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29 May 2014

Customer Service Team
Department of National Parks, Recreation, Sport and Racing
PO Box 15187
City East QLD 4001

Dear Sir/Madam

Application for Marine Park Permit for Prescribed Tidal Works (demolition and replacement of seawall) on land located at the junction of Second Avenue and the Esplanade, Toorbul along the seaward side of the Esplanade Road Reserve

We write on behalf of the Applicant, Moreton Bay Regional Council (MBRC), and hereby seek a Marine park permit to undertake prescribed tidal works relating the demolition and replacement of a seawall on the seaward side of The Esplanade road reserve, Toorbul.

The site is located within the Conservation Park Zone of the Moreton Bay Marine Park. The demolition and construction works constitute Prescribed Tidal Works for which a Development Application – Operational Works will be lodged to the MBRC. To allow these works to be undertaken, a Marine Park Permit is required. Required information and documentation to support this application is provided below.

1.0 Application Details

This application for a Marine Park Permit is being sought for the land located within the work coordinates identified in Table 1 below. The coordinates identify the likely works areas required for the proposed demolition and replacement of the seawall.

Table 1 Work Boundary Coordinates

Work Boundary Coordinates	
Easting	Northing
510014.243	7009831.124
510024.951	7009837.844
509982.963	7009904.749
509972.564	7009898.223

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2.0 Development Details

The subject site is located at the junction of Second Avenue and the Esplanade Toorbul along the seaward side of the Esplanade Road Reserve (refer to Table 1 for work boundary coordinates). The proposed works extends into the Council-controlled Esplanade Road Reserve on the eastern boundary of the site and extends into unallocated state land (refer to Figure 1). No privately owned land will be affected by or subject to this application.

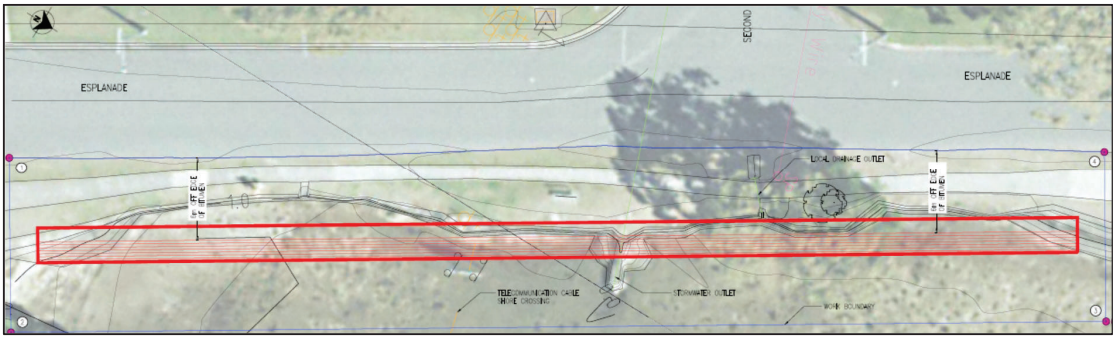

Figure 1 Toorbul seawall works area

The length of the seawall is proposed to extend for 75 metres along the foreshore area adjacent to the Esplanade. The land currently forms part of a linear open space network which extends along the Toorbul shoreline. Existing infrastructure within the work boundary area includes a pedestrian pathway and a park bench as well as a stormwater outlet, drainage outlet and telecommunication cable shore crossing. Vegetation within the work boundary includes a cluster of two mature trees to the north of the site and mangrove vegetation on the south-eastern border of the site. The subject site is located adjacent to a low density residential area to the west of The Esplanade Road Reserve.

The purpose of the proposal is to ensure that the foreshore maintained by Council is protected from ongoing erosion and tidal processes. It is noted that the proposed alignment for the new seawall is supported by the Draft Northern Moreton Bay Shoreline Erosion Management Plan.

3.0 Proposed Works and Construction Methodology

Works associated with the Toorbul seawall include:

- Demolition of the existing seawall
- Minor excavation of the foreshore area in preparation for the construction of the new seawall
- Construction of the new 75m stepped sea wall
- Reinstatement of the foreshore flats and turfed area along the affected section of the Esplanade

Undertaking the proposed works will have a minimal impact on the surrounding tidal environment. Vegetation will only be disturbed to the extent reasonably necessary for the work. Following completion of the seawall, landscaping will be replaced to its current state where possible. Any trees or marine plants removed from the site to accommodate the works will be replaced by similar species present on site where reasonably practical.

The work methods of the contractor will be undertaken subject to an approved Environmental Management Plan (Construction) (EMP(C)) which will comply with the conditions of approval and respond to the relevant on site environmental issues.

4.0 Moreton Bay Marine Park Assessment

A Marine Park Permit has been identified as necessary to undertake the proposed works at the subject site, in addition to the Prescribed Tidal Works Approval currently being obtained. The following section has been prepared to provide the Chief Executive with relevant information to assess the application.

The proposed demolition and replacement of the seawall at the subject site is located within the 'Conservation Park Zone' of the Moreton Bay Marine Park. Under Schedule 1, Section 4 of the *Marine Parks Regulation 2006*, the objects to be achieved for the Conservation Park Zone are –

(a) to provide for the conservation of the areas of the marine park within the zone; and

(b) subject to the objective mentioned in paragraph (a), to provide opportunities for reasonable use and enjoyment, including, for example, limited extractive use, of the areas.

In accordance with Section 21 of the Moreton Bay Marine Park Zoning Plan 2006, a person may, with permission for the area, enter or use an area in the 'Conservation Park Zone' only for the following purposes:

(m) carrying out works consistent with the objects for the Conservation Park Zone

The proposed demolition and reconstruction works of the Toorbul seawall are considered consistent with the objectives for the 'Conservation Park Zone' as they are works that will protect the Moreton Bay foreshore from ongoing erosion. This will ensure that the existing environmental values of the tidal waters are upheld by preventing degradation of the foreshore/tidal flats area alongside the seawall.

The new seawall will provide a higher aesthetic standard than the existing rock seawall and following construction, appropriate landscaping will be undertaken along the foreshore area. This will include reinstatement of the turfed area alongside the footpath and the proposed planting of coastal trees to provide shade along the pathway.

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5.0 Supporting Documentation

The following documentation is provided to support this application for a Marine Park Permit:

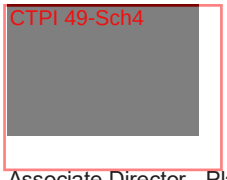
- Marine Park Permit Application Form *Attachment 1*
- Plans of Development *Attachment 2*
- Landscape Master Plan *Attachment 3*

6.0 Summary

We trust that the information provided within this correspondence is satisfactory for you assessment and ultimate determination of this application for a Marine Park Permit over the subject land at the Toorbul foreshore area.

If you have any questions relating to this matter then please feel free to contact me on the undersigned information.

Yours faithfully



Associate Director - Planning
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Mobile: CTPI 49-Sch4
Direct Dial: +61 7 CTPI 49-Sc

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Attachment 1

Marine Park Permit Application Form

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Published on DND Directorate of Access to Information and Privacy (DAIP) under the RTI Act 2005

GUIDE

1. The applicant is the person or legal entity intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

   The registered address is legally required for the serving of notices.

   It is the address of a person or entity and cannot be a post office box.

   If there are more than two individuals (partners), please provide details on a separate sheet.

APPLICANT'S FULL NAME (1)	TITLE	DATE OF BIRTH
CTPI 49-Sch4	Mr	CTPI 49-Sch4
APPLICANT'S FULL NAME (2)	TITLE	DATE OF BIRTH

REGISTERED ADDRESS	POST CODE
AECOM PO Box 1307 Fortitude Valley	4006

TELEPHONE	FACSIMILE	MOBILE
07 CTPI 49-Sch4		CTPI 49-Sch4

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)	POST CODE
AS ABOVE	0

IS YOUR PREFERRED CONTACT METHOD BY MAIL OR E-MAIL?

☐ Mail ☒ E-Mail (list address)

Tick which of the following describes the applicant:

- ☐ an individual or sole trader
- ☐ an individual as trustee
- ☐ a corporation
- ☐ a corporation as trustee
- ☐ a partnership
- ☐ an incorporated association
- ☒ other Moreton Bay Regional Council

2. The applicant is the registered legal entity (not a business trading name) intending to carry out the activity and in whose name the

2. Registered legal entity details

If acting on behalf of a legal entity please provide details of the legal entity.

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relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the registered business address of the company making the application and cannot be a post office box.

Enter the Australian Company Number (ACN) or Australian Business Number (ABN) of the incorporated company or the Association Number (AN) of the incorporated association; or the title and section of the legislation that gives the statutory corporation its legal status.

REGISTERED LEGAL ENTITY NAME
Moreton Bay Regional Council

TRADING NAME (IF APPLICABLE)

REGISTERED ADDRESS	POST CODE
2 Hasking Street, Caboolture, QLD	4510

TELEPHONE
(07) 3205 0555

FASCIMILE

MOBILE

E-MAIL ADDRESS
mbrc@moretonbay.qld.gov.au

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)	POST CODE
AS ABOVE	0

ACN/ABN/AN OR TITLE AND SECTION OF LEGISLATION
92 967 232 136

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3. Authorised signatory

3. Authorised signatory

The authorised signatory is the person authorised to sign an application on behalf of a corporation or other entity and in doing so declares that the corporation or other entity will be bound by the conditions associated with the granting of the licence or permit.

Do not sign here. The signature block is on page 8.

AUTHORISED SIGNATORY FULL NAME	TITLE
Damien McMahon	Manager

POSITION IN CORPORATION
Manager Engineering Construction and Maintenance

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4. If you are making an application in relation to an existing permit please provide the details here.

4. Applications relating to existing permits

a) Permit details

PERMIT NUMBER	PERMIT EXPIRY DATE
	/ /

A signed and dated declaration made by the current principle holder requesting the transfer must be attached. The declaration must indicate a willingness to transfer the permit to the applicant (as indicated in Questions 1and 2) include the permit number and the date when the transfer is to take place.

b) Are you applying to transfer this permit? ☐ Yes ☒ No

A signed and dated declaration made by the current principle holder requesting the transfer must be attached.

c) Are any changes to the permit required? ☐ Yes ☒ No

Give a brief description of the change required.

IF YES, please give details in the space provided

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5. Applicant suitability

A permit may be issued if the applicant is considered a suitable person as prescribed under either section 11(1) and Schedule 5 of the *Marine Parks Regulation 2006* or *Recreation Areas Management Act 2006*.

In the last 3 years have you or an associated person [a]:

Please provide any relevant details in the box below

a) held or been a party to any of the following permits or authorities which has been suspended or cancelled: - a commercial activity agreement or similar agreement in Queensland or another state or country - a protected area authority [b] (including a commercial activity permit) - a similar or relevant authority in another state or country	☐ YES ☒ NO

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b) owed any amount payable under the *Marine Parks Act 2004* that is still outstanding .	☐ YES ☒ NO
c) been convicted of an offence against any of the following: - *Marine Parks Act 2004* - *Nature Conservation Act 1992* - *Recreation Areas Management Act 2006* - *Forestry Act 1959* - *Animal Care and Protection Act 2001* - an offence relating to wildlife under another Act - an offence in another state or country	☐ YES ☒ NO
DETAILS	

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[a] ***associated person***, means,—
(a) if the applicant is a corporation—each executive officer of the corporation; or
(a) if the applicant is not a corporation, a person who—
(i) is regularly or usually in charge of the applicant's business; or
(ii) regularly directs or will regularly direct staff of the applicant's business in their duties or proposed activity or business.
(iii) is, or will be, in a position to control or substantially influence the activity or business, or proposed activity or business.

[b] ***a protected area authority*** includes a permit to take, use, keep or interfere with cultural or natural resources, an apiary permit, an aboriginal tradition authority, an Island custom authority, camping permit, restricted access area permit, stock grazing permit, stock mustering permit, travelling stock permit, permit to enter a national park (scientific), commercial activity permit, permit to solicit donations or information, group activity permit, permit to use recreational craft or special activity permit.

6. Applications should be submitted at least 3 MONTHS prior to the start of the activity to allow processing and assessment time.

6. New project details

a) Pre-lodgement meeting

Have you attended a pre-lodgement meeting or previously discussed your proposals with DNPRSR? If yes, please provide details

QPWS OFFICER NAME AND DATE OF MEETING

b) Specify the term of the new permit

The dates you intend to be on the nominated area.

DATE FROM	DATE TO (INCLUSIVE)
2 years	

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Select an activity that best describes your proposal.

c) Select an activity that best describes your proposal:

- ☐ Aquaculture
- ☐ Aquatic events (e.g. regatta, boats race, ocean swimming event)
- ☐ Commercial collecting (e.g. aquarium fish)
- ☐ Filming & photography (involving use of structures, pyrotechnics or exclusive use of the marine park)
- ☐ Harvest fisheries
- ☐ Media activity
- ☐ Operate a facility
- ☐ Operating an aircraft
- ☐ Research or education
- ☐ Tourist program
- ☒ Works (inc. dredging and/or spoil disposal, pontoons, rock walls)
- ☐ Other

Provide a brief description of the proposed activity.

A full description of the proposed activity addressing the relevant assessment criteria should be provided in a statement and attached to this application form. See Question 9 and Question 10

d) General description

The proposal includes the demolition of an existing seawall along the Toorbul forshore area and the construction of a new 75 m long step seawall 1.5m in height.

The number of people you intend to bring in to the nominated area.

e) Numbers

STAFF	ASSITANTS	PASSENGERS
TBC		

List each location within the marine park that will be visited, including an indication of the number, frequency and duration of the proposed visits to each site.

Attach a detailed map showing the point of entry, locations to be visited and routes of travel within the marine park.

Details of the zones in each marine park are available on the DNPRSR web site.

(g) Locations

LOCATIONS	MARINE PARK ZONE	NUMBER/FREQUENCY/DURATION
See attached plans		

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7. Moorings

For Great Barrier Reef Coast Marine Park applications, if you intend to install and/or operate a mooring provide the details here. Coordinates and mooring identification numbers must be provided for each mooring. Identification numbers must be marked on the map of locations (see Question 6 above).

Location of mooring(s)	Mooring identification number	GPS coordinates & datum	Number of moorings	Type of mooring(s) – fore and aft, or single point

8. Transport

Provide details of all vessels, aircraft or other proposed means of transport to be used here. A current copy of the vessel/s registration certificate must be attached to this application.

VESSEL / AIRCRAFT NAME	DESCRIPTION (TYPE, COLOUR)	LENGTH	SURVEY / REGISTRATION NUMBER*	SURVEYED PASSENGER CAPACITY	MAXIMUM NUMBER OF PEOPLE YOU INTEND TO CARRY		USUAL HOME PORT OR AIRCRAFT DEPARTURE POINT
					CREW	PASSENGERS	

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9. Activity statement and additional information

It is important that you provide sufficient information for your application to be properly assessed. An authority can not be granted if insufficient information is provided.

Attach a statement which addresses each of the following in relation to your proposal:

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- Potential conflicts with other marine park users and how they will be addressed
- Safety issues identified and how these will be addressed
- Research proposals including an explanation of the experimental design and methods of analysis to be used in the research
- Any take or disturbance of natural or cultural resources (including its purpose and details of the number, quantity and description of any specimens or samples to be taken)
- Potential environmental impacts including processes undertaken to identify the impacts and steps taken to prevent, mitigate and monitor impacts
- Equipment to be used in the marine park
- Consultation undertaken (including State government agencies, public consultation or targeted consultation with community groups, traditional owners, conservation groups and other interested parties)
- Other permits required for the activity, for example scientific purposes permits, ethics committee approvals, commercial activity permits

10. Application assessment

Your application will be assessed against a range of matters required by the relevant legislation including:

- the potential impact on the environment and on the cultural resources of the marine park
- options for monitoring, managing and mitigating the potential impact of the proposed conduct on the environment and on the cultural resources of the marine park
- the objectives of the area as set out in the zoning plan
- any written submissions received about the application in response to the public consultation
- any other matters relevant to the orderly and proper management of the marine park
- the effect on public appreciation, understanding, and enjoyment of the marine park
- the potential impact on other users of the marine park
- any relevant policy or guideline
- if the application relates to an undeveloped project the cost of which will be large—the capacity of the applicant to satisfactorily develop and manage the project
- if the application is for an activity that requires another authority, including an approval under a law of the Commonwealth or another State—whether the approval has been (or is likely to be) granted and the terms and conditions of that authority
- any relevant agreement, code, instrument, protocol or standard
- any relevant law of the State or of the Commonwealth
- any relevant management plan under the *Marine Parks Act 2004* or another act, applying to the marine park or an area within or adjacent to the marine park
- a coastal plan under the *Coastal Protection and Management Act 1995* applying to the coastal zone under that Act that is within or adjacent to the marine park
- any relevant recovery plan, wildlife conservation plan, threat abatement plan or approved conservation advice under the *Environment Protection and Biodiversity Conservation Act 1999* (Cwlth), or any conservation plan under the *Nature Conservation Act 1992*
- whether the applicant is a suitable person to hold the permission;
- the likely cumulative effect of use on a marine park
- any other instrument or matters relevant to achieving the purpose of the *Marine Parks Act 2004*

For further information please refer to the *Marine Parks Act 2004* and *Marine Parks Regulations 2006*

Please provide additional information not already provided that will assist in assessing your application as part of your activity statement.

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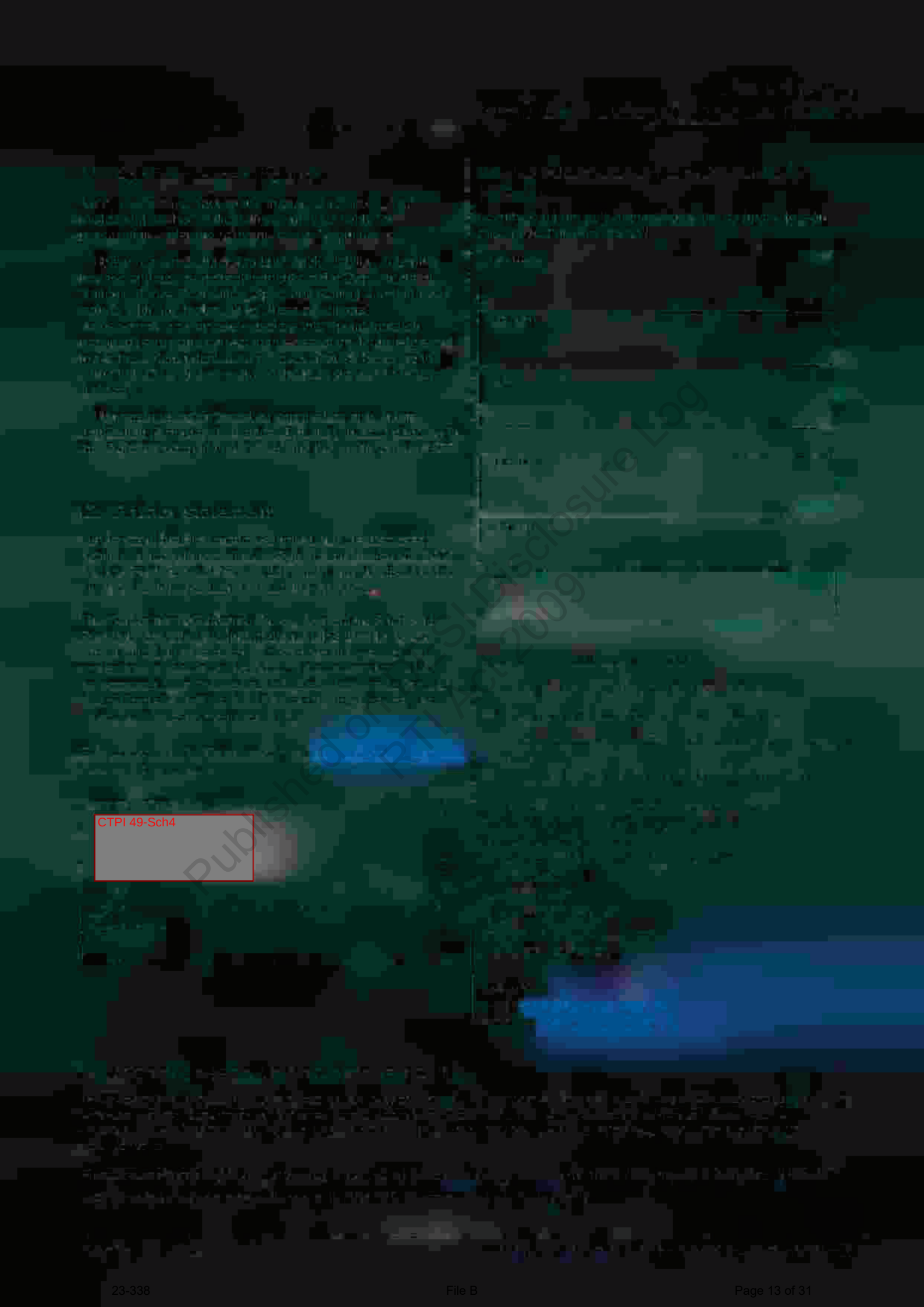
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PTI Act 2009

Attachment 2

Plans of Development

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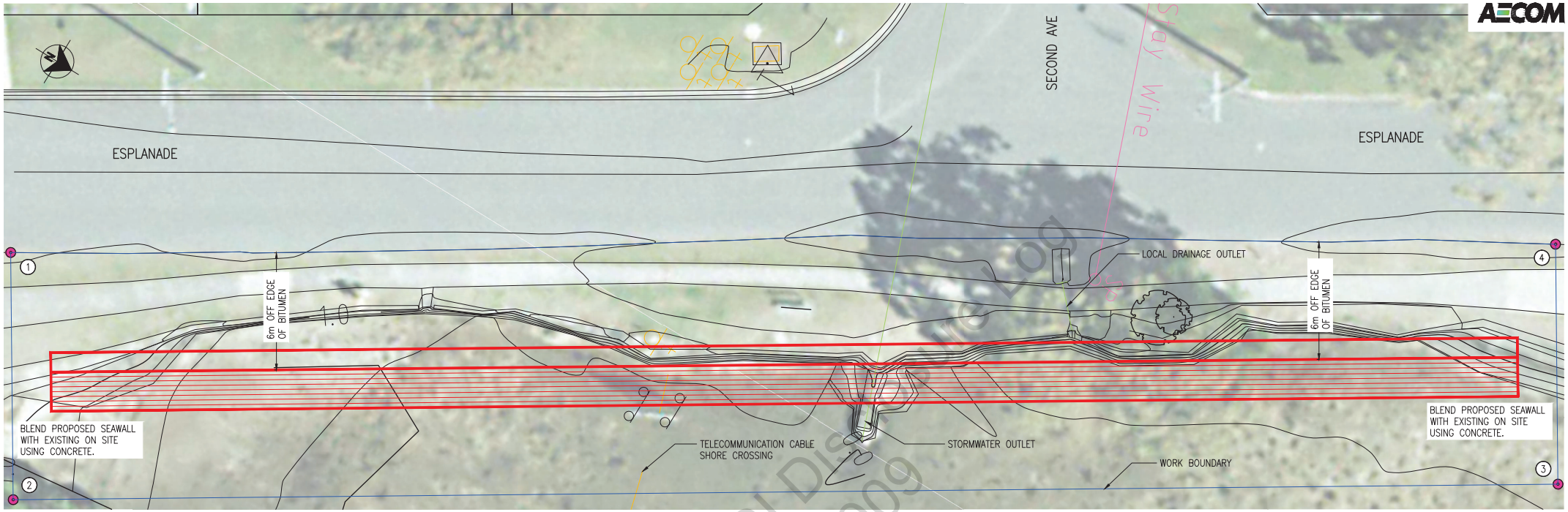
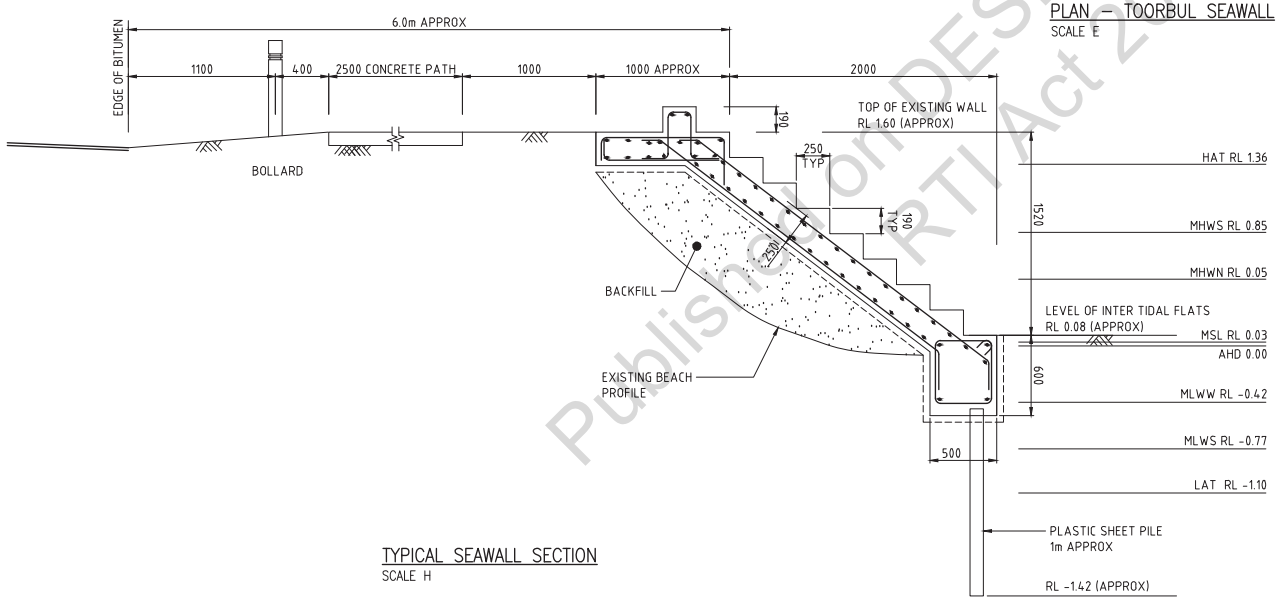


PLAN – TOORBUL SEAWALL
SCALE E



TYPICAL SEAWALL SECTION
SCALE H

WORK BOUNDARY POINTS

POINT No.	COORDINATES	
	EASTING	NORTHING
1	510014.243	7009831.124
2	510024.951	7009837.844
3	509982.963	7009904.749
4	509972.564	7009898.223

TIDE LEVELS (AHD DATUM)	
HAT	+1.36
MHWS	+0.85
MHWN	+0.50
MSL	+0.03
AHD	0.00
MLWW	-0.42
MLWS	-0.77
LAT	-1.10

NOTE:

1. VERTICAL DATUM – AUSTRALIAN HEIGHT DATUM (AHD) 1.10m ABOVE LOWEST ASTRONOMICAL TIDE
2. ANTI–SLIP SURFACE TO BE APPLIED TO TREADS.

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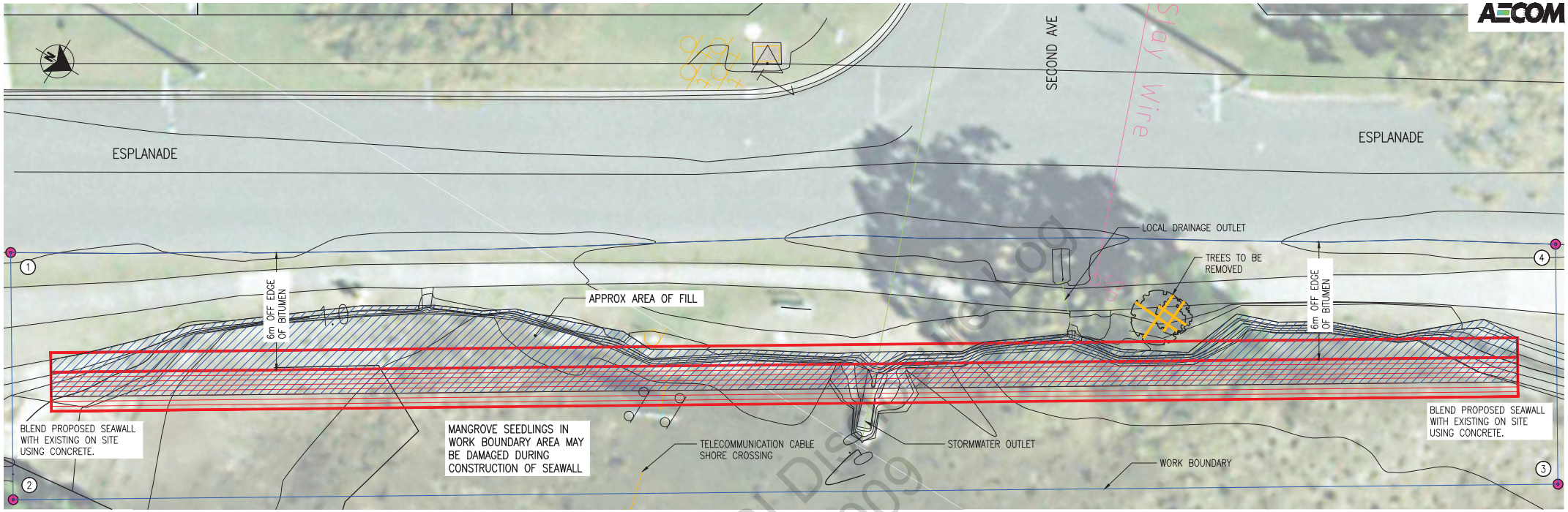
SCALE E 0 1 2 3 4 5m
1:200 (A3) 1:100 (A1)

NOT FOR CONSTRUCTION

60311460
REV 2
7-Feb-14

TOORBUL SEAWALL
CONCEPT LAYOUT

60311460-SK-001



PLAN – TOORBUL SEAWALL
SCALE E

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NOTE:

1. VERTICAL DATUM – AUSTRALIAN HEIGHT DATUM (AHD) 1.10m ABOVE LOWEST ASTRONOMICAL TIDE

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60311460
REV 1
20-Dec-13

NOT FOR CONSTRUCTION

TOORBUL SEAWALL
CONCEPT PLAN

60311460-SK-002

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RECLAMATION PLAN – TOORBUL SEAWALL
SCALE E

LEGEND:

- PROPOSED RECLAMATION AREA (136m²)
- EXISTING HIGH WATER MARK (MHWS – MEAN HIGH WATER SPRINGS = +0.85)
- PROPOSED HIGH WATER MARK (MHWS – MEAN HIGH WATER SPRINGS = +0.85)

NOTE:

1. VERTICAL DATUM – AUSTRALIAN HEIGHT DATUM (AHD) 1.10m ABOVE LOWEST ASTRONOMICAL TIDE

WORK BOUNDARY POINTS

POINT No.	COORDINATES	
	EASTING	NORTHING
1	510014.243	7009831.124
2	510024.951	7009837.844
3	509982.963	7009904.749
4	509972.564	7009898.223

SCALE E 0 1 2 3 4 5m
1 : 200 (A3) 1 : 100 (A1)

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60311460
REV 1
7-Feb-14

NOT FOR CONSTRUCTION

TOORBUL SEAWALL
RECLAMATION PLAN

60311460-SK-003

Attachment 3

Landscape Master Plan

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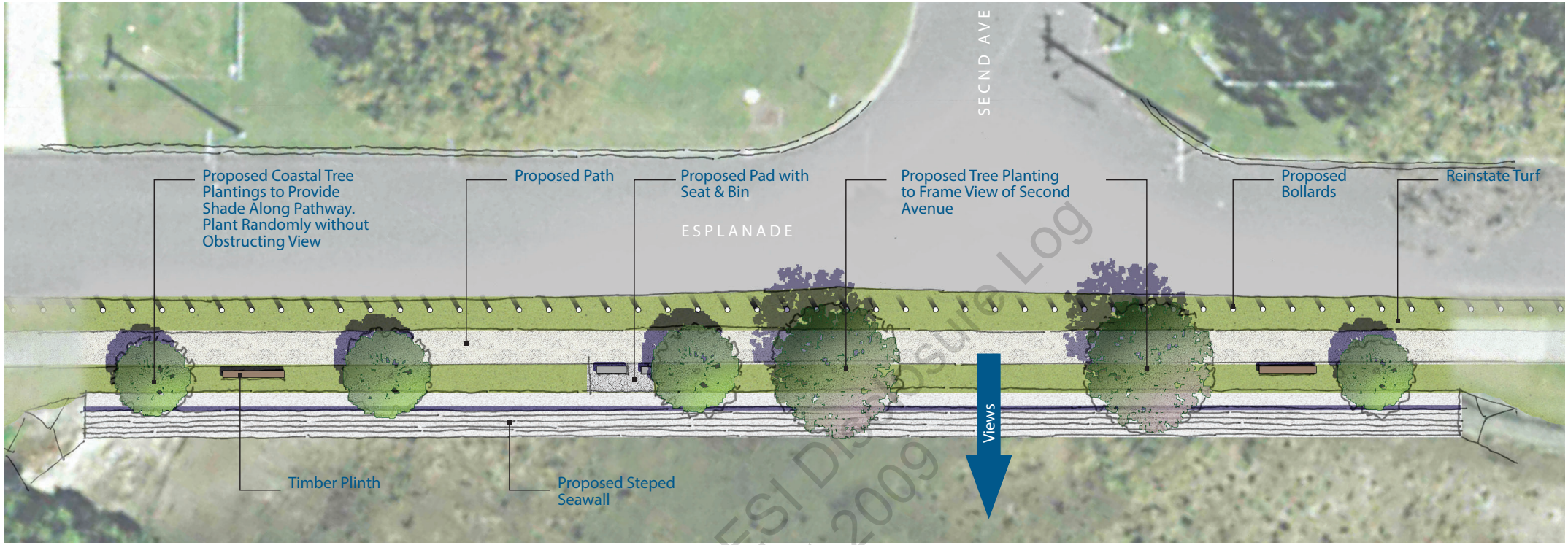

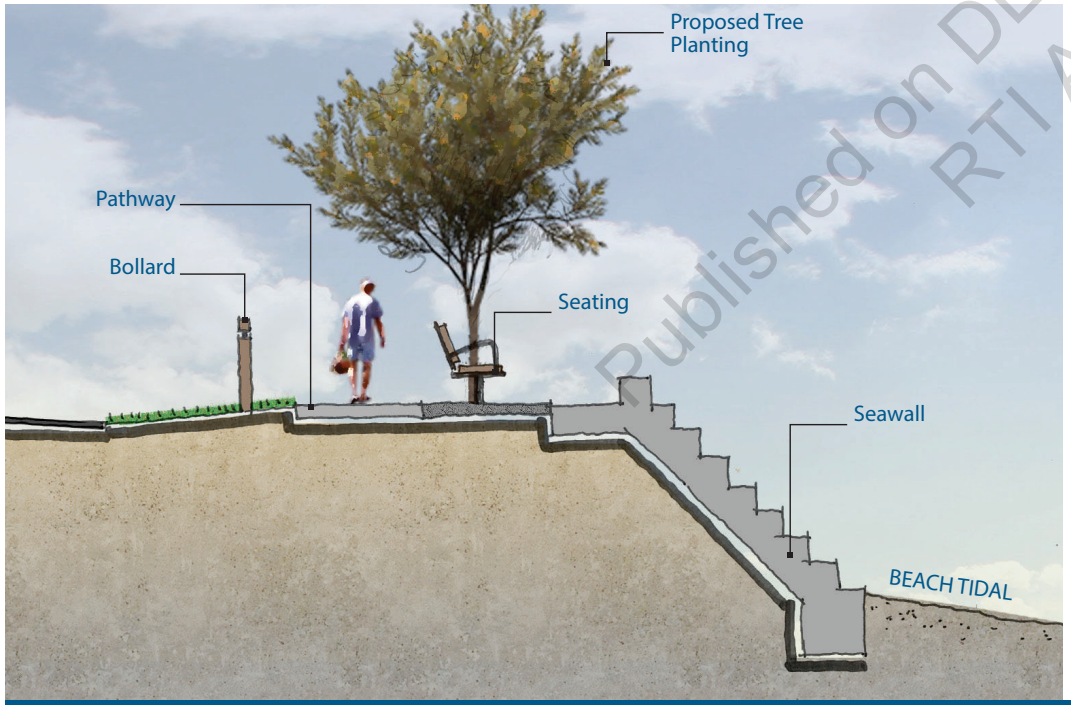

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Auzcon Pty Ltd
SOLUTIONS FOR INDUSTRY

Site Based Management Plan (SBMP) - Spinnaker Point

Marine Parks Permit no MPW2013/MBMP0014

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1.2 Background
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3. APPLICABLE ENVIRONMENTAL LEGISLATION

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4.2 Quality of sand placed within the Marine Park
4.3 Public Access
4.4 Acid Sulphate Soils
4.5 Management of Tidal flow, Stormwater and Sediment control
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4.7 Flora and fauna
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4.9 Traffic and public amenity
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4.12 Noise

5. **MONITORING**
6. **INCIDENT MANAGEMENT PLAN**
7. **MANAGEMENT**

1 INTRODUCTION

1.1 SBMP MANAGEMENT CONTACT DETAIL

Contract Name: **Spinnaker Point Park Foreshore works**	***Contract No:*** **MBRC002837**
Site Address: **Spinnaker Drive, Spinnaker Point.** **Permit Area :- In Conservation Zone adjacent Lot 2 on RP174232, Spinnaker Sound Park, Bribie Island**	
Client **Moreton Bay Regional Council**	
Contact person for Client **Noel McBride tel:- 07 3480 6879**	
Principal Contractor **Auzcon Pty Ltd**	
Contact person for contractor CTPI 49-Sch4	
Site Based Management Plan prepared by CTPI 49-Sch4	**Date :** **4 March 2013**

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1.2 BACKGROUND

Moreton bay Regional Council has engaged Auzcon Pty Ltd to construct the Spinnaker Point rock groyne and nourishment of the sand foreshore.

1.3 SCOPE

The SBMP is activated to ensure the commitments to environmental management are enforced and are carried out in accordance with the requirements of the ***Environmental Protection Act 1994,*** the conditions of the ***Prescribed Tidal Works Permit*** and to the conditions of the **Marine Parks permit**

The plan addresses the possibility of environmental damage or nuisance, resulting from the construction works undertaken by AUZCON Pty Ltd. The purpose of this plan is to analyse the construction procedure and identify all possible damage that may occur and to develop procedures to mitigate any adverse effect.

The SBMP will be updated during the works, as a result of additional data, better understanding of the various impact factors, or the opportunity to apply more effective measures.

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2 DESCRIPTION OF WORK

2.1 ROCK GROYNE CONSTRUCTION

Detailed specifications and plans are provided for the work under the Contract Documents.

The Rock Groyne construction is made up of the following elements:-

- **Installation of a temporary Vinyl sheet pile coffer dam around the toe of the proposed groyne.**
- **Removing of excess sand for the groyne foundation**
- **Importing rock**
- **Placing Elcomax 600R geo textile**
- **Placing of D50 300mm rock foundation**
- **Placing of D50 600 mm rock groyne**
- **Removal of existing wall.**
- **Removal of vinyl sheet piles**

The proposed foundation for the groyne is in the tidal zone and is separated from the rest of the marine park during the foundation construction by a vinyl sheet pile coffer dam. The sheet piles are installed around the toe of the proposed groyne. The vinyl sheet piles further into the water will be installed from a small barge. The vinyl sheet piles will be removed as soon as the foundation is placed.
During the period of rock importation, one crawler dumper will travel in the tidal zone, delivering rock from the slipway area to a temporary stockpile on the beach in front of the houses.

2.2 SAND NOURISHMENT

Sand will be supplied from outside sources and/or dredged from the groyne foundation and from sand deposits near the slipway. The sand will be pumped to the required locations by moving the delivery pipe to the different locations.

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3 APPLICABLE ENVIRONMENTAL LEGISLATION

3.1 RELEVANT LEGISLATION

3.1.1 Environmental Protection Act 1994

Section 319 of the *Environmental Protection Act 1994* requires that a person must not carry out any activity that may cause, or is likely to cause, environmental harm. Where an activity is necessary, the person that carries out the activity must take all reasonable and practical measures to prevent or to minimise the harm.

Section 320 of the act states that all persons that becomes aware that harm to the environment is caused or threatened by their or someone else's actions during an activity must take steps to inform their employer of the event and the employer must advise DERM in writing

3.1.2 Environment Protection Policy 2009

The objective of *the Environmental Protection Policy 2009* is to protect Queensland water environment according the principles of ecologically sustainable development established in the *Environmental Protection Act 1994.*
A list of additional relevant legislation to consider is:-

- Coastal Protection and Management act 1995
- Coastal Protection and Management Regulations 2003

3.1.3 Department of National Parks, Recreation, Sport and Racing

- Marine Parks Act 2004 (Section 49)
- Marine Parks Regulation 2006

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4 ENVIRONMENTAL ISSUES

4.1 DISTURBANCE TO ADJACENT AREA

The Groyne construction is carried out in the tidal zone. To protect the adjacent marine ecosystem we are installing a temporary vinyl sheet pile coffer dam to create a definite boundary between the groyne foot print and the rest of the park during groyne construction.

- **The sheet piles create a defined boundary during excavation**
- **When excavating for the foundation, no sand can flow in.**
- **Machines will move around within the cofferdam.**
- **Delivery of rock by crawler from the slipway along the sand beach at low tides.**
- **Haul route is shortest possible distance.**

4.2 QUALITY OF SAND PLACED WITHIN THE MARINE PARK

- **Sand sources will be tested by MBRC before any supply to site**
- **Control tests will be carried out after placement to ensure that the sand meets the specification.**

4.3 PUBLIC ACCESS

- **The construction site will be fenced off during construction.**
- **All temporary fences will be removed on completion of the works**

4.4 ACID SULFATE SOILS

- **The only excavation is about 1m deep in the groyne foundation**
- **This excavation will only be in sand. Should any acid sulphate soils be encountered, these soils will be removed from site to a licenced landfill.**

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4.5 MANAGEMENT OF TIDAL FLOW , STORMWATER AND SEDIMENT CONTROL

Stormwater

- **There are no stormwater outlets. Only minimal flow from adjacent grassed area.**
- **Machinery only move on the beach sand and will not create any silt runoff**

Tidal Flow

- **Tides will flow into the groyne excavation.**
- **The excavation will always be flooded to the same sea level.**
- **Any turbulence created will be contained by the coffer dam**

4.6 AIR QUALITY

Exhaust gas pollution.

- **Minimal plant is required for this work. Only one excavator and crawler for the duration of work.**
- **We will remove any machine off site if emissions are other than normal.**

Dust pollution

- **Works is on a sand environment. No dust should be created.**

4.7 FLORA AND FAUNA

There is no marine vegetation or noticeable marine life in the construction zone

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4.8 SOCIAL ENVIRONMENT

The work site is located within the Spinnaker Point Park. It fronted houses. Houses are within 30m of the work site.

Potential Impact	**Mitigating Safeguards**
Untidy site	Sturdy and neat hard fence to be provided on the perimeter of the works. High activity areas screened off. All signs to be new, clean and properly secured Housekeeping to be impeccable – all materials not incorporated in the works to be neatly stacked, stockpiled. All waste to be stored in bins and remove weekly. Machinery parked in an orderly way, especially during off periods.
Complaints	Establish and maintain a complaints management system. Record any complaint received, noting the date, time, location and reason for the complaint. Note what response was implemented and when.

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RTI Act 2009

4.9 TRAFFIC AND PUBLIC AMENITY

The site is located inside the Spinnaker Point Park. A high level of control will be implemented to make sure no person is placed at risk during truck and equipment movement. Control will be by hard fencing and spotters for each machine while moving on the beach. Primary access will be from the Marina slipway and secondary access, if required, from a point just before the Bribie road bridge.

4.10 HERITAGE (including Native Title Lands or historic sites)

There are no monuments and plagues next to the work area.

4.11 WASTE MANAGEMENT

Minimal quantities of waste will be generated during the works. The waste is to be collected in lidded bins and regularly removed from site to designated disposal areas. No waste to enter the Bay.

Waste Management Actions	
Potential Impact	**Mitigating Safeguards**
Workers will generate general garbage and human waste.	Garbage containers with sealable lids will be used to contain general garbage and emptied weekly from site. A portable lavatory will be provided on site and serviced regularly by a licenced contractor.
Builders waste, rubble and spoil	Nil
Possible liquid spills	Liquids will be contained in appropriate sealed containers in lockable enclosures on suitable containment bunds. MSDS will be available on site for each product. Spill response equipment will be kept on site for use in the event of a spill.

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4.8 NOISE

Construction related noise will be generated during the construction period. Sources of noise will include operation of motorised plant, Pile driving, offloading of rock and general worker communication.

Noise Management Actions	
Potential Impact	**Mitigating Safeguards**
Noise exceeding health guidelines	All plant and equipment used on site will comply with EPA guidelines. Plant will not be left running when not used and where appropriate fitted with silencers' Employees to wear the appropriate PPE and specifically proper ear protection
Noise outside work hours	Construction to be limited to the hours between 7.00am and 5.30pm Monday to Friday. No work will be undertaken. On Sundays and Public holidays
Irritating noise – pile driving and offloading rock	*Liaise with immediate neighbours by advising periods of noise and possible set times of the noisy periods. In general the noise will be concentrated over a short period of time. For the pile driving 3 full days and for rock delivery 5 days x 4 hrs. per day.*

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5. MONITORING

Environmental Monitoring Check sheet

Date:-				
Issue	**Monitoring**	**yes**	**no**	**Action taken**
Air Quality	Dust created			
	Smoke pollution			
Water quality	Evidence of spills			
	Turbidity in water			
Flora and fauna	Tree drip lines obstructed			
Social environment	Hard fences in place			
	Gates closed			
	Signage as per management plan			
	High activity areas screened off			
	Machines clean			
	Equipment orderly stored			
	Litter laying around on site			
	Materials neatly stacked			
	Waste bins provided			
	Waste bins full			
	Complains received			
	Complaints register incidents closed out			
Pedestrian Traffic	Public wandered into work place			
	Signs in place			
	Controllers used with vehicle entry			
Vehicle Traffic	TMP current			
	Rutting damage to access road			
Heritage				
Noise	Working only during designated work periods			
	Excessive noise created			
	Complains received			
General	Unresolved complaints			

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6 INCIDENT MANAGEMENT PLAN

All environmental incidents need to be reported to the site supervisor – spillage of chemicals, sedimentation of waterways, and damage to flora/heritage items, fire, flooding, complaints, and traffic accident.

To manage the SBMP, AUZCON has in place

- SWMS – Environmental Hazards.
- EMP monitoring checklist
- Handling and Storing Hazardous Substances (Site Folder)
- MSDS information sheets on chemicals on site
- Fire extinguishers
- Traffic/Pedestrian Management Plan (Site Folder)
- Council emergency response number
- Police and ambulance response numbers

Emergency Contact Details – See Emergency Response Plan

7. MANAGEMENT

The person listed below are responsible to ensure the conduct of this project proceeds in accordance with the SBMP for the site.

- Principal Contractor – AUZCON Pty Ltd approves this document and ensures all his responsibilities are carried out as stated.
- Project Manager – ensures all due diligence is carried out for the project by ensuring the REF and SBMP are conducted in accordance with MBRC Policies
- Corporation policy and quality procedures.

CTPI 49-Sch4

Project Manager
Auzcon Pty Ltd

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