

## LATE ADDENDUM REPORT

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### REPORTS THROUGH THE GENERAL MANAGER

### REPORTS FROM THE DIRECTOR COMMUNITY AND NATURAL RESOURCES

#### a27 [CNR-CM] Kingscliff Foreshore Erosion Emergency Works

#### ORIGIN:

**Natural Resource Management**

#### SUMMARY OF REPORT:

Council has committed through adoption in June 2005 of the Tweed Shire Coastline Management Plan, to the protection of Kingscliff foreshore from coastal erosion. A major sand nourishment program (300,000m<sup>3</sup>) is planned for the long term protection of Kingscliff foreshore and public facilities.

In the last week, a combination of spring high tides, high swell and the deepened near-shore conditions has led to partial failure of the sandbag walls constructed in front of the Cudgen Headland Surf Club and Kingscliff Beach Holiday Park.

The original works were constructed in an attempt to minimise costs and a more robust design is required for the repairs due to the length of time that the foreshore is likely to be subject to erosion and length of time anticipated for recovery of the beach. Further works are required to reduce erosion impacts on Cudgen Headland Surf Club and Kingscliff Beach Holiday Park.

The amount spent to date that is currently unfunded is \$90,000. The estimated cost for the repair and strengthening of the sandbag walls is an estimated additional \$140,000. Approximately 60% of this is construction of a wall in front of the Kingscliff Beach Holiday Park and the remainder at the Cudgen Headland Surf Club.

#### RECOMMENDATION:

**That Council approve the expenditure of that portion of the \$140,000 emergency works estimate that relates to protection of the Cudgen Headland Surf Life Saving Club.**

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Severe coastal erosion has occurred at Kingscliff in response to severe weather events in the previous two years and recent swell and current conditions most likely related to the La Niña weather event.

Rock revetment and sand nourishment works were completed in February of this year funded predominantly through the Natural Disaster Relief Program (grant of \$600,000). Sand was pumped from Cudgen Creek to nourish Kingscliff Beach.

Unfortunately, erosion has reoccurred at the southern end of Kingscliff Beach and the nourished sand has moved out of this section of the beach, most likely to the north and offshore. This has exposed the rock wall and deepened the near-shore area between the Cudgen Creek Training Wall and the Cudgen Headland Surf Club.

These weather conditions could not have been anticipated as the beach compartment had been showing a good level of natural sand supply and replenishment at the time of the sand nourishment works.

In the last week, a combination of spring high tides, high swell and the deepened near-shore conditions has led to partial failure of the sandbag walls constructed in front of the Cudgen Headland Surf Club and Kingscliff Beach Holiday Park. To maintain the foreshore area, these sandbag walls need to be rebuilt and strengthened.

Due to the large amount of sand that has moved out of the southern Kingscliff Beach compartment, it is considered that recovery of the beach is potentially a long way off under natural flow conditions. It is likely that the beach will remain in a sand-starved state until the major sand nourishment project can be undertaken.

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It should be noted that the rock retaining wall constructed between the Cudgen Headland Surf Club and the north training wall of Cudgen Creek would appear to be maintaining the current alignment however as this is not designed as a full sea wall it may be subject to failure if a large storm event occurs.

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### LEGAL/RESOURCE/FINANCIAL IMPLICATIONS:

As per Report.

### POLICY IMPLICATIONS:

Nil.

### UNDER SEPARATE COVER/FURTHER INFORMATION:

*To view any "non confidential" attachments listed below, access the meetings link on Council's website [www.tweed.nsw.gov.au](http://www.tweed.nsw.gov.au) (from 8.00pm Wednesday the week before the meeting) or visit Council's offices at Tweed Heads or Murwillumbah (from 8.00am Thursday the week before the meeting) or Council's libraries (from 10.00am Thursday the week of the meeting).*

Nil.

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