



Environmental Representative Monthly Report 16 - December 2018

Eden Breakwater Wharf Extension

20 December 2018

Level 17, 141 Walker St
North Sydney NSW 2060
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-0042 – Environmental Representative Monthly Report 16 - December 2018: Eden Breakwater Wharf Extension

Rev	Description	Author	Review	Advisian Approval	Date
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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> <ol 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 December 2018 to 31 December 2018.

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 December 2018 to 31 December 2018), the following key activities were undertaken, and milestones achieved:

- On-site noise monitoring ongoing
- Two of five dolphin jackets installed
- Piling:
 - All 78 wharf piles have been driven to the required depth and capacity
 - nine of 18 onshore bollard piles completed
 - 18 dolphin piles installed
 - The navigation aid piling completed.
 - Trimming piles continues
- 21 headstock troughs have been installed.
- 228 of 240 deck planks have been Installed.
- Two of three in-situ deck pours have been completed
- One of three onshore bollard pile caps poured
- Anodes and pile jackets are being installed
- Wharf fender and bollard installation ongoing
- Electrical and water service installation commenced.



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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
30 Nov 18	Return cigarette butt bin to designated smoking area at the end of the existing wharf.	Cigarette butt bin and signage relocated to the end of the existing wharf.	8 Dec 18
8 Dec 18	General housekeeping to be improved prior to the Christmas break.	Housekeeping improvements undertaken on the 20-21 Dec 18.	21 Dec 18
8 Dec 18	Concrete waste bins to have excessive material removed and bins emptied prior to the Christmas break.	Bins emptied.	17 Dec 18
8 Dec 18	Waterway Constructions to confirm if there is an issue with Generator 510-025 and if so, implement the appropriate lock-out/isolation and out of service tags.	Isolated, tagged and removed from site.	13 Dec 18



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.

No piling activity occurred during this reporting period, therefore no Marine Mammal Observers (MMOs) were required and no monitoring was undertaken in line with the EPBC Act Referral Decision Notice conditions.

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 will remain in place for during of piling to monitor any adverse impacts. No noise or vibrations incidents or non-conformances have been raised during this reporting period.

A Piling Construction Noise Monitoring report will be prepared by ERM. The report will be prepared in accordance with the Noise and Vibration CEMP Sub-plan and will outline the results for the continuous monitoring period from 1 – 30 December 2018. The report will be provided in the next ER Report for the January 2019 reporting period.

It should be noted, based on the initial review of the continuous monitoring, there were no exceedances of the predicted noise levels outlined in the EIS and the Noise and Vibration CEMP Sub-plan for the Project.



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5 Environmental Incidents / Complaints

Zero environmental incidents occurred on the Project during this reporting period.

Zero community complaints have been received regarding the Project.