



Environmental Representative Monthly Report 19 - March 2019

Eden Breakwater Wharf Extension

5 April 2018

Level 31, 12 Creek St
Brisbane QLD 4000
Australia

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Synopsis

The Environmental Representative Report has been prepared to provide details of the actions and decisions on matters for which the Environmental Representative was responsible under the terms of the State Significant Infrastructure (SSI) Approval granted under the *Environmental Planning & Assessment Act 1979* for the Eden Breakwater Wharf Extension (the Project).

Specifically, this Report has been prepared to address the requirements in **Conditions A16(I)** of the Infrastructure Approval (SSI 7734).

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Project No: 301311-13734-EN-REP-0046 – Environmental Representative Monthly Report 19 - March 2019: Eden Breakwater Wharf Extension

Rev	Description	Author	Review	Advisian Approval	Date
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Table of Contents

1	Introduction	1
1.1	Purpose and Content of this Report	1
1.2	Project Description	2
1.3	Project Status.....	2
2	Review and Amendments to the CEMP or Approvals	3
2.1	CEMP amendments	3
3	Environmental Performance.....	4
3.1	Weekly Observations	4
4	Environmental Monitoring Summary	5
4.1	Noise and Vibration Monitoring.....	5
5	Environmental Incidents / Complaints	6

Tables

Table 3-1:	Weekly Environmental Observations.....	4
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Acronyms and Terms

Acronym/Term	Definition
BVSC	Bega Valley Shire Council
CEMP	Construction Environmental Management Plan
Consistency assessment	An assessment of whether a proposed activity for the purpose of the SSI is consistent with the terms of approval
Construction	<p>Includes all physical work required to construct the SSI, other than the following low impact work:</p> <ul style="list-style-type: none"> a. Survey works including carrying out general alignment survey, installing survey controls (including installation of global positioning system (GPS)), installing repeater stations, carrying out survey of existing and future utilities and building and road dilapidation surveys, and hydrographic survey; b. Background and/or baseline monitoring works; c. Investigations including investigative drilling and excavation; d. Establishment of ancillary facilities in approved locations or in locations meeting the criteria identified in Conditions A9 and Condition A11 of the approval including constructing ancillary facility access roads and providing utilities to the facility; e. Operation of ancillary facilities if the ER has determined the operational activities will have minimal impact on the environment and community; f. Minor clearing and relocation of native vegetation, as identified in the EIS/Submissions Report; g. Installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments; h. Relocation and connection of utilities where the relocation or connection does not present a significant risk to the environment as determined by the ER; i. Archaeological testing under the <i>Code of practice for archaeological investigation of Aboriginal objects in NSW</i> (DECCW 2010) or archaeological monitoring undertaken in association with [a]-[i] above to ensure that there is no impact on heritage items; j. Other activities determined by the ER to have minimal environmental impact which may include construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access; and



Acronym/Term	Definition
	<p>k. Maintenance of existing buildings and structures required to facilitate the carrying out of the SSI. However, where heritage items, or threatened species, populations or ecological communities (within the meaning of the EP&A Act) are affected or potentially affected by any low impact work, that work is construction, unless otherwise determined by the Secretary in consultation with OEH or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation). The low impact work described in this definition becomes construction with the approval of a Construction Environmental Management Plan.</p>
DoEE	Commonwealth Department of the Environment and Energy
DP&E	NSW Department of Planning and Environment
DPI – Fisheries	NSW Department of Primary Industries – Fisheries
Dumping Activities	<p>Defined in the Sea Dumping Permit Variation as: <i>means all activities associated with the dumping permitted under this permit, including:</i></p> <ul style="list-style-type: none"> (i) <i>the loading for the purpose of dumping of dredged material;</i> (ii) <i>the dumping of the material at the prescribed disposal site</i>
EPA	Environmental Protection Agency
EPL	Environmental Protection Licence No 20942
ER	The Environmental Representative for the SSI
IMC	Intermediate Bulk Container
Incident	<p>An occurrence or set of circumstances that:</p> <ul style="list-style-type: none"> ▪ Causes, or threatens to cause, material harm to the environment, community or any member of the community, being actual or potential harm to the health or safety of human beings or to threatened species, endangered ecological communities or ecosystems that is not trivial; or ▪ Results in non-compliance with the approval. <p><i>Note: this meaning of “material harm” applies for the purpose of the approval only</i></p>
Marine Species	Means all whales, dolphins and marine turtles listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i>
MMO	Marine Mammal Observer
Monitoring zone	The area within a 300-metre radius of the (dredging disposal) vessel



Acronym/Term	Definition
Observation zone	<ul style="list-style-type: none"> ▪ During September, October and November a horizontal radius determined from the piling equipment of 2.2 kilometres ▪ During January, February, March, April, May, June, July August and December a horizontal radius determined from the piling equipment of 1.5 kilometres
Proponent	The person identified as such in Schedule 1 of the SSI approval and any other person carrying out any part of the SSI from time to time
Sea Dumping Permit Variation	Sea Dumping Permit (SD2015/3102) Variation issued by DoEE under the <i>Environment Protection (Sea Dumping) Act 1981</i> , dated 27 April 2017
Secretary	Secretary of the NSW Department of Planning and Environment (or nominee, whether nominated before or after the date in which the SSI approval was granted)
Sensitive receivers	Includes residences, educational institutions (including preschools, schools, universities, TAFE colleges), health care facilities (including nursing homes, hospitals), religious facilities (including churches), child care centres, passive recreation areas (including outdoor grounds used for teaching), active recreation areas (including parks and sports grounds), commercial premises (including film and television studios, research facilities ,entertainment spaces, temporary accommodation such as caravan parks and camping grounds, restaurants, office premises, retail spaces and industrial premises), and others as identified by the Secretary
Shut-down zone	<ul style="list-style-type: none"> ▪ During September, October and November a horizontal radius determined from the piling equipment of 1.3 kilometres ▪ During January, February, March, April, May, June, July August and December a horizontal radius determined from the piling equipment of 1 kilometre
SO ₂	Sulphur dioxide
SSI	The State Significant Infrastructure, as generally described in Schedule 1 (SSE 7734), the carrying out of which is approved under the terms of the approval
Whales	Species listed under the <i>Environment Protection Biodiversity Conservation Act 1999</i> (EPBC Act)

1 Introduction

The Eden Breakwater Wharf Extension Project (the Project) includes the extension of the existing Eden Breakwater Wharf and associated dredging.

The Infrastructure Approval (SSI Approval No. 7734) was granted for the Project by the Executive Director, Priority Projects Assessment (as delegate of the Minister for Planning) on 5 July 2017. A Modification Request was submitted on 4 July 2018 and formally approved on 7 November 2018. A consolidated Instrument was received on 7 November 2018.

The Construction Environmental Management Plan (CEMP) and CEMP Sub-plans have been prepared, approved by the Secretary of the Department of Planning and Environment (the DP&E) on the 22 August 2017, and implemented. Revised CEMP and CEMP Sub-plans relevant to Stage 2¹ of the Project were prepared and subsequently approved by DP&E on 28 February 2018.

This Environmental Representative (ER) Report (Report) addresses **Condition A16(I)** of the Infrastructure Approval. This Report provides an update on the environmental and social performance of the Project's construction.

1.1 Purpose and Content of this Report

Condition A16(I) of the Infrastructure Approval requires an ER Report to be prepared and submitted to the Secretary for information each month. This will be submitted within seven days following the end of each month for the duration of Construction of the Project or as otherwise negotiated with the Secretary. The report details the actions and decisions on matters for which the ER was responsible in the preceding month.

Further, **Condition C16** requires the results of the Construction Monitoring Programs be submitted to the Secretary and relevant regulatory agencies, for information at the frequency identified in the relevant Construction Monitoring Program. As these reports will be monthly, relevant information will be contained and submitted along with this report.

Construction of Stage 1 commenced on 4 September 2017, as marked by the arrival of the tugs, split-hopper barges and the dredge. Construction of Stage 2 commenced on 13 April 2018, as marked by the commencement of survey for scour protection removal in anticipation of pile installation. This report covers construction activities from 1 March 2019 to 31 March 2019.

¹ Stage 2 is outlined in the Project Staging Report (Advisian 2017, as submitted to the Secretary 24 July 2017 in accordance with **Condition A37** of the Infrastructure Approval)



1.2 Project Description

The Project is located in Snug Cove, Eden, New South Wales and comprises the extension of the existing Eden Breakwater Wharf and dredging of the approach channel and berth pocket with offshore disposal, to accommodate the berthing of cruise ships of up to 325m in length.

Key features of the Project include:

- Extension of the existing wharf by approximately 95m, including 78 piles to support the extension
- Installation of three mooring dolphins and two berthing dolphins, including 30 piles
- Installation of new landside bollards to restrain the ship's bow, including 18 piles
- Dredging of 210,148m³ of in-situ material (including over-dredging allowance)
- Transport and placement of the dredge material at an offshore disposal site
- Installation of minor services (lighting, power, potable water and emergency water)
- Installation of navigational aids.

1.3 Project Status

During the period covered by this report (1 March 2019 to 31 March 2019), the following key activities were undertaken, and milestones achieved:

- Additional on-driving of onshore bollard 1 pile completed and rock sockets poured
- The last dolphin jacket was installed and all five jackets grouted
- Wharf furniture installation is ongoing
- Electrical and hydraulic services Installation is ongoing
- Sector light installed
- Site demobilisation commenced

The Operation Environmental Management Plans (OEMP), OEMP Sub-plans for Noise, Air Quality and Traffic, Transport and Access are currently have been prepared, reviewed by the DP&E and are currently being updated. In addition, the Pre-Operational Compliance Report and Operational Compliance Tracking Program have also been prepared.



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Environmental Representative
Monthly Report 19 - March 2019**
Eden Breakwater Wharf Extension



2 Review and Amendments to the CEMP or Approvals

2.1 CEMP amendments

The CEMP and CEMP Sub-plans for Stage 1 of the Project were formally approved by the Secretary on 22 August 2017.

The CEMP and CEMP Sub-plans for Stage 2 of the Project were prepared and submitted to DP&E for approval. The CEMP and CEMP Sub-plans were approved by the Secretary on 28 February 2018.

During the period covered by this report, there were no reviews or minor amendments made to the CEMP and/or CEMP Sub-plans.



3 Environmental Performance

Environmental performance was measured through observation of construction activities and identification of continual improvement opportunities.

3.1 Weekly Observations

Table 3-1 provides a list of actions and close out from the weekly observations inspections and daily site visits.

Table 3-1: Weekly Environmental Observations

Date raised	Action identified	Action undertaken	Date closed
14-Feb-19	WWC to check if the IBC with "PRIMAL 1045" written on the sides actually contains PRIMAL 1045 and if no longer required, remove from site	IBC removed from site	14-Mar-19
22-Mar-19	Eyewash station to heave bottle replaced	New bottle installed	25-Mar-19
22-Mar-19	Concrete washout bund to be fixed	Bund reinstated with new plastic and sand bags	28-Mar-19



4 Environmental Monitoring Summary

Monitoring for Stage 2 activities included observations on aquatic ecology, water quality and air quality, and site-based monitoring for noise amenity and vibration. No observations have identified any adverse environmental impacts due to the Project.

During the piling activity for this reporting period, there were no sighting of marine mammals.

No water quality and/or air quality issues were identified during this reporting period.

4.1 Noise and Vibration Monitoring

Noise and vibration monitoring equipment was installed on the 27 April 2018 prior to the commencement of piling on the 28 April 2018. The vibration monitoring equipment was in place for two weeks and has now been removed, and noise monitoring equipment remain in place for the duration of piling to monitor any adverse impacts. The noise monitoring equipment was decommissioned on the 11 February 2019.

As a result of geological issues at onshore bollard 1, the piling rig was required to be remobilised on the 18 March 2019, to on-drive one raker pile. Piling was undertaken in accordance with the EPBC Act Referral conditions and lasted for approximately five minutes. Unfortunately, the piling was unsuccessful in achieving a seal and was required to be remobilised the following day (19 March 2019) to on-drive the pile a further 400mm. The piling lasted less than five minutes and achieve a sufficient seal to enable to rock socket to be poured.

As the noise monitoring equipment had been demobilised on the 11 February 2019, a handheld noise monitor was employed for both piling campaigns with the results replicating the maximum and $L_{Aeq\ 15min}$ results for the original pile driving on the 28 & 29 June and 4 July 2018. Sensitive receivers were notified in advance of the requirement for additional piling. There were no noise incidents or non-conformances raised during this reporting period.



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Environmental Representative
Monthly Report 19 - March 2019**
Eden Breakwater Wharf Extension



5 Environmental Incidents / Complaints

Zero environmental incidents have occurred during this reporting period.

Zero community complaints have been received regarding the Project.