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Final Report

Amity Point Shoreline Erosion Management Plan

Redland City Council

June 2018



SEMP requirements

The SEMF is a non-statutory planning document that responds to current erosion, or potential future erosion problems

The Qld Government *recommends* the following matters are *identified, assessed and reviewed* in a SEMF:

1. Factors comprising risk, physical coastal processes, implementation strategies and responses ✓
2. Management options and strategies ✓
3. Budgetary information # ✓
4. Implementation strategies # ✓

To be further developed in 'Implementation Plan' project

Plan overview

The Plan is structured as follows:

- Executive Summary – covers three reaches
- Background, objectives and structure
- Coastal values (from engagement activities)
- Physical processes analysis
- Risk Assessment (includes structural audit of FSB & erosion threats by reach)
- Shoreline erosion management options (structural & non-structural)

Plan overview

- **Assessment of shoreline management options** (by reach, assessment methodology)
- **Stakeholder consultation and engagement** (summary of activities & responses)
- **Planning and legislation review** (updated to reference Qld Planning Act, 2016)
- **Recommended shoreline erosion management** (by reach)
- **Appendices** (including Safety Management Plan for emergency works)

Southern Reach: Recommended Management Option

- Construct buried seawall adjacent to campground (~165m)
- Initial beach nourishment (~5,000m³)
- Initial structural audit of existing seawall
- Monitor beach nourishment performance (through beach surveys)
- Follow-up beach nourishment, if required
- Annual bathymetric survey of Rainbow Channel

#cost estimates are included

Central Reach: Recommended management option [^]

- Structural audit of the flow slide barrier (annual recommended, as per Southern Reach)
- Bathymetric survey of Rainbow Channel (as per Southern Reach)
- Obtain approval for the Flow Slide Barrier and repair following damage
- Resolve availability of rock armour for repairs
- Research, investigate and resolve payment for FSB maintenance
- Investigate and resolve property access for FSB maintenance

[^] Some cost estimates are included

Northern Reach: Recommended management option *

- Institute a routine beach monitoring program
- Undertake a Coastal Processes Assessment (*may* identify future erosion protection strategies / works)

* Cost estimates are included

Requirements to implement the SEMP

The following actions are required to fully implement the SEMP:

Southern reach

- Include recommended re-current operational projects * in Council's budget.
- Include / update new capital projects in Council's budget.
- Sand sourcing study. Responsibility: RCC

Central reach

- Implement capital works projects on Council land
- Program re-current operational projects in Council's budget
- Assess changes in risk-profile resulting from updated bathymetry data

Continued ...

- Develop and refine management responses * through the 'Implementation Plan' project
- Cost-sharing arrangements for maintenance repair of FSB through the 'Implementation Plan' project

Northern reach

- Clarify / define land tenure of foreshore and maintenance responsibilities
- Where required program new, re-current operational projects^ in Council's budget

Next steps SEMP completion

- Review of draft Final SEMP Report by QYAC Land & Sea Committee (date to be advised)
- Internal endorsement and recommended adoption of the Final SEMP Report by Council as coastal management policy for Amity Point
- Referral of the SEMP Report to the Queensland Government (Dept of Environment & Science) *for endorsement*

Next phase – SEMP Implementation Plan

The scope of the 'Implementation Plan' project includes:

- Stakeholder engagement (property owners, Government agencies, Council, QYAC)
- Rock source and supply
- Review of management options implementation (incl. financial analysis)
- SEMP Implementation Plan
- Clarify FSB routine maintenance vs emergency repairs?

Council requests feedback from the RG to refine the specification for the 'Implementation Plan' project



Comments?

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