



Staging Report

Woolgoolga to Ballina Pacific Highway Upgrade

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Glossary / Abbreviations

| CEMP | Construction Environmental Management Plan |
|--------------------|-----------------------------------------------------------|
| DP | Delivery Partner |
| DoE | Department of Environment (Commonwealth) |
| EEC | Endangered Ecological Communities |
| EIS | Environmental Impact Statement |
| EPA | Environment Protection Authority |
| EPBC Act | Environment Protection Biodiversity Conservation Act 1999 |
| EPA&A Act | Environmental Planning and Assessment Act 1979 |
| EWMS | Environmental Work Method Statement |
| LALC | Local Aboriginal Land Council |
| MCoA | Ministers Condition of Approval |
| NSW TSC Act | NSW Threatened Species Conservation Act 1995 |
| PC | Pacific Complete |
| Project, the | Woolgoolga to Ballina Pacific Highway Upgrade Project |
| Roads and Maritime | Roads and Maritime Services |
| SPIR | Submissions/Preferred Infrastructure Report |
| | |

1 Introduction

1.1 Project description

NSW Roads and Maritime Services is upgrading the Pacific Highway between Woolgoolga and Ballina on the NSW North Coast. This is known as the Woolgoolga to Ballina Pacific Highway Upgrade Project (the project). An overview of the project is shown in Figure 1-1.

The Woolgoolga to Ballina project is Australia's largest regional infrastructure project and will duplicate about 155 kilometres to a four-lane divided road. The project starts about six kilometres north of Woolgoolga (north of Coffs Harbour) and ends about six kilometres south of Ballina.

When complete, the project will:

- Reduce overall length from 180 kilometres to about 167 kilometres, saving about
 13 kilometres in travel distance
- Allow for a higher posted speed limit of up to 110 km/h
- Reduce travel time from 130 minutes to about 105 minutes, saving 25 minutes
- Reduce crash rates by an expected 27 per cent due to divided carriageways
- Improve travel reliability through better flood immunity, fewer incidents and more readily available alternative routes.

Key features of the upgrade include:

- Duplication of 155 kilometres of the Pacific Highway to a motorway standard (Class M) or arterial road (Class A), with two lanes in each direction and room to add a third lane if required in the future
- Split-level (grade-separated) interchanges at Range Road, Glenugie, Tyndale, Maclean, Yamba / Harwood, Woombah (Iluka Road), Woodburn, Broadwater and Wardell
- Bypasses of South Grafton, Ulmarra, Woodburn, Broadwater and Wardell
- About 40 bridges over rivers, creeks and floodplains, including major bridges crossing the Clarence and Richmond rivers
- About fifty-five underpasses and bridges over and under the highway to maintain access to local roads that crossing the highway
- Access roads to maintain connections to existing local roads and properties
- Structures designed to encourage animals over and under the upgraded highway where it crosses key animal habitat or wildlife corridors
- Rest areas located at about 50 kilometre intervals at Arrawarra, Pine Brush (Tyndale), north of Mororo Road and north of the Richmond River
- A heavy vehicle checking station near Halfway Creek and north of the Richmond River.

The Woolgoolga to Ballina upgrade does not include the completed Devils Pulpit and Glenugie upgrade projects.

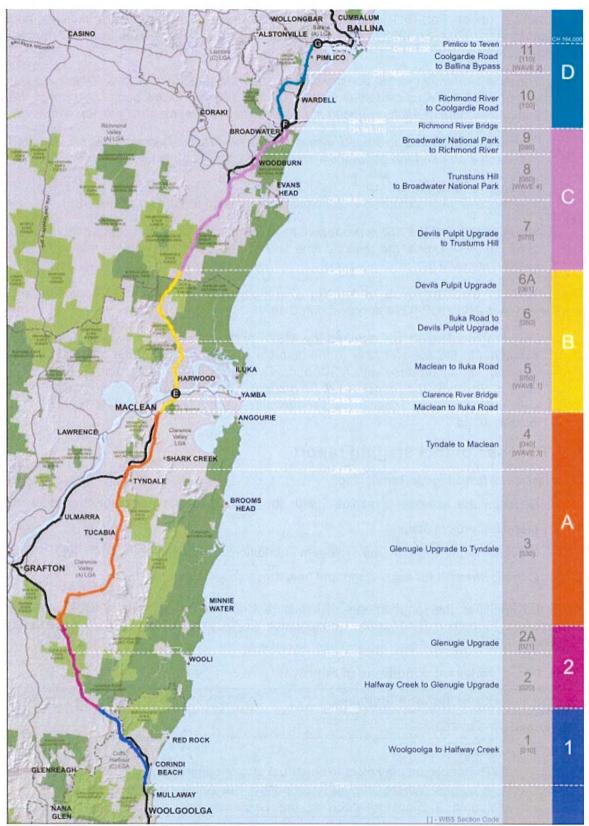


Figure 1-1 Woolgoolga to Ballina Highway Upgrade Project

1.2 Approval framework

The Woolgoolga to Ballina Pacific Highway upgrade is approved as State Significant Infrastructure under Part 5.1 of the New South Wales *Environmental Planning and Assessment Act 1979* (SSI-4963, approval dated 24 June 2014). NSW Condition of Approval (MCoA) A7 states:

The Applicant may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report shall provide details of:

(a) how the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and

(b) details of the relevant conditions of approval, which would apply to each stage and how these shall be complied with across and between the stages of the SSI.

Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).

The project is also approved under the Commonwealth *Environment Protection and Biodiversity Act* 1999 (012/6394 approval dated 14/08/14).

The Staging Report as required by NSW approval condition A7 must be submitted to the Minister prior to the commencement of each of the proposed stage(s). In accordance with NSW approval condition A7 the Staging Report must outline how the proposal will be staged. The Staging Report must also outline the threatened species and communities, and migratory species impact in each stage.

1.3 Purpose of this staging report

The purpose of this Staging Report is to:

- Describe the activities associated with the project, and in particular the scope of proposed project staging
- Provide detail as to the relevant conditions of approval (both NSW and Commonwealth) for each stage and how these shall be complied with.

Table 1-1 identifies the requirements of Ministers Condition of Approval (MCoA) A7 and Environment Protection Biodiversity Conservation (EPBC) 1 and where they have been addressed in this report.

Table 1-1 Relevant conditions of approval

| CoA | Condition requirements | Reference |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| NSW con | ditions of approval | |
| A7 | Staging The Applicant may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the | This report |

| CoA | Condition requirements | Reference |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| | commencement of each proposed stage. The Staging Report shall provide details of: | |
| (a) | How the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence. | Sections 3, 4, 5 and 6 |
| (b) | Details of the relevant conditions of approval, which would apply to each stage and how these shall be complied with across and between the stages of the SSI. | Appendix A and Appendix B |
| - | Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s). | - |
| Commonv | vealth conditions of approval | |
| 1 | Staging of the action The Staging Report as required by NSW approval condition A7 must be submitted to the [Commonwealth] Minister prior to the commencement of each proposed stage(s). | This report |
| | In accordance with NSW approval condition A7, the Staging Report must outline how the proposal will be staged. | Sections 3, 4, 5 and 6 |
| | The Staging Report must also outline the threatened species and communities, and migratory species impacted by each stage. | Section 7 |

2 Roads and Maritime Delivery Strategy

2.1 Project Scope

As outlined in Section 1.2, NSW Roads and Maritime Services (RMS) has received approval to upgrade the Pacific Highway between Woolgoolga and Ballina to a four-lane motorway standard highway (known as a class M highway). This section of the highway is about 155 kilometres long.

The construction of the project would be staged to include both arterial sections (known as class A) and motorway standard sections (known as class M). For sections of the project initially upgraded to arterial standard, the design allows for these sections to be upgraded to motorway standard in the future. These criteria are outlined in Figure 2-1 below.

KEY TERM - class M (Motorway standard) / class A (Arterial standard)

Class M: Two lanes in each direction, 110 km per hour posted speed limit, controlled access highway with grade separated interchanges, and a continuous alternative route for local traffic.

Class A: Two lanes in each direction, at least 100 km per hour posted speed limit, limited access highway with at-grade intersections. This may include intersections where right turn movements are permissible. Under class A, local traffic and through traffic could share the highway.

Figure 2-1 Definition of upgrade class

The project would be built as an arterial highway in some sections and later upgraded to a full motorway standard. Accordingly, the project has been designed so it can be constructed in stages, and progressively upgraded to full motorway standard.

While the overall project is for a full motorway standard throughout, staging of the project would include building an arterial highway in some sections and later upgrading it to a full motorway standard (referred to as the 'ultimate' upgrade).

The project EIS (Section 6.1.2) outlined that any construction staging would need to consider:

- The availability of funding from relevant levels of Government and affordability
- The need to minimise road user delays
- The need for local road and property access
- The need for land acquisitions
- The earthworks balance, both within each section and across all sections
- Areas that may require soft soil pre-loading
- The sequence in which completed sections could be opened to traffic.

2.2 Project delivery model

Delivery of the final section of the Pacific Highway Upgrade will be tailored to the project, based on the model used to build infrastructure for the London Olympics. The upgrade will use an industry partner contract model to harness the best ideas and solutions from the private sector and draw on knowledge from within government.

The traditional practice would be to deliver the project as four or five separate packages using design and build or build only contracts. Under this new model, a major provider with design, building and management expertise has been engaged to oversee the project in collaboration with Roads and Maritime's Pacific Highway Office, managing multiple contracts for professional services, supply, and building of the highway. The delivery partner model will offer better value for money and drive project efficiencies.

Roads and Maritime Services has engaged Pacific Complete (comprising Laing O'Rourke and WSP Parsons Brinckerhoff) to partner with the Pacific Highway Office to deliver the 155km Woolgoolga to Ballina Pacific Highway upgrade.

The delivery partner model encourages the best ideas and solutions from the private sector and is tailored to this project so that it draws on NSW Government knowledge to deliver better engineering and design, customer outcomes and public value.

The model also allows for better outcomes across the supply chain. This is through a consistent and coordinated approach, economies of scale and better access to competitive supplies and contractors, which will help the project meet its 2020 deadline.

Section 6.1.2 of the EIS outlined that the project would be delivered in 5 Stages. RMS has considered a range of packaging strategies with regards to the available funding, affordability, industry resources and capacity and the need to achieve the target of a dual, separated carriageway between Woolgoolga and Ballina by 2020. As a result, the project will now be undertaken in four stages as outlined below.

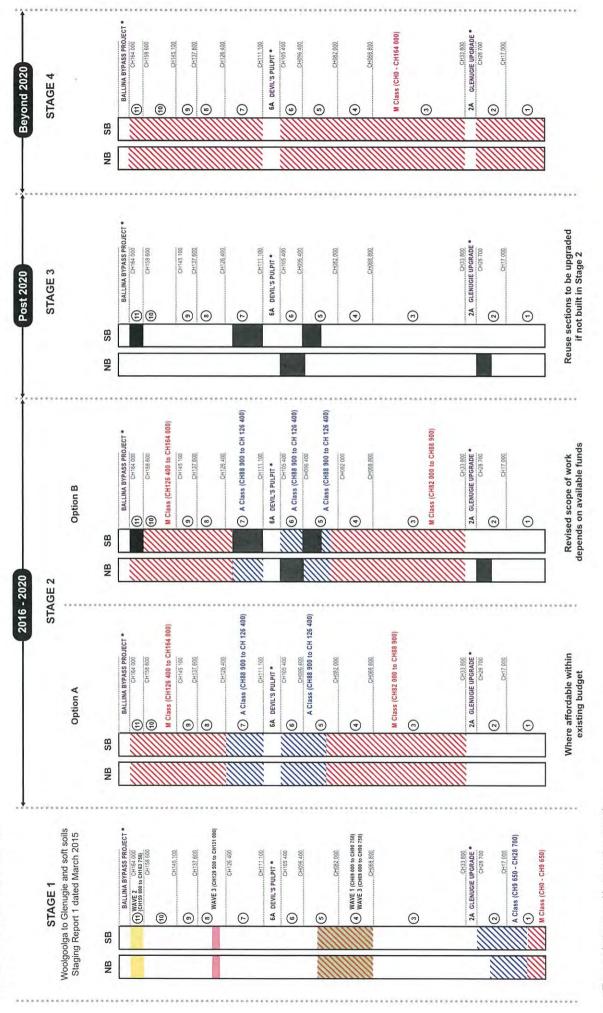
The Woolgoolga to Ballina project will be completed in the following stages:

- Stage 1 (as outlined in W2B Staging Report Version 1, March 2015) will include preconstruction activities, selected utility relocations, archaeological salvage works, construction of sections 1 & 2 (Woolgoolga to Glenugie) and soft soil early works (Waves 1,2 and 3).
- Stage 2 (this report) will be for construction (sections 3-11), between Glenugie and Ballina. With regards for the need to balance available funding with the completion of a dual separated carriageway, the intent of Stage 2 is to upgrade the section between Glenugie and Ballina to combination of M and A Class. EIS Sections 3 and 4 will be upgraded to the final M Class. Sections 5 and 6 will be a combination of A and M class. Sections 7, 8 and 9 will be a combination of A and M Class. Sections 10 and 11 will be constructed to the final M Class. Details of proposed locations of the A and M class in Stage 2 is provided in 4.2 of this Staging Report.

The combination of the A and the M class has been determined such that the available funding is used efficiently while achieving the 2020 project objectives. These works are being managed by Pacific Complete and will include the progressive opening of the highway to traffic in the required configuration to meet the 2020 project objectives.

The detailed design phase is currently underway for the sections between Glenugie and Ballina. Should the available funding not be sufficient to achieve the proposed combination of A and M class outlined above, as a contingency measure, opportunities to re-use existing sections of the existing Pacific Highway are being explored.

- Further details of the proposed pavement reuse strategy are provided in section 4.2.1 of this report. A graphical representation of the potential approach to reusing existing sections of the Pacific Highway is provided below.
- Stage 2 of the upgrade includes two options to achieve the 2020 objective. Stage 2
 Option A represents the construction of the full combination of the A and M class. Stage 2
 Option B represents the potential combination of reused sections of the Pacific Highway.
- Stage 3 progressive rehabilitation of pavement reuse areas along the project length. This will see the reused sections upgraded to A or M class as funding becomes available.
- Stage 4 the upgrade of the remaining sections of the highway to the ultimate M-Class configuration.



These projects covered by separate approvals.



(1)-(1) EIS sections

3 Stage 1

3.1 Overview of Stage 1

Stage 1 of the project consists of the following activities:

- · Pre-construction activities
- Construction of Section 1 Woolgoolga to Halfway Creek
- · Construction of Section 2 Halfway Creek to Glenugie
- Soft Soil pre-load construction activities Waves 1, 2 & 3.

These activities are summarised below. Indicative construction timing of Stage 1 is shown in Table 3-1 below.

Table 3-1 Stage 1 indicative construction program

| Stage 1 | Estimated Commencement | Estimated Completion |
|-----------------------------------------|------------------------|-------------------------|
| Section 1 – Woolgoolga to Halfway Creek | May 2015 | Late 2017 |
| Section 2 – Halfway Creek to Glenugie | May 2015 | Mid 2017 |
| Waves 1,2,3 - Soft soils preload works | June 2015 | March 2019 |

3.2 Pre-Construction Activities

There are a number of initial proposed activities that are not defined as either "construction" under the New South Wales approval or "commencement" under the Commonwealth approval for the project and do not therefore trigger particular approval conditions. These activities do not form part of the construction stages which are the primary focus of this document. They are however described below for general information. The pre-construction activities will include:

- Utility relocations
- Fencing
- Salvage.

The due diligence process for ensuring that activities to be carried out during pre-construction do not trigger "construction" under the New South Wales approval or "commencement" under the Commonwealth approval would be the completion of a compliance checklist and appropriate environmental consistency assessment that would be prepared by the Project Manager / relevant Contractor to review the proposed activities against the relevant conditions of approval and be signed off by the Roads and Maritime Pacific Highway Upgrade Environment Manager and Environmental Representative or Secretary. If the proposed activities are not considered consistent with the requirements to not trigger 'construction' or 'commencement' of construction then the activities would be put on hold until substantial construction has commenced.

The definitions of 'construction' and 'commencement' as detailed in the relevant approval documents (NSW Infrastructure approval document SSI-4963 and Commonwealth Department of the Environment approval document EPBC 2012/6394 respectively) are provided below.

Construction – includes all work in respect of the SSI other than:

- a) Survey works including general alignment survey and survey controls (including installation of global positioning system (GPS), repeater stations, survey of existing and future utilities or building/road dilapidation surveys.
- b) Further investigations including investigative drilling, excavation or salvage; treatment of contaminated sites or work undertaken in accordance with a strategy or salvage operations required by the conditions of this approval.
- c) Establishing ancillary facilities/construction work sites (in locations meeting the criteria identified in the conditions of approval), or where criteria are not fully satisfied, those ancillary facility sites which have been fully assessed against all criteria, with mitigation to manage and minimise impacts identified in the documents referred to in condition A2 and approved by the Environmental Representative or Secretary. This includes the establishment of ancillary facilities access roads and the provision of services to the facility and installation of erosion and sedimentation controls.
- d) Installation of environmental impact mitigation measures (including erosion and sedimentation control, temporary exclusion fencing or sensitive areas, and athouse acoustic treatment) and measures identified in approved strategies, plans, programs and other documents required by the conditions of this approval (including works associated with the construction of connectivity structures (including boundary and exclusion fencing and vegetation planting)).
- e) Property acquisition adjustment works including the installation of property fencing, demolition and removal of buildings, relocation of utilities to property (including water supply and electricity).
- f) Utilities and adjustments within sections 1, 4, 5, 6 and 11 of the SSI, as specified in the documents referred to in condition A2(f), where an Environmental Work Method Statement has been approved by the Secretary in consultation with EPA and DoE.
- g) Existing road network adjustments including minor upgrades to existing local roads and the existing Pacific Highway network, upgrade of existing intersections to cater for construction traffic and installation of temporary project signage.
- h) Minor clearing or translocation of native vegetation association with (a) to (g) above.
- Other activities determined by the Environmental Representative to have minimal environmental impact (e.g. minor access roads, minor adjustments to services/utilities, etc.).

Note: Work where heritage, threatened species or suitable habitat, populations or endangered ecological communities would be affected is classified as construction, unless otherwise approved by the Secretary in consultation with the Environment Protection Authority or in accordance with an approved strategy, plan or program required by this approval.

Commence, Commencement and Commenced – means any works where threatened species and communities or suitable habitat for threatened species and communities is directly or indirectly impacted, excluding the utility adjustments required in Sections 1, 4, 5 and 11; Nest Box Installation; Installation of Emu Fencing; Installation of Fauna Fencing in all Sections except Section 10; planting of vegetation for land bridges; Aboriginal heritage salvage operations; and survey works defined in the NSW approval decision in Definitions: Constructions (a).

3.2.1 Utility relocations

The utility relocation works for the project in Sections 1, 4, 5 and 11 do not trigger construction or commencement as defined by the project approval conditions. The decommissioning of redundant utilities and the identification of the utility corridor for subsequent relocations are assessed for environmental impact (in particular to any heritage items or threatened species) prior to the commencement of any relocation work.

Where it is deemed that the utility works do not constitute construction, Environmental Work Method Statements (EWMS) for the utility work are then developed from the results of the environmental assessment, which are reviewed and endorsed by the project Environmental Representative and approved by the Secretary in consultation with EPA and DoE.

3.2.2 Fencing

Temporary emu fence has already been installed at locations within Section 3 (Figures 3-1, 3-2 and 3-3), in accordance with the project approval definitions. Temporary emu fence will be installed across the remainder of the length of Section 3 and Section 4 during the stage 2 main construction. It is not required in Section 4 for the stage 1 (early works pre-treatment) construction. This is because traffic activity is expected to be minimal during stage 1 and would be restricted to open country. Emus are regularly observed in cane properties around Shark Creek (Section 4) where they frequent modified habitat and are easy to sight in the open areas. Emu activity would be monitored during stage 1 (early works) and if emus are found to be frequenting the construction corridor during the early works activities, this would trigger the need to erect temporary emu fencing in Section 4.

A specific ecological assessment was completed along the length of the temporary fence to identify threatened species, habitat and endangered ecological communities. An EWMS was prepared and approved by the Secretary, in consultation with EPA and DoE.

The approved EWMS for the temporary emu fence allowed for *I* approved clearing of 1 hectare of native vegetation, including 0.24 hectares of Endangered Ecological Communities (Subtropical Coastal Floodplain Forest on Coastal Floodplains), and individual Angophora robur trees.



Figure 3-1 Temporary emu fencing



Figure 3-2 Temporary emu fence and bollard gate



Figure 3-3 Temporary emu squeeze style fence

3.2.3 Salvage

A proposed methodology was submitted by the two companies contracted to undertake the salvage works. These were submitted to the relevant Local Aboriginal Land Council (LALC) for comment over a 28 day consultation period. Methodologies were updated to reflect LALC comments and submitted to agencies for approval. After agency approval on 17 August, 2014, salvage works commenced on 1 September 2014. These salvage works have a targeted completion date of May 2016. Predominantly two salvage teams have been working throughout this period.

3.3 Section 1 - Woolgoolga to Halfway Creek

Section 1 of the Woolgoolga to Ballina Pacific Highway upgrade involves the upgrade of the section of Pacific Highway, situated between two other upgraded sections of the Pacific Highway, Sapphire to Woolgoolga upgrade to the south and Halfway Creek duplication to the north (Figure 3-4 and Figure 1-1).

The main features of the Section 1 upgrade are:

- the construction of a length of approximately 14.7 kilometres of roadway to median separated dual carriageway standard
- · nine bridges over watercourses, floodplain and local roads
- · establishment of a rest area at Arrawarra.

Construction activities will involve:

- · site compound and ancillary site setup
- demolition of existing structures/houses
- · clearing of vegetation
- · utility relocations
- earthworks including material processing from a large cutting
- · bridge works including foundations, girder erection and completion
- · drainage works
- pavement works
- · landscaping and finishing.

3.4 Section 2 – Halfway Creek to Glenugie

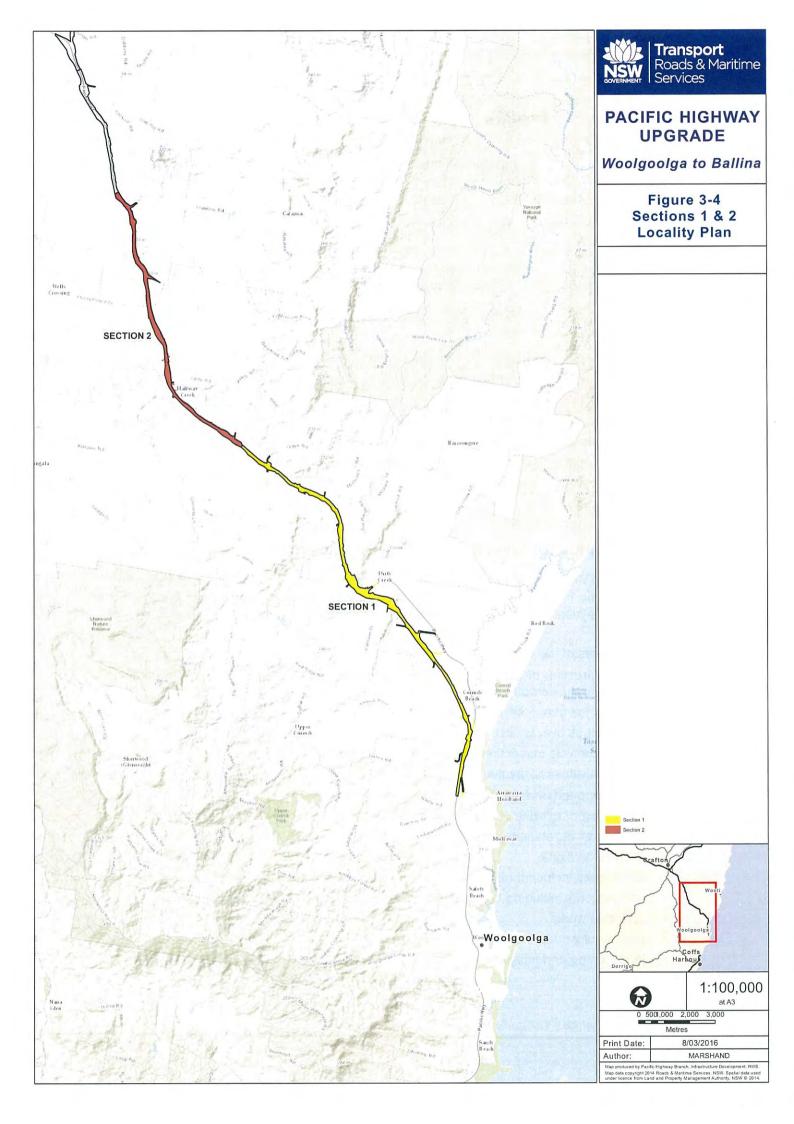
Section 2 of the Woolgoolga to Ballina Pacific Highway upgrade involves the upgrade of the section of Pacific Highway, situated between two other upgraded sections of the Pacific Highway; Halfway Creek upgrade to the south and Glenugie upgrade to the north (Figure 3-4 and Figure 1-1).

The main features of the Section 2 upgrade are:

- the construction of a length of approximately 15.2 kilometres of roadway to median separated dual carriageway standard
- twin bridges over Halfway Creek and Wells Crossing
- · nine bridges over watercourses, floodplain and local roads
- a heavy vehicle inspection station.

Construction activities will involve:

- · site compound and ancillary site setup
- demolition of existing structures/houses
- · clearing of vegetation
- utility relocations
- earthworks including material processing from large cutting
- bridge works including foundations, girder erection and completion
- drainage works
- pavement works
- landscaping and finishing.



3.5 Soft Soil preload construction works (Wave 1, 2 and 3)

Due to the presence of soft soils in the vicinity of the Clarence River and Richmond River floodplains, initial works are required in advance of the main construction of the highway to consolidate the deep soft soils under the proposed highway alignment.

Figure 3-5 provides general location details of waves 1, 2 and 3 in relation to the sections of the project and each other. More specific location details of the waves are provided in Figure 3-6 (for waves 1 and 3) and Figure 3-7 (for wave 2).

Details regarding soft soils Wave 1 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).
- Wave 1 soft soil works is located in sections 4 and 5 (between CH 69,000 and 90,750).
 A total of 4.14km of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments.
- A highway cutting at approximately CH 69,000 to 69,500 will be the main source for general fill for the embankments.

Details regarding soft soils Wave 2 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).
- Wave 2 soft soil works is located in section 11 (between CH 159,900 and 163,750). A total of 3.85km of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, and associated temporary works.

Details regarding soft soils Wave 3 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).
- Wave 3 soft soil works is located in project sections 4, 5, 8 (between CH 69,000 and 90,750 and between CH 129,500 and 131,000). A total of 7.14 km in sections 4, 5 and 1.5km in section 8 of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments.

 A highway cutting at approximately CH 75,200 to 77,000 will be the main source for general fill for the embankments.

Construction activities associated with soft soil preloading works will involve:

- site compound and ancillary site setup
- · demolition of existing structures/houses
- · clearing of vegetation
- · utility relocations
- earthworks including material processing from two large cuttings
- drainage works
- · temporary landscaping and finishing.



Figure 3-5 Overview Stage 1 - Wave 1, 2, 3

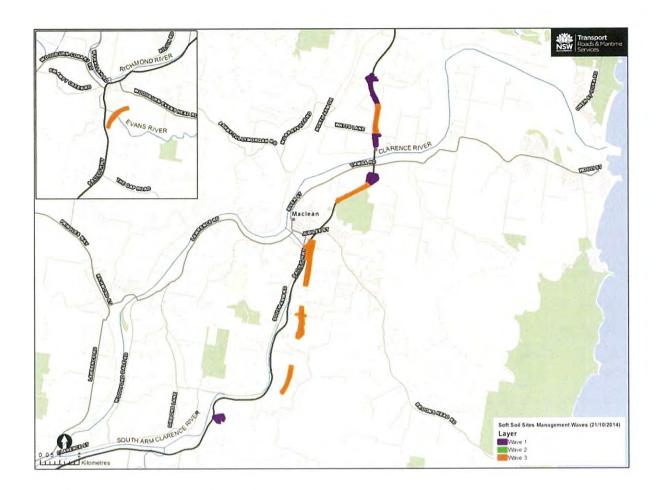


Figure 3-6 Stage 1 - Wave 1 and 3 Plan

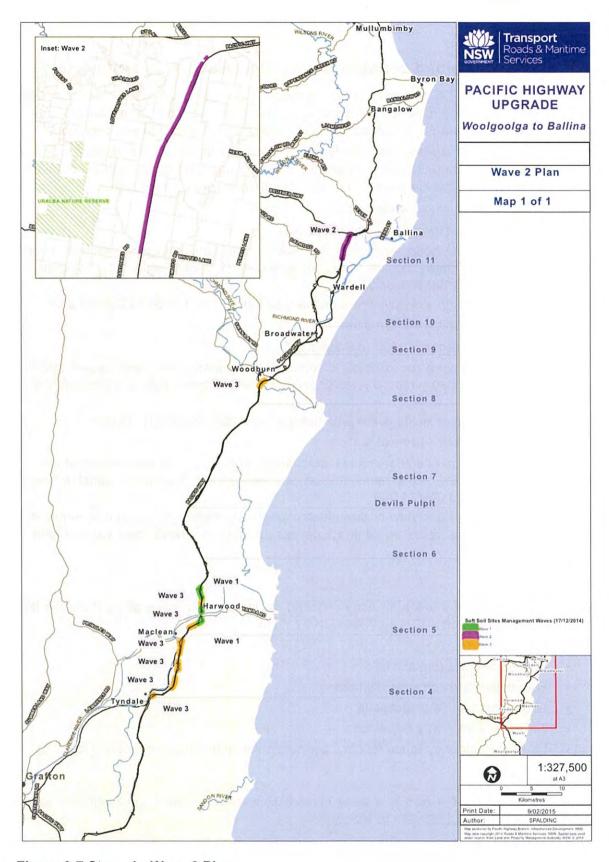


Figure 3-7 Stage 1 - Wave 2 Plan

4 Stage 2

4.1 Soft Soil preload construction works (Wave 1, 2, 3 and 4)

As outlined in Section 3.5, due to the presence of soft soils in the vicinity of the Clarence River and Richmond River floodplains, initial works are required in advance of the main construction of the highway to consolidate the deep soft soils under the proposed highway alignment.

In consultation with Roads and Maritime Services, Pacific Complete identified some program and procurement opportunities to increase the scope of the existing soft soil activities that commenced in Stage 1 of the project. The changes to these are outlined below.

The main features of soft soil wave 1 are:

- As outlined in Stage 1 (refer to Section 3.5)
- The work has been expanded to include the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments between CH83,100 and CH91,200.

The main features of soft soil wave 2 are unchanged from Stage 1 (refer to Section 3.5)

The main features of soft soil wave 3 are:

- As outlined in Stage 1 (refer to Section 3.5)
- The work has been consolidated to construct the embankments, surcharges, stability berms, associated temporary works and utility adjustments between CH68,500 and CH82,500
- Wave 3 no longer includes the area between CH129,500 and CH131,000.

The main features of soft soil wave 4 are:

 The construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments at soft soil works near Tuckombil Canal between CH129,500 and CH131,000.

Figure 4-1 provides an overview of the updated locations of wave 1, 2, 3 and 4. Figure 4-2 and 4-3 provide more detail about the locations of wave 1 and 3, and wave 2 and 4 respectively.

4.1.1 Wave 5a

Wave 5a comprises the following early enabling construction activities along the main line within Section 3, Portion A (CH 38,060 to CH 67, 525):

- Vegetation clearing
- Bulk earthworks (cut and fill)
- Foundation and soft soil treatment
- Abutments for bridge locations
- Temporary waterway crossings
- Fencing (temporary fauna fencing, permanent fauna fencing and property fencing).

4.1.2 Wave 5b

Wave 5b comprises the following early construction activities along the main line within Section 6, Portion B (CH 96,000 to 105,200):

- Vegetation clearing
- Site access and intersection upgrades
- · Temporary waterway crossings

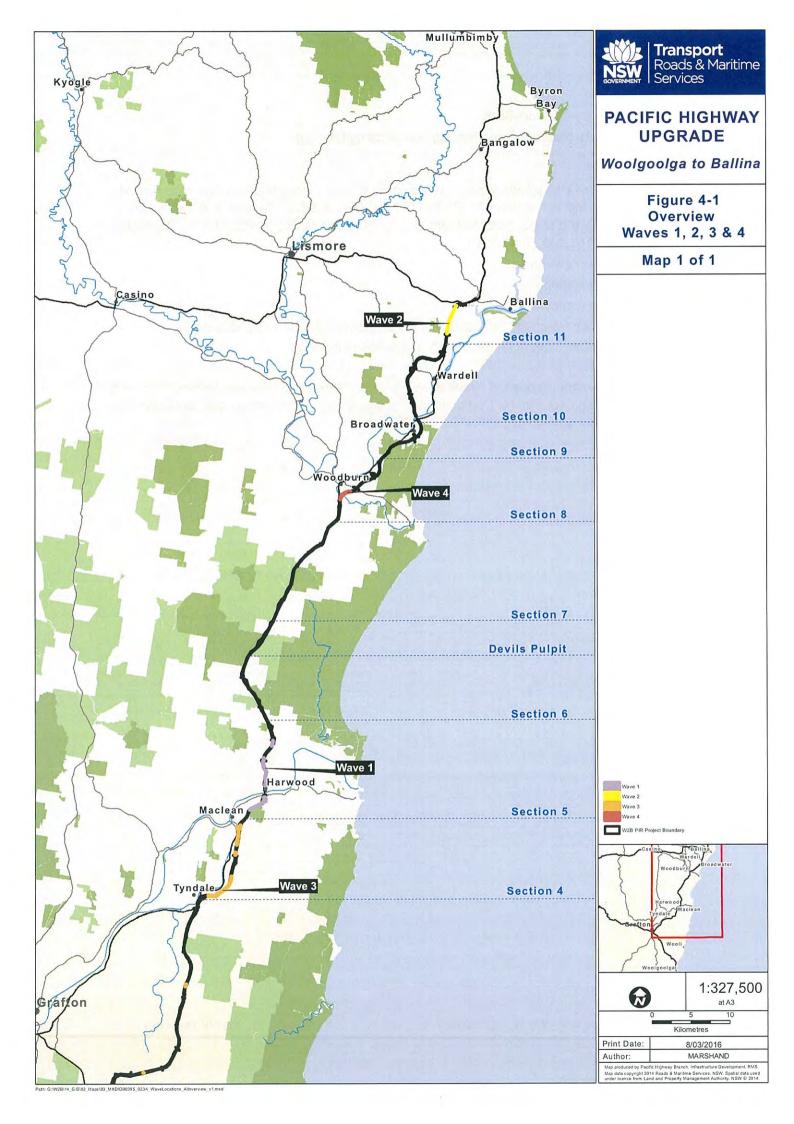
- Embankment foundations
- Fencing (temporary fauna fencing and property fencing).

4.1.3 Wave 5c

Wave 5c comprises the following early construction activities along the main line in six discrete work locations within Sections 7 (CH114,070 to CH115,900), Section 8 (CH126,700 to 129,540, CH132,100 to 132,200, 132,200 to 134,050 and 134,050 to 136,410) and Section 9 (CH142,500 to 142,800), Portion C:

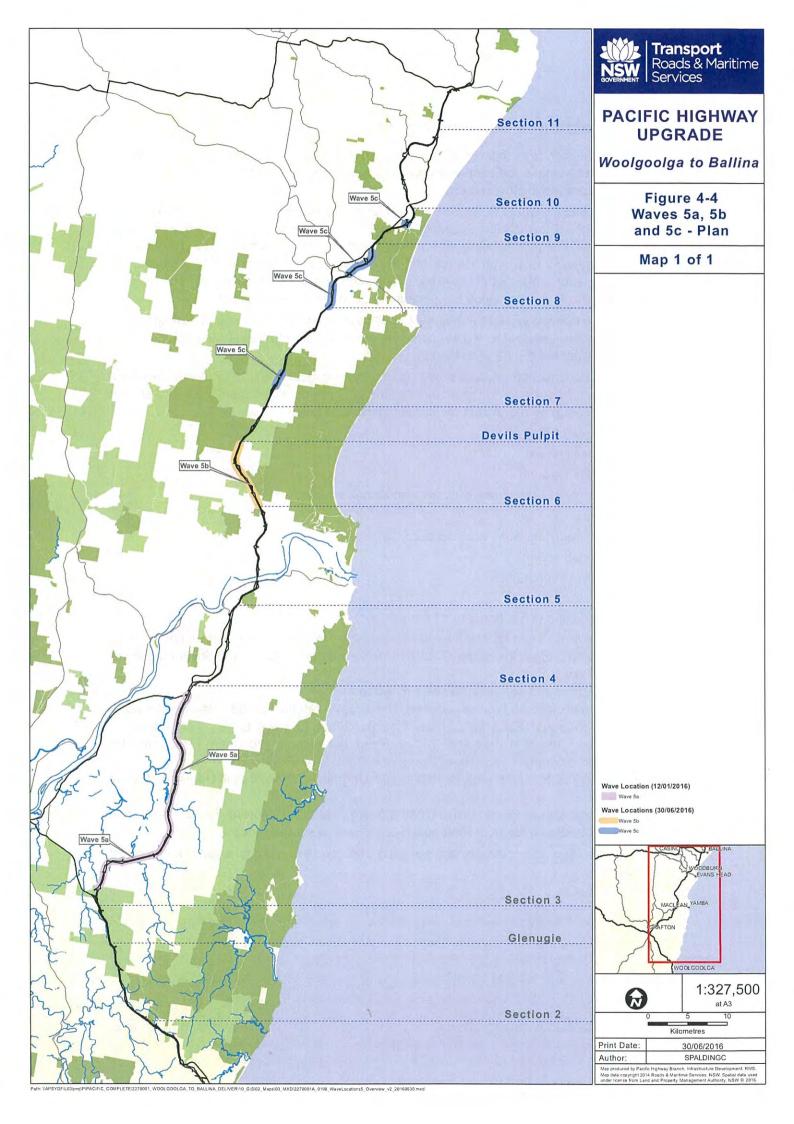
- · Vegetation clearing
- Utility relocations
- · Property demolition
- · Foundation treatment, embankment construction (earthworks) and piling pads
- · Fencing (permanent fauna fencing and property fencing.

Figure 4-4 shows the location of Wave 5a, 5b and 5c. The use of the wave terminology is no longer being used by Pacific Complete (i.e. procurement, construction and environment) during Stage 2 as defined in Section 2.2 of this report.









4.2 Construction of Sections 3 to 11

As outlined in Section 2 of this report the project will be delivered using a delivery partner contract model to harness the best ideas and solutions from the private sector while drawing on knowledge from within Government.

The traditional practice would be to deliver the Woolgoolga to Ballina upgrade as four or five separate packages using 'design-and-build' or 'build only' contracts. Under this new model, a major provider with design, building and management expertise will be engaged to oversee the project in collaboration with Roads and Maritime's Pacific Highway Office, managing multiple contracts for professional services, supply, and building of the highway. The delivery partner model will offer better value for money and drive project efficiencies.

The construction of Sections 3-11 (Glenugie to Ballina) of the project will be undertaken across a number of portions, each of which will comprise a number of activities. These portions align with the procurement of the detailed design.

Some of the construction activities will take place concurrently to achieve the best project/program efficiency. In any given location the project would be constructed sequentially (construction staging) as per the list of activities described below:

- Enabling works
- · Site establishment
- Vegetation clearing
- Bulk earthworks (including rock excavation and blasting)
- Drainage
- Bridges, retaining walls and rest area construction
- · Road construction
- · Tie-ins and interchanges
- Pre-operation.

The main construction of Section 3 to 11 comprises:

- Nine sections (3 to 11), which have been grouped into four portions (A to D)
- Two major bridges (portions E and F) at the Clarence River and Richmond River respectively
- Four areas of soft soil work (Wave 1 to Wave 4)
- Six bypasses (South Grafton, Grafton, Ulmarra, Woodburn, Broadwater and Wardell)
- 10 interchanges (Eight Mile Lane, Tyndale South (Sheeys Lane), Tyndale North, Goodwood Street, Watts Lane, Yamba Road, Iluka Road, Woodburn (Trustums Hill) Road, Broadwater (Evans Head Road) and Coolgardie Road
- Three tie-ins to other projects (Glenugie Upgrade, Devils Pulpit Upgrade, Ballina Bypass)
- Three rest areas (Pine Brush (northbound), North of Mororo Road (north and soundbound) and North of Richmond River (north & southbound).

Table 4-1 describes the relationship between the sections, portions and key project infrastructure.

Table 4-1 Project Sections, Portions and Key Infrastructure

| Portion | Section | Start | СН | End | СН | Bypasses | Interchanges | Tie-ins | Rest Areas |
|---------|---------|-----------------------------|-------|--------------------------|-------|----------------------------------------|----------------------------------------------------------------------|---------------------------------|----------------------------------------------------|
| ⋖ | 3 | Glenugie Upgrade | 33.8 | Tyndale | 68.8 | Grafton South Grafton Ulmarra | Eight Mile Lane, Tyndale South (Sheeys Lane), Tyndale North | Glenugie (Section 2A) | Pine Brush (Northbound) |
| | 4 | Tyndale | 68.8 | Maclean | 82.0 | | Goodwood Street | 1 | ı |
| Ш | 5 | Clarence River Bridge | 85.9 | Clarence River Bridge | 87.3 | | | | |
| α | 2 | Maclean | 82.0 | Iluka Road | 96.4 | -1 | Iluka Road, Yamba Road, Watts Lane | 1 | 1 |
| ב | 9 | lluka Road | 96.4 | Devils Pulpit Upgrade | 111.1 | , T, | | Devils Pulpit (Section 6A) | North of Mororo Road (North & Southbound) |
| | 7 | Devils Pulpit Upgrade | 111.1 | Trustums Hill | 126.4 | -0 | • | - | 1 |
| O | 8 | Trustums Hill | 126.4 | Broadwater National Park | 137.6 | Woodburn | Woodburn (Trustums Hill Road) | | |
| | 6 | Broadwater National Park | 137.6 | Richmond River | 145.1 | Broadwater | Broadwater (Evans Head Road) | t | 1 |
| ш | 10 | Richmond River Bridge | 145.1 | Richmond River Bridge | 145.9 | | | | |
| | 10 | Richmond River | 145.1 | Coolgardie Road | 158.6 | Wardell | Coolgardie Road | | North of Richmond River (North & southbound) |
| | 11 | Coolgardie Road | 158.6 | Ballina Bypass | 164.0 | | | | 1 |
| ව | - | Pimlico to Teven | 163.7 | Pimlico to Teven | 165.5 | | | Ballina Bypass (Section 11A) | |

Note - Refer to Figure 1-1 for additional location information.

As outlined in Section 2.1 of the staging report and Chapter 5 of the project EIS, the Woolgoolga to Ballina project has been designed to both Class A and Class M highway configuration. The locations of Class A and Class M for each portion are outlined below:

- Portion A CH 34,300 to CH 82,000 (Class M)
- Portion B –CH 82,000 to CH 88,900 (Class M)
 - > CH 88,900 to CH 111,100 (Class A)
- Portion C CH 111,100 to CH 126,400 (Class A)
 - > CH 126.400 to CH 145.000 (Class M)
- Portion D CH 145,000 to CH 164,000 (Class M).

The figure bellows provides an outlined of the proposed distribution of Motorway and Arterial Classes as they relate to EIS Sections 3 to 11. This combination will be completed to balance affordability and resources while achieving the 2020 objectives.

Where required due to budget and affordability constraints, sections of the existing Pacific Highway may be reused. These sections will be upgraded as required. Further details on the pavement reuse strategy are described in section 4.2.1.

Figure 4-1 Motorway and Arterial Combination by EIS Section



4.2.1 Pavement reuse strategy

As part of the detailed design and construction activities for Stage 2 of the highway upgrade, Pacific Complete and Roads and Maritime Services are examining the potential for reusing sections of existing highway where pavements could be re-used rather than construction of a completely new carriageway. The sections on the existing Pacific Highway proposed for reuse would be upgraded where required to meet the requirements of Arterial Class.

The primary benefits with the reuse of existing pavements include the reduction in capital expenditure and delivery program as well as reducing disruption to communities during the construction phase. It also allows RMS to realise benefits of the remaining lifespan of previously installed pavement. The sections currently identified for potential reuse still has suitable asset lifespan remaining.

In addition, opportunities to reuse existing pavements will realise saving in areas of native vegetation clearing.

Potential locations will be further assessed and refined during detailed design in consultation with Roads and Maritime Services. The final decision would be made during the detailed design phase of the project as relevant affordability, technical and constructability investigations are completed. Total life costs (which include construction and ongoing maintenance costs) are also being considered in addition to environmental impacts.

Matters relating to compliance with the Conditions of Approval, including but not limited to flooding, biodiversity and connectivity, traffic and noise, will be addressed for these sections in accordance with the existing commitments.

Where existing pavements cannot be reused, construction methodologies will include the harvesting of existing pavement material and its reuse as part of the select material zone layers of the new alignment.

Notwithstanding the above where fauna connectivity structures are required in re-use sections these will also be included in the scope of works as per approved Connectivity Strategy required under NSW Condition of Approval D2 and federal Condition of Approval 14b.

4.3 Program (schedule)

Table 4-2 shows the planned start and end date for each project portion of the project. These dates are indicative and may change during detailed design or when construction contractors are procured.

Table 4-2 Construction activities and timeframes



Source: Approved Pacific Complete Construction Environmental Management Plan

4.4 Opening sequence

Construction activities for the Project are detailed in Chapter 6 of the project Environmental Impact Statement. As outlined above in Table 4-2, the date for completion of construction activities across the Project length varies in each section / portion. These indicative dates shown are all subject to the commencement date of each Contractor(s) in each section or portion, and subject to the potential impacts from wet weather events. Given the complexity of construction traffic management across the project, and the proximity of the construction

activities to the existing road network it is anticipated that the new highway alignment would be progressively opened to traffic across the project length.

Progressively opening the new highway alignment to traffic will:

- Enable highway traffic to utilise the new upgrade sections when appropriate
- Improve road safety and separation of construction and live traffic in these complex traffic staging arrangements
- Allow completion of construction activities at key tie-in locations to the existing road network.
- Allow finishing works to occur, such as:
 - o Installation of pavement markings, signposting, street lighting
 - o Progressive landscaping and tree planting
 - o Site clean-up and demobilisation, including restoration of ancillary sites and construction access roads (where required).

The project approval facilitates the concurrent construction and operation of the project. Where part of the project is open to traffic, except in relation to traffic switches or temporary use of carriageways, then that part of the project is considered to be operation.

However, the following construction activities may be carried out after a section / portion of the upgraded highway is opened to traffic:

- Construction activities that take place on both the main line and local roads
- Tie-ins for surrounding infrastructure
- Landscaping
- Defect rectification.

An updated staging report (including construction and operation staging) would be provided to the Department prior to the commencement of operation of each specific section.

5 Stage 3 Future Pavement Upgrades

The pavement reuse strategy outlined in Section 4.2.1 has the potential to identify areas of pavement reuse that could benefit both the program and associated capital expenditure during Stage 2 of the project. There is further benefit to Roads and Maritime Services as pavement is retained until it reaches the end of its design life.

The re-use strategy discussed above is intended to facilitate the upgrade objectives through to 2020 and will be utilised where appropriate to ensure budgetary constraints are addressed.

Once the pavement re-use areas reach the end of their design life they would be progressively upgraded to A or M Class as required by RMS as part of the routine pavement maintenance program for the NSW road network. This would be considered Stage 3 of the project. The schedule for these upgrade works will align with affordability and budget constraints.

Stage 2 is scheduled for completion in 2020. It is important to note that Stage 3 activities will occur progressively as required in the future and following the completion of the Stage 2 construction activities. Stage 3 will be undertaken in accordance with the RMS environmental management framework.

The Stage 3 Staging Report will be developed to address the proposed future pavement upgrades. This would include a detailed discussion on the applicable conditions of approval.

6 Stage 4

6.1 Upgrade to M Class highway

The design and construction of the highway during Stage 1 and 2 would allow for future upgrade to the ultimate M Class arrangements. Refer to Section 4.2 for locations where the highway would be upgraded to Class A in Stage 1 and 2, and subsequently upgraded to Class M in Stage 4.

The upgrade to M Class would include the key features outlined in Table 6-1.

Table 6-1 Key features of Stage 4

| Feature | Motorway Class standard | | | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Highway | A divided road with two lanes in each direction and a median sufficiently wide to allow further upgrade to three lanes in each direction (six lanes in total), when required. | | | | |
| Access | Controlled access only. No direct public access would be allowed to he carriageways between interchanges. Service road access to the project would be limited to on-ramps and off-ramps at interchanges. | | | | |
| Interchanges | Interchanges would be grade-separated with no cross-carriageway movements. Full acceleration and deceleration lanes would be provided to on-ramps and off-ramps. | | | | |
| Posted speed limit | 110 kilometres per hour. | | | | |
| Intersections | All entry to, exit from and crossings of the main carriageways would be via interchanges. | | | | |
| Alternative routes | A continuous alternative route (service road) would be provided with a desirable design standard of 80 kilometres per hour where possible. RMS would confirm the posted speed limit in consultation with local councils. | | | | |
| U-turn facilities | No U-turn facilities would be provided. Arterial standard U-turn bays would be closed to the public. | | | | |
| Emergency crossover facilities | Combined crossover/U-turn facilities would be provided for emergency use only, every 2.5 kilometres or so. | | | | |

7 Occurrence of threatened species, ecological communities and migratory species

The following section summarises existing threatened ecological communities, threatened fauna and threatened flora species within and adjacent to the project area.

7.1 Stage 1

Table 7-1, 7-2 and 7-3 outline the threatened ecological communities, threatened fauna and threatened flora species relevant to Section 1, Section 2 and the soft soil wave works that were outlined in the Staging Report Version 1 (March 2015). These tables have been reproduced from those in the Staging Report Version 1 (March 2015).

Table 7-1 Threatened ecological communities relevant to Stage 1

| Common name | EPBC Act | TSC Act | Section (1&2) | Soft soils (Waves 1, 2 & 3) |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|------------------|-----------------------------------|
| Littoral rainforest and Coastal Vine Thickets of Eastern Australia | Critically Endangered | Endangered | NA | NA |
| Lowland Rainforest of Subtropical Australia (EPBC listed) | Critically Endangered | Endangered | NA | NA |
| Lowland Rainforest of Subtropical Australia (NSW EEC) | | Endangered | All | NA |
| Subtropical Coastal Floodplain Forest of NSW North Coast Bioregion | | Endangered | All | All |
| Swamp Sclerophyll Foreston Coastal Floodplains of the NSW North Coast, Sydney Basin and South East Corner Bioregions | 4 | Endangered | All | All |
| Mangroves | _ | Listed under Fisheries Act | NA | 1, 3 |
| Swamp Oak Floodplain Forest of the NSW North Coast, Sydney Basin and South East Corner Bioregions | - | Endangered | NA | 1, 3 |
| Coastal Cypress Pine Shrubby Open Forest of the North Coast Bioregion | - | Endangered | NA | NA |
| Freshwater Wetlands on Coastal Floodplains of the NSW North Coast, Sydney Basin, and South East Corner Bioregions | - | Endangered | NA | 1, 3 |

Table 7-2 Threatened fauna relevant to Stage 1

| Common name | Scientific Name | EPBC Act | TSC Act | Section (1&2) | Soft soils (Waves 1, 2 & 3) |
|-----------------------|-----------------------------|------------|--------------------------|------------------|-----------------------------------|
| Green-thighed Frog | Litoria brevipalmata | | Vulnerable | All | NA |
| Wallum Sedge Frog | Litoria olongburensis | Vulnerable | Vulnerable | NA | NA |
| Giant Barred Frog | Mixophyes iteratus | Endangered | Endangered | All | NA |
| Coastal Emu | Dromaius novaehollandiae | 9 | Endangered Population | NA | 1, 3 |
| Yellow-bellied Glider | Petaurus australis | - | Vulnerable | All | NA |
| Squirrel Glider | Petaurus norfolcensis | - A | Vulnerable | All | NA |
| Rufous Bettong | Aepyprymnus rufescens | - | Vulnerable | All | NA |

| Spotted-tailed Quoll | Dasyurus maculatus | Endangered | Endangered | All | 3 |
|--------------------------------|-------------------------------------|--------------------------|------------|-----|------|
| Brush-tailed Phascogale | cogale Phascogale tapoatafa | | Vulnerable | All | 1, 3 |
| Koala | Phascolarctos cinereus | Vulnerable | Vulnerable | All | 1, 3 |
| Long-nosed Potoroo | Potorous tridactylus | Vulnerable | Vulnerable | NA | NA |
| Little Bentwing-bat | Miniopterus australis | - | Vulnerable | All | NA |
| Eastern Bentwing-bat | Miniopterus schreibersii oceanensis | - | Vulnerable | All | NA |
| Southern Myotis | Myotis macropus | Vulnerable | Vulnerable | All | NA |
| Large-eared Pied Bat | Chaminolobus dwyeri | Vulnerable | Vulnerable | NA | NA |
| Atlas Rainforest Ground Beetle | Nurus atlas | | Endangered | NA | NA |
| Pink Underwing Moth | Phyllodes imperialis | Endangered | Endangered | NA | NA |
| Oxleyan Pygmy Perch | Nannoperca oxleyana | Endangered | Endangered | NA | NA |
| Swift Parrot | Lathamus discolour | Endangered, Migratory | Endangered | All | NA |
| Regent Honeyeater | Xanthomyza Phrygia | Critically Endagered | Endangered | All | NA |
| Grey-crowned babblers | Pomatostomus temporalis | E E | Vulnerable | 2 | NA |
| Common planigale | Planigale maculata | | Vulnerable | All | NA |

Table 7-3 Threatened flora relevant to Stage 1

| Common name | Scientific Name | EPBC Act | TSC Act | Section (1&2) | Soft soils (Wave 1, 2 & 3) | |
|--------------------------------------------|------------------------------------------------|------------|------------|------------------|----------------------------------|--|
| Sandstone Roughbarked Apple | Angophora robur | Vulnerable | Vulnerable | NA | NA | |
| Hairy Joint Grass | Arthraxon hispidus | Vulnerable | Vulnerable | 1 | 3 | |
| Water Nutgrass | Cyperus aquatilis | - | Endangered | All | NA | |
| Square-stemmed Spike-rush | Eleocharis tetraquetra | 9 | Endangered | 1 | NA | |
| Square-fruited Ironbark | Eucalyptus tetrapleura | Vulnerable | Vulnerable | 2 | NA | |
| Four-tailed Grevillea | Grevillea quadricauda | Vulnerable | Vulnerable | NA | NA | |
| Noah's False Chickweed or Lindernia | Noah's False Chickweed or Lindernia alsinoides | | Endangered | All | NA | |
| Slender Screw Fern | Lindsaea incisa | Endangered | Endangered | All | NA | |
| Maundia | Maundia triglochinoides | - | Vulnerable | All | NA | |
| Weeping Paperbark | Melaleuca irbyana | 8 1 | Endangered | NA | NA | |
| King of the Fairies Orchid | Oberonia titania | | Vulnerable | NA | NA | |
| Yellow-flowered King of the Fairies Orchid | Oberonia complanata | | Endangered | NA | NA | |
| Square-stemmed Olax | Olax angulata | - | Vulnerable | 2 | NA | |
| Slender Knotweed or Tall Knotweed | 0 24/3/32/63/44/4/ | | Vulnerable | NA | 1, 3 | |
| Southern Swamp Orchid | Phaius australis | Endangered | Endangered | NA | NA | |
| Singleton Mint Bush | Prostanthera cineolifera | Vulnerable | Vulnerable | NA | NA | |

| Swamp Mint Bush | Prostanthera palustris | Vulnerable | Vulnerable | NA | NA |
|---------------------------------------------------------------|---------------------------------------------|------------|------------|----|----|
| Moonee Quassia sp. 'Moonee Creek' | | Endangered | Endangered | 1 | NA |
| Scented Acronychia | Acronychia littoralis | Endangered | Vulnerable | NA | NA |
| Acalypha | Acalypha eremorum | Vulnerable | Endangered | NA | NA |
| White Lace Flower | Archidendron hendersonii | + | Vulnerable | NA | NA |
| Needle-leaf Fern | Belvisia mucronata | - | Endangered | NA | NA |
| Stinking Cryptocarya | Cryptocarya foetida | Vulnerable | Vulnerable | NA | NA |
| Smooth Davidson's Plum | Davidsonia johnsonii | Endangered | Endangered | NA | NA |
| Rusty Rose Walnut | Endiandra hayesii | Vulnerable | Vulnerable | NA | NA |
| Green-leaved Rose Walnut Endiandra muelleri subsp. bracteata | | | Endangered | NA | 3 |
| Axe-breaker | Coatesia paniculata syn. Geijera paniculata | - | Endangered | NA | NA |
| Rough-shelled Bush Nut | Macadamia tetraphylla | - | Vulnerable | NA | NA |
| Southern Ochrosia | Ochrosia moorei | Endangered | Endangered | NA | NA |
| Whalebone Tree Streblus pendulinus syn. S. brunonianus | | Endangered | - | NA | 3 |
| Red Lilly Pilly | Syzygium hodgkinsoniae | Vulnerable | Vulnerable | NA | NA |
| Arrow Head Vine | Tinospora tinosporoides | Vulnerable | Vulnerable | NA | NA |

7.2 Stage 2

Table 7-4, 7-5, 7-6 and 7-7 outline the threatened ecological communities, threatened flora species, threatened fauna and migratory species that occur within and adjacent to the project area in Sections 3 to 11 and the soft soil wave works outlined in Section 4.1.

Table 7-4 Threatened ecological communities relevant to Stage 2

| Common name | EPBC Act | TSC Act | Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|---------------------------------|--------------------------------------------------|----------------------------------|
| Littoral Rainforest and Coastal Vine Thickets of Eastern Australia | Critically Endangered | Endangered | 10 | NA | NA |
| Lowland Rainforest of Subtropical Australia (EPBC listed) | Critically Endangered | Endangered | 10,11 | 2 | NA |
| Lowland Rainforest of Subtropical Australia (NSW EEC) | | Endangered | 3, 10, 11 | 2, 3 | 5a |
| Subtropical Coastal Floodplain Forest of NSW North Coast Bioregion | - | Endangered | All | All | All |
| Swamp Sclerophyll Forest on Coastal Floodplains of the NSW North Coast, Sydney Basin and South East Corner Bioregions | - | Endangered | 3, 4, 5, 6, 7, 8, 9, 10 | 1, 3, 4 | All |

| Common name | EPBC Act | TSC Act | Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|----------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|---------------------------------|--------------------------------------------------|----------------------------------|
| Mangroves | | Listed under Fisheries Act | 5, 8, 10, 11 | 1, 2, 4 | 5c |
| Swamp Oak Floodplain Forest of the NSW North Coast, Sydney Basin and South East Corner Bioregions | i ren | Endangered | 3, 4, 5, 8, 9, 10, 11 | All | 5a, 5c |
| Coastal Cypress Pine Shrubby Open Forest of the North Coast Bioregion | 1 | Endangered | 8, 9, 10, 11 | 2, 4 | 5c |
| Freshwater Wetlands on Coastal Floodplains of the NSW North Coast, Sydney Basin, and South East Corner Bioregions | E. | Endangered | 3, 4, 8, 9 | 3, 4 | 5a, 5c |

^{1:} Species occurring within sections have been taken from Pacific Complete Construction Environmental Management Plan.

Table 7-5 Threatened flora species relevant to Stage 2

| Common name | Scientific name | EPBC Act | TSC Act | Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|-------------------------------------|----------------------------------------|------------|------------|---------------------------------|--------------------------------------------------|----------------------------------|
| Sandstone rough- barked apple | Angophora robur | Vulnerable | Vulnerable | 3,4 | 3 | 5а |
| White laceflower | Archidendron hendersonii | | Vulnerable | 10 | NA | NA |
| Hairy-joint grass | Arthraxon hispidus | Vulnerable | Vulnerable | 3,8,10 | 3, 4 | 5a, 5c |
| Carronia Vine ³ | Carronia multisepalea ² | | 4 | 10 | NA | NA |
| Stinking Cryptocarya | Cryptocarya foetida | Vulnerable | Vulnerable | 10 | NA | NA |
| Water nutgrass | Cyperus aquatilis | | Endangered | 6,7 | NA | 5b, 5c |
| Green-leaved rose walnut | Endiandra muelleri subsp. bracteata | - | Endangered | 4,10 | 3 | NA |
| Four-tailed grevillea | Grevillea quadricauda | Vulnerable | Vulnerable | 3 | 3 | 5а |
| Slender screw fern | Lindsaea incise | Endangered | Endangered | 3, 6 | 3 | 5a, 5b |
| Rough-shelled bush nut | Macadamia tetraphylla | | Vulnerable | 8,10 | 4 | 5c |
| Maundia | Maundia triglochinoides | | Vulnerable | 3,7 | 3 | 5a, 5c |
| Weeping paperbark | Melaleuca irbyana | 4 | Endangered | 7 | NA | 5c |
| Yellow-flowered King of the Fairies | Oberonia complanata | - 5 | Endangered | 8 | 4 | 5c |
| Soldiers Crest Orchid | Oberonia titania | | Vulnerable | 10 | NA | NA |
| Knotweed | Persicaria elatior | Vulnerable | Vulnerable | 4,5 | 1, 3 | NA |
| Singleton mint bush | Prostanthera cineolifera | Vulnerable | Vulnerable | 6 | NA | 5b |
| 4 | Rotala tripartita | - | Endangered | 6 | NA | 5b |

^{2:} Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

| Common name | Scientific name | EPBC Act | TSC Act | Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|-----------------------------|---------------------------|------------|------------|---------------------------------|--------------------------------------------------|----------------------------------|
| Siah's Backbone | Streblus pendulinus | Endangered | 4 | 4,8,10 | 3, 4 | 5c |
| Smooth-barked Rose Apple | Syzygium hodgkinsoniae | Vulnerable | Vulnerable | 10 | NA | NA |

^{1:} Species occurring within sections have been taken from Pacific Complete Construction Environmental Management Plan.

Table 7-6 Fauna species relevant to Stage 2

| Common name | Scientific name | EPBC Act | TSC Act | Confirmed Sections | Medium- High Likelihoo d Sections ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|-----------------------------|--------------------------------------|--------------------------|------------|-----------------------|------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| Birds | | | | | | | |
| Australasian Bittern | Botaurus poiciloptilus | Endangered | Endangered | 3 | 4, 7, 8, 9, 10, 11 | 2, 3, 4 | 5a, 5c |
| Australian Painted Snipe | Rostratula australis | Vulnerable, Migratory | Endangered | | All | All | All |
| Barking Owl | Ninox connivens | | Vulnerable | | All | All | All |
| Barred Cuckoo- shrike | Coracina lineata | 4.1 | Vulnerable | | 6, 7, 8, 9, 10, 11 | 2, 4 | 5b, 5c |
| Black Bittern | lxobrychus flavivollis | | Vulnerable | | 3, 6, 7, 9 | 3 | All |
| Black-chinned Honeyeater | Melithreptus gularis | | Vulnerable | 3 | 6, 7 | 3 | All |
| Black-necked Stork | Ephippiorhynchu s asiaticus | 1 | Endangered | 3, 4, 5 | All | All | All |
| Brolga | Grus rubicundus | - | Vulnerable | 3, 4, 5, 10, 11 | All | All | All |
| Brown Treecreeper | Climacteris picumnus | 8 | Vulnerable | 3, 6, 7 | 4, 5 | 3 | All |
| Bush Stone- curlew | Burhinus grallarius | Endangered | | | 3 | 3 | 5a |
| Coastal Emu | Dromaius novaehollandiae | - | Endangered | 3, 4 | 5 | 1, 3 | 5a |
| Comb-crested Jacana | Irediparra gallinacea | | Vulnerable | | 3, 4, 5, 6, 7, 8, 9, 10, 11 | 1, 3 | All |
| Double-eyed Fig-parrot | Cyclopsitta diophthalma coxeni | Endangered | CE | | 9, 10, 11 | 2 | 5c |

^{2:} Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

^{3:} Carronia Vine (Carronia multisepalea) is not classified as threatened species under the TSC Act or EPBC Act, however, this species is a significant host plant for the endangered Southern Pink Underwing Moth (Phyllodes imperiallis smithersi).

| Common name | Scientific name | EPBC Act | TSC Act | Confirmed Sections | Medium- High Likelihoo d Sections ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a 5b & 5c ² |
|--------------------------------|-------------------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------------------------------|--------------------------------------------------|---------------------------------|
| Eastern Grass Owl | Tyto longimembris | - Ec | Vulnerable | 9, 10 | All | All | All |
| Eastern Osprey | Pandion haliaetus | Migratory | Vulnerable | 3, 4, 5, 9, 10, 11 | All | All | All |
| Freckled Duck | Stictonetta naevosa | 116 | Vulnerable | | 3, 5 | 1, 3 | 5a |
| Glossy Black- cockatoo | Calyptorhynchus lathami | | Vulnerable | 3, 7, 10 | All | All | All |
| Grey-crowned Babbler | Pomatostomus temporalis temporarlis | 1-1- | Vulnerable | 3, 6, 7, 8, 9, 10, 11 | 4 | 2, 3, 4 | All |
| Ground Parrot | Pezoporus wallicus | | Vulnerable | | 8, 9, 10 | 4 | 5c |
| Little Eagle | hieraaetus | 1.4 | Vulnerable | | All | All | All |
| Little Lorikeet | Glossopsitta pusilla | 1.6 | Vulnerable | | All | All | All |
| Magpie Goose | Anseranas semipalmata | (9) | Vulnerable | 3 | 4, 5, 6, 8, 9, 10, 11 | All | All |
| Mangrove Honeyeater | Lichenostomus fasciogulari | | Vulnerable | 10 | 4, 5, 9, 11 | 1, 2, 3 | 5c |
| Masked Owl | Tyto novaehollandiae | 1. | Vulnerable | 6, 11 | All | All | All |
| Pale-vented Bush Hen | Amauromis molucanna | - 1 | Vulnerable | | 9, 10, 11 | 2 | 5c |
| Powerful Owl | Ninox strenua | - | Vulnerable | 3, 7, 10 | All | All | All |
| Red Goshawk | Erythrotriorchis radiates | Vulnerable | Critically Endangered | | All | All | All |
| Regent Honeyeater | Zanthomyza phrygia | Endangered, Migratory | Endangered | | All | All | All |
| Rose- crowned Fruit-dove | Ptilinopus regina | 1.2 | Vulnerable | 10 | All | All | All |
| Square-tailed Kite | Lophoictinia isura | ÷, | Vulnerable | | All | All | All |
| Superb Fruit- dove | Ptilinopus superbus | H | Vulnerable | | All | All | All |
| Swift Parrot | Lathamus discolor | Endangered, Migratory | Endangered | | All | All | All |
| Wompoo Fruit-dove | Ptilinopus magnificus | | Vulnerable | | 6, 7, 8, 9, 10, 11 | 2, 4 | 5b, 5c |
| Microchiropte | ran bats | | | | | | |
| Beccari's Freetail-bat | Mormopterus beccari | - | Vulnerable | | All | All | All |

| Common name | Scientific name | EPBC Act | TSC Act | Confirmed Sections | Medium- High Likelihoo d Sections ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|------------------------------------|-----------------------------------------------------|-------------------|------------|--------------------------|------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| Eastern Bent- wing Bat | Miniopterus schrebersii oceanensis | (4): | Vulnerable | 6, 7, 8, 9, 10, 11 | All | All | All |
| Eastern Cave Bat | Vespadelus troughtoni | | Vulnerable | 6, 7, 8, 9, 10, 11 | All | All | All |
| Eastern False Pipistrelle | Falsistrellus tasmaniensis | - | Vulnerable | 3 | All | All | All |
| Eastern Freetail-bat | Mormopterus norfolkensus | | Vulnerable | 6, 7, 8, 9, 10, 11 | All | All | All |
| Eastern Long- eared Bat | Nyctophilus bifax | - | Vulnerable | 6, 7, 8, 9, 10, 11 | All | All | All |
| Golden-tipped Bat | Kerivoula papuensis | - | Vulnerable | 9, 10, 11 | All | All | All |
| Greater Broad-nosed Bat | Scoteanax rueppellii | -9 | Vulnerable | 9, 10, 11 | All | All | All |
| Hoary Wattled Bat | Chalinolobus nigrogriseus | - | Vulnerable | 3, 6, 7, 8 | All | All | All |
| Large-eared Pied-bat | Chalinolobus dwyeri | Vulnerable | Vulnerable | | 3, 4, 5, 6, 7 | 1, 3 | 5a, 5b |
| Little Bent- wing Bat | Miniopterus australis | 2.9 | Vulnerable | All | | All | All |
| Southern Myotis | Myotis macropus | 9 | Vulnerable | 5, 6, 7, 8, 9, 10, 11 | All | All | All |
| Yellow-bellied Sheathtail-bat | Saccolaimus flaviventris | - | Vulnerable | 9, 10, 11 | All | All | All |
| Megachiropte | ran bats | | | | | | |
| Common Blossom-bat | Syconycteris australis | - | Vulnerable | 6, 7, 8, 9, 10, 11 | | 2, 4 | 5b, 5c |
| Grey-headed Flying-fox | Pteropus poliocephalus | Vulnerable | Vulnerable | All | | All | All |
| Mammals | | | | | | | |
| Brush-tailed Phascogale | Phascogale tapoatafa | 1 | Vulnerable | 3, 4, 6, 7, 8 | All | All | All |
| Common Planigale | Planigale maculata | - | Vulnerable | 10 | 3, 6, 7, 8, 9, 11 | 2, 3, 4 | All |
| Eastern Pygmy- possum | Cercartetus nanus | 4. | Vulnerable | | All | All | All |
| Koala ² | Phascolarctos cinereus ² | Vulnerable | Vulnerable | 3, 5, 7, 9, 10 | All | All | All |
| Long-nosed Potoroo ³ | Potorous tridactylus tridactylus ³ | Vulnerable | Vulnerable | 6, 7, 10 | 3, 8, 9, 11 | 2, 3, 4 | All |

| Common name | Scientific name | EPBC Act | TSC Act | Confirmed Sections | Medium- High Likelihoo d Sections ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b & 5c ² |
|--------------------------------------------|------------------------------------|------------|------------|--------------------------|------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| Rufous Bettong | Aepyprymnus rufescens | - | Vulnerable | 3 | 4, 5, 6, 7, 8 | 1, 3, 4 | All |
| Spotted-tailed Quoll | Dasyurus maculatus | Endangered | Vulnerable | | All | All | All |
| Squirrel Glider | Petaurus norfolcensis | | Vulnerable | 3, 4, 5, 7, 8, 9, 10 | All | All | All |
| Yellow-bellied Glider | Petaurus australis | 150 | Vulnerable | 3, 6, 7 | All | All | All |
| Frogs | | | | | | | |
| Wallum Froglet | Crinia tinnula | 1-3 | Vulnerable | 3, 6, 7, 8, 9, 10, 11 | All | All | All |
| Giant Barred Frog ² | Mixophyes iterates ² | Endangered | Endangered | 7 | 3, 6 | 3 | All |
| Green- thighed Frog | Litoria brevipalmata | - | Vulnerable | 3, 5, 7, 8 | 4, 6 | 1, 3, 4 | All |
| Olongburra Frog ³ | Litoria olongburensis³ | Vulnerable | Vulnerable | 8, 9, 10 | 7, 11 | 2, 4 | 5c |
| Reptiles | | | | | | | |
| Pale-headed Snake | Hoplocephalus bitorquatus | - | Vulnerable | | 3, 6, 7, 8 | 3, 4 | All |
| Stephens' Banded Snake | Hoplocephalus stephensii | ÷ | Vulnerable | 3 | 6, 7, 8 | 4 | All |
| Fish | | | | | | | |
| Eastern Freshwater Cod | Maccullochella ikei | Endangered | Endangered | | 3, 4, 5, 10 | 1, 3 | 5a |
| Oxleyan Pygmy Perch ² | Nannoperca oxleyana² | Endangered | Endangered | 6, 7, 8, 9 | 3, 10 | 3 | All |
| Purple- spotted Gudgeon ⁴ | Mogurnda adspersa | - | Endangered | | | | |
| Invertebrates | | | | | | | |
| Atlas Rainforest Ground Beetle | Nurus atlas | - | Endangered | 10 | | | NA |
| Coastal Petaltail | Petalura litoera | - | Endangered | | 3 ,4, 5, 7, 8, 9, 10 | 1, 3, 4 | 5a, 5c |
| Pink Underwing Moth | Phyllodes imperialis | Vulnerable | Vulnerable | 10 | 9, 11 | 2 | 5c |

^{1:} Species occurring within sections have been taken from Pacific Complete Construction Environmental Management Plan.

2: Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

Table 7-7 Migratory fauna species relevant to Stage 2

| Migratory species | EPBC Act status | Preferred habitat | Presence Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b and 5c ² |
|---------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|
| Eastern Osprey (<i>Pandion</i> <i>haliaetus</i>) | Marine; Migratory (BONN) | Occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They are mostly found in coastal areas but occasionally travel inland along major rivers. | Confirmed in several locations associated with project sections 3-6 and 9-11. Predicted across the entire study area. | All | All |
| Great Egret (<i>Egretta alba</i>) | Marine; Migratory (CAMBA, JAMBA) | Prefer shallow water, particularly when flowing, but may be seen on any watered area, including damp grasslands. | Confirmed in project section 8. High likelihood that the species occurs across the entire study area. This species is commonly reported in the Clarence Valley wetlands (Smith 2011), which is traversed by Section 3-5. | All | All |
| Cattle Egret (<i>Ardea ibis</i>) | Marine; Migratory (CAMBA, JAMBA) | Is found in grasslands, woodlands and wetlands particularly in coastal areas. It also uses pastures and croplands, especially where drainage is poor. Is often seen with cattle and other stock. | Confirmed, recorded in all project sections 3-5 and 9-11 associated with grazing paddocks particularly in floodplains. Predicted across the entire study area and commonly reported in the Clarence valley wetland (Smith, 2011) which is traversed by section 3-5. | All | All |
| White-bellied Sea-Eagle (<i>Haliaeetus</i> <i>leucogaster</i>) | Marine; Migratory (CAMBA) | Forages over large open fresh or saline waterbodies, coastal seas and open terrestrial areas (Higgins, 1999; Simpson & Day, 1999). Breeding habitat consists of tall trees, mangroves, cliffs, rocky outcrops, silts, caves and crevices and is located along the coast or major rivers. Breeding habitat is usually in or close to water, but may occur up to a kilometre away (Marchant & Higgins, 1993). | Predicted along the length of the study area mostly in floodplain, wetland, riverine or estuarine habitats associated with the Clarence River and Richmond River. | All | All |
| Satin Flycatcher (<i>Myiagra</i> cyanoleuca) | Marine; Migratory (BONN) | Associated with drier eucalypt forests, absent from rainforests (Blakers et al., 1984), open forests, | Was confirmed in a number of sites in project sections 6- 8 in dense forest. Predicted throughout the study | All | All |

| Migratory species | EPBC Act status | Preferred habitat | Presence Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b and 5c ² |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|
| | | often at height (Simpson & Day, 1999). | area in all forested habitats. | | |
| White Throated Needletail (<i>Hirundapus</i> <i>caudacutus</i>) | Marine; Migratory(C AMBA, JAMBA, ROKAMBA | Forages aerially over a variety of habitats usually over coastal and mountain areas, most likely with a preference for wooded areas (Higgins, 1999; Simpson & Day, 1999). Has been observed roosting in dense foliage of canopy trees, and may seek refuge in tree hollows in inclement weather (Higgins, 1999). | Small flock confirmed near Shark Creek in project section 4. Predicted throughout the study area in all forested habitats. | All | All |
| Rainbow Bee- eater (<i>Merops</i> ornatus) | Marine; Migratory (JAMBA) | Occurs mainly in open forests and woodlands, shrublands, and in various cleared or semi-cleared habitats, including farmland and areas of human habitation (Higgins, 1999). Usually occurs in open, cleared or lightly-timbered areas, especially in arid or semi-arid areas, in riparian, floodplain or wetland vegetation assemblages (Woinarski et al., 1988). | Confirmed near Tucabia in Section 3. Predicted throughout the study area in dry forest and woodland habitats, typically prefers more open landscapes. | All | All |
| Swift Parrot (<i>Lathamus</i> <i>discolor</i>) | Marine; Migratory; Endangere d | Forages in swamp and open eucalypt forests, feeding on nectar and pollen of flowering tree species. | Predicted throughout the study area in all forested habitats. Not observed from targeted surveys. | All | All |
| Regent Honeyeater (Xanthomyza phrygia) | Migratory (JAMBA); Endangere d (as Anthochaer a phrygia) | Forages in swamp and open eucalypt forests, feeding on nectar and pollen of flowering tree species. | Predicted throughout the study area in all forested habitats. Not observed from targeted surveys. | All | All |
| Black-faced Monarch (<i>Monarcha</i> <i>melanopsis</i>) | Marine; Migratory (BONN) | Occurs in rainforest and eucalypt forests, feeding in tangled understorey (Blakers et al., 1984). | Confirmed in dry forest habitat at one site near Tucabia in project section 4. Predicted throughout the study area in all forested habitats. Confirmed in dry forest near Tucabia in Section 4. | All | All |
| Rufous Fantail (<i>Rhipidura</i> <i>rufifrons</i>) | Marine; Migratory (BONN) | Frequents wet forests, less often open forests and woodlands (Simpson & Day, 1999). May occur in open woodland and forest habitats throughout the north coast region. | One individual confirmed in project section 6 in Doubleduke State Forest. Predicted throughout the study area in all forested habitats. | All | All |

| Migratory species | EPBC Act status | Preferred habitat | Presence Section 3 to 11 ¹ | Soft soils (Wave 1, 2, 3 & 4) ² | Wave 5a, 5b and 5c ² |
|--------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|
| Lathams Snipe (Gallinago harwickii) | Marine; Migratory(C AMBA, JAMBA, ROKAMBA | Occurs in permanent and ephemeral wetlands, usually inhabiting open, freshwater wetlands with low, dense vegetation (e.g. swamps, flooded grasslands or heathlands, around bogs and other water bodies) (Frith et. al, 1977). However, they can also occur in habitats with saline or brackish water, in modified or artificial habitats, and in habitats located close to humans or human activity (Frith et al, 1977) | One individual confirmed in project section 3 in the Coldstream wetlands. Predicted throughout the study area particularly in floodplain areas of the Richmond River, Clarence River and Corindi River. | All | All |
| Australian Painted Snipe (<i>Rostratula</i> <i>australis</i>) | Marine; Migratory (CAMBA) | Generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage treatment plants and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire; often with scattered clumps of lignum Muehlenbeckia or canegrass or sometimes tea-tree (Melaleuca). | Predicted throughout the study area particularly in floodplain areas of the Richmond River, Clarence River and Corindi River. Not observed during targeted field surveys. | All | All |
| Spectacled Monarch (Monarcha trivirgatus) | Marine; Migratory (BONN) | Occurs in rainforest and eucalypt forests, feeding in tangled understorey (Blakers et al., 1984). | Predicted throughout the study area in all forested habitats. Not observed during targeted field surveys. | All | All |

^{1:} Species occurring within sections have been taken from Pacific Complete Construction Environmental Management Plan.

^{2:} Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

8 Threatened Species Management Plans required under condition of approval D8

Table 8-1 outlines the Threatened Species Management Plans prepared under NSW Conditions of Approval D8. These management plans detail how the impacts of the project will be minimised and managed for each individual species identified to be significantly impacted by the project.

Table 8-1 Species Management Plans applicable to the Project

| Management | Stage 1 | Ą | | 8 | | O | | | 0 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|-----------------|-------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Plan | Section 1 Section 2 | Section 3 Sect | Section 4 Section 5 | 5 Section 6 | Section 7 | Section 8 | Section 9 | Section 10 | Section 11 |
| Threatened Flora Management Plan | Version 2.1 applies to Sections 1 and 2 and soft soil works (approved April/May 2015) | Version 3 (| 3 (approved Aug/ Sept 2015) is an update of Version 2.1 and applies to Sections 1 to 11 and soft soil works | pt 2015) is an upd | ate of Version | 2.1 and applie | s to Sections 1 t | o 11 and soft s | oil works |
| Threatened Frog Management Plan | | Version 2.1 ap | applies to Sections 1 to 11 – not applicable to soft soil works (approved May 2015) | l to 11 – not applic | cable to soft so | il works (appro | wed May 2015) | | |
| Threatened Glider Management Plan | | Version 2.1 ap | applies to Sections 1 to 11 – not applicable to soft soil works (approved May 2015) | l to 11 – not applic | cable to soft so | il works (appro | ved May 2015) | | |
| Threatened Mammal Management Plan | Version 2.1 applies to Sections 1 and 2 – not applicable to soft soil works (approved May 2015) | | Version 3.1 (approved Oct 2015) is an update of Version 2.1 and applies to Sections 1 to 11 | oved Oct 2015) is | an update of ∖ | /ersion 2.1 and | applies to Sect | ions 1 to 11 | |
| Threatened Fish Management Plan | | | | Version 3 applies to Sections 6 to 9 (approved July 2015) | s to Sections 6 | to 9 (approve | d July 2015) | | |
| Threatened Invertebrates Management Plan | | | | | | | | Version 3 Sections 10 applicable (approved | Version 3 applies to Sections 10 and 11 – not applicable to soft soils (approved July 2015) |

| | Sta | Stage 1 | 4 | A | | В | | 2 | | | D |
|-------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Management Plan | Section 1 | Section 2 | Section 3 | Section 4 | Section 5 | Section 6 | Section 7 | Section 8 | Section 9 | Section 10 | Section 11 |
| Threatened Rainforest Communities and Rainforest Plants Management Plan | | | | | | | | | | Version 3 Sections 10 applicable (approved | Version 3 applies to Sections 10 and 11 – not applicable to soft soils (approved Aug 2015) |
| Microbat Management Plan | Version 3 Section 1 applicable (approved | Version 3 applies to Section 1 and 2 – not applicable to soft soils (approved September 2014) | Ven | sion 2 (approv | ed May 2015 |) is a separate | report and app | lies to Section | s 3 to 11 – not | Version 2 (approved May 2015) is a separate report and applies to Sections 3 to 11 — not applicable to soft soils | ft soils |
| Threatened Coastal Emu Management Plan | | | Version 3.1 ap Sections 3 and applicable to s (approved Jar | Version 3.1 applies to Sections 3 and 4 – not applicable to soft soils (approved Jan 2016) | | | | | | | |
| Threatened Koala Management Plan | Version 2 Section 1 applicable | Version 2 applies to Section 1 and 2 not applicable to soft soils (approved May 2015) | Version 3 Sections 1 | 3 (approved Ps 1 to 8 (exclu | =eb 2016) is ding the Woo | Version 3 (approved Feb 2016) is an updates of Version 2 and applies to Sections 1 to 8 (excluding the Woombah/ Illuka Koala population) and 11 | /ersion 2 and a pala population | pplies to | Ballina K (submitted 1 | Ballina Koala Plan (submitted for approval) | |

Note: Koala Management Plan (update 3) for Iluka population, Broadwater (north of Lang Hill) to be submitted in July 2016 with Koala Management Plan covering Coolgardie (Section 10) for approval following DoE approval of the Ballina Koala Plan. The Ballina Koala Plan was submitted to DoE for approval in February 2016.

Application of NSW Conditions of Approval

Appendix A

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| Figure 1 and | COI Woo | APL olgo r A - | COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963 PART A - Administrative Conditions | Rep | roduced from | Reproduced from WZB Staging Report, March 2015. | 7/28 | ISW. | Tran Road Serv | Transport Roads & Maritime Services |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The contraction of the contracti | Categon | Part | | | Soft soils Vave 1, 2 & 3) | | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | | Stage 2 Comment |
| The state of the s | OBLIGATI TERMS OF | APPROV | mance criteria established under this approval, the Applicant shall mplement all leasible and reasonable measures to instruction or operation of the SSI. | All | NA! | | All | All | All | Noted. |
| The control control for the control for control of the formation of the septent of the control o | | A2 | The Applicant shall carry out the SSI generally an accordance with the: The Applicant shall carry out the SSI generally an accordance with the: (1) State significant infrastructure application SSI-J953; (2) State significant infrastructure application SSI-J953; (3) State significant infrastructure application SSI-J953; (4) Pacific Highway Upgrade Wookpoolga to Ballina Submissioners before that work volume and expensions, prepared by Robasts and Marine State of Wookpoolga to Ballina State of Updrag Applications and manual mental reservents, prepared by Robasts and Marine Services, and mental correspondence from Robast and Marine Services, and mental correspondence from Robast and Marine Services and mental Services, and mental correspondence from Robast and Marine Services and Marine Services, and mental or expension of the Services and Marine Services, and mental or expension of Services and Marine Services, and mental or expension of Services and Marine Services, and mental or expension of Services and Marine Services, and mental or expension of Services and Marine Services, and mental to Services and Marine Services, and mental or expension of Services and Marine Services, and Marine Services, and Marine Services and Marine Services and Marine Services, and mental or services and Marine Services an | ₹ | | ant (e) of this condition does not apply to Section and 2, Invoever part (e) apples to Section 1 and 2 of the project with regard to the document Woolgoolga to Glentuge Farins Connectivity Tracking Register 11/82/2014. | 7 | ₹ | ₹ | Noted |
| And the state of province transfer contract to the contract of | | A3 | If there is any inconsistency between the above documents, the more record document shall prevail to the extent of the inconsistency. However, the condition inconsistency | ¥. | ₹ | | All | IV | AI | PotoN |
| The date on whale is a granded, unless the waters the granded to the SGD opposite the following the first of the ordered of the SGD is the condition of this approach removes the obligation. And the second of the | | A4 | | All | All | | All | All | A | Noted. |
| The state of agricorial are obtained as required by law and maintained as required throughout the lab of the SEI file conclions of this agreement in each agreement and agricorial are obtained as required throughout the lab of the SEI file conclions of this agreement in the state of the stat | LIMITS OF | APPROV, | oval shall lapse 10 years after the date on which it is granted, unless the works the subject of this SSI approval are physically commenced on or belo | All | All | | All | All | All | Project commenced in 2015. |
| and the regions the SSI in stages. When staging is proposed, the Applicant shall submit a Staging Report to the Communicement of each proposed, the Applicant shall submit a Staging Report to the Communicement of each properties associated with outside stage would communice and of the SSI in staging would apply to each stage and the general throad of the SSI in staging would apply to each stage that the stage of the SSI in staging would apply to each stage that the stage of the SSI in stage of the SSI | STATUTO | A REQUI | REMENTS The Applicant shall ensure that all kenness, permits and approvals are obtained as required by law and maintained as required throughout the life of the SSI. No condition of this approval removes the obligation for the Applicant to obtain, renew or comply with such kenness, permits or approvals. | ₹ | ₹ | | ₹ | ₹ | | Pacific Complete has obtained an Euvironment Protection Leoner (EPL) for 53-511 (No. 20173, 29 advany 2010; Ins EPL is in addition to those obtained by contractors (Mayer 1 and Van-d. 2 Galf 2010 Works) disciply procured by MSL. Other is floreness, permits and approvial will be oblinted as required by law during the course of the project. |
| and the frogram or ober document required by the conditions of this approval and relevant to sach stage (as identified in the Stage), plan or program or obbs of document required by the conditions of this approval relevant stage(s), unless otherwise agreed by the Secretary. All All All All All All All All All Al | STAGING | 74 | The Applicant may elect b construct ander operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report shall provide details of. (a) how the SSI should be staged, including perment details or verk activities associated with each stage and the general timing of when each stage would commence; and (b) classists of the relevant conditions of approval, which would apply to each stage and brow these stalls to controlled with across and between the stages of the SSI; (Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the calcult that they are relevant to the specific stage(s). | ΑĒ | N. S. | | Ŧ | N. | IV | This document is a newleed Staging Report for the Pacific Complete activities. |
| As The Applicant shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities. All Aul Aul Aul Aul Aul Aul Aul Aul The Applicant shall be responsible for environmental impacts resulting from the actions of all persons that if invites onto the site, including contractors, sub-contractors and visitors. All Aul Aul Aul Aul Aul Aul Aul Aul Aul | SUBMISSI | A8 A8 | relapsy, plan, program or other decument required by the conditions of this approval and netwart to each stage (as tions or to be commercement of the relevant stage(s), unless otherwise agreed by the Secretary. may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are cover an or program is to be staged, then the relevant strategy, plan or program shall clearly describe the specific stage to which stages, and the trigger for updating the strategy, plan or program. | NA. | ¥. | | All | PΙ | F | Moled |
| The Applicant shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors, sub-contractors, and vestors. | | | | ₹ | i v | | IV | Υ | ĪΥ | This implification is addressed in the Pacific Competer Celler (Add Doublement's Scientific Competer Celler (Add Doublement's Scientific Competence). Training and Averantess) Pacific Competence Training and Averantess (P.P.P. and EVMAS) and apply RAMPC specifications to ensure companion, with this CoA. Separate and approved CEMP focumentalism is in place for soil soil works. (Wave 1 and Wave 2). |
| | | A10 | | 12 | N | | Aii | N. | ₽ | Noted. |

| Category Part | Part | Requirement | Section 1 and n | Soft soils (Wave 1, 2 & 3) | Comment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b &5c | Comment |
|--------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------|---------|--------------|-------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | A11 | In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the SSI, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute shall be final and binding on the parties. | IF | NA. | | ₹ | ₹ | ₹ | Noted. |
| MCIDEM I REPORTING | A12 | The Applicant shall notify the Secretary and relevant public authorities of any incident with actual or potential significant of all employed on the biophysical environment within 24 hours of becoming aware of the encident. The Applicant shall provide full written details of the incident to the Secretary and received the encident. The Applicant shall provide full written details of the incident is the incident also requires reporting to the EPA andor DEH, the incident report prepared for the purposes of notifying the EPA andor OEH would meet this requirement. | ₹ | ₹ | | ₹ | All | ₩. | This is addressed in approved Padito Complete CEMP (man document - Section 7.1 Incident Merchange of Proposition and Section 7.2 Incident Merchange and a sale addressed in Padito Complete Completes Tracking Program (Section 26 Incident Complete) Separata and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| | A13 | The Applicant shall meet the requirements of the Screedary or relevant public authority (as determined by the Secretary) to address the cause or impact of any incident, as it relates to this approval, reported in accordance with condition A12, within such period as the Secretary may require | Æ | NA. | | NA. | ₹ | ₽ | PatoN |

| CO Wo | MPL olgo TB | COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963 PART B - Environmental Performance | Reproduc | ed from W2B | Reproduced from WZB Staging Report, March 2015. Stage 1 | | | NSW GOVERNMENT | Transport Roads & Maritime Services |
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| Category | Y Part | Requirement | Section 1 and Sr | Soft soils (Wave 1, 2 & 3) | Comments | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & | Comment |
| BIODIVERSITY | B1 | The cleaning of native vegetation shall be minimised with the objective of reducing impacts to any threshond species or EECs where leastble and trascribble, consistent with the following: (a) cleaning of native vegetation shall be imited to a folial area of 531.7 hisclates, within the SSI boundary defined in the document referred to in condition AZ(d) and outside the SSI boundary defined in the document referred to in condition AZ(d) and outside the SSI boundary defined in the document referred to in condition AZ(d) and outside the secondary defined in the document referred to in condition AZ(d) and the secondary shall be limited to the areas specified in Table 6-1 (under the column titled Revised—direct impact (inclaines) of Appendix J of the document referred to in condition RI(d) (d) cleaning of the Lindra Randorst in the New South Wales North Coast. Sydney Basin and South East Conner Bioregions shall be limited to a lotal area of 0.5 hectaries, and (e) cleaning of Notal (Phasoclarctos centreus) primary and secondary habitat shall be limited to a lotal area of 375 hectaries. | ₹ | ₹ | Not all clauses of this condition will aply to neich stage, An assessment will be made as to the explicability of specific clauses prior to construction | Ϋ́ | ν | ₹ | RMS and the Contractor will ensure compliance with the approved cleaning limits under the Banning Approval defaults of the state of the Banning of their ensuring the charing of their expedition with braining to induce most because deliated with the objective beautiful to reduce most because the cleaning their was a beautiful and the constitution of dewings and cleany incurrent and imported throughout the project. |
| | B2 | Where feasible and reasonable, remnant vegolation shall be relained between the SSI boundary and the SSI footpmit. | Ψ | ≥ S | Vogetaton clearance limits have been defined during detailed design for Stage 1. Roeds and Manthine is suisfrief that this condition has been met Clearance will be mainlored throughout construction. | All | Ŋ. | All | Vogetakon clearance imnis will be defined during the obtailed design. Overall vogetakon clearance (design plus actual construction clearance) will be monitored on a regular basis during the WZB project. |
| | 83 | Naive vegetation shall be established in or adjacent to disturbed areas within the SSI boundary to provide habital for widthe following the completion of construction in the vicinity of the disturbed area. considerit with the Usban Design and Landscape Pfan required under condition D20. | 7 | A 90 | Wave 1, 2 and 3 soff soff works is an early construction phase and does not include an Urban Design and Landscape Plan | Ę | ¥ | NA A | During detailed design, Urban Dosign and Landscape Planty) as per the replacement of CAA DOD will be prepared Soft and works (warres) is an early construction planse activity and does not include an Urban Design and Landscape Plant was 95, 85, and 55 works are oaity enabling construction activities that do not comprise any elements of permanent baild works. |
| | 29 | 4 Light spill from the SSI shall be avoided on Pink Underwing Moth and Altas Rainforest Ground Beetle habital, where feasible and reasonable | N. | NA NA | | 10 | N. | NA NA | To be addrossed during detailed design as per the Threatened Invertebrates Management Plan (approved 30 July 2015) |
| | BS BS | Prior to construction, pre clearing surveys and inspections for endangered and threatened species shall be undertaken. The surveys and inspections, and any subsequent relocation of spocies, shall be undertaken under the guidance of a suabibly qualified ecologist and shall be in accordance with the methodology incorporated into the approved Construction Flora and Fauna Management Plan. All clearing of Koala habital trees shall be undertaken in the presence of a Koala spotter. | Ψ | VI | | All | ΑI | Я | This requirement is addressed in the Pacific Complete CEMP (Apporting R2 - Constitution Forts and Fauns Management Plats Associates 4 for Section 54 for Sec |
| , and the second | 98 | incidental or unanticipated threatened fora and fauna finds shall be immediately reported and clearing work stoppod in the vicinity of the find to allow for an evaluation of an appropriate response in accordance with the Construction Flora and Fauna Management Plan | N. | N N | | Ν | ₹ | N | This requement is addressed in the Pacific Complete CEMP (Appendix B2 - Construction Flora and Fauria Magnetine Has Appendix N Land Harding and Reseaue Procedure and Appendix O Unexpected and Reseaue Procedure and Appendix O Unexpected and Reseaue Procedure and Appendix O Pacific Complete will approve Contractor EMPs and EWINSs and EWINSs and EWINSS with the CAA. Separate and approved CEMP observations in place for soft soft works (Warre 1 and Ware 2). |
| OXLEYA | B7 | OXLEYAR PYCAY FERCH HABITAL BY High risk construction activities in known Oxleyan Pygray Perch habital shalf not be undertaken during the Oxleyan Pygray Perch spawning period, or on days when the relevant Bureau of Meteorology site predicts a 50% chance of 10mm of rain or more, unless otherwise agreed by DPI (Fisheries) | ž | AA. | | 6,7,8,9 | 4 Z | 5b, 5c | This requirement is addressed in Pacific Complete Management Plan, Appendix 2. Constitution from and Faura Management Plan, Appendix J Threatened Faura Management Plan, Parlic Complete will approve Contractor EMF's and EWMSs and apply RMSPC specifications to ensure completion with this CoA. |

| Comment | This requirement is addressed in Pacific Complete CEMP Appearable 25 - Constitution files and Fauna Management Plan. Appendix J. Threatened Fish Management Plan. Pacific Complete wil approve Contractor. EUPs and EVMSs and apply MRMSPC geoficiations to ensure compliance with Nist CoA. Design aspects would be addressed during detailed design. | This requirement is addressed in Pacific Complete Method Republished Pacific Complete from and Fauna Management Plan. Appendix J Threatened Frieh Management Plan. Pacific Complete will approve Contractor EMPs and EWMss and apply RMS/PCC georgleautors to ensure compleance with this CoA. Design aspect the would be addressed during detailed design. | Connectivity strategy does not apply to soft soits works (waves) as placement of sucharge material will not constrain the outcome for connectivity structures. Connectivity strategies will be prepared as part of the debilied design for \$3 to \$11. Expend as part of the Wave \$5, \$5, and \$5,—with respect to fauna connectivity. His early enabling construction works will not prevent connectivity solutions. | investigation of design refinements will be undertaken during detailed design. Connectivity strategies will be prepared as part of the detailed design for S3 to S11. | To be addressed during detailed design. Connectivity strategies will be prepared as part of the detailed design for S3 to S11. | The requirement is addressed in Pacific Complete CEMP (Appendix B 2 - Construction Flora and Fauna Management Plans, Appendix J That Appendix | This requirement is addressed in the Pacific Complete CEMP (Appendix B3 - Constuction Noise and Vikadion Management B3 - Scaleton 7 Environmental Control Measures). Pacific Complete will approve contractor They and EMMS to require considerate with this CAA. Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). | The nequirement is addressed in the Pacific Complete Child Appsyched Set. Contractions holes and Variation Management Plan, Section Teniremental Control Measures and Appside C Out of Hours Work Procedural Penal Complete will approve Centracter Procedural Penal Complete will approve Centracter EMPs and EMMS to ensure compliance with this CoA- Spatiate and approved CEMF commission in place for soft tool works (Waver 1 and Yawe 2). |
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| Wave 5a, 5 b & 5c | 5b, 5c | 55,50 | ₹ | 5a, 5c | NA | ₹ | Ail | Ā |
| Soft soils (Wave 1, 2, 3 & 4) | A A | AA A | ď Ž | NA | NA | ₹ | All | All |
| Section 3 to 11 | 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × | 6,7,8,9 | A | 3,4,5,9,10, | Ā | All | Ŧ | N. |
| Comments | | | Connectivity strategy does not apply to soft sold with the sold sold sold sold sold sold sold sold | Wave 1 and 3 soft soil works occur partly within chainage 41.500 and 80.000 however fauna crossings are not part of this early construction activity. | Connectivity structures are not included in Wave 1 and 3 soft soil construction activity. | | | |
| Soft soils (Wave 1, 2 & 3) | ₹. | ¥ | A A | NA | AN | ₹ | F | All |
| Section 1 and 2 | ¥ ž | NA A | ¥ | NA | All | ₹ | ₹ | ī. |
| Requirement | Temporary bridge or arch structures in known Oxieyan Pygnry Perch habitat shall be used if the crossing is minnded to be in place for more than 3 months. | Where temporary crossings in known Oxfeyan P-graph habitat are proposed with culverts or pipes, the Applicant shall, in consultation with DPI (Fisherines). Understrone the cord of press to before the fishes and seasons and the construction of the Colored fisher that the state of the other than the state of the other than the state of the Oxfeyan Prignry Perch spawming period. Temporary culvert or pipe crossings shall be removed prior to the start of the Oxfeyan Prignry Perch spawming period. | Subject to conditions B11 and B12, the Applicant shall revise the Connectivity Strategy identified in the documents listed in condition A2(e), based on the outcomes of the Misgabon Framework required by or those. The nequirements for the Connectivity Strategy are contained in condition D2. | As part of detailed design, the Applicant shall further moreignate design refinements for fauna crossings and associated exclusionary measures, between station 41 500 and station 60 000 to improve connectivity for the Constal Emu, and in the proximity of station 56 000 and between station 137 800 and station 157 800 and station 157 800 and station 158 700 and station 159 1700 and stat | Investigations into the location and design of connectivity structures, including but not limited to those identified in the documents istad under contitions AZI(s) and AZI(s), shall be undertaken during detailed design with the input of a suitably qualified and experimede ecologist. The investigations shall be undertaken in consultation with the GEH EPA, DPI (Fisheries) and DuE and include workshops and on-site ground verification. The results of these investigations shall be detailed in the Connectivity Statisty required under condition DZ. | The Applicant shall minimise riparian vegetation cleaning during construction and undertake a targeted rehabilitation program post construction to restore in-atream and riparian habitat to at least the pro- construction condition or better, unless otherwise agreed by DPI (Febraties). All areas disturbed by the SSI that are in the vicinity of known Oxleyan Prygruy Perch habitat varienturys shall be stabilised prior to the Oxleyan Prygruy Perch spawming poind. | The SSI shall be contructed with the aim of achieving the construction noise management levels detailed in the inform Construction Noise Guideline (DECC, 2009). All reasible and reasonable noise management levels shall be inferritied and management and and any activities that could exceed the construction noise management levels shall be identified and management and any activities that could exceed the construction noise and management levels. Note. Note. | Construction activities associated with the SSI shall be undertaken during the following standard construction hours. (b) 10 dam to 5 00pm Standary, and the standary and (c) 10 dam to 5 00pm Standary and (c) 10 dam |
| y Part | 88 | 689 | 310 | 118 | B12 | B13 | CONSTRUCTION NOISE The B14 Vib. | # 2 |
| Category | | | CONNEC | | | | CONSTR | |

| ls 2,3 Wave 5a, 5b & Comment | This requirement is addressed in the Pacific Complete CEMP (Appendix 2). Contruction flows and Violation Management Plan, Appendix C Out of House Work All Procedure) Pacific Complete with approve Contractor EMPs and EWMSs be return completens with this CoA. Separate and approved CEMP documentation is in place for soft soft works (Wave 1 and Vibra 2). | This requirement is addressed in the Pacific Complete CEMP (Appendix B3 - Construction Note and Vitration Management Plant Appendix Co. of House Work. All Proceidure Pacific Complete will approve Contracting EMPa and EVM/Ss to envire completions with this CoA Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Pacific Complete (TRUP Appendix 83 Completen Nesse and Viberach Management Plan, Section 7 Environmental Control (Massures) Pacific Complete unit approve Contractor EMPs and EWMSs to enter complete with the CAA Supervised CEMP Commission is management the Supervised CEMP Coordination is in place for extraol works (Vibere 1 and Vibere 2). | This requiement is addessed in the Pacific Complete CEMP (Appendix 83 - Comstuction Notes and Vibration Maragement Plan Section 7 Environmental Control Missagement) Pacific Complete will septom Contractor EMPs and EVMSs to resure completence with this CAM Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). | The requirement is addressed in the Pacific Complete CEMP (Appende R3 - Construction Notes and Valvation Management Para. Socken 65 construction Variation and Basing Jassesement I) Pacific Complete will approve Contractor EMPs and EVMISs is onsure compliance with this Sco. Separate and approved CEMP accumentation is in place for soft soft works. (Wave 1 and Valvae 2) | This requestrent is a detected in the Pacific Complete CEP Appoints 22. Contraction files and Viersion Management Plan, Section E Carelland (Near Section E Carelland Section Section E Contraction Viersion and Bissing Assessment, Section Z Environmental Central Francisco Complete will approve Contraction E Mas and Evillas in servine complete will approve Contraction E Mas and Evillas in servine complete will approve Contraction E Massing Central Contraction of Central Centra | This requientient is addressed in the Pacific Complete CEMP (Appendix B3 - Contraction Noise and Vibration Management Plan Scaebor S Controlluction Vibration and Bleating Assessment, Section 7 Environmental Control Measures and Appendix B Bleat Management Plan Procedure). Pacific Complete will approve Comparable Management EMPs and EVMMSs to enture completementation in Figure and EVMMSs to enture completementation is in place for soft soll versite (Vibratic Roll Vibratic Control Roll Vibratic Control Roll Vibratic |
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| Soft soils (Wave 1.2, 3 | ₹ | ₹. | ₹ | ē | ₹ | ¥ | All |
| Section 3 to 11 | ₹ | R | E . | 2 | ₹- | ₹ | 14 |
| Soft soils (Wave 1, 2 & 3) | yyi | Ϋ́ | ¥ | - Ail | P. | ₹. | All |
| Section 1 and 2 | P | ₹ | A | NV. | TV. | .All | N. |
| Requirement | Construction works outside the standard construction froum may be undertaken in the following circumstances. (I) or more than Eld May above antigo bedejound level at any residence in accordance with the Internal Construction Noise Guideline (DECC, 2009), and (I) or more than Eld May above antigo bedejound level any residence in accordance with the Internal Construction Noise Guideline (DECC, 2009), and (I) or more than the roles management levels specified in Table 3 of the Newmon to the Construction Noise and the Newmon than the Poles force or of their authorities for safety resoons or (I) or where it is required in an emergency to avoid the loass of lives, proparly and/or beginning the pole of the Newmon than the EPA is the case of unresolved noise complaints), or (I) share the member above and work between (I) or share a member above the Friday, and/or (I) or share a proposed through an EPA or the case of unresolved noise complaints), or spatisfies with the Residual Monday be Friday, and/or (I) or share a proposed through an EPA or the case of unresolved noise complaints), or spatisfies with the Residual Application of the Secretary of the Construction Residual and EPA or the case of unresolved noise complaints), or spatisfies the sproved through an EPA or the case of unresolved noise complaints), or spatisfies the spatisfies of | Construction activities which cannot be undertaken during the standard construction hours for teichrical or other justifiable neasons (Out of Hours work) may be permitted outside the standard construction hours and which is a provided the standard standard construction hours and the Engineering of the Engineering Construction and the approach of the Engineering Construction and the Engineering Construction and the Engineering Construction and the Engineering Construction and the Engineering Construction Construction Construction Management Plan or Construction Noise and Viscolo Management Plan for the SIS, vivers that the bit consideration is a process for obtaining the Envisionmental Representations approach to the Construction Noise and Viscolo Management Plan or Construction Noise and Viscolo Management Plan for the Construction Noise and Construction Noise | Construction activities resulting in impulsive or braid rosse emission (such as rock benaling, rock harmening, pile driving) shall only be undertaken: (a) between the hours of 8 Obern a 1000 Staukday, be Friday, (b) between the hours of 8 Obern a 1000 Staukday, and | The Applicant shall, where feasible and reasonable, limit high holes impact activities and work to the mid-morning and mid-afternoon periods, except in sparsely populated areas | The SSI shall be constructed with the aim of achieving the following construction vibration goals. The SSI shall be constructed with the aim of achieving the following construction vibration goals. (a) for structural damage to heritage structures, the vibration limits set out in the Briefs Standard BS 7356-1,509 – Evaluation of Measurement of Administration on the Standard BS 7356-1,509 – Evaluation of Measurement of Measurement of Measurement of Measurement of Measurement of Measurement and use – Las of explosives), and which with the Measurement of Measurement and Conservation, 2006) | Blasting associated with the SSI shall only be undertaken during the following hours: (a) 900am to 500pm, Mariday for Felday, inclusive. (b) 900am to 500pm, Mariday to Felday, inclusive. (b) 500am to 500pm, Mariday to Standay, and Standay or busing and accordance with the standard or public or seas would be impacted by blasting, or (i) no sensitive reservers in spared yopulated are seas would be impacted by blasting, or (ii) a sensitive reservers in spared yopulated are seas with receivers within 200 metres of the blast zone to permit blasting in accordance with the standard constitution from the NSWV Police Force or other relevant for a standard less of file, properly loss and/or to prevent environmental harm. | The Applicant shall ensure that Aublast overpressure generated by blasting associated with the SSI shall not exceed the criteria specified in Table 1 when measured at the most affected residence or other sensitive receiver. • a sensitive site includes houses and low rise residential buildings, theatres, schools and other similar buildings occupied by people. |
| Part | 916 | P17 | B18 | 0.00 | BZO | B21 | B22 |

| Comment | This requirement is addressed in the Pacific Complete (CERP Apportix B2 - Contribution Neers and Vierskan Managament Plant Section 6.5 Construction Vibration and Bratisty Assessment Section 6.3 Experimental and Bratisty Assessment Section 7 Environmental Procedure Pacific Complete will approve Centracter Plant and EMPIRES to nesuse complete with the and EMPIRES to nesuse complete with a special and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Pacific Complete CEMP (Appendix B3 Conducation Noise and Vicration Management Plants Section 55 Controlled Noise and Vicration and Backey Assessment Section 15 Controlled Noise Complete Will approve Control Measures and Approvice Back Management Proceedure). Pacific Complete Will approve Controlled Noise and Eylikobs to results configurate with this CoA Separate and approved CEMP documentation in place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Pracific Complete CEMP (Apporting 2 - Construction those and Victorion Management Plan Section 7 Environmental Control Measures). Pacific Complete will approve Contractor EMPs and EWMS is necessor complete with approve Contractor CoA. Separate and approved CEMP decumentation is in place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Pacific Complete CRIP Apparent grant Commission that Management Plan, Section 7. Communication that and the Carbon Management Plan, Section 7. Environmental Control Management, Pacific formplete with approve Controlled Management, Pacific formplete with approve Controlled CEIPs and EVMSs to meuner completence with this CAA. Serparate and approved CEIMP documentation is an place for soft soil works (Wave 1 and Wave 2). | This requerement is addressed in the Pacific Complete CEMP (Appendix B.3 - Constitution Notes and Vibration Management Plan, Section of Technomental Control Measures). Pedic Complete will manage consultation with potentially affected of ductational institutions. Pacific Complete will approve Contractor EMPs, EWINS is ensure compliance with bisic OA, Sparatis and approved CEMP documentation is in place for soft soil words (twicw a land Wave 2). Character Holic School - Hen from the project alignment. Hordwood Island Permy School - 100m from Wave 1 adigment, and V70m from the project alignment. Woodburn Pinnay School - 128/m from the project alignment and Wave 4. Madean High School - 640m from the project alignment and Wave 9. Broadwale Public School - 630m from the project alignment, and Wave 9. Roadwale Public School - 630m from the project alignment. Note Chapter 15 of the EIS identifies schools in obse proximity be the progre. These schools ware used as a affected educational institutes. If additional institutes are identified this measures will be applied. | To be addressed during detailed design. Note that soft soil works do not involve the design or operation of a completed section of highway therefore do not include operational roses migation measures. |
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| Wave 5a, 5b & 5c | ₹ | 2 | All | ¥ | 8 | NA |
| Soft soils (Wave 1, 2, 3 & 4) | ₹ | γ | Alt | All | 1,3,4 | AN |
| Section 3 to | - F | Ŧ. | All | ₹ | ច ថា ប៉ុះ | Ak |
| Comments | | | | | Harwood Primary School is located within 300m of the Wave 1 soft soil works area | Wave 1, 2 and 3 soft soil works do not involve the design or operation of a completed section of highway. |
| Soft soils (Wave 1, 2 & 3) | ₹ | Air | N. | PS. | ₹ | N.A. |
| Section 1 and 2 | ₹ | \$ | Ail | ₹ | ž | Ai |
| Requirement | The Applicant shall ensure that Ground vibration generated by blassing associated with the SSI shall not exceed the critera specified in Table 2 and Table 3 when measured at the most affected residence not exceived. Note - a sensitive site includes houses and low rise residential buildings, theatres, schools and other similar buildings occupied by people. | The baseting criteria specified in conditions B22 and/or B23 may be increased where the Applicant has obtained the written agreement of the relevant landowner to increase the criteria. In obtaining the agreement the Applicant shall make available to the backward. In be late of the proposed behalf included the authority generation for the proposed breather than the proposed proposed breather than the proposed breather than the proposed proposed breather than the proposed proposed proposed breather than the proposed proposed breather than the proposed proposed proposed proposed breather than the proposed prop | Wherever feasible and reasonable, piling activities shall be undertaken using quieter construction methods, such as bored piles or vibrated piles rather than impact or percursion piling methods. | Phot to the use of the dynamic compaction construction method. We Applicant shall undertake an assessment of whatein generated by dynamic compaction on healthy admittive receivers. Feastlies and reasonable mitigation measures shall be implemented to minimize vibration impacts. | During construction, affected educational institutions shall be consulted and reasonable stope bleen to ensure that note generating construction works in the vicinity of affected buildings are not threstabled during examination periods where practicable, unless other reasonable arrangements to the affected institution are made at no cost to the affected firstitution. | SE The SSI shall be designed and operated with the Objective of not exceeding the road noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011) |
| Part | B23 | B24 | 825 | B26 | 827 | OPERATIONAL NOIS |
| Category | | | | | | ATIC |

| Category | Part | Requirement | Section 1 and 0 | Soft soils (Wave 1, 2 & 3) | Comments | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | Comment |
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| | B29 | Where feasible and reasonable, operational noise mitigation measures shall be implemented at the start of construction (or at other times during construction) to minimise construction noise impacts. | Ail | AA | Wave 1, 2 and 3 soft soil works do not involve the design or operation of a completed section of highway. | Ail | A. | NA A | To be addressed during detailed design. Note that soft soil works do not involve the design or operation of a completed section of highway therefore do not include operational noise métaileon measures. |
| BE BE | B30 | Except as may be expressly provided by an EPL, the Applicant shall comply with section 120 of the Protection of the Environment Operations Act 1997. | All All | ₹ | | All | ₹ | ₹ | Pacific Complete has obtained an Environment. Protection License (EPL) flox 63-St 1 flox 20173, 29 January 2016). This EPL is in addition to those a January 2016). This EPL is in addition to those a Johanned by contactors (Wave in and Wave 2 Soft Soil Works) directly procured by RMS. This insquaments and Construction Soil an Water Quality Management Plan). EVMGs to ensure compliance with this CoA. Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| DROLOG | B31 | The hydrological and flooding impacts resulting from the SSI are to be assessed during detailed design against the 'Design Objectives for Flood Management' described in Section 2.1 of the EIS Working Pages "Hydrology and Gooding, This safe include the refinement against the Flood Management Objectives and the Other Flood Impact Considerations' as well as the other requirements of his section of B31 Pages "Hydrology and Gooding, This safe inclination of development of twey flood models (when requirements investigated during the EIS. These models shall be operated for the same design floods considered in the EIS, as well as the 2000 year ARI and the probable maximum flood (PMF) design events. | 7 | 42 | Wave 1, 2 and 3 ceft seil works do not thrown the displace of a completed section of highway. The final flood model will be developed as part of the displaced design. Plood modeling of the impacts of sett soil works has been underfacen and consultation with communities on misacts. | ₹ | 4 | A | Flood modeling (frail models) will be developed as part of detailed design. Soft soil works do not involve the design or operation of a completed section of highway. Wave 5a, 5and 5c don't involve the design or operation of a completed section of highway. The fixal department of the design or the design or the design or the design of the developed as part of the detailed design. |
| | B32 | For the Cennd. Shark Creek and Farlows Flat areas, flooding and hydrological impacts resulting from existing highway infrastructure shall be assessed. As part of this assessment flood models shall assess the impacts of recent highway upgades in this area. Where the existing highway in these areas has resulted in adverse flooding and/or hydrological impacts, opportunities to reduce the quantum of those impacts shall be considered during the detailed design of the SSI, where feasible and reasonable. | - | ī | Confid Creek is within the Section 1 project area. Farlows Flat and Shark Creek are within the Wave 1 and Wave 5 project areas. | 4, 10 | е. - | N. | Corindi Creek is within Section 1. Flood modeling (final models) will be developed as part of detailed design. Wave 5s. 5b and 5c don't involve the design or operation of a completed section of highway. The final flood model will be developed as part of the detailed design. |
| i di aliano | B33 | Where the objectives and considerations referred to in condition B31 cannot be compiled with, the Applicant shall: (a) achieve compilation fording and another through design. This might include new or duplicated drainage structures designed to minimise afflux and other impacts to waterways that baverse B333 the consolated in the greatest strate processelve or consolated to the greatest strates processelve or inspects through alternative design measures (e.g. raised access tracks) in consolatation with the affected land-owner; or inspects through alternative design measures (e.g. raised access tracks) in consolatation with the affected land-owner; or inspects to properly. | NA. | Ail | | All | ¥ | All All | Noted. |
| | B34 | Soil and water management measures consistent with Managing Urban Stermwater - Soils and Construction Vois 1 and 2, 4th Edition (Landcom, 2004) and Managing Urban Stermwater Soil and Construction Vois 2A and 2D Main Road Construction (Department of Environment and Climate Change, 2008) shall be employed during the construction of the SSI to minimes soil encison and the decharge of sediment and other pollutants to land and/or water. | ŧΫ | NY NY | | N N | ΙΨ | Ψ | This requirement is addressed in the Pacific Complete CEMP (Appendix B4 Construction Sol and Water CEMP Complete Service of Service Se |
| | B35 | Where available, and of appropriate chemical and biological quality, stormwater, recycled water or other water sources shall be used, where isasible and reasonable, in preference to polable water for construction activities, including concrete mixing and dust control | 7 | Ψ | | All | IV. | Air | This requirement is addressed in the Pacific Complete CERF (Appendix & Communication and and Water Outlify Management Plan. Chapter & Environmental Chrole I Massagers, Pacific Complete will approve Contractic IRPs, EVMSs and ESCPs to renaure Contractic IRPs, EVMSs and ESCPs to renaure Cell discounting the Cell September of Approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| | B36 | All surface water and groundwater shall be adequately treated as far as is practicable, prior to entering the stormwater system to protect the receiving water source quality. | All | Ā | | ΪΫ | ¥ | A | This requirement is addressed in the Pacific Compide Cell Physpories & Construction 60s and Whater Outlety Management Plan, Chapter 6 Environment Control Mensures). Pacific Compide will approve contractic Ellin's FWMS, and ECR 50s to tendure compilance with this Coh. Separate and approved CME Pocumentators is in place for soft soil works. (Wave 1 and Wave 2). |

| Part | Requirement | Section 1 and 2 (W | Soft soils (Wave 1, 2 & 3) | Comments | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | Comment |
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| B37 | Prior to the commencement of site preparation and excavation activities, or as otherwise agreed by the Sourdary, in areas identified as having a moderate to high risk of contamination accessible and the state of the season and the state of the season accessible and the season accessible and the remediation investigations within these areas. The Site Audit Stop state lides the whether the include of positions denity that the site is sutable for the included operations and the state of the state | 5 | ₹ | Contamination in estigations have not identified any moderate to high risk areas when the section 1 and 2 project areas. Vare 3 sett so those wall impact on a potential contaminated size at the fillis. Transport depot. | ₹ | ₹ | ₹ | Potentially contaminated elies associated with the potentially contaminated elies associated with the deformine those discussed during belied designs to deformine those sites that still require a phase 2 contamination investigation. The scaled to phase 2 contamination investigation will determine whether the sar establish or transmission investigations will determine whether the Potential Contamination investigation will be be unsupprised for their retends those sites found to be unsupprised for their refers of their standards that two, appropriate himsignment of mention below the standards and a potential where 1 soft acids voorfact and a potential where 1 soft acids voorfact and a potential or management for the standards and a potential contaminate size in the Milit could for this size, to flacilitate the management. |
| SE CF | WATERCOASSIVES Whatercourse crossings shall be designed and constructed in consultation with the DPI (Flatheres), EPA. NOW and DoE, and where feasible and reasonable, be consistent with the Guidelines for Controlled Activities of Watercourse Crossings (Department of Vibratines Fortial and Withherday Activities Advancedures Consultative Closesty (Flatheres, Environment) (Flatheres, 2013). Where multiple cell culverts are proposed for crossings of fish habital streams, at least one cell shall be provided for fish passage, with an invert or bed level that minics watercourse flows. | T T | NA. | Soff soll works will only have temporary drossings. | All | ₹ | ₹ | To be addressed during detailed design. Detailed design to treports as required to detail tow the design nomings with the relevant envoranemistal design stranges with relevant envoranemistal design to transfer Dearfic Cemples will review detailed design but report to nearer compliance with relevant CAAs. Note that that has the work of well only have timporary crossings. Wave 5a, 5a and 5c early enabling works will only have temporary crossings. |
| B39 | All cossings of known Gant Barred Frog backst or waterways with the confirmed presence of the spoteans abeliate designed and conclusied with bridges. Should the Applicant constructs a crossing structure of the transmission of the species and the species of the | ₹ | Ą | | NA. | ¥V. | NA | Not applicable to Sections 3:11. Habital for Gent Barred Frog occurs only in Section 1 and 2 |
| 840 | Unless otherwise agreed by DPI (Fisheries), all crossings of Class 1 watercourses in known Oxleyan Prigmy Petch habitat shall be designed and constructed with a bridge or arch Atucture and, where of seasible and reasonable, no supporting structures shall be installed with a flected waterrays. | NA. | Ϋ́, | | 6, 7, 8, 9 | A A | 56, 5G | To be addressed dump dishaled design. Detailed designs for tegories are required betall town the design complies with the relevant environmental design criteria: Pacific Complete will review detailed design bit reports are neuro complete will review detailed design bit reports where Sa, Sa and Sc early enabling works will only have temporary crossings. |
| 174 | Where an Oxietyan Pygmy Perch habitat vaterway is realigned or its stream profile is changed, or an in-stream structure is installed in the waterway (both permanent and temporary construction structures). The Applicant shall ensure that the final design of that waterway does not result in water velocities a screening of 4 meters per second under normal flow conditions. The Applicant shall determine normal flow conditions to the satisfaction of DPI (Fateries) through baseline monitoring of known Oxleyan Pygmy Perch habitat waterways. | Š | NA A | | 6,7,8,9 | N. | 5b, 5c | To be addressed during detailed design. Detailed design for teports are required to detail how the design normalises with tereing the morning telegrant refers a facility of the second section. Occupiets will revow detailed design for teports to ensure compliance with relevant CoAs. |
| B42 | The Applicant shall ensure that the SSI does not increase the afflux of waterways with known Oxleyan Pygmy Perch habitat by more than the relevant flood managament objective in the documents referred to managament objective in the documents referred to managament objective in the documents referred | NA. | e v | | 6,7,8,9 | ď Ž | 5b, Sc | To be addressed during debated design. Detailed design Literators are required betall how he design compiles with the relivant environmental design chain. Partic Complex will review debated design to the partic Complex will review debated design bit reports are neuro compilisme with relevant CoAs. Wave 5a, 5a and 5c don't involve the design or opposition of a correleted saction of theyway. The final chandle model will be developed as part of the detailed design. |
| 65 | The Applicant shall investigate the removal of the proposed embanhment at station 1452 and te replacement with an extension of the Richmond River bridge. The investigation shall consider issues around a hydrogeneous and flooding closeding behalf include consideration of other relevant any enverse those, heritage bloddensity, taffic etc.) and considerative options. A copy of the investigation shall be submitted to the commencement of any bridge approach or embankment works in the vicinity. | ¥. | A. | | 10 | ¥ Z | A. | To be addressed during detailed design. Detailed design lot reports are required to detail how the design complets with the reduced removemental design criteria Pacific Complete will review detailed design for reports to ensure compliance with relevant CoAs. |

| Comment | As per RNS salvage program of works. Note that PAD site WWC Dirty Creek I does not occur within sections 3 to 11. | As per RMS salvage program of works. Note that Abongmal else WWc29, WWC37 and WWC46 ob not occur within sections 3 to 11. | To be addressed during dosaled design. Detailed design contained and appropriate and approve Company (CEMP (Appropriate)) Pacific Complete and Abrangement Hands Chemper T. Environmental Missistem and Abrangement Manual Prostier Complete with approve Company Profits and ESCP at the approve Company of the Approved CEMP of Communication in place for soft to all the Approved CEMP of Communication in place for soft to all the Approved CEMP of Communication in place for soft to a for the Approved CEMP of Communication in place for soft to a for the Approved CEMP of Communication in place for soft to a for the Approved CEMP of CEMP of CEMP of the Approved CEMP of CEMP of the Approved CEMP of the Approved CEMP of the Approved CEMP of the Approximation and Approximati | To be addressed during detailed design. Detailed design bit reports are required to detail how the design design bit reports are required to detail how the design design design and the design of the partie complete will review detailed design bit reports to extra complete bit will review detail the Pacific Complete for addressed in the Pacific Complete for CEMP (Appendix 55 Construction Heritage Complete Management Nature Complete Fight 2 (White State Complete will and Management Management Resistance Complete will and Management Management Resistance Complete will and state of the design of the d | RMS / Pacific Complete have undertaken a range of community and stableholds construction with respect to be expect to relocate his shareholds construction of a forth-fressess and constituted for whether dark manner of a forth-fressess and constituted on whether under minds a release, letter to key stakenoider/community groups. The Drog. In Season was held to discuss the convervient the RMS / Pacific Complete project beam on 28 January 2016 (4pm-Ppm) at the Haway will be seen to a season with the be lodged in writing by 17 February 2016, and season to be lodged in writing by 17 February 2016. A public tender is currently in progress for the relocation of the convent. The tender will close on 4 July 2016. | RMS engaged Jacobs to under-take the archival provides included protographic recordings of the dentified heritage ferms. Works have been completed and reports will be submitted relevant agencies. |
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| Wave 5a, 5b & 5c | S. | Sa. Sc | 95 65 | S | ¥2 | 8 |
| Soft soils (Wave 1, 2, 3 | A. | ď. | Ą. | ¥. | 7 | A A |
| Section 3 to 11 | 4, 7, 10, 11 | 3, 4, 7, 8, 9, 10, | 3, 8, 9, 10, 11 | 4, 7, 8, 9, 10, |)o | 5,7.9,10 |
| Comments | Pad sites identified in B44 do not occur in society 2 | WWC39 and WWC46 are within the Section 1 project area | Applicable to monimising Aboriginal heritage mpacts. | | | |
| Soft solls (Mave 1, 2 & 3) | Z | Ŧ | ₹ | ¥2 | 42 | Z Z |
| Section 1 and 2 | i e | Tall (| ą. | Ŧ. | NA. | Ą |
| Requirement | | | | The Applicant shall not destroy, modify or otherwise physically affect Aborignal sites WWC5, WWC26, WWC26, WWC215, WWC115, WWC129, Tyndale 1, Scarred free of Saezza 1, PR Creek / New Hay, Gittoes Jah 2, Cooks Hill, Broadwater, Law PAD, Law Scarred Tree, MST 3, C21, Melino Scarred Tree 4, MST 2, MST 1, Rudgey Scarred Tree of Saezza 1, | NON - ABORIGINAL HERITAGE Prior to the commencement of construction affecting the Convent (12-14 Rivers Street), Harwood (tem 21), the Applicant shall surry out further historical research and investigate the options for relacation of the convent building, in consultation with the Department of Planning and Environment and the OEH (Heritage Division), to the satisfaction of the Secretary. | Prior to the commercement of construction in proximity to the following herriage items; 21, 23 (Roder's well and orchard), 26, 28, 29, and 43, the Applicant shall complete all anchival recordings, including physical resource of these herriage forms, unless otherwise agreed by the Secretary. The activative a recording the service that is a receiver and the factorial resource of herriage contact which are a recordings the service of the s |
| y Part | B44 | B45 | B46 | B47 | B48 | B49 |
| Category | | | | | N - ABG | 1 |

| Par Tr | Requirement | Section 1 and 2 (W | Soft soils (Wave 1, 2 & 3) | Comments | Section 3 to 11 | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & | Comment |
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| 890 | Prior to construction allecting the following benitage items: 7, 23 (Roder's well and orchard) and 28, the Applicant shall carry out further historical and physical archaeological investigations of these heritage fems. In constitution with the Heritage Council of Michaeles of the Secretary. The enclassing Division, and excavation in accordance with the Heritage Council x Achaeles places and exception of the Secretary. The archaeles objects in the Secretary in the enceptation with the Division of the Secretary. The archaeles objects in the Secretary in the constitution with the Heritage Council of Chief in the Assessment of Excavation Directors shall demonstrate ability to comply with the Heritage Council of Chief in the Assessment of Excavation Directors (July 2011); (b) provide for the delarded enablished range interesting the Applicant Secretary. The non-subscious and despite the Applicant Secretary in the Secretary in the Secretary in the Recentage Secretary in the Applicant Secretary in the Recentage Secretary in the Secretary in the Recentage Secretary | N | হ | lem 7 (Service Station Complex, Hallway Creek) is within the Section 2 project area | 6.7 | 4 | ñ | RMS angaged Jacobs to under take the required pre- construction heritage works. Field wayts completed. Analysis and reporting being finalised. |
| 188 | The Applicant shall not deatroy, modify or otherwise physically affect the heritage items listed in Table 5-1, Historic (non-Aborignas) Hentage Assessment Working Paper and Table 3-38, Submissional/Preferred Infrastructure Report (RMS, November 2013). | - | A A | Post office Lane stockyards, Corindl Beach is within the Gection I project area | 5,7,10 | V V | E | To be addressed during debiled design. Detailed design for representations are required to detail how the design cortex part of the control will review debiled design for trepersentations are required to elevate the report of the person of the complete with referent complete will reduce compliance with referent the Paril Complete CRMP (Appendix BG Construction Heritago Managament Plan, Chesper F. Terromental Migation and Managament Massures). Perior Complete will and Managament Massures). Perior Complete will emprese Complete of Complete of September 1914. Perior Sept. Terromental Migation approved Complete will approve Complete of Missing Migation and approved CEMP decumentation is in place for soft soil works (Wave 1 and Wave 2). |
| GENERA B52 | 1974. John de impacts to heritage aftes shall be minimised where feasible and reasonable through both detailed design and construction, particularly with regard by the historic site known as the North Coast Rahavey Branch Tramway, Genugle. Rahavey Branch Tramway, Genugle. Where impacts are unavoidable, works shall be undershen in accordance with the actions to manage heritage construction impacts required by condition D26(d) and under the guidance of an appropriately. | 74 | Ą. | | A. | NA | NA A | This haritage from occurs in Section 2, therefore will not be impacted. |
| B53 | | ₹ | ĪΫ | | N N | ī | ₹ | This requirement is addressed in the Pacific Complete CREW Appendig SC construction Heritage Management Plan, Chapter T Environmental Mingation and Management Measures, Pacific Complete will approve Commador EMPs, EWMs, ESCP to ensure processor commador EMPs, EWMs, ESCP to ensure completion with the CAA. Separate and approved CEMP decumentation is in place for soft soil works (Marve 1 and Wave 2). |
| 854 | 4 The Applicant shall not destroy, modify or otherwise physically affect any heritage froms outside the SSI footprint, unless otherwise agreed by the Secretary in accordance with condition 878-8854A. | T. | All | | Ail | Ail | ₹ | This requirement is addressed in the Pacific Complete CREMP Appendix SC Construction Heritage Management Plan, Chapter 7 Environmental Mingston and Management Measures). Pacific Complete will approve Contractor EMPs, EWMs, ESCPs to ensure completes with the CAA. Separate and approved CEMP decumentation is in place for soft soil works: |
| BS4A | The Applicant ray undertake archaeological investigations at Sale boundary where the following works associated with the construction of the highway rate and in constitution of the sale between the sale of the sale of the sale between the sale of | | | Condition introduced in Mod 2 post: approval of Stage 1 Staging Report | A | ই | A | Noted |
| 855 | 5 The measures to protect terriage sites near or adjacent to the SSI during construction shall be detailed in the Construction Heritage Management Plan. | N N | ¥ | | II4 | Ā | All | Pacific Complete CEMP including Appendix B5 Construction Heritage Management Plan has been annoved (23 October 2015). |

| Comment | isted design. Detailed und to detail how the design virtonmental design criterial detailed design fot reports ievant CoAS. | uction Traffic and Access uction Traffic and Access 6.4.1 Management of 2. Management of 2. Management act in approve Contractor traffic management safety traffic management safety And Coursetts And Coursetts And Coursetts And Vivave 2). | ment is addressed in the Pacific Compilers Period 18 Compilers Access Plan, Sedent Compilers Plan, Sedent Compilers Plan, Sedent Compilers Access Plan, Sedent Compilers Plan, Sedent Compilers Plan, Sedent Compilers Plan, Sedent Compilers Plan, Sedent S. Compilers Plan, Sedent S. Compilers Plan, Sedent S. Compilers Plan, Sedent S. Compilers Plan, Plan, Sedent S. Compilers Plan, Plan, Sedent S. Compilers Plan, Plan, S. Compilers | illed design. Detailed of to detail how the design nivrormental design criteria detailed design lot reports levant CoAs. | illed design | illed design. | ed in the Pacific Complete uction Traffic and Access § 5 Site Office Locations, as and Section 5,8 6 Mays and Deburs). In compartor RMPs, anapagement safety plans merce with this COA. | ed in the Pacific Complete Uction Traffic and Access to The Haulage Routes). C Ontractor EMPs, anangement safety plans in rea with this COA Alf document is in place for Wave 2). | | ed in the Pacific Complete Vir.3 Property Access and and Network). Pacific actor EMPs, EVWSs and aleby plans (or similar) to CoA. Separate and ton is in place for soft tool |
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| | To be addressed during detailed design. Detailed design by response are required to detail how the design complies with the referent environmental design criterial. Peralific Complete will revew detailed design to treports be ensure compliance with relevant CoAs. | The requirement is addressed in the Pacific Complete CEMP (Appendix B1 Constitution Taiffs and Access Management Park Section 5.4 Management of Podssib; Pacific Complete with proprove Outrainer of Cystals, Pacific Complete with proprove Outrainer of Channels, Bell Complete with proprove Outrainer of Blank (or smithly be neuro complete on the CAMP Speams and approved CEMP Occurrentation is place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Pacific Complete Recent Management Early Communication Traffic and Access Management Plan. Section 4. Computer Activities and Impacts, Section 4. Communication Access Power Section 4. Communication Newlock Management Plan. Section 4. Communication Newlock Management Plans Section 4. Communication Newlock Management Plans Section 5. Communication Newlock Management Plans Complete Plans (cit eministry Communication Newlock Management Section 4. Complete Plans (cit eministry Communication Newlock Management Section 4. Sec | To be addressed during detailed design. Detailed design to traper are required to detail how the design compiles with a relevant environmental design others a particle compiler will review detailed design bit reports to ensure compilance with relevant CoAs. | To be addressed during detailed design | To be addressed during detailed design | This requirement is addressed in the Pacific Compilets (CBMP (Appendix 81 Construction Thaffic and Access Minaugement Than Section 4, 81 Sile Office, Locations, Section 4, 61 Hadlage Routes and Section 8, 81 Removal of Temporary Reducesy and Debust), Pacific Compilet will approve Contractor RBP9, Pacific Compilet will approve Contractor RBP9, Pacific Compilete undiscriptions with this CDN. (or similar) to ensure compiliance with this CDN. Separate and approved CEMP document is in place for soft soil works (Wave 1 and Wave 2). | This requirement is addressed in the Praditic Complete CENP Appearing 15 Controllucion Traffic and Access Management Plan, Saction 6 of 1 Houles Roberts, Pradice Complete was approve controllucion Saction 6 of 1 Houles Roberts, Powils and related traffic management safety plans (or eminist) to ensure approve controllucion with the COA Separate and systowed CEMP controllucion with the COA soft safe that the National CEMP Controllucion with the COA soft safe that the National CEMP Controllucion with the COA soft safe that the National CEMP Controllucion with the COA soft safe works (Marce 1 and Wilve 2). | Noted. | This requirement is addressed in the Pacific Complete CEMP (Appendix B) Controlled in Traffic and Access and Section 4.7 Section 4.7 Septem Access and Section 4.7 Sets State Forest foad Network) Pacific Complete will approve Controlled will approve Complete with this CEM, Separate and ensus compliance with this CEM, Separate and ensus compliance with this CEM, Separate and works (Wave 1 and Wave 2). |
| Wave 5a, 5b & 5c | NA | All | N All | A A | All | All | ₹ | N N | All | al. |
| Soft soils (Wave 1, 2, 3 & 4) | 4 2 | ĪΫ | वं | ž | All | All | īV | ₹ | All | ¥ Z |
| Section 3 to | ¥ | N A I | F | ₹ | All | All | Α | N N | All | 3,6,7 |
| Comments | Wave 1,2, and 3 soft soils works involve proparatory activities only | | | Wave 1,2, and 3 soft soils works involve preparatory activities only | | | | | | |
| Soft soils (Wave 1, 2 & 3) | ₹ | ¥ | F | A A | All | All | All | IIV. | All | ď. |
| Section 1 and 2 | ¥. | ¥ | N. C. | All | - Pi | All | A. | ₹ | All | 7 |
| Requirement | The SSI shall be designed with the objective of minimising adverse changes to existing access a arrangements and services for other transport modes and, where feasible and reasonable, facilitate an improved level of access and service to other transport modes comparable to or better than the axisting situation. | Safe podestrian and cyclest access through or around workedes shall be maintained during construction. In crcumstances where predestrian and cyclest access is restricted due to construction activities, a satisfactory alternate route shall be provided and suppossed. | Constructor vehicles (including staff vehicles) associabed with the SSI shall be managed to. (i) minrime bring or quality on the construction of the construction of the construction sites and compounds, and (i) minrime bring and quality residential streets who repreteable. (ii) adhere to the use of local roads (through residential streets and fown centres) to gain access to construction sites and compounds, and (d) adhere to the nominated haulage roades dendified in the Construction Traffic Management Plan | In relator to new or modified local road, parking, pedestrain and cycle infrastructure, the SSI shall, where feasible and reasonable, to designed (s) in consultation with the relevant council. Or and safety and talker shall be a fastion to the second section of the show makers. | 0058. The Approach shall ensure that the SSI is designed to minimise land take impacts to surrounding properties (including agricultural properties) as far as feasible and reasonable, in consultation with the filtered and | Where the viability of ensiting agricultural operations are identified to be impacted by the land requiements of the SSI, the Applicant shall, at the request of these landsonners, employ a suitably qualified and expensional chargeholder, whose appointment has been endorsed by the Sercietry, to assist in identifying alternative farming opportunities for the land, including purchase of other endorsed by the Sercietry, to assist in identifying alternative farming opportunities for the land, including purchase of other endorsed by the Sercietry, and a second s | Unencumbered access to private property shall be maintained during construction unless otherwise agreed with the landowner in advance. A landowner's access that is physically affected by the SSI shall be reinstalled to at least an equivalent standard, in consultation with the landowner. | The Applicant shall, in consultation with relevant landerwers, construct the SSI in a marrier that minimizes intrusion and deruption to agricultural operation by surrounding properties (e.g. stock access, access to farm dams, etc.), unless otherwise agreed by the landerwise. | Any damage caused to property as a result of the SSI shall be reculted or the landowner compensated, within a reasonable timeframe, with the coats borne by the Applicant. This condition is not intended to limit any dairns that the landowner may have against the Applicant. | Where the SSI traverses a state forest, the Applicant shall in consultation with the NSW Foresty Corporation, ensure that construction does not unduly district existing foresty activities, access for fire fighting and access for other activities within state forests, unless otherwise agreed by the NSW Foresty Corporation. |
| Part | HT Th | 857 Sa | B58 (a) (c) (d) (d) | | BEO Th | B61 ex | . B62 Ur | B63 Th | B64 An | B65 W |
| Category | | | | | PROPERTY | | | | | PORES IX |

| Category | Part | Requirement | Section 1 and 2 | Soft soils (Wave 1, 2 & 3) | Comments | Section 3 to 11 | Soft soils (Wave 1, 2, 3 | Wave 5a, 5b & | Comment |
|--------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|----------|--------------------|-----------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | B66 | The SSI shall be constructed in a manner that minimises duct emissions from the site, including wind-blown and traffic-generated dust and tracking of material onto public roads. All activities on the site shall be undertaken with the objective of preventing visible emissions of dust from the site. Should such visible dust emissions occur at any time, the Applicant shall identify and implement all feasible and reasonable dust mitigation measures, including reseation of relevant works, as appropriate, such that emissions of visible dust cease. | ₹ | ₹. | | All | M | All | This requirement is addressed in the Pacific Complete CEMP (Appendix BB Construction Air Quality Management Plan. Chapter / Enviewmental Control Measures). Pacific Complete will approve Contraction. EMNs. EWMSs and ESCPs to ensure completement to CAS apparent and approved CEMP documentation in place for soft soft works (Wave 1 and Wave 2). |
| HAZARDS AND RISK | AND RISK | A Dangerous goods, as defined by the Australian Dangerous Goods Code, shall be abored and handled strictly in accordance with. (a) all relevant Audralian Sundards, (b) for further a minimum bud volume equirement of 110% of the volume of the largest snaple shared volume, within the bund, and (b) the divides, a minimum bud volume equirement of 110% of the volume of the largest snaple shared volume, within the bund; and (c) the Environment Protecton Manual for Authorised Officers. Bunding and 581 Manuagement technical bullering Environment Protecton Authority, 1997), In this event of an inconsistency between the requirements islated from (a) to (o) above, the most stringent requirement shall prevail to the extent of the inconsistency | Ail | ₹ | | All | ₹ | ₹ | This requirement is addressed in the Pacific Compiete CEMP (Appendix B4 Construction Soil and Water CEMP (Appendix B4 Construction Soil and Water CEMP (Appendix B4 Construction B4 Control |
| WASTE MAINGEMENT | B68 | Whate generabed outside the side shall not be received at the able for storage, thatment, processing, reprocessing, or disposal on the side, except as expressly permitted by a licence or waste exemption under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste. | ₹ | All | | AI | NA. | Ā | This requiented is addressed in the Pacific Complete CEMP (Appendix B7 Construction Waste, Resource and Energy Management Plan, Chapter 6 Environmental Midgation and Management Measures) Pacific Complete will approve Contractic EMPs and any approved CEMP complete with his CoA. Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| | 698 | The reuse andier recycling of waste maternals generated on site shall be maximised as far as practicable, to minimise the need for treatment or disposal of those materials off site. | ₹ | N. | | Ail | N. | IIΥ | This requirement is addressed in the Pacific Complete EAPP, Appendig To Contruction, Wash, Resource and Energy Management Plan. Chapter 6 Energy Management Plan. Chapter 6 Pacific Complete and approve Contractor EMPs and Pacific Complete will approve Contractor EMPs and Management of EMP approved Contractor EMPs and and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| | 870 | All liquid and/or non-liquid waste generated on the site shall be assessed and classified in accordance with Waste Classification Guidelines (Department of Environment, Climate Change and Waler, 2009). | TW TW | ₹ | | ₹ | He . | All | This requirement is addressed in the Pacific Complete Pacific Appendix To Contention wash, Resource and Energy Management Plan. Chargers of the Commission of Management Measures) Pacific Complete will approve Contractor EURs and EWMSs to prace complete with this CoA. Separate and approved CEMP documentation is in place for soft soil works (Wayer 1 and Wayer 2). |
| | 178 | All waste materials removed from the site shall only be directed to a waste management facility or premises laviduly permitted to accept the materials. | ₹ | ТV | | Ail | N. | ₹ | This requirement is addressed in the Pacific Complete Call P. (Appendix P. Construction) Wate. Resource and Energy Management Plan. Clastyte 6 Energy Management Plan. Clastyte 6 Pacific Complete with approve Contractor EMPs and Pacific Complete with sprove Contractor EMPs and Management of Call Plan and and approved CEMP decumentation is in place for soft poil works (Wave 1 and Wave 2). |
| UTLITIES AND SERVICES UNITE SAPE SAPE SAPE SAPE SAPE SAPE SAPE SAP | AND SER | WORKS Ublises, services and other infrastructure potentially affected by construction and operation shall be identified prior to construction to determine requierments for access to diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are field to be affected by the SSI shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Applicant. | ₹ | ₩ | | Ail | All | Ψ | To be addressed during debiled design. Destilled design lot reports are required to detail how the design complies with the relevant environmental design criteria. Placific Complete, with relevant environmental design lot reports he never whe teached sessing lot reports he never the teachers. |

| Category Part | The side (1) be (2) be (3) be (4) be | Avoilian Environ Of the E and incl (a) deb (b) de (b) de (d) nn a (d) nn a (e) def (f) dem (b) de dem (c) dem | Notwith Rooding 975 faceling facility | B76 The land | Where condition (b) result (b) result (b) result (b) result (c) re | Hurshys mrchaco (Habrana (Habrana (Habrana (Habrana |
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| Requirement | The sides for ancillary facilities that are associated with the constituction of the SSI and that have not been identified and assessed in the documents listed in confidon AZ shall. (a) be bounded once that a waterway (100 meters for a Stable Environmental Planning Policy No. 14, wetland or known Oxieyan Pygray Perch habbat waterway); (b) be founded with on expectable instances or vegotishen leading to a connectivity structure. (b) be bounded in areas of we celegopial admirance and require no cleaning of native organisms. (d) be bounded on relative from the resease the founded on the structure of the struct | Avoilary facilities that have not been previously identified and assessed in the documents listed in condition A2, and do not meet the criteria set out under condition B73, shall be approved by the Pervicemental Representative prior to its establishment. In obtaining this approval, the Applicant shall consult with the orientant bulb and the relevant bulbs and the relevant council, and demonstrate to the abstraction of the Environmental respectant to the second of the Environmental reports and reduce, but not necessarily be immed to. 10. describes not the electrication and accessarily permitted in an arrangement, the second council and the second council and the second council and the acceptable attention of the acceptable attention and acceptable attention a | Nowthunding condition B74, ancillary facilities that have not been previously identified and assessed in the documents letard in condition A2 and result in additional impacts to bodiversity, horitage. Teaching and holps beyond those approved for the SSI, shall be approved by the Sterolary prior to their establishment. In order to obtain this approved. The Applicant shall undertake an assessment of the anomality facility in accordance with condition B74 and forward a copy of the assessment report to the Secretary, as part of the approval submission, at least one month prior to the establishment of the facilities. | The land on which amiliary facilities are located shall be rehabilished to at least their pre-constitution condition or batter, unless otherwise agreed by the landowner. | Where changes are made to the boundary or use of an ancillary facility, including facilities identified in the documents linked in condition A2, the Applicant shall assess the facility against the criteria soci of under condition B74, or an accordance with condition B74 or by the criteria set out under condition B74 or by the criteria set out under condition B74 or by the criteria set out under condition B74 or by the criteria set out under condition B74 or by the criteria set out the criteria set out under condition B75. The relevant approval shall be obtained prior to the establishment of the arcillary facility. | The Application are used in the internal processing in the control of the control of the control internal control in the control of the control internal control in the control of the control internal control internal control in the control internal control internal control in the control internal control internal control in the control internal |
| Section 1 and 2 | ₹ | ₹ | . ₹ | A | ₹ | |
| Soft soils (Wave 1, 2 & 3) | * | J. Pil | W | M | PAI | |
| Comments | | | | | | Condition removed in Mod 2 |
| Section 3 to | ¥ | ₹ | ₹ | TV. | P | |
| Soft soils (Maye 1, 2, 3 & 4) | ₹ | N | ₽ | ₹ | All | |
| Wave 5a, 5b & | ¥ | E. | ₹ | All | All | |
| Сонтепт | Pacific Complete has an approved Ancillary Facilities. Management Plan (Appendix 89 of the Pacific Complete CEMP) The AFFIP was approved by the Environmental Representative on 10 February 2016. The purpose of the AFFIP is the detailed flow Pacific Complete wall asserts, contact, dain approval and manage individual ancillary facility reading read curing the project. She specific arcitlary facility management plans will be prepared by the "affic Complete in accordance with the magnitumes of Appendix 80 Ancillary Easileises. Management Plan (ER approved 10 February 2016) | Pacific Complete has an approved Ancillary Facilities Management Plan (Appendix 89 of the Pacific Complete CEMP). The AFEN Was approved by the Environmental Representative on 10 February 2016. The purpose of the AFEN is to detailed how Pacific Complete will assess context, gain approved and manage individual ancillary facility sites during the project. Can seported mortality that Amanagement fains will be prepared by Pacific Complete in accordance with the requirements of Appendix 89 Ancillary Facilities. Management Plan (ER approved 10 February 2016). | Pacific Complete has an approved Anciliary Facilities Anagarement Plan, Algenoxic 80 in the Facilic Complete CEMP. The AFMY was approved by the Environmental Representative on 10 February 2016 The purpose of the AFMP is to detailed how Pacific Complete by all seases, cornell, gain approval and manage included and analysis facility management plans project. Sits specific and sits y facility management plans the large project and pacific Complete in accordination with the requirements of Appendix (30 Annillary Facilities Management Plan (ER approved 10 February 2016) | Pacific Complete has an approved Anciliary Facilities Management Plant Approved By the Pacific Complete CEMP. The AFMY was approved by the Environmental Research on 10 February 2016. The purpose of 19 February 2016. The purpose of 19 AFMP is to detailed how Pacific Complete will assess, consult, gain approval and manage inclindual manifully fauld with settle during personal propert. She specific anciliary facility management plants by being complete in accordination with the inspiratory and properties and approved to the properties of pacific complete and approved to the properties. | Pardic Complete has an approved Ancillary Facilities Managament Plan (Nepredic 88 of the Pacific Complete CEMP) The ARMP was approved by the Environmental Representative on 10 February 2016. The purpose of the ARM is to deland how Pardic Complete will assess, consult, glain approval and manage arbidratial ancillary facility and approval and ministry assess, consult, glain proval and expedit and project. Site specific ancillary the failty management plans will be propused by the Armid Complete in accordance with the requirements of Appendix 89 Ancillary Facilities Management Plan (ER approved 10 February 2016) | Sected Condition removed in Med 2 |

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| Gategory | y Part | Requirement | Section 1 and (| Soft soils (Mave 1, 2 & 3) | Comments | Section 3 to | Soft soils (Wave 5a, 5b & (Wave 1, 2, 3 & 4) | ave 5a, 5b & 5c | Comment |
|----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|-------------------------------------------------------------------------------------------------|--------------|----------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 879 | The Applicant shall ensure that makenal extracted from the borrow siles established for the SSI, is only used for the construction of the SSI subject to this appreval, and no other sections of the Pacific Highway or other works | All | All | | All | IV | ll A | Pacific Complete will tretate site specific Bornov Site Managoment Plans as required by the project. This requirement vial apply to all bornov site management plans prepared by Pacific Complete. |
| CONSTRI | B80 | PONSTRUCTION ACTIVITIES. The Applicant shall ensure that all plant and equipment used at the afe is. Bool (a) maintained in a proper and efficient condition, and (b) operated in a proper and efficient manner. | IV | ₹ | | Ψ | ₽ | E S | Pacific Complete has an approved CEMP Pacific Complete will approve Confractor EMPs and EWMSs and apply RMSFIC specifications to ensure compliance with this CoA. |
| OPERATI | ONAL PERF | OPERATIONAL PERFORMANCE BS1 The Applicant shall ensure that during the operation of the SSI, water quality risks to the Woodburn Borefield dirinking water catchment are minmised to the salistacion of Rous Water. | NA | īŧ | Soft soil early works at Tuckombil canal is at the southern tip of the Woodburn Borefield | 160 | 4 | 9 | To be addressed during debilled design. Detailed design bit reports are required to detail how the design not reports are required to detail how the design normalies with the nelevant environmental design but reports Per |

| Noolg Voolg | COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963 | | | | | | NSW NSW | Transport Roads & Maritime Services |
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| ART | PART C - Community Information and Reporting | Reproduc | ced from W2 | Reproduced from W2B Staging Report, March 2015. | | | | |
| Category P. | Part | Section1 and (Wav | Soft soils (Wave 1, 2 & 3) | Stage 1 Comment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & | Stage 2 Comment |
| V.L. | For to the commencement of construction or as otherwise agreed by the Secretary, the Applicant shall prepare and implement a Community Communication Strategy by the satisfaction of the Secretary. The Strategy shall provide mechanisms to facilities the Schiller of the Schiller Schil | ₹ | ₹ | An overarching Woolgoolga to Balina Community Communication Strategy will be prepared. | \$ | ₹ | Y. | An overacting Woogooga to Ballina Communication and Stakehodde Engagement Strasgy has been prepared and approved. DPE Approval dated 13 May 2015. |
| MPLAINTS | Price to the commencement of pro-construction and construction, or as otherwise agreed by the Secretary, the Applicant shall ensure that the following are available for community enquiries and complete to the community enquiries and complete to the second of the secon | ₹ | ₹ | | 75 | Ŧ | N. | inhormation and systems troquined by this condition have been established. Refer to the overarching Vicogoogla to Ballina Communication and Stateholder Engagement. Stategy (DFE Approval dated St 184/2015). Referent details have been included in the approval barillet Complete CEMP, refer to recomplished and Stateholder and Community Communication. Paties Societies 3 Stateholder and Community Communication. Paties Complete will approve Contractor EMPs and EVMASs to ensure compliance with this CAA. Separate and approved CEMP? |
| | Prior to the commencement of pre-construction and construction, or as otherwise agrood by the Secretary, the Applicant shall prepare and implement a Censtruction Complaints Management System consistent with AS 4280 Complaints Harding and manitar the System for the duration of construction and up to 12 months showing completes on the SSI information on all complaints received, including the means by which they were addressed and whether resolution was reached, with or without modiation, shall be maintained in a permy and applies or the Secretary on request, register and modulod in the construction compliance reports nequired by this approval. The information contained within the System shall be made available to the Secretary on request. | ₹ | ₹ | Roads and Maritime has developed an oversching Woolgoogs to Balline Construction Complaints Management System. | ₹ | ₹ | PF. | information and systems required by this condition have been established. Refer to the overtarching Woolpodgs by Ballina Communication and Stakeholder Engelment Stateby (DPE Approval dished 13 May 2015). Referent details have been included in the approved Pedic Complete CEMP, refer to Section 6.3 Stakeholder and Community Communication and Section 6.3 L2 Completia and Englare Procedure Pedic Complete will approve Contractive EIPs and EVMSs to ensure compliance with this CoA. Separate and approved CEMP and documentation is in place for soft sed works (Wave 1 and Wave 2). |
| ONOISION | PROVISION OF ELECTRONIC INFORMATION Prior to the communication and construction, or as otherwise agreed by the Secretary, the Applicant shall establish and maintain a new website, or dedicated pages within an existing website, for the provision of electronic information associated with the SSI, for the dutation of construction and by 12 ments belowing completion of the SSI. The Applicant shall subject to confederable, publish and maintain in-backed information massociated with the SSI, for the dutation of construction and by 12 ments profession of the SSI. (a) information on the current explanation status of the SSI. (b) a copy of the documental status of the SSI. (c) a copy of the documental status of the SSI. (d) a copy of each relevant enrichmental mental profession to this approval. (e) a copy of each relevant enrichmental explanation of the control of the status of the SSI. (f) a copy of each relevant enrichmental explanation of the status of the SSI. (g) a copy of each relevant enrichmental explanation of the status of the SSI. (g) a copy of each relevant enrichmental explanation of the status of the SSI. (g) a copy of each relevant enrichmental explanation of the status of the SSI. (g) a copy of each relevant enrichmental explanation of the status of the SSI. (g) a copy of each relevant enrichmental explanation of the status of the status of the status of construction explanation of the status of the s | ₹ | ₹ | An overarching with alle addressing all active project stuges will be developed | - Ai | ₹ | ₹ | Information and systems required by this condition have been established. Refer to the overarching Vicolopolga to Balma Communication and Stateholder Engagement Stategy (IPE Approval tabled 13 May 2015), Pacific Complete will work closely with RMS to ensure the required information is made available. |

| Category Part The Applicant st ecologist is commission of all a describion of a summary of condition of a summary of condition of a summary of a | | desi | nduced from | Reproduced from W2B Staging Report, March 2015. | | | | |
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| Part O | | | | Stage 1 | | | | Stage 2 |
| | Requirement | Section 1 and (Wav. 2 | Soft soils (Wave 1, 2 & 3) | Comment | Section 3 to 11 | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | |
| The Apr describe targeted and Def (a) folial (b) seat (c) | The Applicant shall devolop a harmework for finalishing miligation measures for threatened species. This Miligation Framework shall be developed by a suitably qualified and experienced coolegels in considiation with DFI (Fisheries), GEH EPA and DOE, and stabilities to the satisfaction of the Scoretory prior to commission with DFI (Fisheries), GEH EPA and DOE, and stabilities to the satisfaction of the Scoretory prior to commission of the process to finalising the bedieversity strategies, plants and programs requered under this approval. The Miligation Framework shall include: The Miligation Framework shall include: The Miligation Framework shall include: The Adaption Framework shall include the second process to the second programs requered under this approval. And with reference where retrievant to compliance with relevant NSW and Commission with the State Sta | 77 | To To | To be developed and implemented as an overarching framovers addressing all active project sluges and updated as required. | ÿ | N. | ¥ | Milgation Framework approved by DPE on 8 May 2015. |
| (9) (1) (1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | The Applicant shall prepare and implement a Connectivity Strategy, to be submitted and approved by the Secretary prior to the commercement of constituction. The starting describe the networks for the species for the species and broaden of, furth connectivity structures for the SSI and shall demonstrate the effectiveness of connectivity measures for the species and observed a shall be developed from the chiral Connectivity. Strategy in the documents islad in condition AZ in consultation with the EPA 4EH, LDP (Friberies) and observed a shall be developed from the chiral connectivity structures for the statistics of the Secretary The Services which the EPA 4EH, LDP (Friberies) and observed and design, and spatial and aqualite from the chiral observation of the foreign and design, and spatial of the connectivity structures, with reference to relevant State and Commonwealth threaded species guidelines and the results of the connectivity structures (including occiliseranty fencing) in terms of location, design and hard the consideration of the reference of the connectivity and revoluent pathways; (i) mainlain or improve connectivity and movement pathways; (ii) mainlain or improve connectivity and movement pathways; (iii) an location at and backet uses and backet use and backet uses and backet use and backet use and backet uses and backet use. (ii) here results of surveys undertaken to determine the habbital, sponess movement pathwas is confirm the determine the habbital, sponess movement pathwas is connectively substrates are neal to be impedied by analyzing over 100 volvidas por (40) that are resigned as part of the Sio or expensions as the receives or harding species, nicked for the landscaping of regulation leading to connectivity structures as increased by substrates; (ii) commitment is unplannent the landscaping of regulation leading to connectivity structures. | 3 | AA | To be implemented as an overariciting statingy addressing all achie project stages and updated as required. | ₹ | ş | \$ | O and D) with the required to prepare a Connectivity Shalogy in and D) with the required to prepare a Connectivity Shalogy in the required to prepare a Connectivity Shalogy in the required so that Shalogy in the requirements of this Co.A. Pacific Composite will make with the requirements of this Co.A. Pacific Composite will make the requirement Co.A. The read of t |
| (h) a fair (i) the m (ii) and as the EPA (b) critical sundroam (m) (i) detail (m) (ii) the (m) (iv) (m) (iv) (m | (i) a fancing strategy, describing the localbon, design and length of lenning, which must extend beyond the edges of habital for finnatural spociess. (ii) the maintenance of connectably measures and flexing for the length of the action, including the terming and sequency. In a sessessment of the proposed studings, and measures to confirm and provide for flood naturally of those structures in gight of this assessment. The agreement of the EFA GH2 or flood immunity length shall be obtained prior is the communication of the referent stage. The terminant has been described by the conformation of the season of the | ₹ | 9 | To be implemented as an overarching strategy addressing all active impress stages and updated as required. | ą | \$ | ž | To be addressed during debided design. Each design Portion (to A. B. C. and D) without covers Section 3 through to Section 11 will be requirements of the Scot, Pacific Compoler and accordance with the requirements of the Scot, Pacific Compoler was reviewed technical design deliverables to ensure compliance with the relevant CoAs. The nature of the early enabling construction activities associated with the stack to the section of the sec |

NSW Roads & Maritime

COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963

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| Comment | Biodiversity Offeel Strategy Approved (DPE 6 January 2016 and DoE 7 January 2016). | Threatened Biodiversity Offset Status Report (DPE Approval 6 January 2016) - Note that the 1905R excludes Scharbor and 19 and 10 August of Instanted Biodiversity Offset Status Report was submitted for approval in mid June 2016 (which addresses the Koala Populaten Coolgardie & Broadwaler as well as Lubrari Rainforest. | A Bodyversity Offset Package will be prepared. Program currently being prepared. | A Biodversity Offset Package will be prepared. Program currently being |
| Wave 5a, 5b & 5c | ₹ | क्ष <i>ई</i> | ₹ | NV. |
| (Wave 1, 2, 3 & 4) | ₹ | NA | ₹ | 8 |
| Section 3 to | ₹ | 3.4.6.9.10. | ₹ | \$ |
| Comment | An overarching Biodwesity Offset Strategr will be prepared for the project and will be updated as required. | Soft soil early works do not impact on the subject species identified in D4. | A project wide Brodiversity Office! Package will be propained. | A project wide Biodiversity Officet Package will be proported |
| Soft soils (Wave 1, 2 & 3) | ā | ¥ | ₹ | 2 |
| Section1 and 2 | 2 | ₹ | 2 | 7 |
| Requirement | The Applicant shall prepare and impliment a Bodoversity Offices Strategy to outline how the ecological values lost as a result of the SSI will be offeat in porpeluby. The Strategy shall be described by the control of the Scrategy of the Strategy in the documents listed in control of 2. In consultation with the OEH EPA. (DPI (Finiteries) and OEE, to the satisfaction of the Sscretary (Indices detervies agreed to by the CALE-PSA. OPI (Finiteries) and OEE, to the satisfaction of the CALE-PSA. OPI (Finiteries) and OEE, to the satisfaction of the CALE-PSA. OPI (Finiteries) and OEE, to the SSI opinion of the satisfaction of the SSI opinion of the satisfaction of the SSI opinion of the satisfaction of the satisfaction of the SSI opinion of the satisfaction of the satisfactio | Prof to the commercement of construction work that would result in the distribution of the relevant exciting coological communities, threatened species, or than habital, unless otherwise appeals the separative facilities of the separative facilities facil | | (ii) Burgated management actions, regeneration and/or revergebeton strategies to be undertaken on the officet area(s) to improve the accological quality of these areas for the referent access and communiciate. (ii) clear performance objectives for management actions that will enable maintenance and enhancement of habitat within the officet area, as well as contribute to the better protection of individual and/or propriets for the individual performance and communication to the individual performance and committees. (ii) performance and completion rollines. (iii) performance and completion rollines. (iv) through and completion climited. (iv) better devices and completion rollines. (iv) through and completion rollines. (iv) through and completion rollines. (iv) through and responsibilities for the transfer protection of the performance and commitment to the provisions of the Biodiversity Officet Package, and (mit) a description of funding armingments or appearance in rollines in the provisions for the turn of biodiversity Officet Package, and (mit) a description of funding armingments for appearance in rollines in rollines and rollines armony cological receivers. Any funding related additional massures shall be provided to cological activities to the responsibility of the transfer of the region. The Biodiversity Officet Package shall include deaths of the original relations approved under condition DA, and innotes and armony of the relations of the region. The Biodiversity Officet Package shall include deaths of the original relations approved under condition DA and funding armony of the region. The Biodiversity Officet Package shall be implemented by the responsible parties according to the infertion and original relationship of the responsibility of the Package shall be implemented by the responsibility of the package is already to describe a page or a package of the relation and relationship of the responsibility of the package is already to a received or a scenarial page original and relationship o |
| ory Part | 80 | 7 | | DS(h)- |
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| Category Part | Requirement | Section1 and | Soft soils (Wave 1, 2 & 3) | Comment | Section 3 to | Soft solls (Wave 1, 2, 3 | Wave 5a, 5b & 5c | Comment |
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| | | ₹ | ₹ | | Ail | ₹ | AI | Neat Box Plan approved (OPE approval 17 February 2015) |
| È | TANKSCOCKION STRATEGY TO A REAL CONTROL OF THE PROPERTY OF TH | ₹ | ¥ | A project wice strategy will be prepared that is project with a projects with the projects of the project of the proje | ¥ | ₹ | ₹ | Transceaton Stategy Update 3 (for Section 3-11) Approved by DPE on 3-5 Sebrary 2016. DeE have confirmed no comment. Transfeadion Strategy Update 2 (Waves 1, 2 and 3) Approval by DPE on 11 June 2015. |
| DB (a)- | The Applicant shall propore and implement Threatened Sposes Management Plans to detail how impacts of the SSI was be maintened and managed specifically for each spocies dentified as significantly imported in the Gocuments issued in condision RZ or in accordance with condision ODI in contrastation with EPA GEA, (Fightee) and the dentified that the Gocuments issued in condision RZ or in accordance with condisionable with the dentified of the Gocuments issued in condision RZ or in accordance with condisionable with the dentified of the Gocuments is the final mode but not necessarily be infected in condision RZ or in accordance with condisionable and the secondary and state in the design and the dentified as the secondary and state in the SZ or in accordance with the secondary and state in the SZ or in accordance with the secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary and state in the SZ or in a secondary secondary and state in the SZ or in a secondary and secondary an | ₹ | V | Rejer to the table in Section 7 of the Stage 1 Staging Report which identifies which plans apply to each | ₹ | ₹ | ₹ | The following Threatened Species Management Plans have been prepared and approved. Threatened Fore Management Plans Update (Sestein 1, Servicio 2, Wever 2, Land 3) DEF Expoured 32 Application (Sestein 1, Servicio 2, Wever 2, Land 3) DEF Expoured 3, Application 2016. Defendence 3 to 11) DEF proporal 3, Application 25 DEF Approval 20 Application 3 to 11) DEF Expoured 12 Application 3 DEF Expoured 21 Application 3 DEF Expoured 3 DEF Expoure |
| ()-() 8q | (i) details of contrigency measures that would be implemented in the event of changes to habitat usage patents, antibles, distribution, and movement patterns attributable to the construction or operation of this SSI, based on absolute data. (ii) mechanisms for the mendions, previous and amendment of these patrs. (iii) provision for organs mondering during operation of the SSI (for operation of the SSI (for operation of the SSI) (for operation of the SSI (for operation of the SSI) (for operation of the SSI (for operation of the SSI) (for operation of the | ₹ | ₹ | Refer to the table in Section 7 of the Stege 1 Staging Report which identifies which plans apply to each | ₹ | ₹ | ₹ | As above. Approved Threatened Species Management Plans for part of the approved Pacific Compiles (EMP (i.e. Construction Fina and Fauna Management Plan). Pacific Compiled will approve Contractor EMPs. (WMSs and ESCPs to ensure compilaror with the retexant requirements of the various. Threatened Species Management Plans. |
| D9 (a)- (c) | As part of the Threatened Species Management Plans required under condition T08, the Applicant shall prepare and implement a Keala Management Plans required under condition To. Belan shall be prepared by a suitably qualified and experienced species export and shall include, but no incensively be landed to the species of | A.A. | MA. | | 6,9,10 | \$ | 99 90 | Kodab Management Plan (update 2) for Sections 3-8 (evoloding fluda population), Section 11 and Monor Cut. KMP (update 2) DFE approval Abstraction of Section 2016. Kodab Management Plan (update 3) for fluda population. Broadwate (orth Cat and Amanagement Plan (update 3) for fluda population. Broadwate (orth Cat approval in February 2018. Pagics Complete will approve Contracter. EMPs. EVMSs and ESCPs to ensure complaince with the relevant requirements of the Kodab Management Plans. |

| Category | Part | Requirement | Section1 and | Soft solls (Wave 1, 2 & 3) | Comment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | Comment |
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| | (p) 6G | (i) justification that the location and design of mitigation measures. (ii) have been designed with the objective of ro Kosta road fall from the commencement of construction of the SSI in the event that a Kosta is injured or killed dump construction or operation, the shall be reported or the Applicant's welder within 25 for the leader with 25 for the construction and the construction and the construction of the Coolgarde/algaptivite. Breadwater and Womenta Bayes the Bayes of the Sacrativity of the entire the shall be t | ≨ | ž. | | . e. e | \$ | - 85 - 86 | Koala Management Plan (update 2) for Sections 3-8 (excluding linka proteins in 1 and Monoro of KMR (update 2) PE Exproved 4 february 2016. Due approved on 29 february 2016. Koala Management Plan (update 3) for link peoplation. Recordants (northough of Lang Hill) and Coolgade (Section 10) was submitted to Due for the 2004 of Plants (100 february 100 febru |
| | D9 (e)- | (e) if the mitigation measures discussed in condision DB(d) cannot be demonstrated to be effective to the satisfaction of the Secretary, in consultation with EPA GEH and DDE, provident for the PB into be evived to include the design and construction of a minimum region of the provident of the propriation of the provident of the propriation of the provident of the propriation of the propriation of the propriation of the concentration of the propriation of the | 3 | 2 | | 6. 9. 10 | \$ | ख क | Koala Management Plan (update 2) for Sections 3-8 (excluding liuka population). Section 1 and Monoro Out, KMP (update 2) DEE approval Management Plan (update 3) for liuka population. Recording for approval on 25 perioung 2015, Koala Management Plan (update 3) for liuka population. Broadwaler (north organism and septim and 100 mentions of the Management Plan (update 5) for liuka population. Broadwaler (north organism and sections of the Management Plans. EMPs. EVMSs and ESCPs to ensure compliance with the infevent nequirements of the Koala Management Plans. |
| | | | ž | ž | | 6, 9, 10 | NA | <i>5</i> 5 र्स | Koala Management Plan (update 2) for Sections 35 (excluding likin problem). Section 11 and Monoto Cut KNIP (update 2) DPE approval 4 rectumy 2016. DUE approval of the statemy 2016. DUE approval on 52 featurey 2016. Koala Management Plan (Lodge 19 for like spopulosino Repostante in Charles of Lang Hi), and Coolgade (Section 10) was automited to DUE for EMPLOY (Long His supplement Band DUE for EMPLOY (Long His SUM) and ESCP4 to ensure compliance with the relevant requirements of the Koala Management Plans. |
| | D10 | Prior or the commencement of construction, the Applicant shall undertake a land use survey to identify areas that are sensitive to construction blands and construction ground-torne. Prior or the commencement of the survey shall be incorporated into the Construction None and Vibration Management Plan. | ₹ | T. | | 2 | Ail | N. | Parotic Compiete (Delvery Partner of Roads and Marieme Services) has an approved Construction Environmental Management Plant (Parell Provision Parotics 20 of 11 has bed use survey was incorporated into the Construction Noise and Victorion Management comporated into the Construction Noise and Victorion Management Complete Will approve Construction Noise and Victorion Plant Parotics Complete with approve Contracte EINPs and EMMSs to ensure compiliance with centatruction noise requirements (CoAs and mitigation measures). |
| O STATE OF THE PARTY OF THE PAR | 110 | | 2 | Y. | Wave 1,2 and 3 soff soll werks do not include operational noise mitigation measures | ₹ | NA | NA | To be addressed during debuiled design; Each design Porton (in A. B., C. and D) which covers Section 3 through to Section 11 will be required to prepare an Operational Notice Review in accordance with the requirements of the CoA. Pacific Compolls will review debined design deliverables to ensure compliance with the relevant CoAs. |

| Category | Part | Requirement | Section1 and NV | Soft soils (Wave 1, 2 & 3) | Comment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | Comment |
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| | | The Applicant shall prepare and implement a Walter Quality Menibining Program, to monitor the constituction and operation impacts of the SSI on surface and groundwine requility and received the constitution of the SSI on surface and groundwine requility and shall include the constitution of the SSI will be substituted from the SSI will be substituted from the SSI will be substituted to the substituted to an accordance of the substituted to an accordance will be affected valarity and offer will be substituted to an accordance will be su | ₹ | ₹ | A project wide water quality monitoring program is being propert wide water quality monitoring | ē | ₹ | ₹ | Pacific Highway Usgradie - Weolgoogla to Ballina Sections 3 to 11 and the ball of the Mayor of the Mayor of the Mayor of the Section of the Section of the Mayor of the Section of the Mayor of the Material Olds of the Material O |
| HVDROLO O | D13 | The Applicant build prepare and miplement a hydrological Mingathon Report for properties where flooding and/or hydrological impacts are predicted to second the relevant flood minagement of operative hydrological Mingathon Report for pressive the second through the second the relevant flood minagement of operative hydrological Mingathon Report and the second through the second through the second through the second of the second of minagement of the second through the second of the second of minagement of the second in the ESI second or the second of the second or the second or the second or the second of the second or the sec | - | NA | Afficuary self self vertic are located in the Clampse and clamps from Boogleine. Roof modeling conducted clamps the design infection that hydrological repeated due to the construction of certical briness in the construction of certical briness in the construction to be constructed to self-certical forces and Rood management objective. | ₹ | NA. | ¥. | To be addressed during detailed design. Hydrological Milgation Reports will be prepared during detailed design des required is for proports with the producing and the projection will be prepared for the proposed design of the correct the relevant flood management objectives) by such design for exceed the relevant flood management objectives by such design of compliance with the relevant CoAs. Parish Compliance with the relevant CoAs. Solis works on the floodpains of the Clarence and Richmond Rivers are not predicted to acceed the relevant flood management believes. Waske St. Sta and Sc don't knowle the design or operation of a completed section of highway. The final flood mindel will be developed as part of the detailed design. |
| | D14 | Based on the mitigation measures identified in condition D13 the Applicant shall propore and motivement a final schedule of feasible and reasonable flood mitigation measures proposed as soot of described experty more condition, which as indivious measures proposed in works, unless otherwise agreed by the Screeday. A copy of each schedule of flood mitigation measures shall be provided to the Department of Planning and Environment and the relevant council prior to the mitigation of the mitigation measures on the property. | i.e | NA. | | AII | NA | AN | To be addressed during distalled design if identified by the requirements for CoA D13 by each design Proting, R.B. G. and D1 with covers Sections. 3 to Section 11. Partic Compiler will review detailed design deliverables to ensue compliance with the relevant CoA. |
| | 015 | The Applicant shall employ a sustably qualified and experienced independent hydrological expert, whose appointment has been endersed by the Secretary, to deal with all hydrological matters and assert landowners in regulating feasible and reasonable mitigation measures. | NA! | NA. | An individual is proposed to be engaged on a project- wide basis before construction commences. | N/ | ₹ | Ail | RMS has engaged a sulfably qualified and experienced independent hydrological expert (Mark Babister) for the project |
| TO GOOD OF | D16 | The Applicant shall provide feasible and reasonable assistance to the relevant council and/or NSW State Emergency Service, to prepare any new or recessary update(s) to the relevant phases and documents in relation to fooding, to reflect changes in flooding fevels. Flows and characteristics as a result of the SSI. | æ | AS | | All | All | All | Noted. |
| | | The Applicant shall prepare and implement a Signage Policy to addresses the impact of fourth (South Grather, Ulmarra, Tyndak, Woodburn, Bloodyeater and Wandel) which are physically assistant to be president, unless orbitatives agreed by the Secretary. The Policy shall be propared in consultation with the Guider Signposting (RTA, July 2007), Tourist Signposting guide (RMS and Destination NSW 2012) and provide for against the considerative that the Signposting for the Policy shall be considered by the Signposting for a sign of the Signposting guider (RMS and Destination NSW 2012) and provide for against the sign of services availables within the bypassed fowns of South Grather, Ulmarra, Tyndak, Woodburn, Broadwalter and Wardell; and (16) informs notherite of routes for suppose the supposed forms that may be backen as a alternative to the highway. | Ą. | ν. V | | 3, 8, 9 and 10 | NA. | ¥. | Noned |
| D18 | D18 | The Applicant shall prepare and implement a Business Access Strategy to address changes to excess to businesses along the highway, at least six months prior to operation. The Strategy shall be propared in consulation with the elevant council, tusiness owners and the New laby Museum and to the satisfaction of the Secretary. Note The Applicant may incorporate the requirements of this condition into the Signage Policy for the SSI under condition D17. | All | NA | Wave 12 and 3 soff soils works do not involve the construction of an operational section of highway. | Αli | NA | NA | Noted |
| O Read | 019 | Upon determining the haldage multiply for construction vehicles associated with the SSI and prior to construction, an independent and qualified export shall program a Road Dilapidation. Upon determining the haldage multiply for construction vehicles associated with the SSI and prior to construction. The Report shall seasas the current confidence in the review prior to be commencement of haldage by really the program of the SSI and distribution of the SSI and account council for review prior to be commencement of haldage by the same and distribution of the same and minor upgrades to the examined to construction realities and installation of lamporary | 2 | P. | | All | 8 | ₹ | Paulic Complete will procure road dispidation services to address the requirements of this CoA. |

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| | Each design Portion (i.e. A thr osserion 1 will be an articage by the Section 11 will be an articage by the Compiler will are compilared with the activities associated with the activities associated with the safe will work acumpilar the safe who compiler and works around the safe on to compiler amount bridge structures, againg 1 a februid be noted must any factories plans for with well any factories believe from the control and contro | Each design Porton (a. A. h to Section 11 will be andezenge Plan in an andezenge Plan in on A. Paolic Complete will be compliance with the recompliance with the standard behalf with the set last works currently in the set last works currently in thems of unknown feeling marked on to comprise manner bridge attractive. As along the noted manner bridge attractives, aspeng it should be noted much and Landardscape Plans for with their progression from Dobalied Design. | Y Facilities Management Plan P.) The AFMN was been on the Debuary 2016. Pacific Complete will be about 2016 to the Complete will be individual ancillary facility management plans ordance with the silves Management Plan (FR illes illes illes Management Plan (FR illes | Sorrow Site Management, irement wil appy to all iPacific Complete. |
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| Comment | To be a addressed during detailed design. Each design Portion (i. e. A. B. C. and O) which covers Service 2 Hought to Section 11 will be required by prepare an Urban Chesign and Londcappe Plan in which exequires an Urban Chesign and Londcappe Plan in the record and addressed and the comparison of the Cock. Pacific Compates will review designed deliverables to ensure compliance with the relievant Cock. Soft sodie works will not require urban design or landcapping. The nature of the early enabling construction activities associated with Wave's S., San and S. in hem are of the design deliverature of the early enabling construction activities as associated with Wave's S., San and Section and their design and indications to these early enabling constructions and elements of permanent works (e.g. permanent tridge structures any elements or permanent works (e.g. permanent tridge structures any elements or permanent works (e.g. permanent tridge structures and severation and transferage plans for Portions A. B. C. and D. see well advanced with their progression from Succession from Succession from Succession from Succession from Succession from | To be a addressed during detailed design. Each design Portion (i. e. A. B. C and D) which cowers Section 3 trought to Section 31 will be recreated by section 32 will be requirements of this CoA. Pacific Complete will reviewed designed design deliverables to ensure compliance with the relevant CoA. The nature of the early enabling construction activities associated with William S. Sett ability and CoA. Pacific Complete and CoA. Pacific Section as that for this section activities carrently being undertakently lates early enabling contraction activities comprise any elements of permanent works (a.g. permanent tridge structure, and permanent works (a.g. permanent tridge structure, and permanent works (a.g. permanent tridge structure) and permanent works (a.g. permanent tridge structure) and permanent works (a.g. permanent tridge structure) and permanent works (a.g. permanent tridge able brief that the development of the Utban Design and Landscape Plans for Suchesannia Detailed Design. | Paolin Complete has an approved Ancillary Facilitate Management Plant (Appendix B9 of the Pacific Complete CEMP). The AFMP was approved by the Euroimental Representation of Debusary 2016. The purpose of the AFMP is to distribute the Pacific Complete will assess, consult, gain sproved has manage middled ancillarly fastly talking their during the policit of the specific ancillarly fastly management plans will be presented by Pacific Complete in accordance with the requirements of Appendix B Ancillary Facilities Management Plant approved 10 February 2016). | Pacific Complete will prepare site specific Borrow Site Management Plans as required by the project. This requirement will apply be all borrow site management blans prepared by Pacific Complete. |
| Wave 5a, 5b & 5c | ¥ | ¥ | 2 | NA |
| Soft soils (Wave 1, 2, 3 & 4) | NA. | Ą | Z | NA. |
| Section 3 to 11 | All | Ail | ₹ | 3.8.10 |
| Comment | An Urban Deeign and Landscape Plan that addresses this condition is to be progued for self-indivant defaded deeign package, Www 1, 2 and 3 sof sells works will not include landscaping | An Urban Design and Landscape Plan that addresses. this condition is to be propared for each relevant defailed design package. Where 1.2 and 3 or it soils works will not include landscaping. | An Ancilary Facilities Management Plan that addresses this condition is to be prepared for each detailed design | No borrow sites are currently proposed for Slage 1. |
| Soft soils (Wave 1, 2 & | ¥ | \$ | 2 | ¥ ž |
| Section1 and | 2 | 3 | ₹ | NA. |
| Requirement | The Applicant shall prepare and implement an Urban Design and Landscape Plan prior to the commencement of permanent bulk works and/or landscaping, unless otherwise agreed by the Secretary, b. present an implement an Urban Design and Landscape Plan prior to the SSI. The Plan shall be propared in accordance with the Reads and Maritime Services urban design and vitaal qualified upperful includes to the control of the Secretary. The Plan shall include, but not necessarily be limited to qualified operful council and community, to the adesigned of the Secretary. The Plan shall include, but not necessarily be limited to (i) local novercemental values. (i) local novercemental values. (ii) horizon evident values. (iii) horizon evident of the Secretary and the plan shall include be seed on the Secretary and the plan shall include to the Secretary and the plan shall include. The Plan shall include to the Secretary of the Secretary of the Secretary and Secretary and Secretary and Secretary and Secretary and Secretary with the Secretary and Secretary secretary and Secretary s | el a description of dialurbed areas (including borrow sites) and details of the strategies to progressively rehabilitabs, regenerate and/or revogatate three areas, including clear objectives and other controls of the strategies of regeneration or revogatation not control to the control of t | Here the properant shall prepare and implement an Ancillary Facilitee Management Plan to detail the management of ancillary facilities associated with the SSI. The Plan shall be prepared in conculsation with the EPA, CBH, DPI (Fisheries), DcE, and the relativistic council, and to the Satisfaction of the Environmental Representative, and shall include, but not interessingly be included by the state of the state of the Environment on and in the vicinity of the state. It is a description of the ancillary facility (including a size liyout plan), its components and deballs of the service of the component on and in the vicinity of the state. It is also the plant is component and management of the state of the plant sequence of cause the state of the state | The Applicant shall prepare and implement a Borrow Sites Management Plan, it manage the construction, operation and rehabilished on of the borrow sites used to source construction materials from the property of construction at the borrow sites, or as deforwate agreed by the Standardy. The Plan shall be prepared in consultation with the Plan (so Child and Ord Child And Ord Child And Ord Child Ord Child Ord Child And Ord Child Ord Chi |
| ory Part | (d) | (a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | PZ1 | DZZ |
| Category | | | ANGILL | BORROW |

| | Modya to Ballina Pecific | | d Maitimo Services) Management Plan Management Plan Compiled EMP was Compiled EMP was re compileres with the dispersion of Services with the dispersion of Services of Services and have 1 and Video 6.) | of Maritine Services) Complete CEM was Complete CEM was ure complanes with the rid approved CEMP fave 1 and Vieve 2) |
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| Comment | The Environmental Representative for the Weolgoobja to Balins Poolife Highway Upgrade Project Murry Curlis of ERM | Nated | Pacific Complete (Delivery Partner of Roads and Maritims Services) has an approved Construction Environmental Management Plan (CERM) zowing Section 28.1 I. The Pacific Complete CRMP was approved by DPE on 23 Codesor 2018. Peafe Complete will approve Contractat EMPs, ENWiss and ESCPs to ensure completers with the Pacific Complete CEMP, Index MS/RSPC commonshall specifications and the requirements of this cod. Separate and approved CEMP documentation is in place for exist soil works (Wave 1 and Wave 2). | Pacific Complete (Delivery Parther of Roads and Maritims Services) has an approach by Environmental Insuparement News approach by Constitutions 3 br 11. The Pacific Complete URIV was approach by Cle m 30 Caches 2015; Pacific Complete Was approach of the Contracte EMPs. EMMSs and ESCP is no neuro completions with the Contracte EMPs. EMMSs and ESCP is no neuro completions with the Pacific Complete CEMP (1998) and the requirements of this CoA. Separate and approach CEMP documentation is in place for soft soil works (Wave 1 and Wave 2). |
| Wave 5a, 5b & 5c | ₹ | All | द | ₹ |
| Soft soils (Wave 1, 2, 3 & 4) | ₹ | All | ₹ | ₹ |
| Section 3 to 11 | ₹ | All | ī | ₹ |
| Correspont | Environmental Representatives may be appointed for control of the relevant works. | | Separate Constuction Environmental Management Plans are proposed for each component of Stage 1. | Separate Construction Environmental Management Plans are proposed for each component of Stage 1 |
| Soft soils (Wave 1, 2 & 3) | ₹ | All | All | 2 |
| Section and (Wave 1, 2 & 3) | ₹ | Æ | ₹ | 2 |
| Requirement | Pine to the commencement of construction of the SSL or as otherwise agreed by the Selectabry, the Applicant shall norminate for the approval of the Selectabry a suitably qualified and experienced Environmental Representable (S) that is independent of the Selectabry in the Management Representative (S) for the desired or construction or as exhibition as and experience and selectabre (S) that is independently between Representative (S) for the desired or the selectabre (S) that is a selectabre or an exhibition of the environmental performance of the Selectabre (S) that is a selectabre or the SSL or selectabre (S) that is a selectabre or the SSL or selectabre (S) that is a selectabre or the Applicant or the Applicant or the Applicant or the Applicant or the SSL or selectabre (S) that is a selectabre or the Applicant or the Applicant or the Applicant S) that is a selectabre or the Applicant (S) that is a selectabre or the Applicant S) th | The Environmental Representative shall propose and submit to the Secretary a monthly report on the Environmental Representative's actions and election on matters specified in condition DZS for this preceding month. The reports shall be submitted for the duration of construction of the SSL unless otherwise agreed by the Secretary. | The Applicant shall prepare and implement (blowing approval) a Construction Environmental Management Plan for the SSI, provin the commencement of construction, or as otherwise agreed by the Secretary. The Plan shall be prepared in consultation with the EFA, CEH, DRI (Existence). NOV and DSE and culture the environmental management practices a management practices are prepared in consultation with the relevant with the relevant and processors and in accordance with the decident for the processor of Environmental Management Plans (Department of Infrastructure, Purming and Abhau Ricocourses, 2004). The Application of Environmental Management Plans (Department of Infrastructure, Purming and Abhau Ricocourses, 2004). The Abhau Ricocourses of the Application of Environmental Management Plans (Department of Infrastructure, Purming and Abhau Ricocourses, 2004). The Abhau Ricocourses, 2004 (Department of Infrastructure, Purming and Schooling). (b) a description of Environmental Management Plans (Department of Infrastructure, Purming and Schooling). (c) a description of the roles and responsibilities for relevant employees involved in the controllance obligations under these conditions of approval. | (ii) an environmental risk analyses to identify the key environmental performance issues associated with the construction phase and details of how environmental performance would be managed and monitored to make acceptable outcomes, including what actions will be below to addressed in the Plan. (ii) measures of the construction of the SSI) in particular, the discussions including due to acceptable outcomes, including due to acceptable outcomes, including due to acceptable outcomes, and an addressed in the Plan. (iii) measures for the manage dust emissions including due to acceptable, beated traffic outcomes and manage and monitorial measures for the management of continuous and tenvis structures are required. (iv) measures for the including due to measure the continuous definition and tenvis structures are required. (iv) measures for which including the measures for including but not necessaryly immed to general and management of continuous measures the structure of the including trades of measures for including the including present including plants, and disposal or a structure of measures for including plants of including due to provide structure or the including trades and management of continuous definition and including structures are required. (iv) measures for monitor and management of continuous definition and including due to the including structure or and management of management of management of management of management and management a |
| ry Part | D D 23 | D24 | TIONEN D25 (a)- (c) | 9820 |
| Category | | | CONSTRUC | |

| Part D256 (e) 0.256 (e) | | Pebe CEMP (Appendix in Park) In Pan). The Padic of Complete Han was completed that per complete with the distance with the distance with the distance and the distance and the of and Viven 2). | plete CEMP (Appendix Plany with was mmilds with approve compliance with the fications and the fications and the a LEMP o 1 and Wave 2). | opeto CEMP In Management Ran) In Management Ran) In Management Ran Inst specificiations and Inst specificiations and ed by RMS vii) out soil wave werfu. | pible CEMP (Appenda h was approved by the was approved by the Tainory Backag the Alana general Plan onsulation period as we Comfacte IMPs, we CCEMP relevant parements of this CcA n place for soft to al numents associated ed by RMS. |
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| Fig. 10 Fig. 12 Fig. 12 Fig. 12 Fig. 12 Fig. 13 Fig. 13 Fig. 13 Fig. 13 Fig. 14 Fig. 14 Fig. 15 Fig. | Comment | rement is addressed in the Pacific Comp studion Noise and Vikandon Managonis Castudion Noise and Vikandon Mana I by DPE on 3 Obcentives 2015. Pacific Cost Pub. E. (WMS and ESCPs to encure P., refevour RMSPC cereotromal speci- mis of the Cost. Separata and approved suion is in place for eatl soil world (Waw | when the addressed in the Pacific Communities and Accessed Management of the Thirty Communities and Accessed Management of the Thirty Communities and ESGP are nersus in the Communities of the Communities and approve the office Cod. Separate and approve the place of the soft sed well's (New York of New York of New York of Management) and approve the place of the soft sed well's (New York of Management). | forment is a addressed in the Pacific Cock for BA Correlation Soil and Wher Clashin approved by PER on 20 Octaber 2015. Contractic EURP, EWANS and ESGPs in FOR EURP, relevant RMS,FFC environment FOR EURP of the PER OCK FOR EURP COCK FOR EURP EURP COCK FOR EURP EURP EURP EURP EURP EURP FOR EURP EURP EURP EURP EURP EURP FOR EURP EURP EURP EURP EURP EURP EURP FOR EURP EURP EURP EURP EURP EURP EURP EUR | rement is addressed in the Pacific Conyr nucleon Heritage Management Plan) which colches 2015 is pacific Complete with a land Man-Mandpaul Heritage and Educar Horborida. A fell of Controllorido Heritage by 2015 fallowing the campidition for the register of the mana completion for the and approximate completion for the and approximate completion for the and approximate completion for the second of the mana completion for the and approximate Complete with approximately were 1 and Wave 2]. |
| Fig. 10 Property of the control | . 52, 5b & | | | | |
| The control of the co | Soft solls Wave Vave 1, 2, 3 | ₹ | हर | ₹ | Ę |
| hard the Contraction Contraction of the contraction | | ₹ | ₹ | ₹ | ₹ |
| Part of Commercial Union and Chicago Management Trans to an EST St. Myclane and stroptoms of the commercial control of the Control of the Commercial Control of the Control of the Commercial Control of | Септиват | It is proposed to include plans where they are relevant to a particular an indevidual CEMP for example, an example, and example and example and an example and an example and an example and anough on the individual to Supp 1 LEMPs. | Its proposed to trobide plans where they are relevant to a particular an advised CEMP for example, an example and subject to the highlit water any management harmoned, it and relevant to Suga 1 and wald not be recluded in any of the Suga 1 CEMP. | It is proposed to moded plans where they are relevant to De particular an redviciosal CEMP For example, an Oregan Pygrey Perch Hobisti waterray management Inmervisit is not relevant to Stage 1 and would not be included in any of the "Stage 1 CEMP"s. | It is proposed to include plans where they are relevant to be a particular and reference of the particular definition of the particular particular value management framework is not relevant to Slage 1 and would not be recluded in any of the "Slage 1 CEMP"s. |
| Part of the Chapter Dissipator Dissipator Dispipator Di | | | ₹ | | ą |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Section1 and 2 | | ₹ | | |
| Part D256 (e) 0.256 (e) | Requirement | | 162 E E | | (a) a min co min |
| | Category Part | e) 92a | 9.5% 9.5% |) 92G D26 [c: | (F) 922a |

| Category Part | Requirement | Section1 and (Wa | Soft soils (Wave 1, 2 & 3) | Comment | Section 3 to 11 | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & 5c | Comment |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D26 (e) | | ₹ | 2 | is proposed to noticibe plans where they are relevant to a particular and individual CEMP. For example, an Orlegan Popular Petrol balds are way management framework and relevant to Stage 1 of Wanderlot be motuled in any of the Stage 1 CEMP's. | ર | 2 | ₹ | This requirement is addressed in the Pacific Complete CEMP (Appendix BC Zonstudios Defens and Faush Annagement Society. Plan Pacific Complete USIN twas approved by DPE on 20 Cebber 2015. Pacific Complete USIN sproyed Centrader EMPs. EMMS and ESCPs to ensure completions with the PC CEMP, relevant RMSPC environmental approving the PC CEMP, relevant RMSPC environmental approving the PC CEMP, relevant RMSPC separate and approving the PC CEMP of CEMP (New CEMP) and Warke 2). |
| DZ7 | 7000000000 | ₹ | ₹ | Compliance tracking is proposed at project-wide, individual slage, and individual construction parchage. [evels. | ₹ | ₹ | ₹ | Roads and Maritime Services / Pacific Complete submitted its complete recomplement in the Complete Services of Pre-Continue Tendent Designation of Report - Worldpodgs to Ballina - Section 8 to 11 (January 2016) for appreval or the Attach 2016 De perproval or the Complete Transchip Program was obtained on 18 March 2016. The Department noted that the automation incorporated the Pre-Construction Completion Report in accordance with D27(c). The Department had no comments regarding this matter |
| | 810 | 2 | ¥ | Wave 1, 2 and 3 selt soil works do not involve the completion of an operational section of highway, | 150 | ğ | VA | The requiements of this CoA raists to the oparational phase of the project. Soft soil works do not tryoke the completion of an optimitional seation of highway. |
| | | ₹ | NA | Viave 1, 2 and 3 soft soil works do not involve the completion of an operational section of highway | ΙΚ | ¥ | NA. | Noted. Soft soil works do not twolve the completion of an operational section of highway. Valve Ea, Sb, and Sc do not involve the completion of an operational section of highway. |
| D30 | When Iz notives of the commencement of operation, and then as required by the Secretary, the Applicant shall commission and pay the full cost of an independent Environmental fueld if the SSI. This subtitude with the requiremental conditions are conditionable on the Secretary. (a) the conditionable on the Secretary of the Secre | ₹ | NA | Wave 1, 2 and 3 soft soil works do not involve the completion of highway | īŧ | ¥. | NA NA | Noted Self soil works do not involve the completion of an speciational section of highway. |
| D31 | Within GD days of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary and relevant public authorities. | ā | ¥ | Wave 1, 2 and 3 soft soil works do not involve the completion of an operational section of highway | All | NA | NA | Noted. Soft soil works do not involve the completion of an operational section of highway. |

Application of Commonwealth Conditions of

Appendix B Approval

| West S | | COMPETANCE TRACKING - FEDERAL CONDITIONS OF APPROVAL Woolgoolga to Ballina EPBC 2012/6394 | 2021 | į | | | Note only | | Transport Roads & Maritime |
|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | Repro | oduced fron | Reproduced from WZB Staging Report, March 2015. | | 12,384 | GOVERNMENT | Services |
| Category | Part | Requirement | Section1 and (Wave 2 3 | Soft soils (Wave 1, 2 & | Stage 1 Comment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & | Singe 2 Comment |
| STAGING OF | TH + | THE ACTION The Staging Report as required by NSW approval condition A7 must be submitted to the Minister prior to the commencement of each of the proposers staging. Support must also outline the threatened species and communities, and migratory species impacted in each stage. | V VII | ₹ | | ₹ | Υ | All | This document is a revised Staging Report for the Pacific Complete activities |
| A COLONIA | 2 | ANDDATE AND MILEATON OF IMPACES In order to minimise impacts to threatened species and communities, and imgratory species, the approval holder must: a) Adhere to the Searance surveys in accordance with NSW approval condition B5 c) Undertake all so district any water inangement measures in accordance with NSW approval condition B34 d) Design and construct any additional ancitary publishes in accordance with NSW approval condition B73 to order the impacts occur to threatened species and communities, and migratory species or fror habitat. | e e | व | | ₹ | 17 | ₹ | An RMS/Pacific Complete will ensure compliance (measuing, monitoring, sevewing, reporting) with the approved cleaning limits specified by the NSW Project Approval during the detailed phases and construction phase of the project. The aniv of any works with the numinisme the need to clear variable to minisme the project of clear variable or and reasonable and leasthle. Clearing limits will be clearly shown on relevant sead for construction drawings and closely monitored and reports. Plant sead of the project of the purpose of |
| | м | In order to minimise impacts to the Ostayan Pygmy Perch, the approval holder must undertake the action in accordance with NSW approval conditions 67, 88, 89, 813, 940, 841 and 842 | AN N | Ϋ́ X | | 6, 7, 8, 9 | Ą | 3b, 5c | Requirements relating to the defauled design phase - to be addressed during defauled design to be defauled design to the defauled design to the defauled design complies with the relevant environmental design criteria. P edic Complete will review defauled design to their operation senter compliance with design criteria. B edic Complete will environmental environmental design criteria construction phase. These requirements are addressed in the Pacific Complete CEMP (Approxit R2 - Construction Flora and Faune adappy RMSPC environmental specifications to ensure compliance with relevant CoAs. Separate and approved CEMP documentalisticn is in place for soil soil works (Wave 1 and Wave 2). Wave 5a, 5b and 5c early enabling works will only have temporary crossings. |
| | 4 | In order to minimise impacts to the Gant Barred Frog. the approval holder must undertake the action in accordance with the requirements of NSW approval condition 839 | All | NA | | NA | NA | NA | This is not applicable to sections 3-11. Habitat for the Giant Barred Frog only occurs in sections 1 and 2. |
| | ın | T | NA | A A | The Wave 2 project area is close to the eastern boundary of the Ballina Koala population however this condition does not directly apply to the Soft soil Wave 2 works. | 10,11 | 2 | Y. | RMS engaged Niche Erwironnent and Heritäge (Dr Rod Kavannagh) to complete the PVA and Ballma Koda Par has stamfinded to Dec for approval in February 2016. Bhana Xoda Par has Salamfale Obe for approval in February 2016. Bhana Xoda operate as is close to the eastein boundary of the Ballma Koda population, however this condition does not derectly apply to the soft soil wave 2 works. |
| | 9 | 6 The approval helder must have the modelling required by Condition 5 pear reviewed by a second suitably qualified expert. | NA | NA hd | The Wave 2 project area is close to the eastern boundary of the Ballina Koala population however this condition does not directly apply to the Soft soil Wave 2 works | 10,11 | 2 | A A | Dr Jonathan Rhodes is the Independent Reviewer |
| | | in addition to the Koala Management Plants) trequired by NSW approval conditions D8 and D9, to ensure that an unaccoptable impact will not occur to the Etilina Koala population, this approval conditions to the Minister's approval. It allows that we have the commencement of Section 10 The Minister will only approve the plan and the commencement of Section 10 The Minister will only approve the plan and the commencement of Section 10 The Minister will only approve the plan and the commencement of Section 10 The Minister will only approve the plan and the commencement of Section 10 The Minister will only allow the Ballina Koala Plan must minister by Conditions 5 and the results of this modelling, and the perform the exceptable within the Ballina Koala Population. In the control of elevente mentionmental social and economic considerations, any additional avoidance unigation or offsets, beyond those required by the KNW approved conditions, proposed to minimise the impacts to the Ballina Koala population of an extension of the Minimiser to the Minimiser to offsets, beyond of a extension of the Minimiser to the Minimiser to the Minimiser of The approved by the Minimiser. The approved Plan must be implemented. | £ | AT A | The Wave 2 project area is close to the eastern boundary of the Ballina Koale population however this condition does not directly apply tothe Soff soil Wave 2 works | 10,11 | N | ¥ | RMS engaged Niche Environment and Heritage (Dr Rod Kavanagh) to complete the PVA and Ballina Koala Plan. The Ballina Koala Plan was submitted to DGE for approval in February 2016. The Wava 2 poptical test is close to the eastern boundary for the Ballina Koala poptiation, however the conflored deserved directly apply to the soft soil wave 2 works. Koala Management Plan (Update 2) for Sections 24 electriful grills exposed as approved to the soft soil wave 2 works. Koala Management Plan (Update 2) for Educating 100 electrical plan Management Plan (Update 2) for Illusar population). Scroth of DG exporved 29 February 2016. Koala Management Plan (Update 3) for Illusar population. Scroth of DGe approval of the Ballina Koala Plan Pacific Complete will enquirements of the Koala Management Plans. |

| Part | Requirement | Section1 and | Soft soils (Wave 1, 2 & 3) | Conment | Section 3 to | Soft soils (Wave 1, 2, 3 & 4) | Wave 5a, 5b & | Comment |
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| The approval holder must develop a Koala M 109 for east relevant suggets). The Koala Ma and must be submitted to the Marister for app that stage is approved by the Marister The approved Flanks) must be implemented. | The approval holder must develop a Koale Management Plants) pursuant to the requirements of NSW approval conditions D8 and 109 for each relevant stage(s). The Koale Management Plan must minimate impacts to the Koale to the assistaction of the Manaton that data the submitted to the Manaton and must be submitted to the Manaton for approved by the Manaton. The relevant stage(s) raimed commerce until the Koale Management Plan for the approved Plants) must be implemented. | ₹ | ¥ | Only applicable to condition DB | ₹ | ₹ | A A | Koala Management Plan (update 2) for Sectors 3-6 (excluding litera population), Section 11 and Motors Cut. KNP (update 2) was approved by DGA - Reburga 1051 and DGE or 202 February 2016. Knot National Management Plan (update 3) for litera population, Bonadwate (renth of Lung-Hill) and Codigarde (Section 10) will be submitted for approved following recent of DGE approval for the Ballina Koda Plan is approved in Plans with the Repulse of the submitted for approval for Exhausy 2016. Beach Complete with approve Contractor Plans. Exhausy 2016 performed approved in February 2016 performed specifications to ensure compliance with the requirements of the relevant Koala Management Plans. |
| The Koola Management Plan, televant to S submitted to the Manaster for approval after | The Koala Management Plan, (elevant to Section 10, must be consistent with the approved Bailina Koala Plan and can only be submitted to the Manater for approval after the Bailina Koala Plan has been approved by the Manater | ş | <u>\$</u> | | ōt. | ¥2 | NA | Noted Koala Management Plan (update 3) for livia population, Broadwater (north of Lang Hill) and Coolgarde (Section 10) will be submitted for approval following receipt of DoE approval for the Ballina Koala Plan to ensure compliance with this condition of approval |
| Should further offsets be required in according these must be in accordance with the | Should luther offsets be required in accordance with MSW approval condition DR(d) or be proposed as part of the Bailina Krada Plan, these must be in accordance with the EPBC Offsets Policy | ¥ | Ą | [NB: NSW CoA 109(d)* does not exist—incorrect reterence). [Correct reference is D9.]] | 6, 7, 10 | ξ | ΑΝ | Noted To be addresse during detailed design and construction phases of the project. (NB: NSW CaA 'DRIGE' does not exist - incorrect reference). (Correct reference is DB |
| The approval hoder must develop a Threatened Mannal Management Flanks) pur condition (20) ex each stage horself and posted that developed and the parameter Plan must minimize impacts to the Spotted tall Good and Linga-mosed Petitorio to it submitted to the Manaler for approval. The referent stagisty cannot committee this that stage is approved by the Minister. The approved Planks) must be implemented. | The approval holder must develop a Threatened Mammal Management Plants) pursuant to the requiements of MSW approval constitution 10 for each stage impacting in the Sported bill double and the Language Plants of the Sported bill double and Long-and and the Language Plants of the Management of the Almaster over authorities to the Management Department of the Management Plants of the Management Plants of the Management Plants of the Management Plants of the Almaster for approved Plants) must be implemented. | ਰ | ž | Spated Tailed Oudfis relovant to sections 1 and 2 and Ware 3 Long Neard Photoco is not relevant to any component of Staget (relet to Table 4-1). | 6.7.10 | \$ | Sb. 5c | The islowing Threatened Species Management Plans have been prepared and approved. Threatenedd First Navagement Foundation (1.5 cm) (1.5 c |
| The appreval holder must develop a Thri Dist for each stage impacting one PEPBC A EPBC Actilised flow species to the satis cannot commence until the Threatened F must be implemented. | The approval holder must develop a Threatened Flora Management Planks) pursuant to the requirements of MSW approval condition. On the earl stage impacting on EPBC Act fasted flora species. The Theatened Plana Management Plan must instrume impact to GFBC Act fasted flora associate to the association of the Manater and be submitted to the Manater for personal. The retreat stages connect continuous must be implemented by the Manater Theatened Flora Management Plants in space of Dr. Branch Commence of the American Management Plants in the management of the American Commence of the American Management Plants in the Institute of the American Management of the Americ | on Al | ₹ | Refer to Table 4-1 for relevance of particular flora species. | ₹ | ₹ | ¥7 | Theotroned Flora Management Plan Update 1 (Section 1, Section 2, Waves 1, 2 and 3) DPE Approved 30 And 2015, DDE Approval 5 May 2015. Theotroned Flora Managements Plan Update 2 (Sections 3 to 11) DPE Approval 21 August 2015. DDE Approval 4 September 2015 |
| The approval holder must develop a Connect stage impacting on Threatened speedes and Threatened speedes and Threatened speedes and Commencement of the se trevnal stagistic anapproved strategy(ses) must be implemented | The approval holder must develop a Connectivity Strategifies) pussuest to the requirements of NSW approval concludence D2 for tasks stage impacts to an ecological communities. The Connectivity Strategy must meimase impacts to Threathers and ecological communities to the stastistaction of the Minister and most be subsysteated to the Minister to approve a processer and ecological common court until the Connectivity Strategy for that stages is approved by the Minister The approved strategy(res) must be impromedical. | ₹ 5 % | ₹ | A project-wude connectivity strategy will be provided and will be updated as fequired | ₹ | \$ | ĀĀ | To be addressed during obtained design. Each design Portion (i.e. A. B. C. and D which cover Sociones 3 to 11 will be required to prepate a Connectivity Stategy in accordance with the required to prepate a Connectivity Stategy in accordance with the required to the sold compete will review detailed design deliverables to ensure complainments of this case. For a considerable will review of existing the result of the constitution of the same as that for a cut and so whose a currently began undertaken as Videra 5, 25 and 5 is the same as that for a cut and so whose currently began undertaken as Videra 6, 2, 3 and 4. With respect to large a currently began and the reduction works will not be the Binggs and other connectivity design and how the early entained so more civily. The same sold and the species of the state of the same of the design and chart leading or state of the same of the same of the design and bewrite early entained species will be undertaken during main reconstruction as charte to remain and the demonstration as the connectivity state and the fundional special cut of more than an experience of the same of global podes and Design Consecutively as activities as such as connectively as and the same and the fundional species for Portions A. B. C. and Design Consecutively state and the same species of the professor. The connectivity state and a such as provided price to the physical commensement of the permanent favor acronectivity structures as part of the Stage 2 works, unless otherwise agreed by IDREDOE. |

| Category | Part | Requirement | Section1 and 2 | Soft soils (Wave 1, 2 & | Comment | Section 3 to 11 | Soft soils Wave 5a, 5b & 60 Al | Wave 5a, 5b & 5c | Comment |
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| ALL ESSE | 4 | In order to minimise impacts to threatened species and communities, and migratory species, the approval holder must develop and implement all Frameworks. Strateges. Plans or Programs, in accordance with the requirements of the following NSW approval condition DI and the requirements of NSW approval and an order of the Missagner Plans of NSW approval condition DI and the requirements of NSW approval condition DI and DI The Connectivity Strategy required by NSW approval condition DI and DI The Consciuction Finds and Valear Quality Management Flant required by NSW approval condition DI (F) The Burrow Site Management Plant equal to by NSW approval condition DI (F) The Management Flant equal to by NSW approval condition DI (F) The Andilay Facilities Management Flant equal by NSW approval condition DI (F) The Andilay Facilities Management Flant equal by NSW approval condition DI (F) (F) The Andilay Facilities Management Flant equal by NSW approval condition DI (F) (F) The Andilay Facilities Management Flant equal by NSW approval condition DI (F) | व | ই | | ₹ | ₹ | ₹ | A NSW CoA D1 - Mingation Finanework approved by DFE on 8 May 2015. B) NSW CoAs D2 - Mingation Finanework approved by DFE on 8 May 2015. B) NSW CoAs D1 - Mingation Finanework and the control of the CoAs - Datable Sedimental Sections 3 to 17 Mill be required to propare a Commercin's National yar accordance with the conquirements of the CoAs - Datable Complete Mill review detailed design of Meivenbleis to nexus economics with CoAs requirements. C) of the required Threatened Species Management Plans in the following are in the process of gaining approved. Billing Notes Management Plans Into Ediment as an interprocess of gaining approved. Billing Notes Management Plans Into Ediment and Plans and Management Plans and Plans and Plans and Management Plans and Approved the Plans and Approved the Plans and Management Plans and Approved the Plans and Approv |
| | 15 | The approval holder must prepare and implement a Bodiversity Offset Sitategy and Blodiversity Offset Package that compensates for any rectual suprificant impacts on threatened species and communities. The Blodiversity Offset Strategy and Blodiversity Offset Package must meet the requirements of the EPBC Offsets Policy and must be submitted to the Minister for approval. | IF | ¥ | | ΪŻ | ΑΙΙ | ¥ | Bodiversity Offset Strategy approved by DPE 6 January 2016 and D0E 7 January 2016. A Blodiversity Offset Package will be prepared (Phogram currently being prepared). |
| | 16 | The Blodwersky Offset Strategy and Blodwersky Offset Package must be prepared in accordance with the requirements NSW approval conditions 03, D4 and D5. | All | Alí | A project wide Biodiversity Offset Package will be prepared and updated as required | Ā | Æ | All | Brodiversity Offset Strategy approval by DPE 6 January 2016 and DOE 7 January 2016. A Brodiversity Offset Package will be prepaited (Program currently being propared). |
| | 11 | | ī | ī₹ | A project wide Biodiversity Offset Package will be prepared and updated as required. Note reference (presumably in error) to "strategy" here. | Ν | īv | A | Biodiversity Officet Strategy approval by DPE 6 January 2016 and DoE 7 January 2016. A Biodiversity Officet Package will be prepared (Program currently being prepared). Note - Mote that this STBORR excludes Section and 10. An updated Threatened Brothwesity Officet Status Report submitted for approval in mid. June 2016 (Which addresses the Koala Population Coolganies & Broadwater as well as Littoral Rainforest. |
| | 18 | | IIA | Ī | A project wide Biodiversity Offset Package will be prepared and updated as required. | N | N | All | A Biodiversity Offset Package will be prepared noting is is required to be submitted within 24 monits of 7 January 2016. |
| REPORTING | 19 | O AUDITIVE Any survey data collected for the project must be collected and recorded so as to conform to a reasonable standard such that it can Any survey data collected for the standards nothed from time by the Department. When requised by the Department, When requised by the Department, the proponent must provide to the Department all species and ecological survey data and related survey information from ecological surveys. Undertaken for matters of habonal environmental significance. This survey data must be provided within 30 business days of request, or in a timeframe agreed to by the Department in writing. The Department may use the survey data for other purposes. | ₹ | ₹ | | AII | Æ | All | Noted |
| | 20 | Within 14 days after the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement | ĪV. | All | | All | IV | All | Proponent submitted its Staging Report (for Stage 1 - Section 1 , Section 2 and Soils Waves 1 and 2) on 24 March 2015 Which included incleaive start dates for works. Proponent submitted an updated Staging Report for Stage 2 to the Department on 5 April 2016. |
| | 72 | Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any Frameworks. Strategies Parisin, or Package as specified in the conditions. Documentary evidence poloning proof of the date of buildistron 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. The approval holder must confinue to publish the report until such time as agreed in writing by the Minister. | ₹ | Τď | A project widereport will beprepared andupdated as | ₹ | ₹ | A | Notical The stage 2 start date is 1 April 2016. |
| SKARIONS | 22 | Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister. | AI | īγ | | ₹ | ষ | All | Moled |
| | 23 | If the approval holds wishes to carry out any activity otherwise than in accordance with Frameworks, Strategies, Plans, Report or Package required by Conditions 7, 8, 10, 11, 12, 14, 15, 16 and 17, the approval holder must submit to the Department for the Minister's written approval a revised-version of those Frameworks, Strategies, Plans, Report or Package The varied activity shall not commerce und the Minister's written approve a revised by an operanent number will not approve a revised plan of agreement, unless the revised plan or agreement would treat in an equivalent or impowed environmental outcome. If the Minister approves the revised plan or agreement that plan or agreement must be implemented in place of the plan or agreement originally approved. | Ĭ₹ | ই | | Ī | NA. | N. | Nded |

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| | Comment | Voted | voted. Action has been substantially commenced | | Voreid | Nated |
| | ve 5a, 5b & 5c | All | All | | AI | N. N |
| | Soft soils (Wave 1, 2, 3 & Wave 5a, 5b & 4) | ٧ | IA | No. | ₹ | IF |
| | Section 3 to (W. | ν | All | | ₹ | Ī |
| | dis Comment | | | | | |
| | Soft soils (Wave 1, 2 & 3) | R | All | | All | \$ |
| | Section1 and | IR | 7 | | Ιά | A. |
| | Requirement | If the Minister believes that it is necessary or convenient for the better protection of listed threatened species or communities to do so, the Minister may request that the approvab holder submit for the Minister approval. Or make revisions to any Farmaworks. Strategies, Plans, Package, or Strategies, or Doggan specified in the conditions and submit the revised Frameworks. Strategies, Plans, Package, or Program for the Minister's withen approval. The approval holder must comply with any such request. The approved circuits or program for the minister promoted revised approved Frameworks. Strategies, Plans, Package, or Program must be implemented. Unless the Minister has approved the revised management plans, then the approved it plans originally approved. as specified in the conditions. | It, at any time after 5 years from the date of this approval, the approval holder has not substantially commenced the action, then the approval holder must not substantially commence the action without his written agreement of the Minister. | SIVATA | The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the Frameworks. Stategoes, Plans, or Package required by this approval, and make them available upon request to the Department of 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. | Unless otherwise agreed to in witing by the Minster, the approval holder must publish all Frameworks, Strateges, Plans, or Plackage inferred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved. |
| 4 | y Part | 24 | 25 | PUBLICATION OF PLANS | 26 | 27 6 |
| | Category | | | PUBLICA | | |

