopeful Road, Bajool			
Floodway - Rosewood Road, Morinish			
Floodway - Ulam Connection Road, Bajool			
Footpath - Hinchliff Street, Kawana (Munro Street to Farm Street)			
Footpath - Jessie Street, Rockhampton (Ward Street Intersection)			
Footpath - Lower Dawson Road, Allentown (Palmer Street to Ferguson Street)			
Footpath - Yaamba Road, Norman Gardens (Yaamba Road Overpass to Moores Creek Road)			
Guardrail Renewal Program			
Kerb and Channel - Bernard Street, Berserker (Queen Elizabeth Drive to Linette Street)			
Kerb and Channel - Gordon Street, Mt Morgan (Central Street to East Street)			
Kerb and Channel - Meter Street, Rockhampton - Kerb and Carparking			
New Construction – Edward Street, Mt Morgan - WTP Turnaround			
New Construction – Various Carparks			
Reconstruction - Glenmore Road, Park Avenue (Haynes St to Kluver Street)			
Reconstruction - Main Street, Park Avenue (Twigg Street to Yaamba Road)			

Completed Projects

- Reconstruction - Robinson Street, Frenchville (Digger Lane to Dean Street)
- Reconstruction - South Ulam Road, Bajool - Stage 2 - Ch 14.55 - 15.5 kms
- Reconstruction - Thirsty Creek Road, Gogango - Ch 13.0 to 13.2 - 10 kms
- Reconstruction - Upper Dawson Road, Allensdown (Caroline Street Intersection) (Blackspot Funding)
- Reconstruction - Upper Dawson Road, Allensdown (Margaret Street to Caroline Street)
- Reconstruction - Victoria Parade, Rockhampton (North Street to Quest Apartments)
- Reseal - Archer Road, Mt Morgan (Struck Oil Road to Limestone Road)
- Reseal - Bobs Creek Road, Bajool - Ch 2.36 - 3.44 kms
- Reseal - Mogilno Road, Midgee - Ch 0.0 to 5.5 - 1km
- Road Safety Minor Works Program
- Stormwater - Dale Park - Sediment Basin (Landfill)
- Stormwater - Lakes Creek Road, Berserker (Musgrave Street to Ellis Street)
- Stormwater - Mt Morgan - Fencing Drains
- Stormwater - Replace Stormwater Inlets
- Stormwater - Quay Lane, Rockhampton (North Street to Albert Street)
- Streetlighting Improvement Program
- Streetscaping – William Street, Rockhampton

Deferred Projects

- Reconstruction - Canning Street, Rockhampton (Cambridge Street to North Street) – pursuing options for external funding

MAJOR PROJECT/S UPDATE						
Farm Street / Alexandra Street Intersection Upgrade						
Scope	The works to be undertaken to upgrade the intersection of Alexandra Street and Farm Street, Kawana include the installation of underground stormwater drainage, new kerb and channel and subsoil drainage, construction of new footpaths and reconstruction of existing pavements, provision of new travel lanes and an upgrade of the streetlighting. This project is joint funded through the State Government TIDS program.					
Original Budget	\$3.9M	Revised Budget	\$4.9M	Last Month		This Month
On the Horizon – Key Milestones & Deliverables						
May	<ul style="list-style-type: none"> Complete stormwater drainage in Alexandra St (north of Farm St) 		June	<ul style="list-style-type: none"> Asphalt and linemarking in Alexandra St Reopen intersection with minor works remaining on the footpaths 		July
Comments	The original budget of \$3.9M was a combination of several different line items in the 2022-2023 budget. The increase of costs has largely been as a result of an increase in scope (additional pavement replacement) and cost increases of service relocations (Telstra, Ergon, sewer etc) and additional protection works on the Prescare corner.					



Limestone Creek Diversion							
Scope	The works to be undertaken will include the construction of one box culvert under Norman Road and another under McMillan Avenue as well as the excavation of a large open drain which will allow stormwater to flow through into Limestone Creek. This work will help to alleviate problems with flooding downstream as well as making it significantly easier for future development to the east and north. This project has been fully externally funded.						
Original Budget	\$2.9M	Revised Budget	\$3.8M	Last Month		This Month	
On the Horizon – Key Milestones & Deliverables							
May	<ul style="list-style-type: none"> Completed open drain works Completed installation of Norman Rd culverts 		June	<ul style="list-style-type: none"> Backfilling Norman Rd Culvert Shotcrete to McMillan Road Culvert. Upgrade stormwater inlet at end of Bean Ave 		July	<ul style="list-style-type: none"> Reopen Norman Rd and McMillan Ave
Comments	Works have generally progressed well on site with the variations to costs largely attributed to unforeseen issues such as rock excavation and removal and disposal of historically illegally dumped asbestos materials.						



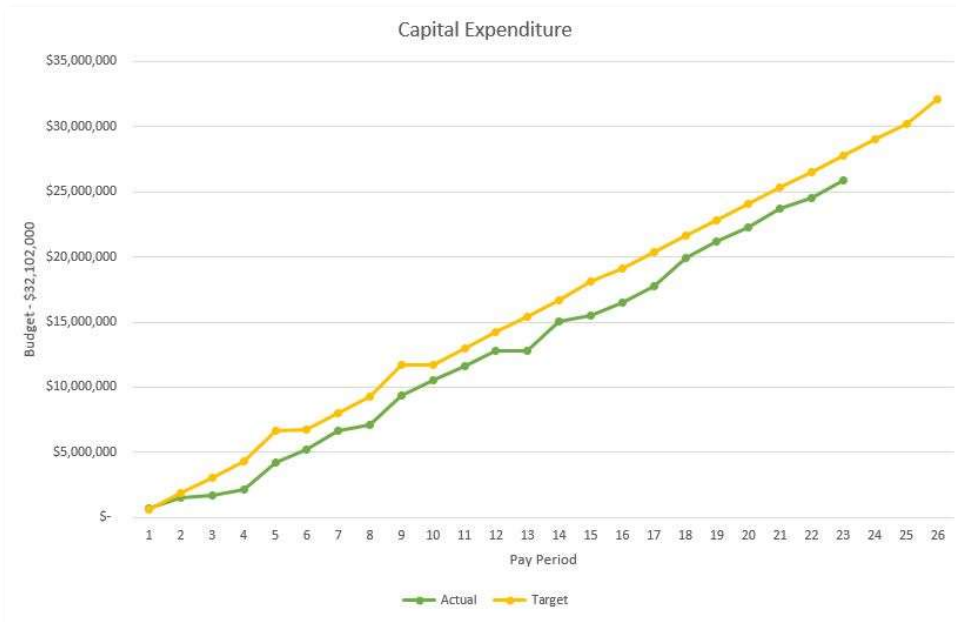
River Rose Drive						
Scope	The works to be undertaken to link the two existing sections of River Rose Drive, Norman Gardens include the construction of a new road (including all underground services) and a roundabout with a connection point for a future extension to Stringybark Avenue, Norman Gardens.					
Original Budget	\$2.25M	Revised Budget	\$2.5M	Last Month		This Month
On the Horizon – Key Milestones & Deliverables						
May	<ul style="list-style-type: none"> Construct 260m kerb and channel Completed half of the second layer of gravel 		June	<ul style="list-style-type: none"> Pre-start meeting with Ergon Energy regarding conduits Excavating for laying of conduit 		July
Comments	Cost increases on the job have largely been attributed to wet weather delays, modifications to the stormwater design due to ground conditions and price escalations during periods of high inflation over the recent 12 months.					



East Street / Stanley Street Roundabout						
Scope	The works to be undertaken will include the installation of a single lane roundabout at the intersection of East Street and Stanley Street, Rockhampton, new asphalt surface on all approaches, installation of pedestrian refuges and an upgrade of the streetlighting. This project is funded through the Federal Government Blackspot program.					
Original Budget	\$1.1M	Revised Budget	\$1.4M	Last Month		This Month
On the Horizon – Key Milestones & Deliverables						
May	June		July			
<ul style="list-style-type: none"> • Work on northern side • Late May, move into intersection 	<ul style="list-style-type: none"> • Reconstruct intersection • Form roundabout and medians 		<ul style="list-style-type: none"> • Project Delivered 			
Comments	Project cost increase has largely been due addressing issues such as blockages and collapsing of existing underground stormwater within the project area.					



BUDGET SUMMARY



11 NOTICES OF MOTION

Nil

12 QUESTIONS ON NOTICE

Nil

13 URGENT BUSINESS/QUESTIONS

Urgent Business is a provision in the Agenda for members to raise questions or matters of a genuinely urgent or emergent nature, that are not a change to Council Policy and can not be delayed until the next scheduled Council or Committee Meeting.

14 CLOSURE OF MEETING