



Augusta Boat Harbour

Compliance Assessment Report (EPBC 2008/4506)

27 September 2011 to 27 September 2012

10 JANUARY 2013

Prepared for
Department of Transport
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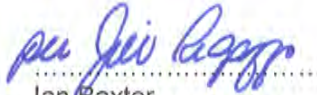


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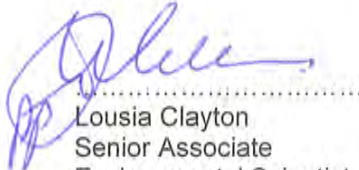


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Appendix A	EPBC 2008/4506 Approval Decision and Conditions
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Abbreviations

Abbreviation	Description
DEC	Department of Environment and Conservation
DoT	Department of Transport
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities
EP Act	<i>Environmental Protection Act 1986</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environmental Protection and Biodiversity Conservation Act 1999</i>
ha	Hectare
MNMP	Marine Noise Management Plan
OEC	Onshore Environmental Consultants
SREMP	Site Rehabilitation Environmental Management Plan

Executive Summary

In October 2008, the Shire of Augusta Margaret River (the Shire) submitted the Augusta Boat Harbour Proposal to Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) for assessment under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). The Shire was issued with an approval under the EPBC Act (EPBC 2008/4506) to construct a boating facility at Flat Rock, Augusta on 22 August 2011.

Under a management order of the Western Australian Department of Regional Development and Lands, the Augusta Boat Harbour reserve 51096 was established for its designated purpose of “Boat Launching Facility”, and proclaimed in January 2012. The Department of Transport (DoT) is the responsible agency to whom the care, control and management of the reserve lies. Therefore, the Shire transferred the ownership of the EPBC Approval (EPBC 2008/4506) to the DoT under Section 145B of the EPBC Act on 9 August 2012 (DSEWPaC 2012).

Under Condition 3 of EPBC 2008/4506, a compliance assessment report is required to be published on DoT’s website by 27 December each year. Condition 3 also requires DoT to report any non-compliance with any conditions of approval to DSEWPaC at the same time the compliance report is published. The compliance report addresses the status and compliance of the Augusta Boat Harbour Project against the conditions referred to in EPBC 2008/4506 for works carried out during the reporting period 27 September 2011 to 27 September 2012. Accordingly, this is the first compliance report to be prepared under EPBC 2008/4506 for the Augusta Boat Harbour Project.

DoT has complied with all conditions referred to in the EPBC 2008/4506 during the reporting period, as outlined within the Compliance Assessment Audit Table (Appendix B). The Compliance Assessment Audit Table includes reference to supporting evidence, where relevant.

Introduction

1.1 Background

The Augusta Boat Harbour is a State funded initiative to provide recreational and commercial boating facilities to the State's South West region. The project is community driven, arising from the need for a boating facility to provide safe navigation and mooring in the Southern Ocean waters off Augusta, Western Australia.

The Augusta Boat Harbour proposal was initially referred to the Environmental Protection Authority (EPA) under Part IV of the *Environmental Protection Act 1986* (EP Act) in accordance with Section 38(1) in October 2007, to determine the level of assessment required. In October 2008, the EPA set the level of assessment as "Not Assessed – Public Advice Given and Managed Under Part V of the EP Act".

In October 2008 the Augusta Boat Harbour proposal was referred to the Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) for approval under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). In November 2008, the proposal was deemed a controlled action under the EPBC Act, requiring assessment and approval under that Act.

The controlling provisions were identified as Listed Threatened Species and Communities (Sections 18 and 18a). Project approval was granted by DSEWPaC in August 2011 (EPBC 2008/4506), pending the approval of two management plans; the Site Rehabilitation Environmental Management Plan (SREMP) (OEC 2011) and Marine Noise Management Plan (MNMP) (Oceanica 2011). The original management plans were approved by DSEWPaC on 20 September 2011. More recently the SREMP has been revised to include an expansion to the site quarry. The SREMP has undergone two revisions since the original approval, including Version 11 which was approved by DSEWPaC on 23 November 2011, and Version 12, approved on 17 October 2012.

Following the approval of the project and the required management plans, construction of the boat harbour commenced on 27 September 2011. As required under EPBC Approval (EPBC2008/4506) Condition 1, the Proponent notified DSEWPaC within 30 days of the commencement of the action.

The Shire as the Proponent of the Augusta Boat Harbour Project at the time was issued with an approval under the EPBC Act (EPBC 2008/4506) to construct a boating facility at Flat Rock, Augusta on 22 August 2011. Under a management order of the Western Australian Department of Regional Development and Lands, the Augusta Boat Harbour Reserve 51096 was established for its designated purpose of "Boat Launching Facility", and proclaimed in January 2012. The Department of Transport (DoT) is the responsible agency to whom the care, control and management of the reserve lies. Therefore, the Shire transferred the ownership of the EPBC 2008/4506 to the DoT under Section 145B of the EPBC Act on 9 August 2012 (DSEWPaC 2012).

1.2 Purpose of This Document

This Report addresses the status and compliance of the Augusta Boat Harbour Project with the conditions referred to in EPBC 2008/4506 (Appendix A). Specifically, this compliance report has been prepared for the purpose of meeting the requirements of Condition 3 of EPBC 2008/4506.

Condition 3 of EPBC 2008/4506 requires DoT (as the Proponent) to submit a Compliance report by 27 December each year, addressing compliance against the conditions referred to in EPBC 2008/4506 for works carried out during the reporting period 27 September 2011 to

1 Introduction

27 September 2012, including implementation of any management plans as specified in the conditions.

The activities relating to the commitments of the MNMP were undertaken outside of the current reporting period. Therefore whilst the outcomes of the MNMP have been included, they relate to the next reporting period, and will be updated and reported on in the following 2012 / 2013 EPBC compliance report. Given the characteristics of the construction contract, the DoT considered it a priority to audit the MNMP,

1.3 Statutory Approvals

1.3.1 *Environmental Protection Act 1986*

As described in Section 1.1, the EPA set a level of assessment for the project as “Not Assessed – Public Advice Given and Managed Under Part V of the EP Act”. The Proponent is therefore not required to audit or report to the EPA.

1.3.2 *Clearing Permit (CPS 3990/2 Annual Reporting Requirements)*

The DoT was granted a clearing permit (CPS 3990/1) on 7 July 2011 from the DEC. DoT sought a new clearing permit, which superseded the initial clearing permit to reflect a slight modification to the disturbance footprint. A new amended permit was issued on 3 October 2011 (CPS 3990/2) which permitted the removal of 3.7 hectares (ha) of native vegetation over a period of five years. The approved clearing permit contains several conditions of approval such as record keeping and annual reporting.

The permit stipulates an annual written report is required before 30 June of each year for clearing activities undertaken at the Augusta Boat Harbour Site, covering the period January to December. The DoT submitted the first Clearing Permit Annual report accordingly on 29 June 2012.

1.3.3 *Environmental Protection and Biodiversity Conservation Act 1999 Requirements*

1.3.3.1 *EPBC Approval*

The Flat Rock Boating Facility was approved by the Commonwealth Minister for Sustainability, Environment, Water, Population and Communities on 22 August 2011 (EPBC 2008/4506).

In accordance with Condition 4 of the Approval (EPBC 2008/4506), if the Proponent wishes to carry out any activity otherwise than in accordance with the management plans, and as specified in the conditions, the Proponent must seek approval from the Minister. An approval was obtained by the Proponent to make a minor change to the Project footprint by expanding the existing quarry beyond the boundary of the Project. In accordance with the condition, a revised version of both the SREMP and the MNMP was submitted reflecting this change. DSEWPaC determined that the proposed change would not have any impact on matters of national environmental significance and a letter of approval was issued on 17 October 2012.

1 Introduction

1.3.3.2 Performance and Compliance Reporting

Condition 3 requires the preparation of compliance reports to address the status of implementation of management plans and evidence of compliance with the conditions of approval. This is the first performance and compliance report for the Project and as mentioned in Section 1.3.1, the report details the status of compliance with the conditions and commitments outlined in EPBC Approval EPBC2008/4506 that needs to be reported within three months of every 12 month anniversary of the action.

Current Status

2.1 Project description

DoT is the proponent and the organisation taking the action to construct and operate a boat harbour south of the Augusta town site, Western Australia. The harbour will service both the public and a small component of the commercial fishing industry, providing boat launching facilities, boat pens, tourist information and cafés/shops.

The Project will include the construction of two breakwaters. A unique feature of this Project is that the rock to build these breakwaters will be sourced from a quarry located on site.

Figure 2-1 shows the location of the Project, approximately five kilometres south of the town of Augusta.

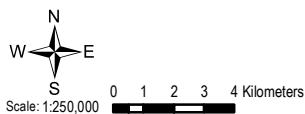
2.2 Current project activities

Onsite works for the Augusta Boat Harbour commenced on 27 September 2012. All works undertaken for the Project during the reporting period have been preliminary and / or temporary works associated with preparation for major construction activities. Works that occurred during the reporting period included:

- onshore geotechnical investigations
- vegetation has been cleared from site and used for brushing on rehabilitation areas
- topsoil has been stripped and placed in appropriate stockpiles
- overburden has been removed
- temporary construction office and infrastructure has been installed
- perimeter fencing has been established where appropriate
- rehabilitation has been completed, with the exception of minor works that will be undertaken upon completion of the project (removal of site office and viewing platform)
- DoT has handed over possession of the site to the quarry operator
- internal access road constructed from Leeuwin Road to the quarry area
- temporary rock revetment walls installed to protect access road
- public viewing area, project sign and temporary car park constructed
- temporary laydown area constructed.



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DEPARTMENT
OF
TRANSPORT

AUGUSTA BOAT HARBOUR

REGIONAL
LOCATION

Compliance

3.1 Compliance assessment method

An audit of the Augusta Boat Harbour site was conducted on 12 December 2012 to facilitate the assessment of compliance against EPBC 2008/4506 Approval Conditions and the implementation of required management plans (SREMP and MNMP). The audit was conducted by Arnica Di Lollo and Madolyn Morel of URS.

The following personnel were interviewed by URS during the site audit:

- Stephen Smith (DoT Project Manager);
- Peter Walker (DoT Site Supervisor); and
- James Della Bonna (WA Limestone / Italia Stone Construction Manager).

The terminology used during the site audit to define the level of compliance is listed below:

1. Compliant: Implementation of the proposal has been carried out in accordance with the requirements of the audit.
2. Not required at this stage: The requirements of the audit element were not triggered during the reporting period.
3. Partially non-compliant: Implementation of the proposal has been partially implemented, however has not been carried out in accordance with all of the requirements of the audit element.
4. Non-compliant: Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.

The information reviewed and the evidence obtained during this audit has been presented within the Compliance Assessment Audit Table (Appendix B), along with additional information gathered during a desktop study / investigation.

3.2 Summary Audit Table

Further details on compliance with the conditions and management plans are presented within the summary audit table (Table 3-1). Only relevant reference items have been included in the summary table and a comprehensive Compliance Assessment Audit Table is provided in Appendix B.

3 Compliance

Table 3-1 Summary Audit Table

Ref	Compliance Reference	Subject	Requirement	Status	Comments
1	EPBC Approval Instrument (EPBC2008/4506)	Notification of commencement	Within 30 days after commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.	Compliant	Letter from Oceanica on behalf of DoT dated 14 October 2011 to DSEWPaC, advising that works to implement the Augusta Boat Harbour commenced on 27 September 2011 at which time temporary fencing was installed around the designated site access road area.
2	EPBC Approval Instrument (EPBC2008/4506)	Maintenance of records	Maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plan required by this approval and make them available to DSEWPaC. May be subject to auditing by DSEWPaC.	Compliant / Not required at this stage	Accurate records are maintained and evidence provided in each annual compliance report, annual report for DEC clearing permits. No requests were made by DSEWPAC during the compliance assessment reporting period for records substantiating activities associated with, or relevant to, the conditions of approval.
3	EPBC Approval Instrument (EPBC2008/4506)	Compliance reporting	Within 3 months of every 12 month anniversary - a report must be published on the website addressing compliance with approval. Must include date of publication and non-compliance with any condition.	Compliant	This report is the first annual compliance report to be prepared under EPBC Statement No. 2008/4506. No non-compliances were recorded against any of the conditions of the approval EPBC 2008/4506.

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
4	EPBC Approval Instrument (EPBC2008/4506)	Revisions to Ministerial Deliverables	If DoT wish to carryout activates other than in management plans - must submit to DSEWPaC written approval and revised management plan.	Compliant	DoT submitted a revised version of SREMP which included the extension to the quarry, to the Minister (DSEWPaC) for approval on 7 September 2012. DoT was issued a notification of approval for the extension to the quarry on 17 October 2012. The amendments required for the MNMP were minor and therefore the plan did not require another revision. The SREMP has undergone two revisions since its original approval, including Version 11 which was approved by DSEWPaC on 23 November 2011, and Version 12, approved on 17 October 2012.
5	EPBC Approval Instrument (EPBC2008/4506)	Threatened species and communities	If minister believes it necessary for better protection of threatened species and communities, they may request revision of management plans.	Not required at this stage	No such requests were received by DoT during the compliance assessment reporting period.
6	EPBC Approval Instrument (EPBC2008/4506)	Commencement of action	If, work has not commenced within 5 years of approval issued, then the proponent must seek written approval from Minister.	Not required at this stage	Letter from Oceanica on behalf of DoT dated 14 October 2011 to DSEWPaC, advising that works to implement the Augusta Boat Harbour commenced on 27 September 2011 at which time temporary fencing was installed around the designated site access road area.

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
7	EPBC Approval Instrument (EPBC2008/4506)	Conservation of significant vegetation and rehabilitation	<p>Develop a SREMP to mitigate impact to <i>Kennedia Lateritia</i> must include:</p> <ul style="list-style-type: none"> • Overview of existing environment objectives • Clearing Protocols • Perimeter fencing / security of rehabilitation areas and existing locations of Augusta –Kennedia • Rehabilitation activities / program, including figs showing rehabilitation sites • Maintenance of site incl. vermin control, fire management, pest management and weed control • Timing and implementation of the above monitoring and reporting. 	Compliant	DoT in consultation with OEC developed the SREMP to address the criteria specified within the approval conditions. The original SREMP was submitted to DSEWPaC and approved on 20 September 2011, the most recent revision (Version 12), was approved by DSEWPaC on 17 October 2012.
8	EPBC Approval Instrument (EPBC2008/4506)	Ministerial deliverable	The SREMP must be submitted to and approved by the minister prior to construction commencing	Compliant	Both the MNMP and the original SREMP were approved by DSEWPaC 20 September 2011. First ground works commenced on 27 September 2011.
9	EPBC Approval Instrument (EPBC2008/4506)	Conservation of significant vegetation	Only 12 peppermint trees of 1.5 m or greater are to be cleared.	Compliant	Clearing of vegetation occurred on 5 October 2011. DEC WRP Clearing procedures were complied with. Letter report from Green Iguana confirms clearing of 12 peppermint trees (Report dated 26 October 2011).

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
10	EPBC Approval Instrument (EPBC2008/4506)	Conservation of marine fauna	Develop a MNMP that includes: <ul style="list-style-type: none"> • Exclusion Zone and mitigation measures during the months of April - November during blasting activities • Blasting time restrictions • Exclusion zones and mitigation measures during drilling, if breakwater has not been constructed prior to drilling commences drilling methodology • Post blast / drill fauna inspection reporting of dead fauna • Timing and implementation of above measure 	Compliant	DoT in consultation with Oceanica developed a MNMP to address the criteria specified within the approval conditions. The MNMP was submitted to DSEWPaC and approved on 20 September 2011.
11	EPBC Approval Instrument (EPBC2008/4506)	Ministerial deliverable	MNMP must be submitted and approved by the Minister prior to construction	Compliant	Both the MNMP and the initial SREMP were approved by DSEWPaC 20 September 2011. First ground works commenced on 27 September 2011.
12	EPBC Approval Instrument (EPBC2008/4506)	Publication of Ministerial Deliverables	Publish all management plans on the website within one month of being approved.	Compliant	Management plans are available on the DoT website (refer to link). Site Supervisor confirmed that management plans were available on the website within one month of approval, and that each revision of the management has also been made available, following approval by regulators. http://www.transport.wa.gov.au/imate/23469.asp

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
61	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Topsoil will be stockpiled to a maximum height of 1 m at the northern end of the quarry site (the final stage) surrounded by intact vegetation to minimise potential for weed infestation. Stockpile locations and volumes will be recorded and mapped, and stockpiles in the field will be signposted to allow easy differentiation of stripping dates.	Partially non-compliant	<p>OEC confirmed that additional topsoil recovered from the quarry expansion area was in accordance with the SREMP procedures. This has been utilised to create a bund wall around the perimeter of the laydown area to protect adjacent rehabilitation from prevailing south-east winds during summer months.</p> <p>Volumes of topsoil have been recorded and locations have been captured in aerial photography. The location of topsoil stockpiles was changed from the northern end of the quarry site, due to lack of available space and requirement to minimise the clearing footprint. Topsoil had been re-located to a single linear stockpile situated around the eastern perimeter of the 2012 rehabilitation block. The location provides a physical barrier to the prevailing south-east winds expected during summer months.</p> <p>OEC confirmed the maximum stockpile height was increased from 1 m to 2 m to benefit wind protection. Given the relatively long period of topsoil storage anticipated (mid-2014) the increase in stockpile height was not anticipated to have any detrimental impacts. It was seen as being preferential to off-site storage where the threat of contamination was higher.</p> <p>There was no signposting with dates for stockpiles in the field; it is noted that there is one topsoil, and one subsoil stockpile on site, and both are at separate locations and easily differentiated by height. The locations have been captured on maps, and site visitors and personnel are briefed on the location and purpose of the stockpiles.</p>
64	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Subsoil will be direct returned to prepared rehabilitation surfaces where ever possible, or stockpiled to less than 2 m in height at the northern end of the quarry site (within the final clearing stage).	Partially non-compliant	<p>During the site audit it was confirmed that subsoil was direct returned to prepared rehabilitation surfaces in 2012. However, subsoil stockpiles required for future use were stockpiled near the entry gate to the required height. It was seen as being preferential to store stockpiles off-site where the threat of contamination was higher.</p>

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
65	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Stockpile locations and volumes will be recorded and mapped, and stockpiles in the field will be signposted to allow easy differentiation of stripping dates.	Partially non-compliant	<p>During the site audit it was confirmed that subsoil was direct returned to prepared rehabilitation surfaces in 2012. However, subsoil stockpiles required for future use were stockpiled near the entry gate. Subsoil stripping dates, volumes and locations were captured by OEC.</p> <p>During the site audit (12 December 2012), it was determined that there stockpile locations were not signposted, however there is current only one subsoil stockpile located at the entry gate and this has been identified on a figure. Figure <i>AU1588-03-01_B-A3_Site Rehabilitation</i></p> <p><i>Topsoil Harvesting and Rehabilitation</i> provides a summary of topsoil locations and volumes within the site rehabilitation areas.</p>
68	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Native vegetation removed during clearing of the quarry site will be spread onto prepared surfaces within Rehabilitation Blocks 2a-2c, 4a, 4b and 6 to 10 mm depth using a Posi Track to minimise compaction, prior to surface scarification.	Partially non-compliant	<p>During the site audit, the Site Supervisor confirmed that a skid steer loader (Posi Track) and raked forks were used for scarification and to spread vegetation debris. Photographs are available demonstrating the use of the Posi Track for spreading the native vegetation for rehabilitation.</p> <p>The SREMP specifies native vegetation be spread to a depth of 10 mm with a Posi Track, however the contractor has opted for a higher standard depth of 100 mm to improve rehabilitation conditions.</p>

3 Compliance

Ref	Compliance Reference	Subject	Requirement	Status	Comments
82	Site Rehabilitation and Environmental Management Plan	Fire	The DoT will liaise with DEC to ensure that fuel loads within the adjacent National Park areas remain at acceptable levels during the early stages of rehabilitation development, and that any controlled burns undertaken account for the location and age of the rehabilitation at the Augusta Boat Harbour.	Partially non-complaint	<p>Liaison with the DEC regarding fuel loads within the adjacent National Park has not yet been undertaken. During the audit process the Project Manager advised that there are a number of matters that require discussion/reporting between the DoT and DEC including clearing permit reporting, conservation fence alignments and types, and fire management.</p> <p>The first phase of rehabilitation planting has been completed with a second phase scheduled for 2014. The second phase will include a replanting of the previous planted areas to replace lost stock in the establishment phase. DoT intends to liaise with the DEC on all these items throughout the construction phase with outcomes agreed prior to construction completion, when all plantings have been completed and the early stage of the overall rehabilitation establishment has commenced.</p> <p>OEC advised that following the Margaret River bushfires there has been a no-burn policy for the majority of WA and the likelihood of DEC agreeing to this commitment would need to be considered prior to action being implemented. This commitment is also subject to negotiation with DEC and consideration will need to be given to the potential for additional impacts, such as impacts to Threatened Flora and Western Ringtail Possums.</p>

3 Compliance

3.3 Reporting on instances of potential non-compliance

Condition 3 of EPBC 2008/4506 requires that the annual compliance report addresses compliance and non-compliance with the conditions of EPBC 2008/4506. There were no identified instances of non-compliance with EPBC 2008/4506 during the reporting period. The compliance status of all conditions is presented within the summary table above (Table 3-1).

There were minor instances of potential non-compliance within SREMP (summarised Table 3-1 above) relating to topsoil and subsoil management, management of fuel loads within the adjacent national park and dieback management.

Topsoil has not been stockpiled to the heights specified within the SREMP. The maximum topsoil stockpile height was increased from 1 m to 2 m to act as a wind bund, reducing the potential for wind erosion and impact to rehabilitation sites. Additionally, given the relatively long period of topsoil storage anticipated (mid-2014) the increased stockpile height was not expected to have any detrimental impacts to seed viability. This option was also seen as being preferential to off-site storage where the threat of contamination by weeds was higher.

The location of the topsoil stockpiles has changed from that specified within the SREMP, this was due to the lack of available space and a requirement to minimise the clearing footprint. Vegetation debris was spread using a Posi Track to a greater depth of 100 mm to improve rehabilitation conditions.

Liaison with the DEC regarding fuel loads within the adjacent National Park has not yet been undertaken, however following the Margaret River bushfires there has been a no-burn policy for the majority of WA and the likelihood of DEC agreeing to this commitment would need to be considered prior to action being implemented.

Given the characteristics of the construction contract, the DoT considered it a priority to audit the MNMP. The Proponent has demonstrated compliance with all of the commitments listed within the MNMP, however the activities relating to the implementation of the MNMP were undertaken outside of the current reporting period. Therefore whilst the outcomes of the MNMP have been included, they relate to the next reporting period.

Public Availability of the Report

In accordance with Condition 3 of EPBC 2008/4506 DoT must publish an annual compliance report on the DoT website by 27 December of each year following the commencement of the project. Accordingly, this is the inaugural compliance report addressing compliance with EPBC 2008/4506 to be added to the DoT website.

A copy of the most recent compliance report will be placed on the DoT website until the subsequent annual compliance report is placed on the website.

References

DSEWPaC 2011. *Approval Flat Rock Boating Facility, Augusta, WA (EPBC2008/4506)*. Department of Sustainability, Environment, Water, Population and Communities.

DSEWPaC 2012. *Notice of Transfer of Approval. Flat Rock Boating Facility, Augusta, WA (EPBC 2008/4506)*. Dated 9 August 2012. Department of Sustainability, Environment, Water, Population and Communities.

OEC 2012. *Augusta Boat Harbour, Site Rehabilitation and Environmental Management Plan (SREMP)*. Prepared for Department of Transport by Onshore Environmental Consultants Pty Ltd.

Oceanica 2011. *Augusta Boat Harbour, Marine Noise Management Plan*. Prepared for Shire of Augusta-Margaret River by Oceanica Consultants Pty Ltd, Report No. 458_004/1.

6 Limitations

6

Limitations

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Except as specifically stated in this section, URS does not authorise the use of this Report by any third party.

It is the responsibility of third parties to independently make inquiries or seek advice in relation to their particular requirements and proposed use of the site.

Appendix A EPBC 2008/4506 Approval Decision and Conditions

A



Approval

Flat Rock Boating Facility, Augusta, WA (EPBC2008/4506)

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Proposed action

person to whom the approval is granted Chief Executive Officer - Shire of Augusta-Margaret River

proponent's ACN (if applicable) 13 643 296 019

proposed action The construction of a boating facility at Flat Rock, 5km south of Augusta, WA, comprising dual-lane boat ramps, boat pens, a service wharf for vessels over 20m, breakwaters extending into Flinders Bay, and land-side facilities including a car park, toilet block, water and lighting. [See EPBC Act referral 2008/4506].

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved

conditions of approval

This approval is subject to the conditions specified below.

expiry date of approval

This approval has effect until 31 December 2021.

Decision-maker

name and position Barbara Jones
Assistant Secretary
Environment Assessment Branch

signature

date of decision

22 August 2011

Conditions attached to the approval

1. Within 30 days after the commencement of the action, the person taking the action must advise **the Department** in writing of the actual date of commencement.
2. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plan(s) required by this approval, and make them available upon request to **the Department**. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the **EPBC Act**, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on **the Department's** website. The results of audits may also be publicised through the general media.
3. Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to **the Department** at the same time as the compliance report is published.
4. If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plan(s) as specified in the Conditions, the person taking the action must submit to **the Department** for the **Minister's** written approval a revised version of that management plan(s). The varied activity shall not commence until the Minister has approved the varied management plan(s) in writing. The **Minister** will not approve a varied management plan(s) unless the revised management plan(s) would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the revised plan(s), that management plan(s) must be implemented in place of the management plan(s) originally approved.
5. If the **Minister** believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the **Minister** may request that the person taking the action make specified revisions to the management plan(s) specified in the Conditions and submit the revised management plan(s) for the **Minister's** written approval. The person taking the action must comply with any such request. The revised approved management plan(s) must be implemented. Unless the **Minister** has approved the revised management plan(s), then the person taking the action must continue to implement the management plan(s) originally approved, as specified in the conditions.
6. If, at any time after five years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the **Minister**.
7. The person taking the action must develop a Site Rehabilitation and Environmental Management Plan to mitigate the impacts to Augusta Kennedia (*Kennedia lateritia*).

The Site Rehabilitation and Environmental Management Plan must include but not be limited to:

- Overview of existing environment;
- Objectives;
- Clearing Protocols;
- Perimeter fencing/security of rehabilitation areas and existing locations of Augusta Kennedia;

- Rehabilitation activities/program, including figures showing rehabilitation sites;
- Maintenance of site including: vermin control, fire management, pest management and weed control;
- Timing and implementation of the above measures; and
- Monitoring and reporting.

The Site Rehabilitation and Environmental Management Plan must be submitted to and approved by the **Minister** prior to **construction** commencing.

8. The person taking the action must ensure that no Peppermint Trees greater than 1.5 m in height are cleared from the site, apart from twelve Peppermint Trees located within the proposed access road at the southern area of the site as shown in Attachment A.
9. The person taking the action must develop a Marine Noise Management Plan to mitigate impacts to **Cetaceans** during quarry blasting and marine drilling operations.

The Marine Noise Management Plan must include but not be limited to:

- Exclusion zones and mitigation measures during the months of April- November during blasting activities;
- Blasting time restrictions;
- Exclusion zones and mitigation measures during drilling, if the breakwater has not been constructed prior to drilling commencing;
- Drilling methodology;
- Post blast/drill fauna inspection;
- Reporting of injured or dead fauna; and
- Timing and implementation of the above measures.

The Marine Noise Management Plan must be submitted to and approved by the **Minister** prior to construction commencing.

10. Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish all management plans referred to in these conditions of approval on their website. Each Management Plan must be published on the website within 1 month of being approved.

Definitions

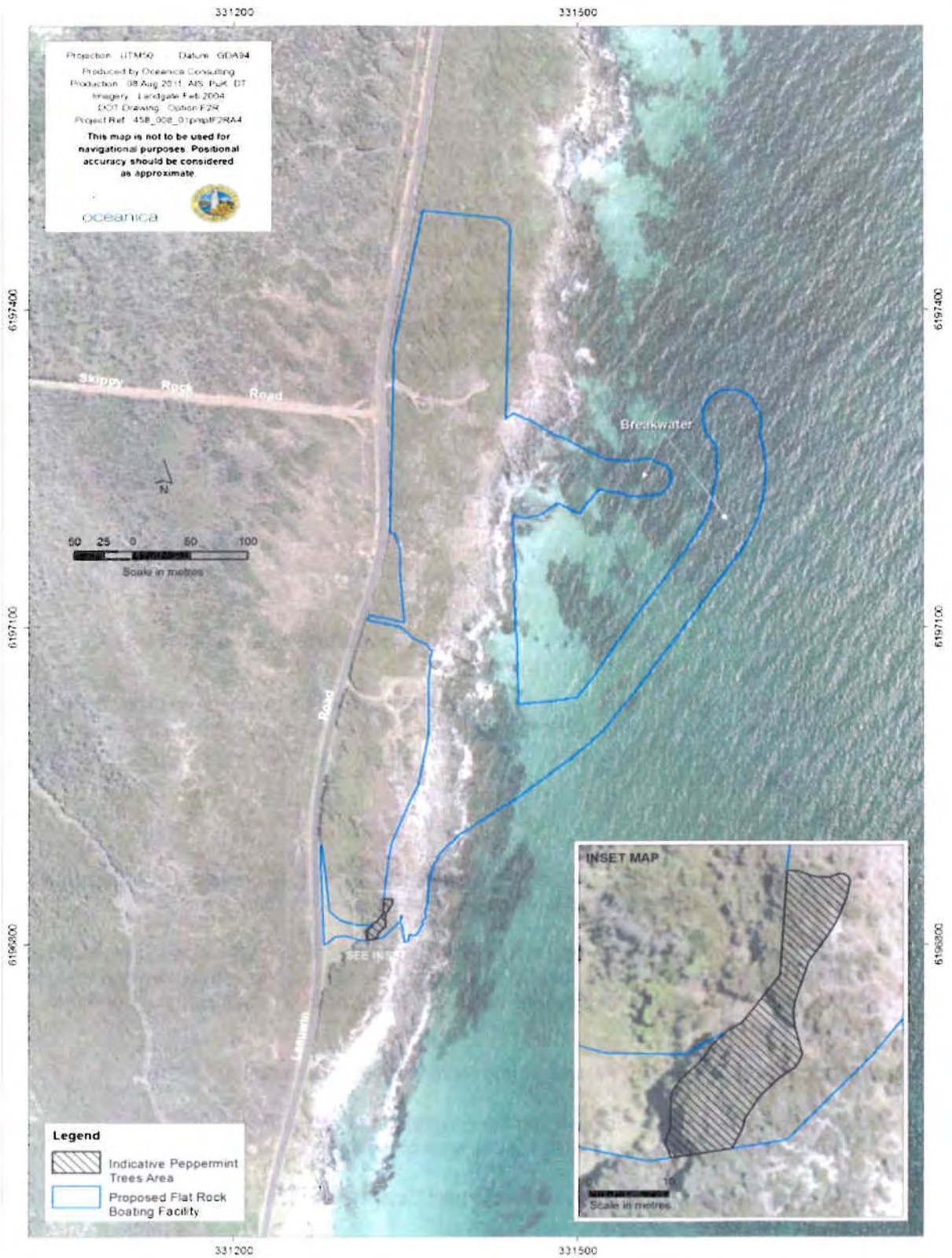
Cetaceans are the whales and dolphins identified as vulnerable, endangered and/or migratory under the *Environment Protection and Biodiversity Conservation Act 1999*.

Construction includes any preparatory works required to be undertaken including clearing vegetation, the erection of any fences, signage or on-site temporary structures and the use of construction or excavation equipment on site for the purpose of breaking the ground for buildings or infrastructure.

EPBC is the *Environment Protection and Biodiversity Conservation Act 1999*.

Minister is the Minister administering the *Environment Protection and Biodiversity Conservation Act 1999* and includes a delegate of the Minister.

The Department is the Australian Government Department administering the *Environment Protection and Biodiversity Act 1999*.



Appendix B EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
1	EPBC Approval Instrument (EPBC2008/4506)	Notification of commencement	Within 30 days after commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.	Construction	Compliant	Letter from Oceanica on behalf of DoT dated 14 October 2011 to DSEWPaC, advising that works to implement the Augusta Boat Harbour commenced on 27 September 2011 at which time temporary fencing was installed around the designated site access road area.	Letter from DoT dated; 14 October 2012	
2	EPBC Approval Instrument (EPBC2008/4506)	Maintenance of records	Maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plan required by this approval and make them available to DSEWPaC. May be subject to auditing by DSEWPaC.	Overall	Compliant/Not required at this stage	Accurate records are maintained and evidence provided in each annual compliance report, annual report for DEC clearing permits. No requests were made by DSEWPAC during the compliance assessment reporting period for records substantiating activities associated with, or relevant to, the conditions of approval.	This Report, DEC CP 3990/2 Annual Report	
3	EPBC Approval Instrument (EPBC2008/4506)	Compliance reporting	Within 3 months of every 12 month anniversary - a report must be published on the website addressing compliance with approval. Must include date of publication and non-compliance with any condition.	Overall	Compliant	This report is the first annual compliance report to be prepared under EPBC Statement No. 2008/4506 No non-compliances were recorded against any of the conditions of the approval EPBC 2008/4506.	This Report	
4	EPBC Approval Instrument (EPBC2008/4506)	Revisions to Ministerial Deliverables	If DoT wish to carryout activates other than in management plans - must submit to DSEWPaC written approval and revised management plan.	Overall	Compliant	DoT submitted a revised version of SREMP which included the extension to the quarry, to the Minister (DSEWPaC) for approval on 7 September 2012. DoT was issued a notification of approval for the extension to the quarry on 17 October 2012. The amendments required for the MNMP were minor and therefore the plan did not require another revision. The SREMP has undergone two revisions since its original approval, including Version 11 which was approved by DSEWPaC on 23 November 2011, and Version 12, approved on 17 October 2012.	Letter from DoT dated: 7 July 2012	
5	EPBC Approval Instrument (EPBC2008/4506)	Threatened species and communities	If minister believes it necessary for better protection of threatened species and communities , they may request revision of management plans .	Overall	Not required at this stage	No such requests were received by DoT during the compliance assessment reporting period.		
6	EPBC Approval Instrument (EPBC2008/4506)	Commencement of action	If, work has not commenced within 5 years of approval issued, then the proponent must seek written approval from Minister.	Pre-construction	Not required at this stage	Letter from Oceanica on behalf of DoT dated 14 October 2011 to DSEWPaC, advising that works to implement the Augusta Boat Harbour commenced on 27 September 2011 at which time temporary fencing was installed around the designated site access road area.	Letter from DoT dated: 14 October 2011	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
7	EPBC Approval Instrument (EPBC2008/4506)	Conservation of significant vegetation and rehabilitation	Develop a SREMP to mitigate impact to <i>Kennedia lateritia</i> must include: <ul style="list-style-type: none"> Overview of existing environment Objectives Clearing Protocols Perimeter fencing/security of rehabilitation areas and existing locations of Augusta Kennedia Rehabilitation activities / program, including figs showing rehabilitation sites Maintenance of site including vermin control, fire management, pest management and weed control Timing and implementation of the above monitoring and reporting. 	Pre-construction	Compliant	DoT in consultation with OEC developed the SREMP to address the criteria specified within the approval conditions. The initial SREMP was submitted to DSEWPaC and approved on 20 September 2011, the most recent revision (Version 12), was approved by DSEWPaC on 17 October 2012.	Letter from DSEWPaC dated 17 October 2012	
8	EPBC Approval Instrument (EPBC2008/4506)	Ministerial deliverable	The SREMP must be submitted to and approved by the minister prior to construction commencing.	Pre-construction	Compliant	Both the MNMP and the SREMP were approved by DSEWPaC 20 September 2011. First ground works commenced on 27 September 2011.	Letter from DSEWPaC dated 20 September 2011	
9	EPBC Approval Instrument (EPBC2008/4506)	Conservation of significant vegetation	Only 12 peppermint trees of 1.5 m or greater are to be cleared.	Clearing	Compliant	Clearing of vegetation occurred on 5 October 2011. DEC WRP Clearing procedures were complied with. Letter report from Green Iguana confirms clearing of 12 peppermint trees (report dated: 26 October 2011).	Letter report from Green Iguana dated: 26 October 2011	
10	EPBC Approval Instrument (EPBC2008/4506)	Conservation of marine fauna	Develop a MNMP that includes:- Exclusion Zone and mitigation measures during the months of April - November during blasting activities- Blasting time restrictions Exclusion zones and mitigation measures during drilling, if breakwater has not been constructed prior to drilling commences drilling methodology- Post blast/drill fauna inspection reporting of dead fauna- Timing and implementation of above measure.	Pre-construction	Compliant	DoT in consultation with Oceanica developed a MNMP to address the criteria specified within the approval conditions. The MNMP was submitted to DSEWPaC and approved on 20 September 2011.	Letter from DSEWPaC dated 20 September 2012	
11	EPBC Approval Instrument (EPBC2008/4506)	Ministerial deliverable	MNMP must be submitted and approved by the Minister prior to construction.	Pre-construction	Compliant	Both the MNMP and the initial SREMP were approved by DSEWPaC 20 September 2011. First ground works commenced on 27 September 2011.	Letter from DSEWPaC dated 20 September 2011	
12	EPBC Approval Instrument (EPBC2008/4506)	Publication of Ministerial Deliverables	Publish all management plans on the website within one month of being approved.	Overall	Compliant	Management plans are available on the DoT website (refer to link). Project Manager confirmed that management plans were available on the website within one month of approval, and that each revision of the management has also been made available, following approval by regulators. http://www.transport.wa.gov.au/imarine/23469.asp	Management plans are available on the DoT website (refer to link): http://www.transport.wa.gov.au/imarine/23469.asp	

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
13	Site Rehabilitation and Environmental Management Plan	Noise	9 out of 10 consecutive blasts are to be less than 125 dB (linear peak).	Quarry operations	Compliant	Blasting practice is in accordance with the MNMP. Site records are kept by construction contractor. Records were sighted that noise limits were not exceeded and verbal confirmation given from the contractor during site visit (12 December 2012).	Site records	
14	Marine Noise Management Plan	Ground Vibration	Ground vibration not to exceed a maximum of 10 mm/sec for dwellings and 20 mm/sec for commercial premises.	Quarry operations	Compliant	Blasting practice is in accordance with the MNMP. Site records are kept by construction contractor. Records were sighted that no vibrations exceeded the maximum limit and verbal confirmation given from the contractor during site visit (12 December 2012).	Site records	
15	Marine Noise Management Plan	Blasting	Normal [blasting] procedure is to undertake several test blast and monitor blast levels . From the data, adjust drilling and blasting pattern as necessary.	Quarry operations	Compliant	Blasting procedures were conducted in accordance with the MNMP. Verbal confirmation was given by the contractor that several test blasts were carried out and monitoring of blast levels, during the site visit (12 December 2012).	Verbal confirmation	Records of test blasting should be kept on site if not already.
16	Marine Noise Management Plan	Noise	Drilling noise is covered under construction noise in the Environmental Protection (Noise) Regulations 1997 . The regulations stipulate that construction noise must be carried out in accordance with noise control practices set out in Australian Standard 2436-1981 (Guide to Noise Control on Construction, Maintenance and Demolition Sites).	Quarry operations	Not required at this stage	The Project Manager confirmed that no marine drilling has been undertaken during the reporting period.		
17	Marine Noise Management Plan	Fauna (marine)	A 1000 m exclusion zone will remain in place at all times between May through November should any blasting be required during this period.	Quarry operations	Compliant	Exclusion zones were clearly marked at appropriate distances around the site and sighted during site visit (12 December 2012).	Visual confirmation	
18	Marine Noise Management Plan	Noise	If any quarry blasting is required outside the months of December through April , particular care must be taken to conduct monitoring to ensure no sensitive marine fauna enter the 1000 m exclusion zone .	Quarry operations	Compliant	Marine fauna observers were present on site during any blasting / pre-blasting works. Observations were conducted in accordance with the MNMP. Records of observations were sighted during site visit (12 December 2012).	Site records	
19	Marine Noise Management Plan	Noise	Blasting and quarrying will be carried out in accordance with the relevant sections of the Mining Act 1978 , The Dangerous Goods Handling and Storage Regulations 1992 , and other regulations as required including the requirement for a DEC Works Approval and Licence for Crushing and Screening .	Quarry operations	Compliant	The relevant acts and guidance is sited in the Construction Environmental Management Plan (CEMP) and states that blasting will be carried out in accordance with the relevant sections of guidance, including: <ul style="list-style-type: none"> <i>Mining Act 1978</i>; and Dangerous Goods Handling and Storage Regulations 1992. Crushing and screening is not undertaken on site, therefore the Works Approval is longer applicable to the Project.	Construction Environmental Management Plan	
20	Marine Noise Management Plan	Noise	Management Methods [for excessive blast noise] could include which face is fired, the design of excavation, the amount of rock fired, the depth of drill holes, the spacing of the drill patterns, the number of blasts, time of firing and the time delay patterns.	Quarry operations	Compliant	The contractor verbally advised during the site visit (12 December 2012) that blasting is undertaken using small charges, more often, to ensure that blasting does not exceed limits specified.	Verbal confirmation	

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
21	Marine Noise Management Plan	Noise	A sub-surface logger can provide useful information on received acoustic sound levels in the vicinity of operations, and should be deployed if possible.	Quarry operations	Not required at this stage	Appropriate noise monitoring equipment has been implemented. Sub-surface logger is not required as noise limits have not exceeded allowable limits specified by the MNMP.	Verbal advice, management plans and records sighted.	
22	Marine Noise Management Plan	Blasting	A detailed (logistical) blasting plan will be prepared prior to undertaking any quarry blasting based on specific site characteristics (e.g. are and depth to be blasted, rock hardness etc.) and environmental guidelines. This document shall detail methods to be used, in accordance with AS2187 , the blasting/design locations and noise management and monitoring methods.	Quarry operations	Compliant	The contractor has developed the following plans; Blasting Management Plan and the Quarry Establishment, Operation & Finishing Plan for the project. These plans were approved by DoT on 12 November 2012.	Blasting Management Plan and the Quarry Establishment, Operation & Finishing plan	
23	Marine Noise Management Plan	Vibration	Blasts are not to exceed permitted overpressure and vibration limits.	Quarry operations	Compliant	Blasting has not exceeded the specified limits during the compliance reporting period. Verbal confirmation from the contractor was given and records were sighted during site visit (12 December 2012).	Site records and verbal confirmation	
24	Marine Noise Management Plan	Noise	All quarry blasting should be carried out as defined within this Marine Noise Management Plan.	Quarry operations	Compliant	Evidence gathered through site audit conducted on 12 December 2012, records sighted and verbal confirmation from Site Supervisor (PW) and contractor that all blasting works within the reporting period have been in accordance with the MNMP.	Site records and verbal confirmation	
25	Marine Noise Management Plan	Blasting	All blast operators will be briefed , prior to quarry blasting commencing, on environmental issues, blasting management actions and contingencies as document in the Marine Management Plan.	Quarry operations	Compliant	Personnel inductions include environmental issues, and relevant personnel are trained for marine fauna observations by Blue Planet Marine (BPM). Evidence gathered was through site audit and verbal confirmation from Site Supervisor and contractor on 12 December 2012.	Site records and verbal confirmation	
26	Marine Noise Management Plan	Fauna (marine)	A trained, shore based observer should keep a look out for sensitive marine fauna within 1,500 m of the blast site , commencing at least 15 minutes prior to , and continuing throughout, quarry blasting.	Prior to blasting/blasting	Compliant	<ul style="list-style-type: none"> A number of personnel were trained by Blue Planet Marine. Personnel inductions include environmental issues, and relevant personal are trained for marine fauna observations. Marine fauna observation recording sheets were sighted and verbal confirmation from Site Supervisor and contractor on 12 December 2012. 	Site records and verbal confirmation	
27	Marine Noise Management Plan	Fauna (marine)	If a marine mammal is spotted within 1000 m exclusion zone , blasting must immediately be delayed until the animal has left the area, or has not been seen within the exclusion zone for the preceding 20 minutes.	Quarry operations	Compliant	<ul style="list-style-type: none"> Two observations of marine fauna entering the exclusion zones have been recorded. Records were sighted during the audit (12 December 2012) and verbal confirmation that procedures were followed. 	Site records and verbal confirmation	
28	Marine Noise Management Plan	Fauna (marine)	A post blast inspection for injured fauna should also be carried out.	Post-blasting	Compliant	Verbal confirmation provided by contractor that a post blast inspection is conducted for injured or dead marine fauna following blasting. Confirmed during the site visit 12 December 2012.	Verbal confirmation	Post blast inspection records should be retained on site, if not already.

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
29	Marine Noise Management Plan	Fauna (marine)	In the event that the 1000 m exclusion zone cannot be observed fully , due to poor weather or any other reason, if marine fauna were not observed in the exclusion zone during the previous day, then quarry blasting may proceed with caution .	Quarry operations	Compliant	<ul style="list-style-type: none"> The extent of the 1000 m range has been observed at all times during monitoring however when easterly winds and resulting white caps are present the degree of confidence of the monitoring is reduced in comparison to calm conditions. Verbal confirmation was given that there have been two occurrences of dolphins entering the exclusion zone during the pre-blast monitoring times, including a pod of five dolphins on 18 October 2012 and a pod of four dolphins on 26 November 2012. Blasting did not need to be deferred because they left the monitoring zone shortly after entering it. No whales have been observed in the monitoring zone during the pre-blast monitoring period. On the basis of all monitoring to date, even if the zone could not be observed fully, the likelihood of marine fauna being within the monitoring zone during pre-blasting monitoring is low. Confirmation given by DoT and contractor that blasting activities have been conducted in accordance with MNMP. 	Verbal confirmation and site records	
30	Marine Noise Management Plan	Fauna (marine)	All marine fauna sightings , including detection of injured or dead fauna, will be recorded , including the date, time and location of sighting and the name, qualifications and experience of the shore-based observer. Environmental / weather conditions should also be recorded, as well as any reasons that observations may have been hampered, for example poor visibility, inclement weather etc. (and maintained).	Quarry operations	Compliant	Records are kept accordingly for marine fauna observations. These were sited during the site audit visit (12 December 2012). No injured or dead marine fauna have been observed within the reporting period.	Site records	
31	Marine Noise Management Plan	Fauna (marine)	In the event of detection of injured or dead marine fauna , a report should be provided to DSEWPC in writing within 24 hours , including details of the incident or risk, the measures taken and the success of those measures in addressing the incident or risk, as well as any additional measures proposed to be taken.	Quarry operations	Not required at this stage	No injured or dead marine fauna have been observed within the reporting period.	Site records	
32	Marine Noise Management Plan	Blasting	Blasting to be minimised as far as practicable.	Quarry operations	Compliant	Contractor verbally confirmed awareness of commitment.	Verbal confirmation and the approved Blast Management Plan	
33	Marine Noise Management Plan	Blasting	Blasting as far as practicable to be carried out during November - April (i.e. not during the whale migration season).	Quarry operations	Not required at this stage	Contractor verbally confirmed awareness of commitment. Not relevant to activities reporting period.	Verbal confirmation and the approved Blast Management Plan	

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
34	Marine Noise Management Plan	Blasting	Blasting to be carried out according to the relevant Regulations and Guidance.	Quarry operations	Compliant	The Construction Environmental Management Plan refers to and states that it will comply with relevant regulations, guidelines and acts, including: <ul style="list-style-type: none"> • Mining Act 1978; • Dangerous Goods Handling and Storage Regulations 1992; • AS2187; • Dangerous Goods Safety Act 2004; • Australian Standard AS1940 (1993) Storage and Handling of Flammable and Combustible Liquids and the Explosives; • Dangerous Goods Regulations (1992); • Environmental Protection (Noise) Regulations 1997; and • Australian Standard AS2436 (1981) Guide to Noise Control on Construction, Maintenance and Demolition Sites. An Explosives Storage Licence has also been obtained for the Project from the Department of Mines and Petroleum.	Construction Environmental Management Plan	
35	Marine Noise Management Plan	Blasting	Blasting to be carried out only in daylight hours.	Quarry operations	Compliant	All blasting has occurred within daylight hours, Site Supervisor verbally confirmed this and blasting logs with dates and times of blasting were sighted during the site audit (12 December 2012).	Site records	
36	Marine Noise Management Plan	Blasting	During blasting , a marine fauna exclusion zone of 1000 m and a monitoring zone of 1500 m is to be maintained around the blast zone.	Quarry operations	Compliant	Exclusion zones were sighted during site audit (12 December 2012), as well as MFO recording sheets.	visual confirmation	
37	Site Rehabilitation and Environmental Management Plan	Rehabilitation	The rehabilitation program will commence in advance of any clearing or earthworks activities occurring at the proposed Augusta Boat Harbour Project Area.	Pre-clearing	Compliant	The rehabilitation program commenced in advance of any clearing and earthwork activities, in accordance with the SREMP. The Oceanica letter (dated 14 October 2012) confirms that clearing commenced 27 September 2011. The OEC Plant Propagation Program Augusta Boat Harbour letter (dated 6 October 2011), Clearing Permit 39902 Annual Report (dated 29 June 2012), and OEC letter report (dated 23 August 2012) verify that rehabilitation activities began prior to the commencement of clearing activities. OEC has advised that native seed collection commenced on the 24th November 2010, as confirmed by the Carramar Nursery quote. Additionally, approval was granted by the Shire of Augusta and Margaret River for seed collection reserves R25141, R27432, R20761, R39156, R11533, R9658 and R40376 on 5 December 2011.	Letters, reports, interviews, verbal confirmation	

Appendix B - EPBC Approval and Conditions Augusta Boat Harbour 2008/4506 Compliance Assessment Audit Table

Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
38	Site Rehabilitation and Environmental Management Plan	Re-vegetation - seed collection	Collect native seed required for direct sowing and propagation of native seedlings for utilisation in rehabilitation blocks at the site.	Pre-clearing / Earthworks	Compliant	<p>The collection of native seed for direct seeding and propagation of seedlings for utilisation within rehabilitation blocks at the site was undertaken in accordance with the SREMP.</p> <p>The letter from the Shire of Augusta-Margaret River, dated 5 December 2011 confirms that approval for seed collection was granted within seed collection reserves R25141, R27432, R20761, R39156, R11533, R9658 and R40376.</p> <p>The Clearing Permit 39902 Annual Report (dated 29 June 2012), OEC letter report (dated 23 August 2012) and the OEC Plant Propagation Program letter (dated 6 October 2011), confirm that native seed collection was undertaken for rehabilitation in accordance with the SREMP.</p>	Letters and reports	
39	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Treatment of introduced (weed) species within rehabilitation blocks at the site aimed at reducing the weed loading ahead of ground preparation activities , and preventing longer term invasion of developing rehabilitation from surrounding areas – this will commence immediately on acceptance of the SREMP by DEC.	Pre-clearing / Earthworks	Compliant	<p>Following the approval of the SREMP by the DEC, treatment of weed species within rehabilitation blocks was undertaken ahead of ground preparation activities, and in accordance with the SREMP.</p> <p>The original SREMP was approved in September 2011, as verified by the SREMP approval letter, dated 20 September 2011. Version 11 of the SREMP was approved 23 November 2011, and the most current version of the SREMP (Version 12) was approved by DSEWPaC on 17 October 2012.</p> <p>The Clearing Permit 39902 Annual Report (dated 29 June 2012), OEP letter report (dated 23 August 2012) and verbal confirmation from the site audit (12 December 2012) verifies that weed treatment was undertaken prior to ground preparation activities and in accordance with the SREMP.</p> <p>The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> provide evidence that weed species were treated ahead of ground preparation activities accordingly.</p>	Reports, letters, site inspection and site records and spray logs	
40	Site Rehabilitation and Environmental Management Plan	Re-vegetation - seedling propagation	Commencing nursery propagation of seedlings from a combination of seed, cuttings and root divisions (aimed at being ready for a mid-June 2012 planting on site).	Pre-construction	Compliant	<p>Nursery propagation of seedlings from seeds, cuttings and root divisions was undertaken for the project by Carramar Nursery and in accordance with the SREMP. The Clearing Permit 39902 Annual Report (dated 29 June 2012) confirms that Carramar Nursery was procured to commence plant propagation on 24 October 2011. The Carramar Nursery order form has also been provided in the Clearing Permit Annual Report.</p> <p>Additionally, the site audit (12 December 2012) verified that the Augusta-Margaret River Shire is also maintaining sedges for rehabilitation purposes, and that further propagation of sedges will be undertaken in the near future.</p>	Reports, interviews, verbal confirmation, order forms	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
41	Site Rehabilitation and Environmental Management Plan	Priority flora, flora and vegetation	Field demarcation of <i>Kennedia lateritia</i> plants in the field by construction of non-permanent perimeter fencing using white sighter wire.	Pre-construction	Compliant	<p>The Threatened Flora species <i>Kennedia lateritia</i> was demarcated on site through the construction of non-permanent perimeter fencing using sighter wire. During the site audit (12 December 2012) visual verification, photographs and verbal confirmation from the Site Supervisor was attained, confirming that fencing was constructed in accordance with interface requirements, including:</p> <ul style="list-style-type: none"> • Pedestrian and vehicle access • Construction • Wind fencing • Sighter wire. <p>Figure AU1554-14-01_1-A3_Access Road Temporary Vegetation Protection Fence also verifies the construction of fencing in appropriate areas, in accordance with the SREMP.</p>	Photographs, verbal and visual confirmation, site inspection, observation	
42	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Weed species - Arum lily - Blanket wipe with a mixture of Glean (20g ha-1), Gramoxene W (2 L ha-1), and wetting agent (250 ml 100l-1) in late winter.	Pre-construction	Compliant	<p>Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP. During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP.</p> <p>The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries and confirm that spraying has been undertaken in accordance with the requirements of the SREMP.</p>	Verbal confirmation, figures and maps	
43	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Weed species - Grasses - Use Fusilade 212 or Verdict 520 at 2 L ha-1 for blanket and spot spraying during winter or spring . Fusilade and Verdict are suitable for spraying over native vegetation, and should be used in combination to prevent plants becoming resistant.	Pre-construction	Compliant	<p>Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP.</p> <p>During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP. The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries.</p>	Verbal confirmation, figures and maps	
44	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Weed species - Dune Onion Weed - Manually remove isolated patches by hand before flowering. Wick application using 5 g of metsulfuron or 500 mL of glyphosate plus 2.5 mL wetting agent per litre of water. Apply before flowering in late winter and spring .	Pre-construction	Compliant	<p>Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP.</p> <p>During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP. The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries.</p>	Verbal confirmation, figures and maps	
45	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Mix 500 mL glyphosate (360 g L-1) WITHOUT wetting agent with 100 L of water. Fill backpack from tank and spray infested areas early in the growing season (early winter) . May require re-treatment in early spring. Has minimal impact on native species. However, should not be used on <i>Kennedia lateritia</i> .	Pre-construction	Compliant	<p>Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP. During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP. The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries.</p>	Verbal confirmation, figures and maps	

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46	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Weed species - Onion grass - Blanket wipe using 1-2 L ha ⁻¹ of glyphosate (450 g L ⁻¹) to 2 parts water for larger infestations in early winter prior to flowering.	Pre-construction	Compliant	Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP. During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP. The figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries.	Verbal confirmation, figures and maps	
47	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	The established ground cover of <i>Pennisetum clandestinum</i> (Kikuyu Grass) present within Rehabilitation Blocks 2a – 2c will be cleared and removed from site , the remaining surface soils lightly scarified, and follow-up herbicide control of re-establishing grass undertaken using a grass selective herbicide.	Pre-construction	Compliant	The ground cover Kikuyu Grass was cleared and removed from Rehabilitation Blocks 2a and 2c, in accordance with the SRMEP. The Clearing Permit 39902 Annual Report (dated 29 June 2012) and figure <i>AU1554-12-01_B-A3_Kikuyu Stripping</i> confirms that Kikuyu Grass was removed from the appropriate areas. During the site audit (12 December 2012) verbal confirmation was provided that these works were undertaken prior to construction and that a skid steer loader (Posi Track) was implemented (with raked forks) to spread vegetation and for scarification. Figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> outline the follow up spraying specifications that were required and undertaken in the rehabilitation areas. Observations from the site audit (12 December 2012) also indicated that this works had been undertaken.	Verbal confirmation, interviews, reports, figures and maps, observations	
48	Site Rehabilitation and Environmental Management Plan	Re-vegetation / weed control	These preparation steps [ID No. 11] will occur ahead of replacing a topsoil / subsoil resource to 0.3 m depth and undertaking direct sowing and planting of nursery raised seedlings.	Prior to Topsoil / Subsoil Replacement	Compliant	Weed control and treatment preparation steps were undertaken prior to the replacing of topsoil and subsoil, and undertaking direct sowing and planting of nursery raised seedlings. The Clearing Permit 39902 Annual Report (dated 29 June 2012) provides evidence that weed treatment and control preparation was undertaken prior to further rehabilitation. The Clearing Permit Annual Report also provides a photographic record of the relevant rehabilitation steps undertaken. During the site audit (12 December 2012) the Site Supervisor provided verbal confirmation that the appropriate preparation steps were undertaken in accordance with the SREMP. The Site Supervisor advised that topsoil spreading was completed by the Shire through preliminary earthworks and under the supervision of the Site Supervisor and OEC.	Interviews, reports and verbal confirmation	
49	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Selective removal of Kikuyu will occur around existing scattered plants of <i>Kennedia lateritia</i> within Rehabilitation Block 3, with remaining grass to be eradicated using a grass selective herbicide .	Pre-construction	Compliant	Selective removal of Kikuyu Grass using a grass selective herbicide was undertaken in accordance with the SREMP. The Clearing Permit 39902 Annual Report (dated 29 June 2012) confirms that a selective weed removal and spray program was implemented in the rehabilitation areas. Figures <i>Spraying AU1588-02-01_C-A3</i> , <i>Spraying AU1588-02-02_B-A3</i> and <i>AU1554-12-01_B-A3_Kikuyu Stripping</i> details the removal and spraying specifications in the required areas. OEC provided confirmation during the audit that the grass-selective herbicide Fusilade was successfully applied to significantly reduce the Kikuyu Grass loading at site, which promoted the growth of the Threatened Flora species <i>Kennedia lateritia</i> . Observations and photographs taken during the site audit indicate that this control program was implemented and successful.	Photographs, reports, figures and maps	

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50	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	There will be careful replacement of imported topsoil to 0.3 m depth within this block [Block 3, ID No. 13].	Rehabilitation	Compliant	<p>Imported topsoil was carefully placed to a depth of approximately 0.3 m in rehabilitation areas, in accordance with the SREMP. The Site Supervisor provided verbal confirmation during the site audit (12 December 2012) that all rehabilitation works were completed in accordance with the SREMP, including the placement 0.3 m replacement of topsoil in rehabilitation areas.</p> <p>The Site Supervisor verified that visual checks were undertaken regularly to ensure that topsoil was being replaced in accordance with the SREMP topsoil procedures.</p> <p>The Clearing Permit 39902 Annual Report (dated 29 June 2012) provides a photographic record of the topsoil and subsoil rehabilitation methods implemented on site in the rehabilitation areas.</p> <p>The OEC letter report Update of Site Rehabilitation Activities (dated 30 May 2012) and figure <i>AU1588-03-01_B-A3_Site Rehabilitation Topsoil Harvesting and Rehabilitation</i> provide details on the topsoil and subsoil rehabilitation activities.</p>	Interviews, verbal confirmation	
51	Site Rehabilitation and Environmental Management Plan	Soils and weed control	Skeletal soils within Rehabilitation Blocks 4a and 4b that support weeds such as * <i>Cynodon dactylon</i> (Couch Grass) will be scalped and the weed load immediately removed from site .	Pre-construction	Compliant	<p>Skeletal soil scalping and weed load removal on Rehabilitation Blocks 4a and 4b was undertaken in accordance with the SREMP.</p> <p>During the audit process the OEC confirmed that skeletal soils within Rehabilitation Blocks 4a and 4b were scalped and that the weed load was immediately removed from site. This site preparation and ahead of importing the subsoil and topsoil components from northern area of the site.</p> <p>OEC verified that this was undertaken at time of operation and is evidenced by the absence of couch grass within main areas of the rehabilitation block.</p>	Interviews and verbal confirmation	
52	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	A treatment program will be instigated at the site [ID No. 15] using herbicides listed in Table 3 [see SREMP], in preparation for topsoil and subsoil placement.	Prior to Topsoil / Subsoil Replacement	Compliant	<p>Management and control of key weed species in appropriate areas was undertaken in accordance with the SREMP. During the site audit (12 December 2012) verbal confirmation was received that the management of key weed species has been undertaken prior to construction and in accordance with the SREMP.</p> <p>Figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> detail the spraying requirements within appropriate boundaries and confirm that spraying has been undertaken in accordance with the requirements of the SREMP.</p> <p>The Clearing Permit 39902 Annual Report (dated 29 June 2012), OEP letter report (dated 23 August 2012) and verbal confirmation from the site audit (12 December 2012) verifies that weed treatment was undertaken prior to ground preparation activities and in accordance with the SREMP.</p>	Reports, figures and maps, verbal confirmation	
53	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Clearing of weeds will occur by hand within Rehabilitation Blocks 5a and 5b, in combination with a selective herbicide program that accounts for the presence of <i>Kennedia lateritia</i> .	Pre-construction	Compliant	<p>A selective weed program that accounted for the presence of Threatened Flora <i>Kennedia lateritia</i> was implemented in Blocks 5a and 5b. OEC provided verbal confirmation that clearing of weeds by hand, in conjunction with a selective herbicide program was implemented as part of pre-rehabilitation spray program. This programme is on-going.</p> <p>The OEC letter report (dated 30 May 2012) and Clearing Permit 39902 Annual Report (dated 29 June 2012) provide evidence that a selective weed program was implemented in the rehabilitation areas. Figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> details weed control specifications.</p>	Reports, figures and maps, verbal confirmation and interviews	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
54	Site Rehabilitation and Environmental Management Plan	Weed treatment / control	Vegetation occurring at Blocks 1b, 1c and 7 will have targeted weed control undertaken as required. There will be no additional preparation work required as no remedial earthworks will be completed within these blocks.	Pre-construction	Compliant	<p>A selective weed program that accounted for the presence of Threatened Flora <i>Kennedia lateritia</i> was implemented in Blocks 5a and 5b. OEC provided verbal confirmation that clearing of weeds by hand, in conjunction with a selective herbicide program was completed as part of pre-rehabilitation spray program. This programme is on-going.</p> <p>The OEC letter report (dated 30 May 2012) and Clearing Permit 39902 Annual Report (dated 29 June 2012) provide evidence that a selective weed program was implemented in the rehabilitation areas. Figures <i>Spraying AU1588-02-01_C-A3</i> and <i>Spraying AU1588-02-02_B-A3</i> details weed control specifications.</p>	Reports, figures and maps, verbal confirmation and interviews	
55	Site Rehabilitation and Environmental Management Plan	Clearing	<p>Prior to any clearing activities commencing at site, disturbance boundaries will be surveyed and clearly delineated by white sighter wire fencing to ensure that clearing of native vegetation does not exceed those areas approved. After initial clearing activities the white sighter wire may be upgraded to include ring lock fencing fixed under the sighter wire for further site definition and protection.</p> <p>The sighter wire fence may be replaced during construction with a chain wire fence with hessian screening if localised dust management measures need to be implemented. After construction the temporary fences will be removed and replaced with the specified perimeter fencing.</p>	Pre-construction	Compliant	<p>Disturbance boundaries were surveyed and clearly delineated by sighter wire fencing to protect native vegetation during clearing. The sighter wire fencing has now been upgraded for further site definition and protection. The Clearing Permit 39902 Annual Report (dated 29 June 2012) and figure <i>AU1554-14-01_1-A3_Access Road Temporary Vegetation Protection Fence</i> confirms that fencing was implemented in appropriate areas.</p> <p>During the site audit (12 December 2012) appropriate implementation of fencing was observed and photographs were taken. Verbal confirmation from the Site Supervisor was provided during the site audit confirming that sighter wire fencing was used during clearing activities. Observations from the site audit and verbal confirmation indicated that fencing has been upgraded in accordance with interface requirements, including:</p> <ul style="list-style-type: none"> • Pedestrian and vehicle access • Construction • Wind fencing • Sighter wire. 	Photographs, report, figures and maps, verbal and visual confirmation, site inspection, observations	
56	Site Rehabilitation and Environmental Management Plan	Clearing and Soils	Pre-clearance checks will be undertaken by the Site Supervisor to ensure that necessary surface preparation has occurred at rehabilitation areas to allow for direct return of topsoil and subsoil (where possible) , stockpile areas for topsoil, subsoil and vegetation debris and brushing resources have been prepared where direct return of this resource is not possible, and machinery operators have been familiarised with the objectives of the clearing program in respect to required rehabilitation outcomes.	Prior to Topsoil / Subsoil Replacement	Compliant	<p>Pre-clearance checks were undertaken by the Site Supervisor to ensure that all necessary surface preparations were undertaken prior to the direct return of topsoil and subsoil, in accordance with the SREMP.</p> <p>Verbal confirmation that pre-clearance checks were undertaken prior to topsoil and subsoil return was provided by the Site Supervisor during the site audit (12 December 2012). The Clearing Permit 39902 Annual Report (dated 29 June 2012) provides a photographic record of rehabilitation activities and procedures implemented, and an overview of SREMP rehabilitation activities undertaken.</p>	Reports, photographs, verbal confirmation	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
57	Site Rehabilitation and Environmental Management Plan	Clearing and rehabilitation	The above ground vegetation mass from the quarry site will be cleared and direct returned to prepared rehabilitation surfaces as brushing in higher wind areas to minimise erosion.	Pre-construction	Compliant	Above ground vegetation was cleared and direct returned to prepared rehabilitation surfaces, in accordance with the SREMP. During the site audit (12 December 2012), the Site Supervisor verbally confirmed that above ground vegetation was returned as brushing. Additionally, photographs were taken during the audit in which it is evident that brushing had been used in rehabilitation areas and in higher wind areas to minimise erosion. It was also noted that wind breaks had been constructed to reduce wind erosion.	Site inspection, observations, verbal confirmation and interviews, photographs	
58	Site Rehabilitation and Environmental Management Plan	Clearing and rehabilitation	Surplus vegetation debris cleared and not required for rehabilitation activities will be removed from site .	Pre-construction	Compliant	The Project Manager advised that vegetation debris was cleared. There was surplus vegetation in excess of the brushing requirements for rehabilitation areas, which was removed to the Shire Sand Pit. The peppermint trees requiring clearing on site were removed immediately.	Verbal confirmation, site inspection, observation	
59	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Topsoil will be stripped in stages during development of the quarry in line with clearing of the native vegetation cover.	During Construction	Complete	Topsoil was stripped in stages during the development of the quarry, in accordance with the SREMP. The Clearing Permit 39902 Annual Report (dated 29 June 2012) provides a clearing log which confirms that staged topsoil stripping was undertaken, as well as a photographic record of topsoil and subsoil stripping activities. The figures <i>AU1588-03-01_B-A3_Site Rehabilitation Topsoil Harvesting and Rehabilitation</i> and <i>AU1588-01-01_F-A3_Progressive Vegetation Clearing Plan</i> provide evidence that topsoil was stripped in stages and the area was progressively cleared. Additionally, verbal confirmation was provided during the site audit (12 December 2012) from the Site Supervisor that vegetation topsoil and subsoil were stripped in stages and stockpiled in accordance with the SREMP.	Reports, photographs, figures and plans, verbal confirmation	
60	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Native topsoil within the footprint of the quarry will be recovered to a depth of 50 mm to preserve the in situ native seed resource and nutrient content, noting this may not be possible in areas where outcropping granulite occurs.	Pre-construction	Compliant	Native topsoil was recovered to a depth of approximately 50 mm in accordance with the SREMP. Verbal confirmation was provided during the site audit that that clearing and rehabilitation procedures were undertaken in accordance with the SREMP, including the recovery of native topsoil to 50 mm. Additionally, OEC confirmed that additional topsoil recovered from the quarry expansion area in accordance with the SREMP procedures, which has been utilised to create a bund wall around the perimeter of the laydown area to protect adjacent rehabilitation from prevailing south-east winds during summer months. Similar recovery of subsoil has been stockpiled alongside the existing stockpile at the main entry gate.	Verbal confirmation	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
61	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Topsoil will be stockpiled to a maximum height of 1 m at the northern end of the quarry site (the final stage) surrounded by intact vegetation to minimise potential for weed infestation. Stockpile locations and volumes will be recorded and mapped , and stockpiles in the field will be signposted to allow easy differentiation of stripping dates.	Pre-construction	Partially non-compliant	<p>OEC confirmed that additional topsoil recovered from the quarry expansion area was in accordance with the SREMP procedures. This has been utilised to create a bund wall around the perimeter of the laydown area to protect adjacent rehabilitation from prevailing south-east winds during summer months.</p> <p>Volumes of topsoil have been recorded and locations have been captured in aerial photography. The location provides a physical barrier to the prevailing south-east winds expected during summer months.</p> <p>OEC confirmed the maximum stockpile height was increased from 1 m to 2 m to benefit wind protection. Given the relatively long period of topsoil storage anticipated (mid-2014) the increased stockpile height was not anticipated to have any detrimental impacts. It was seen as being preferential to off-site storage where the threat of contamination was higher.</p> <p>OEC confirmed that there was no signposting with dates for stockpiles in the field; it is noted that there is only (one topsoil and one subsoil stockpile on site, and both are at separate locations and easily differentiated by height. The locations have been captured on maps, and site visitors and personnel are briefed on the location and purpose of the stockpiles during their site inductions.</p>	Verbal confirmation, photographs, aerial photographs	For DoT to be fully compliant with the SREMP, topsoil stockpiles should be sign posted on site. It is advised that DoT consider amending the SREMP to reflect the new height of topsoil stockpiles.
62	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Topsoil will be replaced at a minimum depth of 50 mm onto prepared subsoil medium, however, a deeper profile may be reconstructed using topsoil where surplus volumes are realised (in preference to using subsoil).	Rehabilitation	Compliant	Topsoil was replaced at a minimum depth of 50 mm, in accordance with the SREMP. The OEC letter report, dated 30 May 2012 (Augusta Boat Harbour - Update of Site Rehabilitation Activities) confirms that topsoil was replaced at a minimum depth of 50 mm. During the site audit (12 December 2012) the Project Manager provided verbal confirmation that clearing and rehabilitation procedures were undertaken in accordance with the SREMP.	Letter report and verbal confirmation	
63	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	The subsoil resource will be recovered to a maximum depth of 0.3 m below natural surface following topsoil stripping to ensure the minimum volume of topsoil and subsoil available for rehabilitation activities is realised.	Pre-construction	Compliant	<p>Subsoil was recovered to a maximum depth of 0.3 m, in accordance with the SREMP. The OEC letter report, dated 30 May 2012 (Augusta Boat Harbour - Update of Site Rehabilitation Activities) confirms that subsoil was recovered to a maximum depth of 0.3 m below the natural surface.</p> <p>During the site audit the Project Manager provided verbal confirmation that clearing and rehabilitation procedures were undertaken in accordance with the SREMP.</p>	Letter report and verbal confirmation	
64	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Subsoil will be direct returned to prepared rehabilitation surfaces where ever possible, or stockpiled to less than 2 m in height at the northern end of the quarry site (within the final clearing stage).	Rehabilitation	Partially non-compliant	During the site audit it was confirmed that subsoil was direct returned to prepared rehabilitation surfaces in 2012. However, subsoil stockpiles required for future use were stockpiled near the entry gate to the required height.	OEC letter report, dated 30 May 2012, audit interview and information	It is advised that DoT consider amending the SREMP to reflect the new subsoil stockpile heights.

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
65	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Stockpile locations and volumes will be recorded and mapped , and stockpiles in the field will be signposted to allow easy differentiation of stripping dates.	Construction	Partially non-compliant	Subsoil stripping dates, volumes and locations were captured by OEC. During the site audit (12 December 2012), it was determined that there stockpile locations were not signposted, however there is current only one subsoil stockpile located at the entry gate and this has been identified on a figure. <i>Figure AU1588-03-01_B-A3_Site Rehabilitation Topsoil Harvesting and Rehabilitation provides a summary of topsoil locations and volumes within the site rehabilitation areas.</i>	Verbal confirmation, site inspection	For DoT to be fully compliant with the SREMP, it is advised that stockpiles are signposted on site and the stripping dates are included.
66	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Subsoil be replaced within Rehabilitation Blocks 2a-2c, 4a-4b and 6 to a maximum depth of 0.25 m , where adequate topsoil volumes are not available to achieve this profile depth.	Rehabilitation	Compliant	Subsoil was replaced within appropriate rehabilitation blocks to a maximum height of approximately 0.25 m depth, in accordance with the SREMP. The OEC Letter Report, dated 30 May 2012 (Augusta Boat Harbour - Update of Site Rehabilitation Activities), the Clearing Permit 39902 Annual Report (dated 29 June 2012) and figure <i>AU1588-03-01_B-A3_Site Rehabilitation Topsoil Harvesting and Rehabilitation</i> confirm that subsoil was replaced within the rehabilitation areas to a maximum depth of 0.25 m.	Letter report, verbal confirmation, figures and maps	
67	Site Rehabilitation and Environmental Management Plan	Soils and rehabilitation	Replaced subsoil will be re-contoured to blend with the surrounding vegetation / landform units in readiness for application of topsoil and then mulched vegetation.	Rehabilitation	Compliant	Re-contouring of subsoil was undertaken in accordance with the SREMP. During the site audit (12 December 2012), the Project Manager provided verbal confirmation that clearing and rehabilitation procedures were undertaken in accordance with the SREMP. Evidence that contouring had been undertaken was also observed during the site audit.	Interview and verbal confirmation, site inspection	
68	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Native vegetation removed during clearing of the quarry site will be spread onto prepared surfaces within Rehabilitation Blocks 2a-2c, 4a, 4b and 6 to 10 mm depth using a Posi Track to minimise compaction, prior to surface scarification.	Pre-construction	Partially non-compliant	During the site audit, the Site Supervisor confirmed that a skid steer loader (Posi Track) and raked forks were used for scarification and to spread vegetation debris. Photographs are available demonstrating the use of the Posi Track for spreading the native vegetation for rehabilitation. The SREMP specifies native vegetation be spread to a depth of 10 mm with a Posi Track, however the contractor has opted for a higher standard depth of 100 mm to improve rehabilitation conditions.	Verbal confirmation, photograph logs and site records.	
69	Site Rehabilitation and Environmental Management Plan	Rehabilitation / weed control	For Rehabilitation Blocks 3, 5a and 5b vegetation debris and brushing will be spread to 50 mm depth aimed at suppressing weed establishment in the ground cover. The material will be spread by machine across open areas within these blocks; however application by hand will be required in localised areas supporting <i>Kennedia lateritia</i> plants.	Rehabilitation	Compliant	Vegetation debris and brushing was spread to a depth of 50 mm in appropriate areas in accordance with the SREMP. The OEC letter report, dated 30 May 2012 (Augusta Boat Harbour - Update of Site Rehabilitation Activities) confirms that vegetation debris was scattered during rehabilitation. During the site visit (12 December 2012), photographic evidence confirming that vegetation debris has been spread was attained and the Project Manager provided verbal confirmation that clearing and rehabilitation procedures were undertaken in accordance with the SREMP.	Letter report, photographic evidence and verbal confirmation	

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70	Site Rehabilitation and Environmental Management Plan	Rehabilitation	There will be shallow contour scarification of rehabilitation surfaces within Rehabilitation Blocks 2a-2c, 4a, 4b and 6 to reduce the potential for surface erosion and promote a seed bed for establishing plants. Contour scarification will be completed with the front forks of a Posi Track to a maximum depth of 0.2 m prior to direct seeding and planting of nursery raised seedlings.	Rehabilitation	Compliant	Appropriate scarification was undertaken within relevant rehabilitation areas, and in accordance with the SREMP. The OEC letter report, dated 30 May 2012 (Augusta Boat Harbour - Update of Site Rehabilitation Activities) confirms that light scarification of topsoil using a stick rake was undertaken. During the site audit (12 December 2012) verbal confirmation from the Site Supervisor and the Project Manager was provided confirming that a Posi Track was also used for contouring and scarification in appropriate areas. Observations during the site audit confirmed that wind fencing was also constructed to reduce wind erosion.	Letter report, verbal confirmation, site inspection, observations	
71	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Direct seeding will be used to provide a fast establishing vegetation cover within Rehabilitation blocks 2-6, while enhancing native species richness. Hand sowing will be completed in during early winter at a rate of approximating 5-7 kg ha-1 .	Rehabilitation	Compliant	Direct seeding for fast establishing vegetation was undertaken in appropriate rehabilitation blocks. The OEC letter report (Augusta Boat Harbour - update of Site Rehabilitation Activities), dated 23 August 2012 confirms that direct seeding was undertaken. The letter report states that a seed mix comprising 51 species at a rate of 4.31 kg ha-1 was used. The Clearing Permit 39902 Annual Report, dated 29 June 2012 provides a summary of species sown by hand. Additionally, OEC has also provided verbal confirmation that direct sowing was undertaken on 29 June 2012.	Letter report, reports, verbal confirmation	The sowing rate completed in the field is slightly less than defined within the SREMP, however this was only an approximation.
72	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	For seed species where seed collection or germination of seed is not possible , plants will be produced by vegetative propagation using cuttings or rootstock material.	Rehabilitation	Compliant	Cuttings and rootstock materials were used for rehabilitation plant propagation as required. The Clearing Permit 39902 Annual Report (dated 29 June 2012) and verbal confirmation from the site audit (12 December 2012) confirmed that seed and cutting propagation was undertaken at Carramar Nursery. The Site Supervisor confirmed propagation of sedges was undertaken at the Augusta-Margaret River Shire, and that further propagation of sedges will be undertaken in the near future.	Reports and verbal confirmation	
73	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Native seed and cuttings for tube stock understorey species will be collected during the year prior to planting to ensure a sufficient period for propagation. For certain target species such as <i>Lepidosperma gladiatum</i> , this may involve disturbing areas of vegetation within the proposed clearing footprint at site in order to promote regrowth (daughter rhizomes) essential for plant propagation in the nursery.	Pre-construction	Compliant	Cuttings and rootstock materials were used for rehabilitation plant propagation as required. The Clearing Permit 39902 Annual Report (dated 29 June 2012) and verbal confirmation from the site audit (12 December 2012) confirmed that seed and cutting propagation was undertaken at Carramar Nursery. The Site Supervisor confirmed propagating of sedges was undertaken at the Augusta-Margaret River Shire, and that further propagation of sedges will be undertaken in the near future.	Reports and verbal confirmation	
74	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Seedlings for understorey species will be planted evenly across Rehabilitation Blocks 2-6 at a rate approximating 12,000 plants ha-1 .	Rehabilitation	Compliant	Seedlings for understorey species were planted evenly across appropriate rehabilitation blocks. Darren Brearley (OEC) confirmed that planting contractors were present at site between 25 and 29 June 2012, and that this was recorded during the June 2012 site inspection report.	Verbal confirmation, letter report	

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75	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Plantings of the DRF [Kennedia lateritia] will occur throughout all rehabilitation blocks at the site in an attempt to increase the size of the current population and consolidate the area of the population.	Rehabilitation	Compliant	The Threatened Flora species <i>Kennedia lateritia</i> was planted throughout rehabilitation blocks. Darren Brearley (OEC) confirmed that planting contractors were present at site for this purpose between 25 and 29 June 2012 and that this was recorded during the June 2012 site inspection report. The completion of this activity was also observed during the site audit (12 December 2012). Additionally, the Project Manager provided verbal confirmation that this had activity had been undertaken. Photograph logs are also available demonstrating that planting of <i>Kennedia lateritia</i> was undertaken to increase the current population within the area.	Verbal confirmation, site observations, photograph logs	
76	Site Rehabilitation and Environmental Management Plan	Clearing	Clearing of this vegetation [Peppermint (Agonis flexuosa) trees] shall be carried out in accordance with the Western Australian Department of Environment and Conservation's Guideline Procedures to Minimise Risk to Western Ringtail Possums During Vegetation Clearing and Building Demolition (DEC 2010).	During Clearing	Compliant	Clearing of peppermint trees was carried out in accordance with the Guideline Procedures to Minimise Risk to Western Ringtail Possums During Vegetation Clearing and Building Demolition. A letter from Sue Elscot (from Green Iguana, Dunsborough), dated 26 October 2011 confirms that clearing procedures for the Project were undertaken in accordance with the relevant guidelines.	Letter	
77	Site Rehabilitation and Environmental Management Plan	Re-vegetation / rehabilitation	Peppermint trees will be specifically established around the perimeter of the existing southern population of taller trees as part of the rehabilitation program to consolidate the existing stand.	Rehabilitation	Compliant	Peppermint trees were established around the southern population of taller trees, in accordance with the SREMP. The 2012 invoice from Carramar Nursery confirms the purchase of these plants. OEC has confirmed that the peppermint trees were planted between 25 and 29 June 2012, and that this was recorded during the June 2012 site inspection report.	Invoice, report, verbal confirmation	
78	Site Rehabilitation and Environmental Management Plan	Exclusion zones	In consultation with the Department of Environmental and Conservation (DEC) a suitable alignment for a perimeter fence will be determined and a fence constructed around the perimeter, or portions of the perimeter, following completion of construction . The alignment shall be chosen to minimise impacts to native vegetation. The type of fence or barrier may vary depending on the interface requirements of the rehabilitation areas to infrastructure but shall generally be 1 m high .	Post-Construction	Compliant	During the site audit (12 December 2012) visual evidence and photographs were attained confirming that relevant fences have been constructed to a height >1m. Additionally, verbal confirmation from Site Supervisor was attained during the site visit, confirming that fencing was constructed in accordance with the SREMP and interface requirements, including: <ul style="list-style-type: none"> • Pedestrian and vehicle access • Construction • Wind fencing • Sighter wire. 	Site inspection, photographs, verbal confirmation	
79	Site Rehabilitation and Environmental Management Plan	Exclusion zones	The same style of fencing will be erected to separate infrastructure areas from existing native vegetation in areas at high risk of uncontrolled pedestrian traffic, e.g. coastal side of car parks. Fencing will also be appropriate to act as a dust screen to further minimise the risk of the impacts of dust emissions.	Post-Construction	Compliant / Not required at this stage	During the site audit visual evidence and photographs were attained confirming that relevant fences have been constructed and that they have been constructed to a height >1m. Additionally, verbal confirmation from Site Supervisor was attained during the site visit, confirming that fencing was constructed in accordance with the SREMP and interface requirements, including: <ul style="list-style-type: none"> • Pedestrian and vehicle access • Construction • Wind fencing • Sighter wire. 	Site inspection, photographs, verbal confirmation, observations.	

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80	Site Rehabilitation and Environmental Management Plan	Exclusion zones	Dust control during construction and quarrying work will also focus on limiting the amount of dust generation through the use of plant and equipment such as water carts as practicable.	Construction	Compliant	Dust generation has been managed on site in accordance with the SREMP. During the site audit (12 December 2012), a water cart (20,000 L) was observed. The Site Supervisor confirmed that the water used as required to control dust generated through construction. The Site Supervisor verified that the water cart is used on an as needs basis, and visual assessments are undertaken by the contractor and Site Supervisor regularly.	Site inspection, verbal confirmation	
81	Site Rehabilitation and Environmental Management Plan	Fauna (terrestrial)	Control options [for introduced fauna] should be considered carefully in liaison with surrounding land managers, primarily DEC in this case, prior to being implemented. Potential management options for the Augusta Boat Harbour site are: Construction of perimeter fencing around rehabilitation areas; Annual baiting for rabbits in and around rehabilitation areas; Baiting for snails ; and Fox and feral cat control .	Pre-construction	Compliant	Introduced fauna on site is managed in accordance with the SREMP. During the site audit (12 December 2012) perimeter fencing was observed around rehabilitation areas. The OEC letter report, dated 23 August 2012 confirms that rabbit baiting has been undertaken on site. ALPHA Pest Animal Solutions was commissioned to undertake a targeted rabbit control program at Augusta Boat Harbour and a preliminary site visit was undertaken 13 July 2012, followed by fumigation of rabbit warrens undertaken on 3 August 2012. The results are outlined in the Rabbit Control Progressive Report at Augusta Marina. OEC provided confirmation that the Rabbit Meamorrhagic Disease Virus (RHDV) was released in November 2012, this is outlined in the June 2012 OEC site inspection.	Letter report, report, verbal confirmation and site inspection	
82	Site Rehabilitation and Environmental Management Plan	Fire	The DoT will liaise with DEC to ensure that fuel loads within the adjacent National Park areas remain at acceptable levels during the early stages of rehabilitation development , and that any controlled burns undertaken account for the location and age of the rehabilitation at the Augusta Boat Harbour.	Planning	Partially non-complaint	Liaison with the DEC regarding fuel loads within the adjacent National Park has not yet been undertaken. During the audit process the Project Manager advised that there are a number of matters that require discussion / reporting between the DoT and DEC including clearing permit reporting, conservation fence alignments and types, and fire management. The first phase of rehabilitation planting has been completed with a second phase scheduled for 2014. The second phase will include a replanting of the previous planted areas to replace lost stock in the establishment phase. DoT intends to liaise with the DEC on all these items throughout the construction phase with outcomes agreed prior to construction completion, when all plantings have been completed and the early stage of the overall rehabilitation establishment has commenced. OEC advised that following the Margaret River bushfires there has been a no-burn policy for the majority of WA and the likelihood of DEC agreeing to this commitment would need to be considered prior to action being implemented. This commitment is also subject to negotiation with DEC and consideration will need to be given to the potential for additional impacts, such as impacts to Threatened Flora and Western Ringtail Possums	Verbal confirmation	

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
83	Site Rehabilitation and Environmental Management Plan	Dieback	Management of dieback during construction operations will be facilitated by: <ul style="list-style-type: none"> • Adopting a formal approach to managing the dieback threat; • Ensuring that the in situ status does not increase as a result of project development. 	Construction	Compliant	<p>Management of dieback during construction operations has been undertaken on site in accordance with the SREMP. A formal dieback assessment was undertaken for the project in the DoT Augusta Boat Harbour <i>Phytophthora cinnamomi</i> Occurrence Assessment - Draft (Report compiled by Simon Robinson of Glevan Consulting), dated 14 September 2010 was prepared for the site and provides an overview and requirements for dieback.</p> <p>During the audit process the Project Manager advised that dieback risks associated with preliminary earthworks were managed in accordance with the Access Road Construction EMP (prepared by Oceanica) and the DoT work instruction for vehicle and machinery hygiene included.</p> <p>Additionally, the Project Manager advised that the dieback management requirements for the breakwaters and bulk earthworks contract were undertaken in accordance with and provided in the WA Limestone / Italia Stone Group CEMP at clause 3.3.</p> <p>During the audit process the Project Manager also advised that the topography of the site provides drainage relief to the ocean. Quarrying activities in the northern end would channel water away from the northern dry population and across the rocks at the southern breakwater. Therefore there is no downstream vegetation that could be affected by dieback pathogens.</p>	Reports, verbal confirmation	Prior to a haulage campaign from the sand pit to the site will require a specific dieback management procedure that will be developed once all necessary approvals have been obtained and a dieback assessment completed from the sand pit reserve to the boat harbour site. These works may not be delivered under the current BBE contract but in a future Civil Works contract. Once the Civil Works contract has been awarded they too would be required to prepare a CEMP for their activities which would include dieback management
84	Site Rehabilitation and Environmental Management Plan	Dieback	All contractors will follow strict hygiene protocols when entering the Project area from a ' Clean on Entry Point ' located at the junction of Leeuwin Road and the site access road. The Clean on Entry Point will be the sole entry point onto the site and represent the point at which all personnel will take personal responsibility to ensure the vehicles and machinery they are operating have been appropriately cleaned to ensure no dieback, weeds or other foreign diseases / pests are unknowingly introduced. The Clean on Entry Point will be clearly signposted in red and a copy of the relevant Work Instruction outlining vehicle and machinery hygiene responsibilities and procedures will be maintained at the same point.	Construction	Compliant	<p>All contractors on site follow hygiene protocols and the Clean on Entry Point has been implemented junction of Leeuwin Road and the site access road. During the site audit (12 December 2012) the Clean on Entry Point sign was clearly observed at the site access gate, this is also evidenced in the photographic records of the Clearing Permit 39902 Annual Report (dated 29 June 2012).</p> <p>During the site audit the Site Supervisor and contractor confirmed that all works are undertaken in accordance with SREMP and CEMP. The Site Supervisor verified the site's Clean on Entry Point procedure and that plant and machinery is cleaned by the contractor before entry to site. The Site Supervisor also advised that haul trucks only travel bitumen and limestone roads, to eliminate the spread of dieback.</p>		

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Ref	Compliance Reference	Subject	Requirement	Phase	Status	Comments	Evidence	Recommendations
85	Site Rehabilitation and Environmental Management Plan	Dieback	All vehicles and machinery must be clean prior to entering site . The process will require either a wash-down or brush down procedure which is outlined in Work Instruction 1. The wash-down / brush down bay will be located at an appropriate Shire facility in Augusta; cleaning of vehicles and machinery should not be completed at the Clean on Entry Point or on site under any circumstance.	Construction	Compliant	<p>All vehicles and machinery are cleaned prior to entering the site. During the audit process it was confirmed that no shire wash-down bay was constructed. However, the Project Manager advised all heavy plant that was transported to site was washed down at the contractor's depot from which it was transported prior to it leaving, and that each piece of heavy plant was inspected at the point of entry to the site by the Site Supervisor.</p> <p>A formal dieback site assessment was undertaken and is detailed in <i>Phytophthora cinnamomi</i> Occurrence Assessment (Report compiled by Simon Robinson of Glevan Consulting), dated 14 September 2010. The report determined that Site conditions were observed to be unfavourable for <i>P. Cinnamomi</i> due to soil type and a lack of susceptible plants.</p> <p>The Project Manager advised during the audit process that further dieback assessment and analysis of the topography of the land determined that a wash down of trucks entering and leaving the site did not require construction of a wash down facility.</p>	Reports, verbal confirmation	
86	Site Rehabilitation and Environmental Management Plan	Dieback	Plant stock used for on-site rehabilitation works will be certified dieback-free prior to being delivered to site.	Rehabilitation	Compliant	The OEC provided verbal advice on 21 December 2012 that all nursery stock was purchased solely from Carramar Nursery at Secret Harbour. Carramar Nursery implement standard hygiene procedures in their nursery, use certified potting mix, and undertake routine testing of their plant stock.	Verbal confirmation	Verbal confirmation from OEC.
87	Site Rehabilitation and Environmental Management Plan	Dieback	Access into areas of native vegetation that are not to be cleared or disturbed will be strictly controlled by a combination of non-permanent fencing and locked gates . There will be clear signposting informing of restricted access at these points. These areas will be clearly demarcated on a site map and included into the formal site induction process. Entry into these areas will be restricted to environmental and/or rehabilitation activities, such as weed control and monitoring; appropriate hygiene measures will apply prior to entry (as described below).	Construction	Compliant	<p>Access into areas of native vegetation that were not to be cleared or disturbed on site were strictly controlled. During the site audit (12 December 2012) it was visually confirmed that a locked gate is present at the front of the site and that rehabilitation areas have been fenced off accordingly, thereby restricting access.</p> <p>During the site audit the Site Supervisor confirmed that the site induction includes the identification and importance of these areas. Induction logs were also sighted during the site audit visit and site maps are provided in the site office</p>	Verbal confirmation, observations	
88	Site Rehabilitation and Environmental Management Plan	Dieback	Surface run-off from roads, stockpiles and other soil disturbances/trafficked areas should be contained within the disturbed areas as far as is practicable. Management strategies will include staged clearing of vegetation, retention of vegetation as perimeter buffers, retention of vegetated strips within the clearing zone, and perimeter bunding of topsoil and subsoil stockpiles	Construction	Compliant	<p>Surface run-off from roads, stockpiles and other soil disturbances / trafficked areas were contained within the disturbed areas as required and in accordance with the SREMP. During the site audit (12 December 2012) it was observed that stockpiles were positioned appropriately and the Site Supervisor confirmed that bunding was used to control stormwater runoff from the site area.</p> <p>Stormwater management was undertaken in accordance with figure <i>AU1554-18-01_A-A3_Temporary Stormwater Drainage Management</i> and the Augusta BH Stormwater Drainage Management Plan.</p>	Verbal confirmation, reports and management plans, photographs	

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89	Site Rehabilitation and Environmental Management Plan	Surface water and dieback	During initial construction of the site access road within Vegetation type 2 'Humic Granitic/ Sandy Swale' , surface drainage within disturbed areas of this low lying area will be managed by constructing temporary limestone bunds immediately after installation of the fences and prior to any kikuyu stripping commencing.	Construction	Compliant	Temporary limestone bunds were constructed within the low lying Vegetation Type 2 area, in accordance with the SREMP. During the site audit, verbal confirmation was provided from the Site Supervisor and the Project Manager that surface water management and bunding was undertaken in accordance with the SREMP. Evidence of this is also provided in figure <i>AU1554-18-01_A-A3_Temporary Stormwater Drainage Management</i> and the Augusta BH Stormwater Drainage Management Plan and other photographic records available.	Verbal confirmation, reports and management plans, photographs	



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