

## 7.16. REX CREEK INTAKE REMEDIATION

**REPORT AUTHOR** Project Manager

**MANAGER** Chief Engineer TC Jasper Infrastructure and Recovery

**DEPARTMENT** Infrastructure Recovery

### RECOMMENDATION

**That Council:**

- 1. Resolves to award Contract WO6439 – Rex Creek Intake – Remediation Work to Koppen Construction Pty Ltd for \$615,391. plus, GST.**
- 2. Delegates authority under s 257 of the Local Government Act 2009 to the Chief Executive Officer to negotiate, finalise and execute any and all matters in relation to this contract.**

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### EXECUTIVE SUMMARY

Flooding associated with Tropical Cyclone Jasper resulted in extensive landslides and scouring of creeks (including Rex Creek) with the movement of large boulders, sand and debris impeding the race that feeds the raw water intake. This significantly impacted the raw water quality and treatment rates requiring repairs and safety improvements. A Tender was released to the market with 3 responses assessed with a recommendation made by the assessment panel to award contract to Koppen Construction Pty Ltd.

### BACKGROUND

The towns of Mossman and Port Douglas source their water supply from an existing intake in Rex Creek, which flows into the Mossman River at Mossman Gorge.

During Cyclone Jasper, the concrete inlet structure and the primary coarse bar grate were damaged. Sand from the land slips clogged the channel from the intake as well as the raw water pipework from the Gorge to the Water Treatment Plant. Additionally, the electrical components of the Rex Creek Intake were damaged and require replacement. Future events could further damage the intake and channel and render it inoperable without remedial action.

Safety issues also exist for staff, whereby accessing the inlet structure is challenging due to its low elevation and slippery conditions for maintenance workers responsible for clearing blockages from the inlet grate. Additionally, workers must manually lift existing slide gates to attempt to flush out sand. The proposed scope of new works includes a new inlet structure and grate, new raised walkways and platforms with handrails and harness anchorage points. The existing manual slide gates will be replaced with proprietary penstocks with mechanical winch handles.

The complexity of the bypass works will require clear and comprehensive methodology to be developed to ensure the works are carried out safely and within the guidelines of the Wet Tropics Management Permit. Council Officers and the contractor will work closely to ensure that impacts are minimized as reasonably practical.

Due to the long lead times for specific items the Council have prioritised works to be done this year and the remainder to be done after the wet season given the long lead times. Although not ideal, the council is cognizant of the constraints associated with the project and identified a staged approach which will benefit the outcome.

## COMMENTS

A Request for Tender (RFT) was issued via our procurement portal, Vendor Panel, resulting in three responses. The evaluation panel reviewed the submissions, assessing the three conforming offers based on criteria such as price, experience and capacity, business profile, methodology and program.

Due to the complexities and risks involved with this project, weighting was heavily influenced by methodology and capability to ensure the works can be carried out safely and in a timely manner.

Based on the results of the evaluation, Koppen Construction Pty Ltd is the recommended tenderer for contract WO6439 – Rex Creek Intake – Remediation Work.

Although Koppen Construction Pty Ltd ranked second in terms of price, their submission demonstrated a clear and well-considered methodology. Combined with their relevant experience, they were assessed as presenting the lowest overall risk to Council.

The evaluation panel members were satisfied with the responses provided during the evaluation and are confident that Koppen Construction Pty Ltd has the capability to deliver the works safely and within the required timeframe.

## PROPOSAL

That Council:

1. Resolves to award Contract WO6439 – Rex Creek Intake – Remediation Work to Koppen Construction Pty Ltd for \$615,391.00 plus GST.
2. Delegates authority under s 257 of the Local Government Act 2009 to the Chief Executive Officer to negotiate, finalise and execute any and all matters in relation to this contract.

## FINANCIAL/RESOURCE IMPLICATIONS

The current project funds allocated are \$580,000. This project scope is predominantly civil work and makes up approximately 80% of the work required at the intake. There will be a budget shortfall of \$35,000 (excl contingency and project management costs) The budget shortfall will be funded through the existing capital works program and reallocated at budget review including project management costs and contingency allocation.

## RISK MANAGEMENT IMPLICATIONS

This project contains safety, scope and program risks. Council Officers will work closely with the contractor to ensure that all risks are identified and mitigated including:

- Flooding occurring during construction.
- Loss of raw water supply.
- Identified Budget shortfall.
- Working within the National Park.
- Early and prolonged wet season.

- Working within Waterway.

## SUSTAINABILITY IMPLICATIONS

**Economic:** Long term upgrade of critical infrastructure

**Environmental:** Nil

**Social:** Nil

## CORPORATE/OPERATIONAL PLAN, POLICY REFERENCE

This report has been prepared in accordance with the following:

### Corporate Plan 2025-2030 Initiatives:

#### Theme 3 – Service Delivery

We deliver Council services effectively and efficiently to meet community expectations, focusing on the wellbeing of both the community and our employees.

*3.8 - Deliver safe and reliable drinking water.*

#### Theme 4 - Recovery and Resilience

To partner with community to build resilience against natural disasters creating a strong sense of social capital.

*4.1 - Support our community's journey of recovery and rebuilding after natural disasters.*

*4.2 - Deliver infrastructure asset restoration and betterment.*

### Operational Plan 2025-2030 Actions:

1.8.1 – Re-design of water supply systems at the Mossman River Intake to deliver improved resilience for longer term water security for the Douglas Shire community.

## COUNCIL'S ROLE

Council can play a number of different roles in certain circumstances, and it is important to be clear about which role is appropriate for a specific purpose or circumstance. The implementation of actions will be a collective effort and Council's involvement will vary from information only through to full responsibility for delivery.

The following areas outline where Council has a clear responsibility to act:

<b>Builder/Owner</b>	Council makes a significant investment every year in the infrastructure that underpins the Shire through its capital works program. Council will manage its assets with appropriate frameworks and deliver its projects through robust project management.
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## CONSULTATION

**Internal:** Water and Wastewater Department.

**External:** Nil

**COMMUNITY ENGAGEMENT**

Mossman Gorge Cultural Centre

**ATTACHMENTS**

Nil