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ITEM 43 EUGOWRA FLOOD - FLOOD MODELLING2

CONFIDENTIAL ITEMS

Clause 240(4) of the Local Government (General) Regulation 2005 requires Council to refer any business to be considered when the meeting is closed to the public in the Ordinary Business Paper prepared for the same meeting. Council will discuss the following items under the terms of the Local Government Act 1993 Section 10A(2), as follows:

ITEM 9 TENDER FOR SUPPLY AND INSTALLATION OF WIRE ROPE SAFETY FENCING

(c) information that would, if disclosed, confer a commercial advantage on a person with whom the Council is conducting (or proposes to conduct) business

ANNEXURE ITEMS

ITEM 43 - EUGOWRA FLOOD - FLOOD MODELLING

REPORT IN BRIEF

Reason For Report	Seek Council approval to fund modelling of the recent flood event in the Mandagery Creek catchment.
Policy Implications	Nil
Budget Implications	Funds from reserve in the amount of \$17,700
Area of Responsibility	Flood Mitigation
Annexures	Nil
File Number	\\My Workspace\Business Paper Report Directory\Working Reports InfoCouncil 2011 - 214503

DIRECTOR OF ENGINEERING AND TECHNICAL SERVICES' REPORT

Council would be aware a storm event occurred on 9th December with extensive rainfall in the upper Mandagery and Boree catchments resulting in flooding of a number of towns and villages and extensive damage to roads and bridges. Council would also be aware the DRAFT review of the 1999 Eugowra Floodplain Risk Management Study is on exhibition. This study includes computer modelling of flood events calibrated to previous floods and local knowledge and provides theoretical flood levels for a range of rainfall intensities or events.

The December 2010 flood event provides a unique opportunity to "model" the recent flood pattern and level in Eugowra. Modelling of the recent event would be valuable in presenting the findings of the DRAFT study to the Eugowra Floodplain Committee and the Eugowra Community and give the consultants model credibility.

The Consultant Lyall and Associates have provided a cost to undertake the modelling of \$12,000 + GST. Council will need to provide the extent and level of the December flood. The estimated cost for this is \$4,500. As work is not included in the approved budget, Council's approval is sought to carryout the works funded from reserve.

RECOMMENDATION

THAT Council approve the modelling of the December 2010 Eugowra flood to be funded from the Flood mitigation reserve in the amount of \$17,700

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ITEM 26 ORANGE CITY WATER STRATEGY1

ANNEXURE ITEMS

ITEM 26 - ORANGE CITY WATER STRATEGY

REPORT IN BRIEF

Reason For Report	Provide Council with an overview of OCC water supply strategy and implications for Cabonne.
Policy Implications	Nil
Budget Implications	Nil
Area of Responsibility	Water Supply
Annexures	Nil
File Number	\\My Workspace\Business Paper Report Directory\Working Reports InfoCouncil 2010 - 214168

DIRECTOR OF ENGINEERING AND TECHNICAL SERVICES' REPORT

Council has received a copy of Orange City Council's December 2010 up date on the Orange City water strategy.

This report provides a brief overview of the water strategy and how it may impact on Cabonne.

As Council would be aware Orange City is in the process of developing a range of water supply infrastructure options for the city. The key infrastructure elements identified in the water supply strategy include:

- a) Development of the Ploughmans Creek stormwater harvesting scheme.
- b) Commissioning bores across OCC.
- c) Undertaking safety upgrading works at Suma Park Dam
- d) Investigation into a pipeline connection from the Macquarie River or, as a secondary option, from Lake Rowlands, subject to the availability of sufficient volumes of water and agreements on suitable business arrangements with Central Tablelands Water.
- e) Supporting the expansion of Lake Rowlands and associated pipelines in principle as identified in the CENTROC Water Security Study and
- f) Investigation into the development of a Managed Aquifer Recharge scheme.

"Managed Aquifer Recharge (MAR) is the process of adding a water source such as recycled water to aquifers under controlled condition for withdrawal at a later date" CSIRO

Interestingly the November 2009 update report on the city water strategy included connection to Lake Canobolas as a future option. The current report makes no mention of using Lake Canobolas.

The strategy makes reference to the CENTROC Water Security Study and recommends OCC gives in principle support for the preferred Lake Rowlands option however notes that the upgrade of Lake Rowlands is considered a long-term option. The critical timeframe for augmenting OCC water supply is in a shorter term. OCC preferred option for a regional pipeline to address the medium term demand is a take off from the Macquarie River below the confluence with the Turon River. The study suggests this option provides better supply than alternate Macquarie River take off points and Lake Rowlands under existing conditions.

Further detail on the pipeline, including identifying a suitable corridor will be contained in a concept study currently being prepared by OCC. Sections of the pipeline may be located in existing roadways, OCC will need to enter into a lease agreement with the road authority (CSC in the case of public roads) for this to happen.

Some basic statistics relating to the OCC water strategy;

- OCC secure yield (base situation) is 3,600 ML/a
- Long term unrestricted demand is 5,400 ML/a
- Local projects (bores and stormwater harvesting) will add 1,550ML/a
- Regional pipeline will add a further 2,100 ML/a secure yield
- OCC has a 7800ML entitlement within the Macquarie River catchment.
- The local and regional pipeline provides a 28 yr capacity at 1% growth
- The water strategy has a 50 yr planning horizon
- Expansion of Lake Rowlands provides the 50 yr + capacity

Orange City Council has agreed to provide a briefing to Council in early February on the water supply strategy including the pipeline to the Macquarie River and are also considering a meeting for interested Cabonne landholders, possibly at Mullion Creek at the same time.