

**LATE ADDENDUM REPORT**

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**ORDINARY ITEMS FOR CONSIDERATION**

**REPORTS THROUGH THE GENERAL MANAGER**

**REPORTS FROM THE DIRECTOR COMMUNITY AND NATURAL RESOURCES**

**a41 [CNR-CM] Variations to Contract EQ2011-170 Options and Design Report for Foreshore Protection Works, Kingscliff Beach**

**SUBMITTED BY: Natural Resource Management**



**Caring for the Environment**

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**SUMMARY OF REPORT:**

Council has contracted the Water Research Laboratory (WRL), University of New South Wales to undertake detailed assessments of foreshore protection options for Kingscliff. The erosion events of 2010 to 2012 have precipitated a re-examination of the options and identified a need for a more detailed review of the terminal seawall design and materials and the volume of nourishment sand required.

Council requested Water Research Laboratory to provide a quote for some additional design scenarios and an assessment of the option of a slotted groyne field, as recommended by the NSW Minister for the Environment.

WRL provided a quote in response to a request from Council for an addendum to contract EQ2011-170 Options and Design Report for Foreshore Protection Works, Kingscliff Beach.

**RECOMMENDATION:**

**That Council**

- 1. Accepts the quote for additional options assessments from Water Research Laboratory to a total of \$48,000 (Exclusive of GST) for EQ2011-170 Options and Design Report for Foreshore Protection Works, Kingscliff Beach.**
- 2. The General Manager is given delegated authority to approve additional variations up to \$150,000 above the revised contract sum and those variations reported to Council following completion of the works.**
- 3. Requests financial assistance of 50% of this additional cost from the Coastal Management Program of the NSW Office of Environment and Heritage.**

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4. **ATTACHMENT is CONFIDENTIAL in accordance with Section 10A(2)(c) and (d) of the Local Government Act 1993, because it contains:-**
- (c) information that would, if disclosed, confer a commercial advantage on a person with whom the council is conducting (or proposes to conduct) business.**
  - (d) commercial information of a confidential nature that would, if disclosed:**
    - (i) prejudice the commercial position of the person who supplied it, or**
    - (ii) confer a commercial advantage on a competitor of the council, or**
    - (iii) reveal a trade secret.**

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### REPORT:

Following the erosion events along Kingscliff Beach in 2010/11, Council resolved to consider the options for a permanent seawall between the Cudgen Headland Surf Lifesaving Club and the Kingscliff Beach (Bowls) Club seawalls.

A brief was issued on 10 August 2011 to four pre-selected consultants to produce an Options and Design Report for Foreshore Protection Works, Kingscliff Beach (EQ2011-170). Three tenders were received with the successful tenderer being the Water Research Laboratory, University of New South Wales (WRL). The brief required a contract in two parts being Part A: Alternative Terminal Seawall Designs and Part B: Design and Specification of Terminal Seawall.

The accepted lump sum price for Part A was \$39,000 (GST inclusive) and the lump sum price for Part B varied dependent upon the outcome of Part A. The lump sum fee for Part B varied between \$59,600, \$64,600 and \$80,900 dependent upon seawall materials and design. For the purposes of the tender documentation the lump sum cost for Part B of \$64,600 (GST inclusive) was accepted.

The tender for the two parts was awarded together based on the urgency, on behalf of Council, to have an appropriate seawall designed and constructed to protect the Kingscliff Beach Holiday Park prior to the sand nourishment, if possible. The Tweed Coast Holiday Parks Reserve Trust subsequently constructed the temporary seawall, thus reducing the urgency of this design project.

It is now appropriate for Council to fully consider the design implications and cost options for the long-term protection for Kingscliff foreshore. Design considerations relate to the alignment of the seawall, the volume of nourishment sand required and its role in wall design and protection capacity. These issues have the potential to impact on Kingscliff Foreshore Master Plan redevelopment design and greatly vary the cost for a long term solution to the erosion at Kingscliff.

Additionally, the NSW Minister for Environment (upon advice from the NSW Coastal Panel) requested Council to investigate an alternative option, specifically a slotted groyne field to protect Kingscliff Beach foreshore (Part C: Groyne Field Assessment).

WRL provided a quote in response to the request from Council for an addendum to the above contract. Coordinator Natural Resource Management and the Coastal Projects Contractor have assessed the proposal provided by WRL, dated 21 May 2012, in response to Addendum 2 Contract EQ2011-170 and are satisfied that it meets Council's requirements.

It is requested that the proposal dated 21 May 2012 from Water Research Laboratory, be accepted as a variation to Contract EQ2011-170 with a total value of \$21,000 (GST exclusive) for the extension to Part A: Alternative Terminal Seawall Designs (now extended to consider sand nourishment volumes within the context of wall design) and a value of \$27,000 (GST exclusive) for Part C, Groyne Field Assessment.

This variation would bring the total project costs to \$142,182, being:

Part A - Alternative Terminal Seawall Designs:	\$56,455 (GST exclusive)
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Part B - Design and Specification of Terminal Seawall	\$58,727 (GST exclusive)
Part C - Groyne Field Assessment	\$27,000 (GST exclusive)

**OPTIONS:**

1. That Council accepts the proposal from Water Research Laboratory as a variation to Contract EQ2011-170.
2. That Council does not accept the proposal from Water Research Laboratory as a variation to Contract EQ2011-170.

**CONCLUSION:**

Council is undertaking detailed assessments of foreshore protection options for Kingscliff. The erosion events of 2010 to 2012 have precipitated a re-examination of the options and identified a need for a more detailed review of the terminal seawall design and materials and the volume of nourishment sand required.

The NSW Minister for the Environment recommended Council consider a slotted groyne field as one of the foreshore protection options. It is proposed to include this assessment in options being considered as part of the Alternative Terminal Seawall Design contract.

**COUNCIL IMPLICATIONS:**

**a. Policy:**

Corporate Policy Not Applicable.  
Tweed Shire Coastline Management Plan 2005.

**b. Budget/Long Term Financial Plan:**

Additional costs would come from the existing Coastline Management Plan Implementation budget. The NSW Government has provided financial assistance of 50% for this project.

**c. Legal:**

Not Applicable.

**d. Communication/Engagement:**

Not Applicable.

**LINKAGE TO INTEGRATED PLANNING AND REPORTING FRAMEWORK:**

- 4 Caring for the Environment
- 4.4 Manage the Tweed coastline to ensure a balance between utilisation and conservation
- 4.4.1 Recognise and accommodate natural processes and climate change
- 4.4.1.2 Identify and manage coastal areas with erosion vulnerability
- 4.4.1.2.1 Kingscliff foreshore protection

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**UNDER SEPARATE COVER/FURTHER INFORMATION:**

1. **Confidential Attachment** - Proposal from Water Research Laboratory (*commercial in confidence*) for variation to EQ2011-170 Options and Design Report for Foreshore Protection Works Kingscliff Beach: Addendum to Brief (ECM 52087181)
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