



# **LATE ITEMS ORDINARY MEETING**

## **AGENDA**

**22 JUNE 2021**

*Your attendance is required at an Ordinary meeting of Council to be held in the Council Chambers, 232 Bolsover Street, Rockhampton on 22 June 2021 commencing at 9:00am for transaction of the enclosed business.*

*In line with section 277E of the Local Government Regulation 2012, it has been determined that it is not practicable for the public to attend Council meetings in person at the current time. Until further notice, Council meetings will be livestreamed online.*

A handwritten signature in black ink, appearing to be "C. P.", is positioned above the title of the Chief Executive Officer.

**CHIEF EXECUTIVE OFFICER**  
21 June 2021

Next Meeting Date: 13.07.21

**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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## **8 COUNCILLOR/DELEGATE REPORTS**

### **8.5 COUNCILLOR DISCRETIONARY FUND APPLICATION - COUNCILLOR DONNA KIRKLAND - ROCKHAMPTON RELAY FOR LIFE - CANCER COUNCIL**

**File No:** 8295  
**Attachments:** Nil  
**Authorising Officer:** Damon Morrison - Manager Office of the Mayor  
Evan Pardon - Chief Executive Officer  
**Author:** Nicole Semfel - Executive Support Officer

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#### **SUMMARY**

*Councillor Donna Kirkland is seeking approval from Council to donate \$995.00 from her Councillor Discretionary Fund to the Rockhampton Relay for Life – Cancer Council. \$231 in the 2020/2021 financial year budget and the remaining \$764 from the 2021/2022 financial year budget.*

#### **OFFICER'S RECOMMENDATION**

THAT Council approve a donation of \$995.00 (\$231 from 2020/2021 financial year budget and the remaining \$764 from the 2021/2022 financial year budget) from Councillor Donna Kirkland's Councillor Discretionary Fund to the Rockhampton Relay for Life – Cancer Council to assist with the running of this community fundraising event (subject to adoption of the 2021/2022 budget).

#### **BACKGROUND**

Councillor Donna Kirkland is declaring that she has a long term relationship with Rockhampton Relay for Life and the Cancer Council and is therefore seeking Council approval for the donation of \$995.00 from her Councillor Discretionary funds to assist with the running of the Rockhampton Relay for Life event being held on Saturday 7 August 2021.

Councillor Donna Kirkland has a \$231.00 balance in her Councillor Discretionary Fund for the 2020/2021 financial year and would like to utilise these remaining funds as well as an additional \$764.00 from her 2021/2022 Councillor Discretionary Fund allocation.

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## 9 OFFICERS' REPORTS

### 9.17 MOUNT MORGAN WATER SUPPLY SECURITY

**File No:** 1466

**Attachments:** 1. **Multi-Criteria Analysis of Water Supply Security Options**[↓](#)

**Authorising Officer:** Peter Kofod - General Manager Regional Services

**Author:** Jason Plumb - Manager Fitzroy River Water

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#### SUMMARY

*This report provides a summary overview of the options available for increasing Mount Morgan's water supply security, assesses them using a multi-criteria comparative analysis and makes recommendations based on this analysis of a shortlist of options that adopted for the preparation of a detailed business case to determine how the preferred option/s can be progressed to completion.*

#### OFFICER'S RECOMMENDATION

THAT based on the multi-criteria analysis of the options to increase water supply security in Mount Morgan, the option associated with the construction of a drinking water pipeline (Option 5) and the option associated with the construction of a raw water pipeline (Option 6) be pursued for the development of a detailed business case to progress these options towards implementation.

#### COMMENTARY

Increasing the long term water supply security for Mount Morgan is an essential part of ensuring that this important community can remain sustainable during periods of extended drought that lead to water supply failures or the Mount Morgan Water Supply Scheme. Increasing water supply security also provides the ability for Mount Morgan to grow and develop to maximise its potential to once again be a leading small town and destination of choice in regional Queensland.

The water scarcity event that is ongoing in the broader Mount Morgan area is the result of insufficient rainfall being received since late 2017 when the No. 7 Dam which supplies raw water for drinking water production was last full. Following the implementation of all available restriction measures (currently at Level 6) within Council's Drought Management Plan, a decision was made to commence an emergency supply as the dam storage level approached 8% due mainly to the deteriorating raw water quality that was leading to community concerns but also due to consideration of environmental values at the dam.

Tanker deliveries of drinking water from Gracemere to Mount Morgan commenced on 23 March 2021 after the completion of a successful trial to ensure the feasibility of tanker deliveries to the Mount Morgan Water Treatment Plant site on 4 March 2021. To date, FRW has spent approximately \$795,000 carting drinking water to Mount Morgan with drinking water supply via tanker increasing to full supply capacity on 20 April 2021 when the Mount Morgan Water Treatment Plant was isolated to avoid the introduction of the poor quality water from No. 7 Dam. At full supply capacity using tankers to deliver approximately 500 kL per day to meet demand which is typically between 500 and 600 kL per day, the typical cost incurred by FRW is approximately \$9,000 per day.

The status of the No. 7 Dam storage level and the proposed emergency supply arrangements were communicated to representatives of the Mount Morgan community on 13 April 2021 and feedback sought from the community on the range of different options available for increasing the water supply security in Mount Morgan. This report follows on from the discussions at that meeting and using information provided in previous reports and presentations to Council to develop a shortlisting process to identify preferred project options for the development of a detailed business case by Council.

## BACKGROUND

### Regional Water Supply Security Assessment

In 2018, the Queensland Government published the findings of a Regional Water Supply Security Assessment (RWSSA) for Mount Morgan. This work was done in collaboration with Fitzroy River Water (FRW) and used all available historical data to assess the security and reliability of the water supply provided by the No. 7 Dam. The RWSSA determined that for the No. 7 Dam and its ability to meet demand of approximately 380 ML/year, the chance of a water supply failure occurring for a period of greater than one month was less than 1 in 100 years. Since the RWSSA and this finding were published, the extended period of drought since late 2017 has led to a water supply failure greater than one month in duration.

### Contingency Arrangements for Emergency Water Supply

The RWSSA and other studies and reports before and since the preparation of the RWSSA have listed a range of options for the short term supply of drinking water to meet demand during an emergency water supply scenario. Mostly the contingency arrangements have always focused on the transportation of water from the Rockhampton or Gracemere community via rail or road transport as appropriate. Whilst it is accepted that this option is feasible on a short term basis (e.g. 3-6 months), it does not represent a viable long term water supply option for Mount Morgan.

### Options for Increasing Water Supply Security in Mount Morgan

Table 1 shows the identified options for increasing the water supply security in Mount Morgan. These options vary with respect to their scope, complexity, cost and timeframe for delivery. These options also vary with respect to the potential impacts and benefits due to their nature, location, cost and other factors.

**Table 1** Options for increasing water supply security in Mount Morgan

No.	Title	Short Description
1	Nine Mile Creek Dam	Construction of a new water storage dam on Nine Mile Creek which is located in the Fletcher Creek catchment.
2	Augmentation of No. 7 Dam	Increasing the storage capacity of No. 7 Dam via modifications to the current dam wall as part of the review of the spillway capacity compliance.
3	Augmentation of Fletcher Ck Weir	Excavation of the creek bed and/or upgrading of the weir structure to increase storage capacity.
4	Treated Mine-Pit Water Supply	Transferring treated mine-pit from the mine-site via a pipeline to No. 7 Dam to augment the raw water supply used by the Mount Morgan WTP.
5	Drinking Water Pipeline	Construction of drinking water supply infrastructure to connect Mount Morgan to the Rockhampton Water Supply Scheme.
6	Raw Water Pipeline (± hydro)	Construction of raw water supply infrastructure from the Stanwell Water Supply Dam to the No. 7 Dam to augment the raw water supply.

### Multi-Criteria Comparative Analysis of Options for Increasing Water Supply Security

Table 2 lists the criteria that have been used to assess the options to increase the water supply security in a manner that provides a comparison of all options with respect to that criterion. A number of the criteria have either negative or positive aspects to them and vary to the extent that they are able to be readily quantified. The simple scoring scale used is a five point scale (1-5) where a score of 1 reflects the most negative rating possible for the criterion and a score of 5 reflects the most positive rating for the criterion, so that the overall score for each option is provided and then able to be used to rank the options in order of overall favourability.

Table 3 in the attachment to this report provides the results of the multi-criteria analysis of the six options listed in Table 1. The results of this analysis indicate that based on the 10 assessment criteria, options 5 and 6 score the equal highest score with option 2 only one point lower in its total score. Options 5 and 6 relate to the construction of a drinking water and raw water pipeline respectively, and option 2 relates to the potential augmentation of No. 7 Dam as part of the compliance requirements associated with dam safety management. As option 2 will need to be considered as part of meeting this compliance requirement, it is considered that this option will proceed in the future even without the preparation of a detailed business case.

**Table 2** Criteria used for multi-criteria comparative assessment of each of the options

No.	Criteria	Short Description
1	Community – Recreational	Potential for improved recreational outcomes
2	Community – Growth/Development	Potential for improved growth and development opportunities within the locality.
3	Community – Support/Preference	Qualitative indication of the level of community support for the option
4	Regulatory – Approvals	Number and complexity of stakeholder interactions and approval processes
5	Environmental – Impact/Benefit	Potential for environmental impacts or environmental benefits of each option
6	Cost - Capital	Amount and availability capital funding required for each option
7	Cost – Operational	Amount of ongoing operational costs associated with the option
8	Project Risk – Design, Construction	Number and complexity of risk factors during the delivery of the capital project prior to its completion.
9	Timeframe for Completion	The indicative timeframe between now and the completion of the project in order to realise the targeted outcome of increase water security
10	Likelihood of Long Term Success	Overall chance that option will provide long term water supply security including consideration of climate variability.

### PREVIOUS DECISIONS

Council has previously made decisions in relation to this community need, however, not fully committed to endorsing options for the development of a detailed business case for these options to proceed towards implementation.

**BUDGET IMPLICATIONS**

An allocation of \$1 M is proposed within the 2021-22 Council Budget for the preparation of a Business Case to increase the water supply security for Mount Morgan.

**LEGISLATIVE CONTEXT**

Council is a registered water service provider under the *Water Supply (Safety and Reliability) Act* and has the overall responsibility for providing a safe and reliable supply of drinking water to the Mount Morgan community.

**STAFFING IMPLICATIONS**

The preparation of a Business Case will be completed by external consultants that will be engaged using an open and competitive tender process. These consultants will work closely with relevant Council staff to ensure the preparation of a Business Case that meets our needs.

**CORPORATE/OPERATIONAL PLAN**

Numerous Corporate and Operational Plan objectives and actions are referenced in this report and range from the aspects of infrastructure planning and service delivery, through to considerations for the environment and the promotion of economic growth and development within the region.

**CONCLUSION**

This report provides a summary overview and multi-criteria comparative analysis of six options that have the potential to be implemented in order to increase the water supply security in Mount Morgan. The reports makes recommendations as to which options should be shortlisted for the development of a detailed business case in order to progress these options towards implementation.



# **MOUNT MORGAN WATER SUPPLY SECURITY**

## **Multi-Criteria Analysis of Water Supply Security Options**

**Meeting Date: 22 June 2021**

**Attachment No: 1**

**Table 3** Multi-criteria analysis of options to increase the water supply security for Mount Morgan.

Option	Criteria										Total Score
	1) Community Recreational	2) Community Growth & Development	3) Community Support, Preference	4) Regulatory Approvals	5) Environmental Impact/Benefit	6) Cost Capital	7) Cost Operational	8) Project Risk	9) Timeframe for Completion	10) Likelihood of Long Term Success	
1) New Dam	3	2	2	1	2	1	2	1	1	3	18
2) No. 7 Dam Augmentation	4	3	2	3	3	3	3	2	2	2	27
3) Fletcher Ck Augmentation	2	2	2	2	3	3	3	2	2	2	23
4) Treated Mine Water Supply	3	3	1	2	2	3	2	2	3	2	23
5) Drinking Water Pipeline	3	4	4	2	4	1	1	3	1	5	28
6) Raw Water Pipeline	4	4	4	2	4	1	1	2	1	5	28