

INLAND RAIL ILLABO TO STOCKINBINGAL PROJECT

Staging Report







Document Control

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1 Revisions and Distribution

1.1 Revisions

Draft issues of this document are identified as Revision A, B, C etc. Following acceptance by the document approver, the first finalised revision will be Revision 0. Subsequent revisions will have an increase of "1" in the revision number (1, 2, 3 etc.).

Revision History

REVISION	DATE ISSUED	DESCRIPTION
Α	18/08/2025	Issued for Review
В	25/08/2025	ER / IRPL commented version update
С	27/08/2025	Additional ER / IRPL commented version update
D	28/08/2025	Additional ER / IRPL commented version update
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1.2 Distribution

The controlled master version of this document is available for distribution as appropriate and maintained on the document management system being used on the project. All circulated hard copies of this document are deemed to be uncontrolled.

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1.3 Terms and Abbreviations

Term/Abbreviation	Definition
AEC	Areas of Environmental Concern
ARTC	Australian Rail Track Corporation
AMS	Activity Method Statement
Ancillary Facility	A temporary facility for construction of the CSSI including office and amenities compound, construction compound, material crushing and screening plant, batching plant, materials storage compound, maintenance workshop, testing laboratory, car parking facilities, a site used for assembly of infrastructure and a fixed material stockpile area.
A2P	Albury to Parkes
CCS	Community Communication Strategy
CH	Chainage
CoA	The Minister's Conditions of Approval for the CSSI
Construction	Includes work required to construct the CSSI as defined in the documents listed in Condition A1, including commissioning trials of equipment and temporary use of any part of the CSSI, but excluding low impact work which is carried out or completed prior to approval of the CEMP
CPESC	Certified Professional in Erosion and Sediment Control
CSSI	Critical State Significant Infrastructure, as generally described in Schedule 1 (of the Conditions of Approval), the carrying out of which is approved under the terms of the Conditions of Approval.
DPHI	Department of Planning, Housing and Infrastructure
EIS	The Environmental Impact Statement referred to in Condition A1 submitted to the Planning Secretary seeking approval to carry out the CSSI described in it, as revised if required by the Planning Secretary under the EP&A Act, and including any additional information provided by the Proponent in support of the application for approval of the CSSI
Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings.
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	NSW Environment Protection Authority
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)
EPL	Environment Protection Licence under the Protection of the Environment Operations Act 1997 (NSW)
ER	Environmental Representative for the CSSI as approved by the Planning Secretary
ERSED	Erosion and sediment
ESCPs	Erosion and Sediment Control Plans
EWMS	Environmental Work Method Statement
EWP	Elevated Work Platform
FMP	Farm Management Plans
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
IRPL	Inland Rail Pty Ltd
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Term/Abbreviation	Definition
JHG	John Holland Group
km	kilometres
LAA	Land Access Agreement
LGA	Local Government Area
LLS	Local Land Services
LV	Light Vehicle
Material Harm	is harm that:
	 (a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or
	(b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).
NBN	National Broadband Network
NML	Noise Management Level
Non-compliance	An occurrence, set of circumstances or development that is a breach of this approval.
NSW	New South Wales
NV	Native Vegetation
OOHW	Out-of-Hours Work
OOHWP	Out-of-Hours Work Protocol
Planning Secretary	Planning Secretary of the Department (or nominee, whether nominated before or after the date on which this approval was granted).
POEO Act	Protection of the Environment Operations Act 1997 (NSW)
RMMs	Revised Mitigation Measures
ROL	Road Occupancy Licence
SEP	Site Environmental Plan
SES	NSW State Emergency Services
TEC	Threatened Ecological Community
TfNSW	Transport for NSW
The 'Blue Book'	Managing Urban Stormwater – Guidelines published by Landcom, 2004 and used for industry best practice erosion and sediment control planning and management
TRA	Task Risk Assessment
Work	Any physical work for the purpose of the CSSI including construction and low impact work but not including operational maintenance work
WRA	Workplace Risk Assessment

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2 Introduction

2.1 Planning Overview

Inland Rail is an approximate 1,600 kilometres (km) freight rail network that will connect Melbourne and Brisbane via regional Victoria, New South Wales (NSW) and Queensland. Comprising twelve sections, a staged approach is being undertaken to deliver Inland Rail.

The Australian Rail Track Corporation (ARTC), with Inland Rail Pty Ltd (IRPL) as its subsidiary for the Inland Rail project, received infrastructure approval for the Illabo to Stockinbingal (I2S) section of Inland Rail in September 2024. The approval for I2S (the Project) was granted by the Minister for Planning and Public Spaces under section 5.19 of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act).

The Project is located in south-western NSW in the Riverina region. Illabo is a small town of approximately 132 people (Australian Bureau of Statistics, 2021) located at the southern end of the alignment, 16 km north-east of Junee in the Junee Local Government Area (LGA). Stockinbingal is a town of approximately 347 people (Australian Bureau of Statistics, 2021) is situated at the northern end of the Project, approximately 20 km north-west of Cootamundra in the Cootamundra—Gundagai Regional LGA. The major towns surrounding the project are Wagga Wagga, about 50 km to the south, Young to the northeast and Cootamundra to the east.

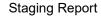
The Project comprises a new rail corridor that would connect Illabo to Stockinbingal. The alignment branches out from the existing rail line north-east of Illabo and travels north to join the Stockinbingal—Parkes Line west of Stockinbingal. The route will travel primarily through undeveloped land predominantly used for agriculture. The project includes modifications to the tie-in points at Illabo and Stockinbingal to allow for trains to safely enter and exit the Illabo to Stockinbingal section of Inland Rail. The alignment also crosses several local and private roads, watercourses and privately owned properties. Additionally, no major towns are located within the project site between Illabo and Stockinbingal.

The Project will include a total extent of approximately 42.5 km, including 39 km of new, greenfield railway which will incorporate the following key features:

- Connection to other rail lines, including Stockinbingal to Parkes line, Lake Cargelligo line, and Main Southern Railway
- One crossing loop and maintenance siding.
- · Level crossings and stock crossings.
- Bridges over rivers and other watercourses, floodplains, and roads
- Upgrades of around 3.5km of existing track for the tie-in works to the existing Main South Line at Illabo
- New track to maintain Lake Cargelligo line connection either side of the Project.
- Realignment and road-over rail bridge for a section of the Burley Griffin Way at Stockinbingal
- Realignment of Ironbong Road to allow for safe sight lines at the new active level crossing
- Ancillary infrastructure to support the Project, inclusive of signalling and communications, drainage, drainage control areas, signage and fencing, and services and utilities.
- Construction infrastructure, including ancillary facilities, and a temporary workforce accommodation facility.

The Project will also include upgrades to approximately 3 km of existing track associated with tie-in works and construction of an additional 1.7 km of new track to maintain the existing rail network connections. Road upgrade works will also be undertaken to re-align approximately 1.4 km of Burley Griffin Way to

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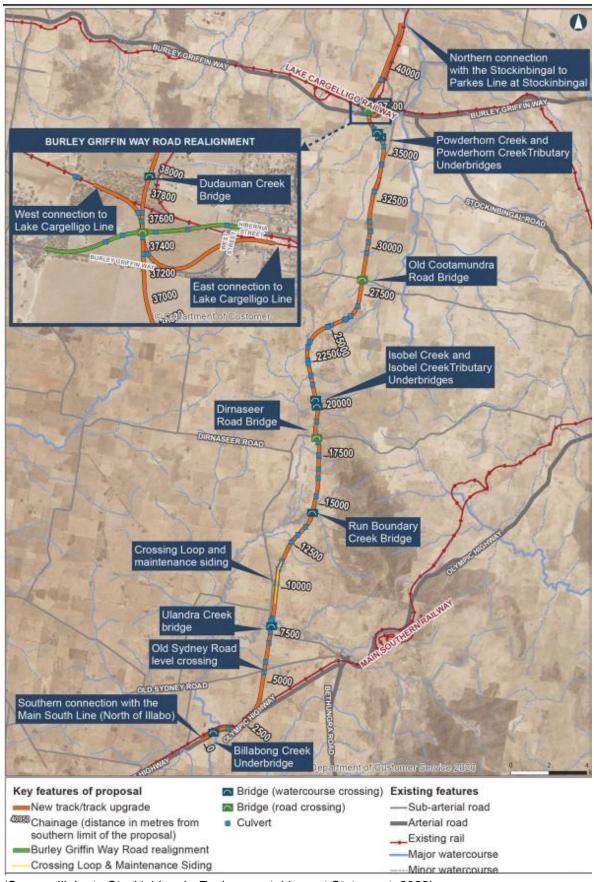


provide a road-over-rail bridge at Stockinbingal. Re-alignment of Ironbong Road will also be completed to allow for safe sight lines. A temporary workforce accommodation camp will also be constructed to house the workforce for the duration of works. Project features are shown on Figure 2-1.

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(Source: Illabo to Stockinbingal - Environmental Impact Statement, 2022)

Figure 2-1 Key Project Features

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2.2 Planning Context

The Minister declared the project Critical State Significant Infrastructure (CSSI) under Division 5.2 of the Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act). The project is subject to assessment and approval by the NSW Minister for Planning. An environmental impact statement (EIS) was prepared to support ARTC's application for approval of the project in accordance with the requirements of the EP&A Act and the environmental assessment requirements (the SEARs) of the Secretary of the (then) NSW Department of Planning, Industry and Environment (now the Department of Planning, Housing and Infrastructure (DPHI)). The EIS was placed on public exhibition from 14 September 2022 to 26 October 2022. During the exhibition period, interested stakeholders and members of the community were able to review the EIS online, participate in consultation and engagement activities held by ARTC, and make a written submission to the DPHI for consideration in its assessment of the project. The project was assessed as part of the EIS and the Response to Submissions Report (EIS RtS). Together these documents are referred to as the Environmental Approvals Documentation (EAD). Approval for project under the EP&A Act was granted by the Minister for Planning on 4 September 2024.

2.3 Purpose of this Staging Report

The purpose of this Staging Report is to provide an outline of the proposed staging of works for the project. It guides the reader through each stage of the project to understand how and when the mitigation measures will be addressed throughout construction of the project.

This Staging Report has been prepared to allow Inland Rail to construct the project in stages. It:

- Describes the construction stages, including details of works and activities to be carried out in each stage and general timing.
- Identifies how the mitigation measures will be complied with across and between each of the stages of the project.
- Identifies how cumulative impacts arising from the proposed staging will be managed.

This Staging Report has been prepared to satisfy the requirements of the Minister's Condition of Approval (CoA) A11 to A16 where construction of the project is staged. The CoAs require the Staging Report to describe construction and operational staging, however pre-construction works have been included in this Staging Report for clarity and completeness.

Operational Staging is not proposed for the project. The detailed design phase of the project is generally carried out prior to construction commencing with some design work continuing during construction. As CoAs A11 to A16 do not require discussion of detailed design in the Staging Report, this phase has not been considered further in this report.

Staging Report requirements, and where they are addressed in this report, are listed in Table 2-1.

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Table 2-1 Staging Report CSSI 9406 CoA

CoA No.	Condition Requirements	How Addressed
A11	The CSSI may be constructed and operated in stages (including but not limited to temporal, location or activity-based staging). Where staged construction or operation is proposed, a Staging Report (for either or both construction and operation as the case requires) must be prepared and submitted to the Planning Secretary for approval. The Staging Report must be submitted to the Planning Secretary no later than one (1) month prior to the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one (1) month prior to the commencement of operation of the first of the proposed stages of operation).	This Report Section 2.5
A12	(a) if staged construction is proposed, set out how the construction of the whole of the CSSI will be staged, including details of work and other activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish;	Section 3
	(b) if staged operation is proposed, set out how the operation of the whole of the CSSI will be staged, including general details of work and other activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant);	N/A
	(c) specify how compliance conditions will be achieved across and between each of the stages of the CSSI; and	Section 5
	(d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.	Section 3.5
A13	Where staging is proposed, the CSSI must be staged in accordance with the Staging Report, as approved by the Planning Secretary.	This Report
A14	Where staging is proposed, the terms of this approval that apply or are relevant to the work or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Noted
A15	Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared and submitted to the Planning Secretary for approval no later than one (1) month prior to the proposed change in the staging	Section 2.6
A16	Should a Construction Environmental Management Framework (CEMF) be submitted for approval under Condition C1, the Staging Report must be submitted with the CEMF, i.e. no later than one month before the lodgement of any CEMP, CEMP sub plan or CMP to the Planning Secretary for approval.	Risk Assessment process and outcomes is provided in Section4.
		CEMF information relevant to this report is also provided in Section 2.7.





CoA No.	Condition Requirements	How Addressed
C1	A Construction Environmental Management Framework (CEMF) may be prepared to facilitate the preparation and approval of construction environmental management and monitoring plans required under Part C of this approval. The CEMF must: (a) identify the CEMPs, CEMP sub plans and/or CMPs required for each stage of construction consistent with the Staging Report prepared under Condition A11;	This Plan Section 5
	(b) document the proposed structure of the CEMPs, CEMP Sub-plans and CMPs for the relevant stage of construction;	Section 5.2
	(c) provide, by way of a Risk Matrix, an assessment of the predicted level of environmental and social risk, including the potential level of community concerns posed by component aspects of each construction stage. This must use a process consistent with AS/NZS ISO 31000: 2018; Risk Management – Guidelines; and	Appendix A
	(d) nominate the consultation and endorsement level for each CEMP, CEMP Sub-plan and CMP required for each construction stage. The endorsement level being one of the following: (i) Low Risk Stage – self endorsed and consultation with state agency and council stakeholders is not mandatory.	Section 5.2 Appendix A
	(ii) Medium Risk Stage – endorsed by the ER and consultation with state agency and council stakeholders required; and	
	(iii) High Risk Stage– endorsed by the Planning Secretary and consultation with state agency and council stakeholders required.	
	(e) For a Low-Risk Stage(s) the requirements of Part C of this approval do not apply. In these circumstances, a CEMP, CEMP sub-pan and CMP, may be substituted with an alternate process such as a Construction Work Method Statement (CWMS) or equivalent.	Noted An Environmental Work Method Statement (EWMS) for Stage 1 activities is to be prepared separately to this document
	(f) The CEMF must be endorsed by the ER and then submitted no later than one month before the lodgement of any CEMP, CEMP sub plan or CMP to the Planning Secretary for approval.	This Report
	Notes:	
	 The Planning Secretary may vary the CEMF in relation to the endorsement authority for the CEMPs, CEMP Sub-plans and CMPs. The intent is for staging and not activities within a stage. 	
C2	The approved CEMF must be implemented for the duration of construction.	Noted





CoA No.	Condition Requirements	How Addressed
C3	Where changes are proposed to the staging of construction and these affect an approved CEMF, a revised CEMF must be prepared, endorsed by the ER and submitted to the Planning Secretary for approval no later than one month prior to the proposed change in the staging.	Noted





2.4 Staging Rationale

The rationale for staging the project is based on the following key considerations:

- Ensuring the project utilises available rail possessions, specifically the major scheduled possession in September 2025. This will result in a de-risked overall construction program by allowing necessary contingency for wet weather events or other aspects beyond the project's control that may impact on future rail possessions and provide a separate interface between I2S construction activities at Illabo and the ongoing operation of the Main Southern railway line that will not impede on these operations until connection of the I2S line in 2027;
- Ensuring pre-construction activities are carried out ahead of main construction activities where
 possible, minimising disruption on community and freight rail operations whilst de-risking the
 overall construction program.

2.5 Staging Report Submission Requirements

In accordance with CoA A11, the Staging Report must be endorsed by the Environmental Representative (ER) and then submitted to the Planning Secretary (for information) no later than one (1) month before the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one (1) month before the commencement of operation of the first of the proposed stages of operation).

The project will be staged in accordance with this report and will be submitted for information to the Planning Secretary in accordance with CoA A11.

2.6 Revision of this Staging Report

In accordance with CoA A15, where changes are proposed to the staging of construction, a revised Staging Report must be prepared and endorsed by the ER before submission to the Planning Secretary for information no later than one (1) month before the proposed change in the staging.

The project will be staged in accordance with this report, including any revisions, and will be submitted for information to the Planning Secretary in accordance with CoA A11.

2.7 Construction Environmental Management Framework

Elements of the CEMF CoAs have been utilised to determine the potential construction environmental management plans required for the two stages of construction.

In accordance with condition C1, JHG has developed this Staging Report to include CEMF requirements. A risk assessment was carried out (refer to Appendix A) and this determined all environmental aspects for Stage 1 to be of low risk and thus able to be managed under an EWMS as per C1.

Further detail on the Risk Assessment completed to satisfy CEMF condition C1(c) is provided in Section 4 and completed risk matrix (with details on relevant environmental controls) is provided in Appendix A. Further information of the risk ranking and subsequent level of environmental management documentation required, per stage of construction is provided in Section 5.2.

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3 Project Staging

A summary of the proposed work activities of each stage of the project is provided below.

3.1 Pre Construction

There are a number of activities that can be carried out prior to construction. These activities include low impact works (including site establishment). The CoA do not require that these activities be described in the Staging Report.

Where low impact work has already commenced, this is considered to remain as low impact work and is managed in accordance with the framework under which it commenced. Furthermore, following the completion of Stage 1 activities listed below, until such time as CEMP approval has been received for construction commencement for Stage 2, the project will continue to complete Low Impact Works activities until Construction commencement for Stage 2 is received.

3.2 Stage 1 – September 2025 Rail Possession

Construction activities for Stage 1 will comprise a limited scope of works to be completed during a rail possession for the period 9 to 19 September 2025, as per details provided in **Table 3-1**. These works include:

- preparation activities for the rail possession (9 to 12 September 2025),
- the rail possession activities themselves (13 to 15 September 2025), and
- post-possession activities (15 to 19 September 2025).

Table 3-1 provides the list of activities will be undertaken as part of the Stage 1 of the I2S project "the Project" (CSSI 9406). Table 3-1 details a description of the work activity, its location and proposed access along with other relevant information.

Table 3-1 Details of the proposed works

Details of Pro	pposed Works	
Purpose of the proposed works	The purpose of the proposed works for Stage 1 is to conduct reconditioning and ballast raising on the existing Main South Line (MSL) and CSR works which will support the delivery of the Project and to ensure uninterrupted operations of the MSL throughout the construction period. The work will be carried out during a pre-planned railway possession, minimising the need for additional future possessions and reducing the overall impact on the community. Further detail is provided below.	
Description of the proposed works	A description and breakdown of the key activities and construction methodology is provided as follows. Pre Possession Activities	
	9th of September to 12th of September (Monday to Friday) – Standard Day Shift Hours Possession Plant Mobilisation Floating in approx. thirty items of plant – Excavators, dump trucks, loaders etc 2x 8T HR Excavator 1x 50T Excavator 2x 35T Excavator 4x FELS (L120s) 3x Dozers (D8) 2x Drotts 2x Positracks 4x HR Dumper 4x 30T Dumper 2x Watercart 3x 16T Smooth Rollers 1x 16T Padfoot 20x Lighting Towers Page 24 Attivities - Including exercises treaders 42th of September to 45th September 25th Sept	
ı	<u>Possession Activities</u> – Including overnight works, 12 th of September to 15 th September.	

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Details of Proposed Works

- Site mobilisation and setup Once JHG has possession of the railway line, appropriate
 railway safety measures will be implemented including signage, demarcation of the possession
 work area, detonators etc. Pre-starts will be undertaken and plant, equipment will be mobile to
 site. Dilapidation surveys of the existing track and associated infrastructure will also be
 undertaken.
- Service locating Existing services within the work areas will be located using a sucker/vacuum truck or other appropriate means.
- 3. Track reconditioning work Track reconditioning works between chainage 0 and 760 (or MSL chainage of 465.260km to 464.500km, the design maximum lift is 240mm at 464.840km at UP MAIN) is required which will consist of the following.
 - Cut and remove the rail and then removal of the concrete sleepers.
 - Excavate approximately 1.2m from top of rail (TOF), transport and stockpile ballast, and fill material.
 - Once desired subgrade level is reached & proof rolled (around -1.2m from TOR) is reached, placement and compaction of 250mm of structural fill and 200mm capping.
 - Placement and compaction of bottom ballast.
 - Reinstatement of the existing concrete sleepers and rail and followed by free welding.
 - Placement of the top ballast place top ballast the shoulder level with the top of sleeper, shoulder width shall be 300mm, followed by tamping and regulating and de-stressing.
 - Track certifications and handback of work area following completion of the possession.
- 4. Combined Services Route (CSR) several underline crossings (ULX), under road crossings (URX) and longitudinal trenches will be constructed at the following chainages. It is anticipated that there will be one work crew who will progressively undertake the following works.
 - ULX at chainage 464.260km
 - ULX at chainage 464.840km
 - ULX at chainage 466.159km
 - URX at chainage 466.159km
 - ULX at chainage 468.140km
 - CSR longitudinal trench between chainage 467.600km to 468.140km
- **5. Track signalling works –** Miscellaneous track signalling maintenance works will also be undertaken at both the track reconditioning and ULX work locations.
- 6. **Use of the Ancillary Facility (AF)** The AF adjacent to the track reconditioning work area between chainage 0 and 760 (or MSL chainage of 465.260km to 464.500km) shown in Figure 3-1 and Figure 3-5 will be utilised throughout the possession. It's noted that approval for the establishment and use of this AF is subject to a separate AF application and endorsement process (further details in Section 3.2.1).
- 7. Any other minor miscellaneous activities associated with the possession works.

HV movements during the possession will be primarily inside the proposed construction zones, HV's will utilise and distribute the materials delivered during prepossession activities from stockpile and spoil locations to the work front with the existing rail corridor.

- Saturday: (HV movements where the track recon works are taking place)
 - 2x 8T HR Excavator
 - 1x 50T Excavator
 - 2x 35T Excavator
 - 4x FELS (L120s)
 - 3x Dozers (D8)
 - 2x Drotts
 - 2x Positracks
 - 4x HR Dumper
 - 4x 30T Dumper
 - 2x Watercart
- Sunday: (HV movements where the track recon works are)
 - 2x 8T HR Excavator
 - 1x 50T Excavator
 - 2x 35T Excavator
 - 2x FELS (L120s)
 - 3x Dozers (D8)

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Details of Proposed Works

- 2x Drotts
- 4x HR Dumper
- 4x 30T Dumper

3x Rollers

- 2x Watercart
- 1x Padfoot
- Monday: (HV movements where the track recon works are)
 - 2x 8T HR Excavator
 - 2x FFI s
 - 1x Watercart

After Possession Activities

- 15th September to 19th September (Monday to Friday) Standard Day Shift Hours
 - Possession Plant Demob
 - Demob. Thirty items of plant Excavators, dump trucks, loaders etc
 - 2x 8T HR Excavator
 - 1x 50T Excavator
 - 2x 35T Excavator
 - 4x FELS (L120s)
 - 3x Dozers (D8)
 - 2x Drotts
 - 2x Positracks
 - 4x HR Dumper
 - 4x 30T Dumper
 - 2x Watercart
 - 3x 16T Smooth Rollers
 - 1x 16T Padfoot
 - 20x Lighting Towers

Continuation of CSR longitudinal trench between chainage 467.600km to 468.140km

Location

The location of the works is within the existing ARTC railway corridor between chainage 464.260km to 468.140km. Refer to Figure 3-1 to Figure 3-5 for further details.

The following summarises the relevant environmental constraints associated with the proposed works. Refer to Section 5.2 for further details.

- All works, including access points and travel routes, are located within the approved Construction Impact Zone (CIZ).
- Works are not located in areas mapped as Native Vegetation (NV) and Threatened Ecological Community (TEC). An existing access track which will be used for site access is located within area mapped as NV, due to the access track being located under the tree canopy.
- Works are not located within or adjacent to any waterways. The nearest waterway is Billabong Creek which is approximately 40m away from the work location. Works may encroach within 40 m of highest bank of the creek and will be managed to not impact upon the creek via EWMS for soil and water.
- Works are located within Indigenous Survey Zones (ISV), an existing access track which will be used for site access is located within Zone 1 (Low Density Scatter) (AHIMS # 50-05-0280); however appropriate clearances have been obtained prior to works commencing. The access track is also immediately adjacent to two artefact sites described as ARTC-2 (AHIMS # 50-05-0266) and one artefact site described as ARTC-1 (AHIMS # 50-5-0266).
- There are no registered non-indigenous heritage items within or in the vicinity of the works.
 The Billabong Creek Rail Underbridge, which has potential heritage significance is located approximately 30m from the work area.
- The nearest noise or otherwise potentially impacted sensitive receiver to the track reconditioning work is located approximately 400m from the works. There are no other residents within 500m of the work area. The nearest receiver to the CSR works is approximately 50m away.
- The closest proposed works by adjoining CSSI project during the Stage 1 rail possession will commence at chainage 468.500 over 360m from the Stage 1 works, there are no anticipated cumulative impacts

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Details of Proposed Works		
Proposed dates of works:	Prepossession activities will commence 9 September 2025 until 12 September 2025. Possession Works will occur during the Week 11 possession between Saturday 13 September 2025 and Monday 15 September 2025. After possession demobilisation activities will commence 16 September and be completed by 19 September 2025	
Work Hours	The approved working hours are: • Monday to Friday: 7am to 6pm • Saturday: 7am to 6pm • Sunday and public holidays: no work	
	Works included in this assessment will be undertaken during AND outside standard construction hours as specified under CoA E1.	
	Stage 1:	
	Prepossession activities will be undertaken during standard construction hours as specified in CoA E1.	
	Possession works will be undertaken during a line-wide possession to minimise the need for additional project-specific possessions in the future, which will reduce the overall impact to sensitive receivers and railway operations. Works will be undertaken in accordance with CoA E3(C)(i), between 00:01 Saturday 13 September 2025 and 23:59 Monday 15 September 2025.	
	An OOHW Permit will be prepared for the proposed works and relevant approvals, including IR hold points, will be obtained prior to the OOHW activities. The OOHW will consist of noise verification monitoring.	
	Post possession works will be undertaken during standard construction hours as specified in CoA E1.	
Figure 2.1 to F	Community notifications and agreements shall be established where required to minimise impact on adjacent residents and stakeholders.	

Figure 3-1 to Figure 3-5 details the location of the works. A Site Environmental Management Plan will be prepared separately to this document that shows the works in relation to all environmental constraints.





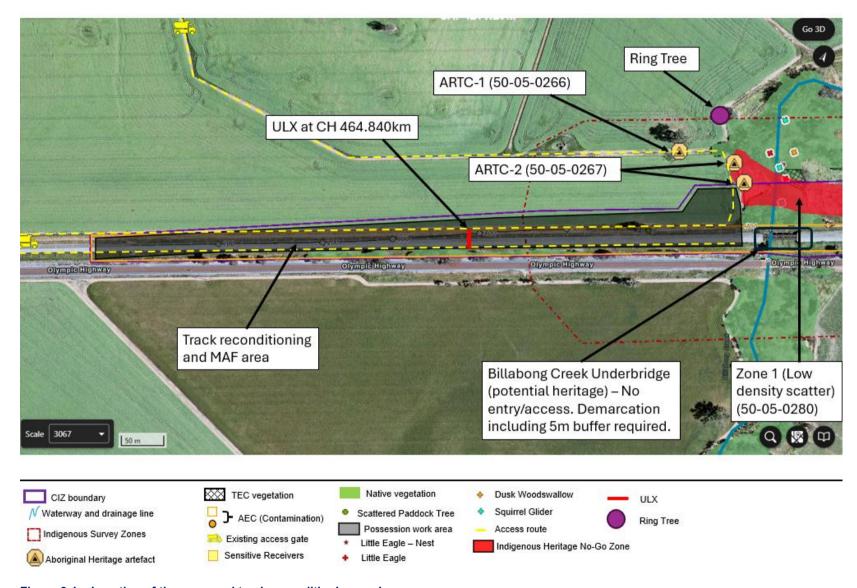


Figure 3-1 – Location of the proposed track reconditioning works.

Issue Date: 29/8/2025 IRPL Document Number: 5-0019-220-PMA-00-PL-0065

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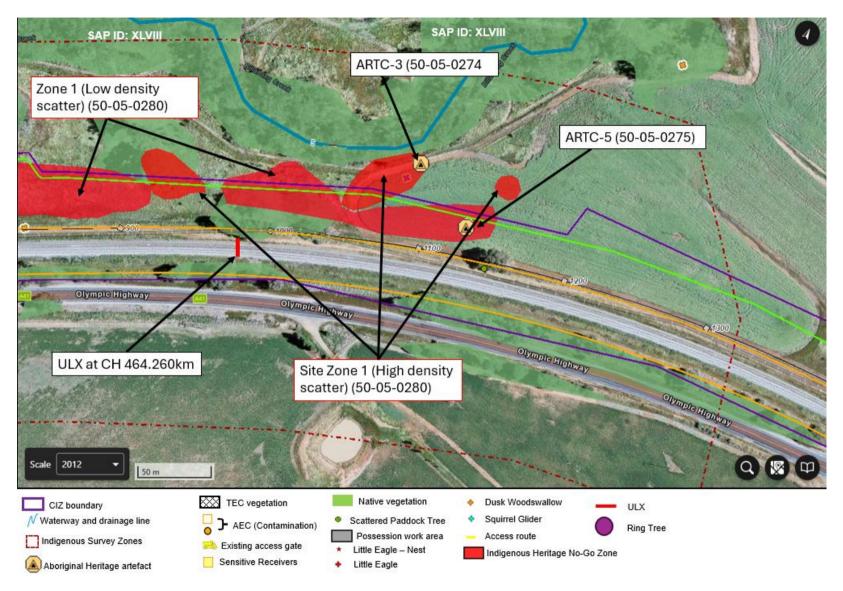


Figure 3-2 – Location of the proposed CSR works at chainage 464.260km

Issue Date: 29/8/2025 IRPL Document Number: 5-0019-220-PMA-00-PL-0065

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J<u>o</u>hn Holland Staging Report ULX and URX at CH 466.159km Jeralgambeth Creek Q 😰 🖽 TEC vegetation Native vegetation Dusk Woodswallow CIZ boundary ULX Waterway and drainage line Squirrel Glider Scattered Paddock Tree - AEC (Contamination) Diamond Firetail Possession work area Access route Indigenous Survey Zones Existing access gate Little Eagle - Nest Indigenous Heritage No-Go Zone Sensitive Receivers Aboriginal Heritage artefact Little Eagle

Figure 3-3 – Location of the proposed CSR works at chainage 466.159km

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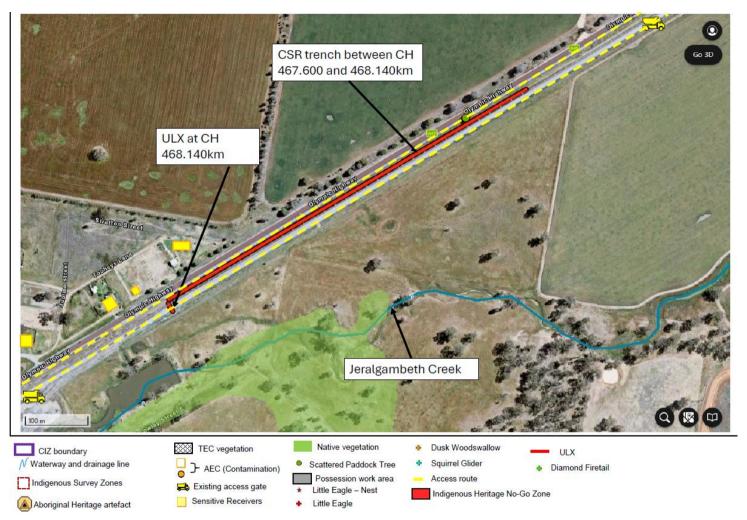


Figure 3-4 – Location of the proposed CSR works between chainage 467.600km and 468.140km

Issue Date: 29/8/2025

IRPL Document Number: 5-0019-220-PMA-00-PL-0065







3.2.1 Minor Ancillary Facility

In addition to the above works, a minor ancillary facility will be utilised for the rail possession. The minor ancillary facility will be constructed and operated during the rail possession, in accordance with a separate endorsement from the ER as required under CoA C9. Details of the proposed minor ancillary facility are shown on Figure 3-5.



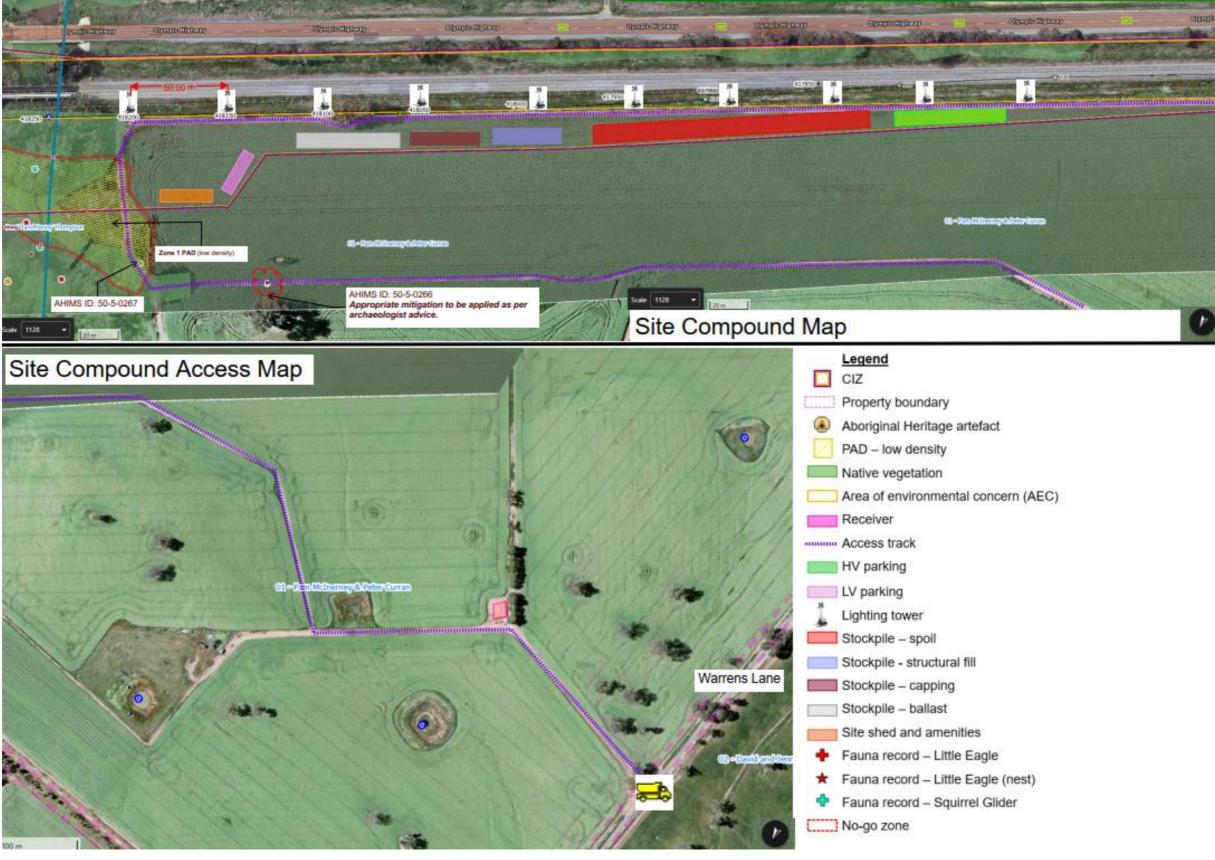


Figure 3-5 – Ancillary Facility

3.3 Stage 2 – All Other Construction Works

All remaining construction activities as defined by the Environmental Assessment Documentation and conditions of approval.

John Holland have submitted an application under A9 to request alternative timing for the submission of the following plans:

- Connectivity Strategy required under E44. The E44 Connectivity Strategy is scheduled for completion prior to the end of 2025 and details of proposed mitigation and actions to be taken will be provided to DPHI in separate correspondence per Condition A9.
- Aboriginal Cultural Values Plan required under E133. The E133 Aboriginal Cultural Values
 Plan is scheduled for completion prior to the end of 2025 and details of proposed mitigation
 and actions to be taken will be provided to DPHI in separate correspondence per Condition
 A9.
- The Box Gum Restoration Plan (E35) and evidence of avoidance on threatened entities (E24 & E33(d)). This information is not proposed to be completed by Inland Rail until after commencement of construction.

3.4 Indicative Timing

Stage 1 works will commence 9 September 2025 and be completed by 19 September 2025.

Stage 2 works will commence upon approval of required CEMP documentation and is anticipated by late September 2025. If there is a delay in CEMP approval following Stage 1 works, Stage 2 will not commence until all relevant CEMP documentation has been approved, and only Low Impact Works will be undertaken in that time between Stage 1 and Stage 2. Stage 2 construction activities will take place over approximately 18 months.

3.5 Cumulative Impacts

Cumulative impacts may occur because of the project being delivered concurrently, or consecutively, with other approved projects in the area.

The pre-construction work carried out for the project is low impact in nature and timeframe and is not expected to lead to cumulative impacts with the commencement of construction Stage 1. Cumulative impact aspects are considered during approval processes for pre-construction works including through Low Impact Work Permits and Minor Ancillary Facility Applications, as required.

Cumulative impacts during construction of the project will be managed through compliance with the relevant CoA and environmental management measures related to all environmental impacts including noise and vibration, transport and traffic and construction fatigue. This will include developing and maintaining forums with relevant stakeholders to regularly discuss current and upcoming works, their potential impacts to the same receivers and the controls to be applied (where relevant). These relevant stakeholders would include councils, Transport for NSW and other nearby Inland Rail projects (e.g. Albury to Illabo).

Given that the proposed staging of the project is predominantly geographical (i.e., many areas will not see any impacts from the project until Stage 2), it is not considered that there are significant risks of cumulative impacts to the community or the environment as a result of staging. This notwithstanding, key CoA to manage cumulative impacts as a result of other projects in proximity or the staging of the project include but are not limited to:

- C14 and C17 (CEMP) Cumulative impact management in CEMP and Sub-plans.
- E5 (Out of Hours Work Protocol works not subject to an EPL) To facilitate the coordination of out-of-hours work to ensure appropriate respite is provided to the community.





- E9 (Construction Noise Coordination and Respite) coordinate work with other Inland Rail
 projects to relocate utilities to minimise cumulative and consecutive noise and vibration
 impacts.
- E109 (Social Impact Management Plan) To minimise negative social and cumulative impacts associated with the project.

Mechanisms to mitigate cumulative impacts from the CSSI and its multiple stages are provided in sections below.

3.5.1 Noise mitigation

It is noted that the scale of cumulative impacts is dependent upon timing, location and type of construction activities. Regular interface meetings will be undertaken with government authorities, neighbouring projects, and stakeholders. To manage cumulative impacts, detailed design and construction works will consider with the aim of minimising concurrent works near sensitive receivers, including:

- Coordination between project teams and other CSSI, SSI and SSD projects that are being constructed nearby.
- Rescheduling of work where feasible to provide respite to impacted noise sensitive land user(s) so that respite is achieved.
- Consideration to the provision of alternative respite or mitigation to impacted noise sensitive
 land users. The consideration of respite must also include all other projects which may cause
 cumulative and/or consecutive impacts at receivers affected by the delivery of the project.

The ER will be informed of decisions made in relation to respite or mitigation and documentary evidence will be provided to support the decisions. The implementation of respite where it relates to out of hours works will be managed in accordance with the Out of Hours Works Protocol. Enironment Protection Licence #22021 was issued to John Holland on 26 August 2025, out of hours works including permits will be undertaken in accordance with licence conditions.

In accordance with CoA E9 the project will work with third parties (such as utility relocations) to reschedule any work to provide respite to noise impacted sensitive land users so that the respite is achieved. The consideration of respite will also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of the project. Complaints will also be actively monitored for trends that would indicate that sensitive receivers are fatigued by construction.

3.5.2 Traffic mitigation

Regardless of whether the project was staged, work needs to occur within the rail corridor. For safety reasons, much of this work cannot occur in proximity to live trains, and so rail possessions are required to close sections of the rail corridor. Rail possessions or under track occupancy authorisations would occur throughout the project to allow for certain work to occur along the project alignment within the Rail Corridor.

During rail possessions, alternative transport arrangements would be implemented in consultation with relevant stakeholders. This may include passenger trains being replaced by buses/coaches at the discretion of the service operator. Worker parking would generally be contained to the rail corridor (during possessions) or within construction ancillary facilities. Further information is provided in Section 5.2.1.





3.5.3 Other measures

In order to minimise cumulative impacts, IRPL will oversee the project's construction program. This will provide IRPL with the ability to identify potential cumulative impacts as to the duration and nature when compared with other Inland Rail projects. Once the potential impacts are identified, the project will trigger appropriate management measures in accordance with the CoA. The suite of management measures best adapted to the impacted zone will be determined through community consultation. The steps to managing cumulative impacts are:

- Community Stakeholder and Engagement Manager and Environment and Sustainability
 Manager to identify suite of measures to address cumulative impact via liaison with councils
 and other stakeholders or sensitive receivers.
- Develop suitable suite of management measures applicable to the area.
- Separation of time and place, staging/phasing works to minimise cumulative impacts.
- Progressively build cumulative management measures into the respective CEMP and Subplans (e.g., through Construction Noise and Vibration Impact Statements, and Traffic Management Plans/Traffic Guidance Systems for specific areas).
- Monitor complaints to identify unexpected / emerging cumulative impacts.
- Update approach and revise the CEMP and specific Sub-plans, including the Social Impact Management Plan, as needed.





4 Risk Assessment

The project is employing a streamlined process for the development and endorsement/approval of CEMP, sub-plans and monitoring programs, based on the environmental and social risks for each construction stage. Depending on the scope and scale of works for each stage, the risk assessment determined environmental management documentation requirements.

A risk-based approach has been used to determine the level of management tool which will be used on the project and to guide the implementation of environmental risks and mitigation measures. This approach considers the following:

- Identification of activities to be undertaken during each construction stage
- Assessment of project-specific environmental risks and hazards associated with each construction stage.
- Determination of suitable mitigation measures proportionate to the extent of the risk identified in order to minimise the risk.
- Allocation of defined responsibility for managing the risks and opportunities.

This framework is aligned with AS/NZS ISO 31000: 2018; Risk Management – Principles and Guidelines.

4.1 Risk Assessment Outcomes

A risk assessment has been carried out (Appendix A) and this determined that all environmental aspects for Stage 1 to be low risk and able to be managed under an EWMS as per CoA C1e).

The Risk Assessment was completed to determine potential risks associated with staged commencement of I2S project, specifically Stage 1 works being the Rail possession scheduled for the weekend commencing the night of 12 September 2025 including pre and post possession works.

As a result, the Risk Assessment completed identified that Stage 1 construction activities were low risk and could progress without all of the CEMP and subplans as required under C13, provided that specific mitigation measures were included and provided in an EWMS until a relevant plan is approved (refer to Section 5.2). The Stage 1 activities were deemed low risk due to a combination of:

- Small volume of work a relatively small volume of works in comparison to the overall project
- Short duration undertaken during rail possession activities.
- Limited location i.e., in a constrained location limited to a section of existing rail corridor.
- Low risk of impact risk of anticipated environmental impacts as a result of the stage 1 works is low.

Based on the level of environmental and community risk for each stage, and with consideration of the consultation, review, endorsement, and approval process, it is proposed to commence construction of stage 2 works following the endorsement of the CEMP, sub-plans and CMP by the ER and approval by DPHI in accordance with Condition C1. John Holland anticipate that required CEMP documentation will be approved by DPHI prior to the commencement of Stage 2 in approximately late September 2025.

The completed Risk Assessment matrix is attached as Appendix A.





5 Compliance

5.1 Consistency across stages

This report is required to detail how compliance with the CoA will be achieved across and between each of the stages of the project for construction. To ensure consistency, efficiency and clear responsibilities, a number of CoA requirements will be delivered across both stages. This includes aspects such as the biodiversity offsets and specific documentation such as the Sustainability Strategy. No aspect of the staged approach to construction will affect the ability of the project to comply with the CoA.

All CoAs will apply during both stages of construction, except for:

- Operational and design related CoAs in Part D and Part E (specifically for Part E, E35 to E37, E44, E109, E110 and E133) of the CSSI Approval – stage 2 only (refer to Section 5.2);
- specific conditions related to the preparation of CEMPs (refer to Section 5.2); and
- specific documents that have been delayed in accordance with Condition A9. Section 5.2 contains the list of CEMP documents that apply per stage.

Section 3.3 contains the CoA items that have been delayed under an A9 application until after construction of Stage 2 has commenced.

5.2 Environmental Management Approach

Low impact works as defined by Table 1 of the CoA will be assessed under a low impact works assessment which will be approved by the ER and IRPL prior to that work commencing. Approval to commence Low Impact Works that commence after Stage1 but before Stage 2 approval will be sort from the ER and IRPL.

The approval of the full I2S CEMP and sub-plans is not anticipated to be received prior to the commencement of Stage 1 construction activities. John Holland have assumed that no CEMP documentation <u>will</u> be approved prior to the commencement of Stage 1 construction activities, and that Stage 1 works will be undertaken in accordance with EWMS specific to Stage 1 works as determined through a risk assessment approach described in Section 4.

It is anticipated that the full CEMP will be approved prior to the commencement of construction under Stage 2. The full suite CEMP documentation has been prepared in accordance with Environmental Management Plan Guideline for Infrastructure Projects (Department of Planning, Industry and Environment (DPIE), 2020c). The project CEMP for Stage 2 will provide a centralised mechanism through which construction-related environmental impacts and management measures are documented. It will comprise a main CEMP document, issue specific Sub-plans and CMPs, and procedures.

The CEMP will provide the system and procedures to ensure that environmental impacts are minimised, and that legislative and approval requirements are fulfilled. The plans for both Stage 1 and Stage 2, as required by the CoA, comprise the information provided in **Table 5-1**:





Table 5-1 Construction environmental management requirements across stages

CoA No.	Condition Requirements	Stage 1	Stage 2
C12	Main Document CEMP	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C12
C17a	Traffic, transport, and access	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17b	Noise and Vibration	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17c	Biodiversity	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17d	Soil and water	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17e	Heritage	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17f	Flood emergency management	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
C17g	Biosecurity	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C17
Constr	ruction Monitoring Programs		-
C27a	Noise and Vibration Monitoring Program	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C27a
C27b	Surface Water Monitoring Program	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C27b
C27c	Traffic, Transport and Access Management Monitoring Program	Low Risk Managed under an EWMS in accordance with C1	Full suite document under C27c





In addition to the CEMP, and its Sub-plans and CMPs, several other strategies, plans and procedures will be developed and implemented during Stage 1 and Stage 2 construction to manage environmental and community impacts in accordance with the mitigation measures. These include but are not limited to:

- Out of Hours Work Protocol (Stage 1 and Stage 2).
- Water Reuse Strategy (Stage 2 only).
- Unexpected Finds Protocol Heritage (Stage 2 only).
- Unexpected Finds Protocol Ecology (Stage 2 only).
- Unexpected Finds Protocol Contamination (Stage 2 only).
- Community Communication Strategy (Stage 1 and 2).
- Social Impact Management Plan (Stage 2 only).

It is noted that an unexpected finds protocol under CoA A17 has been prepared and approved for low impact works. However the unexpected finds protocol prepared under A17 can be utilised for Stage 1 activities, as it is anticipated that this protocol is reflective of the protocols that would be used for construction for Biodiversity, Heritage and Contamination Finds as required under CoA C20F, E27 (Biodiversity), E132, E143 and E144 (heritage) and E161 – Contamination.

5.2.1 Traffic Management - Stage 1

Traffic management during Stage 1 will be managed via a site-specific Environmental Works Method Statement (EWMS) for approval by the ER prior to the commencement of Stage 1. General traffic, transport and access information is provided below to guide Stage 1 activities.

5.2.1.1 Dilapidation Surveys

In accordance with E101, a dilapidation survey would be undertaken for all public roads or bridges within the proposed haulage routes and diversion roads prior to the commencement of construction. Reports will be provided to the relevant road authority(ies) and TfNSW for classified roads within one month of completion of the road dilapidation survey and at least two weeks before the road is used by heavy vehicles. Road dilapidation will be undertaken in accordance with the IRPL Specification Document 0-0000-900-IAC-00-SP-0001 1, Minimum Requirements for Road Condition Survey.

Where the existing roads that are impacted by the heavy vehicle construction and haulage routes require necessary upgrade, written approval from the relevant road authority and TfNSW for classified roads will be gained prior to commencing main construction works.

Mitigation and remedial measures to minimise and repair impacts on properties, Stakeholders, private access roads/tracks and the relevant Road Authority's Road network may include the following where feasible and practicable:

- Consolidation of deliveries
- Utilisation of the project's haul route along the project corridor
- Selection of specific designated construction and haulage routes

Remedial measures will need to be assessed on a case-by-case basis in consultation with the applicable Stakeholder(s).

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5.2.1.2 Road Closures

Prior to any road closures, all relevant stakeholders, including planned community, landowners, the relevant Road Authority and TfNSW for classified roads, will be consulted.

Prior to road or lane closures, appropriate licenses would be sought from the relevant stakeholder (e.g., Road Occupancy Licenses from Transport for NSW). The relevant stakeholders who issue these licenses are responsible for considering the interface of a license with other issued licenses in the area, thereby managing traffic cumulative impacts. Relevant stakeholders will notify the project if the cumulative impacts of carrying out works that require such a license would cause too great an impact to the traffic network when considering other nearby projects.

Other than the formal platform of Traffic and Transport Liaison Group (TTLG) meetings with LGAs and representatives from other relevant stakeholders, feedback channels, including Community information line, project email address, physical project information centre, etc., will be utilised to receive potential complaints or advise from the public as per I2S Community Communication Strategy (https://inlandrail.com.au/wp-content/uploads/2024/10/i2s-community-communication-strategy-4.pdf). All complaints received during the I2S project will be actioned and recorded through Consultation Manager and used as an improvement opportunity for future work.

The works will be planned in such a manner to ensure access is maintained and impacts are minimised as far as is reasonably practicable.

5.2.1.3 Management of Vehicular Traffic

JHG will aim to minimise the Project's impact on the road networks through the development of site specific TMPs. This will include:

- Minimising the footprint of works on roads and identifying potential adverse impacts during design.
- Considering work durations during planning and design to minimise occupation times on roads for construction and maintenance.
- Detailing plans for route guidance via media releases and roadside VMS.
- Considering the modal priorities identified by the client and relevant stakeholders.
- Planning works to maximise capacity during peak periods.
- Identifying suitable alternative routes for diverted traffic.
- Working with TfNSW to develop strategies for the wider network to minimise impacts.
- Developing contingencies as part of the planning process for any potential delay event.

Haulage routes and access will be managed in accordance with the Traffic and Transport EWMS as described above.

Haulage routes will also be detailed within Site Specific TMP's, with these plans communicated to delivery drivers and site personnel through project inductions.

Use of private access roads or local roads will be consulted with relevant stakeholders (LGAs or landowners) prior to any work commencement.

5.2.2 Biodiversity and Biosecurity Management – Stage 1

Biodiversity impacts are anticipated to be negligible during Stage 1, as no vegetation clearance will be undertaken during Stage 1.

Biosecurity impacts could result from movement in and out of the rail corridor for the completion of rail possession activities for Stage 1, however, no transportation along the alignment are expected for

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Stage 1, i.e. works are restricted to a small, isolated section of the existing rail corridor. An EWMS will be prepared to manage potential Biosecurity and Biodiversity impacts.

5.2.3 Soil and Water Management - Stage 1

Soil and water impacts could result from earthworks, tracking of equipment and material movement during rail possession activities for Stage 1. Soil and water management measures specific to the Stage 1 scope of works are detailed in the Stage 1 EWMS.

5.2.4 Heritage Management – Stage 1

Heritage impacts are anticipated to be negligible during Stage 1, as no heritage items or places have been identified in the location where rail possession activities will be undertaken during Stage 1. Heritage management measures specific to Stage 1 scope of works are detailed in the Stage 1 EWMS.

5.2.5 Flood Emergency Management - Stage 1

An EWMS or emergency plan for the works will be prepared that details procedures for the management of site movements and evacuation in the event of severe rainfall leading to flood emergency during Stage 1. Flood emergency management measures specific to Stage 1 scope of works are detailed in the Stage 1 EWMS.

5.3 Low Impact Works

Low impact works will only occur after the following activities have been undertaken:

- Consideration of relevant regulatory requirements.
- Identification of relevant CoA and environmental mitigation measures.
- Preparation of a Low Impact Work Permit and approval by IRPL to confirm that the works meet the definition of low impact works in accordance with the definition in the CoA.

If full CEMP approval is not received immediately following the completion of Stage 1 works, Stage 2 will not commence until these plans are approved.





Appendix A - Risk Assessment Matrix

Revision No: 0 Issue Date: 29/8/2025

ENVIRONMENTAL RISK REGISTER

Project: Inland Rail - Illabo to Stockinbingal

<u>Date:</u> 10/07/2025

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otes change since last revision. Strikethrough denotes text to be deleted **EIS-CEMP Ranking Matrix** Residual Ranking Matrix Hazard Description Stage One Risk Stage One Standard Controls Comments Approvals Proposed works not consistent with EIS, CoA or Delays through consistency reviews or modification Continual review of works to ensure they are in accordance with the planning approval. Development of Staging report, consistency High Revised down from the FIS risk assessment. Contract requirements, lacking in an expected unlikely Low ssessments, LIWAs and MAFS where required. certain Compliance tracking, adequate resourcing, project induction, staff training, auditing, carry out works in accordance with mitigation measures in the CEMP, measures detailed in plan. Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include: Construction Environment Management Plan - FR Endorsed Noise & Vibration Management Plan (C19) - ER Endorsed Contaminated & Hazardous Material Management Plan (SC-7) - ER Endorsed Revised down from the FIS risk assessment Soil & Water Management Plan (C22) - ER Endorsed Groundwater Mitigation & Management Plan (GW-4) - ER Endorsed Non-compliance with Environmental Approvals The conditions triggered by this scope of work have been listed Heritage Management Plan (C23) - ER Endorsed ery High Breach of Legislation, unlikely Low (EIS.CoA) certain in the Project Staging Report with risks associated with the Biodiversity Management Plan (C20) - ER Endorsed implementation of Management Plans captured in this Risk Biosecurity Management Plan (C25) - ER Endorsed Assessment below (for the purposes of Condition C1). Flood Emergency Management Plan (C24) - ER Endorsed Waste Management Plan (WM-2) - ER Endorsed Air Quality Management Plan (AQ-1) - FR Endorsed Community Consultation Strategy (B1) - ER Endorsed Social Impact Management Plan (E109) - ER Endorsed Temporary Workforce Accommodation Facility Management Plan (A18) - ER Endorsed Traffic, Transport and Access Management Plan Bushfire Emergency Plan (E121) - ER Endorsed Environmental Work Method Statement (EWMS) which will incorporate traffic, transport and access mitigation measures Revised down from the EIS risk assessment. Ion-conformance with CEMP, Staging Report, nduction training to be implemented for staff on the Project. The conditions triggered by this scope of work have been listed EWMS, relevant sub Plans and legislative likely delays, fines, prosecutions, environmental harm Consistency / compliance review of relevant documents that are prepared in timely manner. unlikely in the Project Staging Report with risks associated with the equirements Develop and implement an efficient and robust audit / inspection plan as part of the CEMP implementation of Management Plans captured in this Risk Assessment below (for the purposes of Condition C1) Early identification of and engagement with key stakeholders. All third party approvals have been obtained (an EPL is in place-Failure to obtain third party approvals High Delay in program Approvals strategy, planning meetings.

Utilising GIS information provided as part of the tender process and building on those layers as the design develops. unlikely certain EPL No. 22012). All works are nominated within or adjacent to the construction boundary for the possession works. Where works are adjacent Construction methodology developed early confirm required work area/footprint and to identify if any works are outside the CIZ and any Additional approvals required, costs, alternative Construction footprint cannot be achieved possible unlikely to the boundary, a Consistency Assessment will be reviewed techniques required subsequent additional environmental approvals i.e. Consistency Assessment. and endorsed by the Proponent (IRPL) before works can commence Develop and implement a Sustainability Management Plan. Jnable to achieve required design and as-built ISC High Noncompliance with MCoA and Deed Specialist sustainability contractors identified and engaged early. Not applicable to this scope of work. unlikely Low Develop and implement an efficient and robust audit / inspection plan as part of the SMP. Compile and maintain a legislation register. dentify and review new legislation. Change of legislative / regulatory requirements possible Medium Breach of Legislation, additional approvals, costs Subscribe to Envirol aw. unlikely Low Revised down from the FIS risk assessment. Compliance tracking, auditing, inspections, training Change management processes incorporated in the CEMP. requent communication with regulators. Almost elay in obtaining project approval Time and cost Preparation of documents to be ready for submission to DPHI. Low Revised down from the EIS risk assessment. unlikely Project approval obtained Traffic Transport and Access Develop and implement an EWMS which will manage risks associated with traffic transport and access identified in the EIS and relevant CoAs Changes to intersection and traffic performance due o heavy vehicle movements, parrowing of lanes. High Traffic delays, complaints unlikely Low speed restrictions and temporary lane closures Dilapidation Surveys have been undertaken in accordance with Condition E101 and E102. Warrens Lane will be managed in accordance with Impacts to road safety as a result of increased roa Condition E103 as required which will ensure that any potential physical impacts during the possession are repaired to a standard of the same of Safety issues, incidents, traffic delays, complaints etter than it was prior to the possession works. High use and turning movements at intersections and likely unlikely Low Mitigation and remedial measures to minimise and repair impacts on properties, Stakeholders, private access roads/tracks and the relevant construction site access gates Disruptions and delays to public transport Road Authority's Road network may include the following where feasible and practicable: likely 3 High Traffic delays, complaints unlikely 3 Low Consolidation of deliveries operations, particularly buses mpacts on the availability of on street and off-street Utilisation of the project's haul route along the project corridor likely Hiah Community amenity impacted, public complaints Low unlikely · Selection of specific designated construction and haulage routes parking surrounding construction work areas

Traffic impact to roads utilised by the project due to					- A Traffic Guidance Scheme (TGS) will be prepared for use in the September possession which will outline how traffic and pedestrian				
cummulative impacts from other surrounding	likely	3	High	Community amenity impacted, public complaints	movements will be safely managed to protect workers and road users while maintaining traffic flow during the possession. This will include entry/exit points into the possession work area. The TGS will be approved under an ROL. The TGS is a standard traffic control set up for holding	unlikely	3	Low	
projects.					construction traffic within the work zone before releasing them onto Olympic HWY at staged intervals (to redeuce the risk of delays to traffic on				
Impacts on access to private properties.	likely	3	High	Complaints from landowners, impacts to farm operations	Olympic HWY).	unlikely	3	Low	
Impacts to emergency services through delays in access due to works.	likely	3	High	Impacting the ability of emergency services to perform critical tasks	- No vehicle delays are anticipated from works during the Illabo possession. All traffic will flow as per regular traffic arrangements on Olympic	unlikely	3	Low	
	unlikely	3	Low	Reduced accessibility to pedestrians/cyclists, complaints	HWY throughout the weekend with heavy vehicles and light vehicles entering/exiting via existing local and state roads.	rare/remote	2	Low	
Reduced pedestrian and cyclist access.	urilikely	3	Low	Reduced accessibility to pedestrians/cyclists, complaints	- Traffic volumes and construction works will be within the rail corridor and not impact on local and regional traffic flow.	rare/remote		LOW	
Impact of construction work on existing rail operations during the tie-in to the north and south	possible	2	Low	Traffic/railway delays, complaints,	- Vehicles will not park on local roads or verges. Parking will be limited to onsite designated car parks and other areas with the possession work	unlikely	2	Low	
ends of the project area.	possible	2	LOW	Tranicraliway delays, complaints,	area.	unincery	2	LOW	
Realignment of Burley Griffin Way resulting in	Almost				 - Access/egress to the work site will be via a private farm access road which has been approved with the property owner in accordance with Condition C7, C8, E86, E94 and E95. This access/egress will ensure that direct access to the rail corridor will be provided for all construction 				
detours and change to traffic control.	certain	3	High	Traffic delays, complaints	vehicles and will not require any specific road closure or traffic calming measures to be in place.	rare/remote	1	Low	
Impacts bus routes and services as a result of	Almost				- This access/egress will be separate to the property landowner access (see figure in attached Staging Report). The TGS that has been approved				
increased road use and diversions due to road	certain	2	Medium	Bus service delays, complaints	for these construction activities will hold construction vehicles within the rail corridor or on the access track and release vehicles onto Olympic	rare/remote	1	Low	
realignment.	certain			· ·	HWY and Warren's Lane in a staged manner to avoid any local impacts to property owners or public vehicles.				
Impacts livestock highways as a result of increased	likely	2	Medium	Impacting farm operations	- The work zone will be entirely within the rail corridor under a possession arrangement (no interface with road traffic or rail). The nearest CSSI	unlikely	2	Low	
construction traffic.	intory	_	Modium	impacting farm operations	project (Albury to Illabo) have a site compound further south opposite Illabo village which does not interface with traffic movements from the I2S	ariiikory	_	2011	
Rural roads unsuitable for construction traffic (e.g.,	possible	3	Medium	Safety issues, incidents, traffic delays, complaints	site facility or construction activities for the Illabo possession.	unlikely	3	Low	
size, land use).				, , , , , , , ,	- The works will not block, impede or otherwise affect property access or farm operations unless previously agreed by the landowner, and				
Increase in road use as a result of cumulative infrastructure projects in the vicinity proposal.	unlikely	3	Low	Safety issues, incidents, traffic delays, complaints	documented in the Individual Property Plans (IPP). - Onsite designated carparks will be appropriately sized to handle the capacity of vehicles required for the possession.	unlikely	2	Low	
infrastructure projects in the vicinity proposal.					 Onsite designated carparks will be appropriately sized to handle the capacity of vehicles required for the possession. Community notifications of the possession works will be undertaken in accordance with the CCS. This may include site VMS boards to notify 				
Physical impact to roads utilised by the project (dilapidation), including consideration of cummulative impacts from other surrounding projects	Almost certain	3	High	Community amenity impacted, public complaints, cost of vehicle damage claims	road users. Early identification of local roads during construction planning that will be impacted as part of the work. Prioritise the use of arterial and sub-arterial roads. Investigate opportunities to minimise impacts to local roads. All personnel will participate in a site induction which will include traffic, transport and access related measures. This will be reinforced during pre-starts which will be undertaken prior to the commencement of each shift. Delivery drivers, including material deliveries, will be provided adequate directions prior to entering the possession/site area.	possible	2	Low	
Noise and Vibration					Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include:				
Elevated noise and vibration levels around construction sites, compounds, site accesses and haul routes affects amenity for sensitive receivers	likely	4	Very High	Possible breach in approvals, Community complaints, construction fatigue, property damage.	Environmental Protection Licence under the <i>Protection of the Environment Operations Act</i> 1997. Noise & Vibration Management Plan (C19), including Out of Hours Work (OOHW) Protocol and approval process. Construction Noise & Vibration Impact Statement	unlikely	2	Low	
Noise impacts on sensitive receivers (including residents, employeesand recreation facility users) for work undertaken outside of standard working hours (such as works required to be undertaken under an ROL arrangement)	likely	4	Very High	Community complaints, regulator involvement	- Community Consultation Strategy (B1) Other key items include (but not limited to): - An OOHW Permit will be prepared for the September possession which will include noise modelling which will inform mitigation requirements. - Noise monitoring/validation will be undertaken as detailed in the OOHW Permit. - Community notifications will be undertaken as per the CCS. - Worker awareness of noise and vibration related requirements will be undertaken via the site induction, toolbox talks and pre-start meetings - Alternate construction methods will be considered during the possession (for eg. shears vs hammering) - Minimise idling, shouting and staff gathering near sensitive area. - Cumulative impacts from other construction works will be considered in the noise model where applicable.		2	Low	
					- Only equipment necessary for the works will be used.				
Cumulative noise impacts from other projects	likely	2	Medium	Community complaints, regulator involvement	- Limit activity duration. Any equipment not in use shall be switched off Non-tonal reversing alarms such as 'quackers' will be used for all relevant construction vehicles and mobile plant.	unlikely	2	Low	
					 Non-routal reversing alarms such as quackers will be used to all relevant construction ventices and model plants such as quackers will be used to a local plant of the plants of the plan				
Vibration impacts on heritage and other structures causing damage (cosmetic and/or structural)	possible	4	High	Property damage, delays, breach of CoA.	All personnel will receive a toolbox/prestart meeting prior to works commencing. Topics to be discussed include the location of noise sensitive eceivers, permitted working hours, and staff to be briefed before works i.e. no loud talking, music, swearing, be mindful of the community. Turn ff equipment when not in use. Do not drop tools, equipment, materials etc.		2	Low	
Vibration impacts on sensitive equipment	possible	4	High	Damage complaints, delays		rare/remote	2	Low	
Air Quality and Odour									
Impacts on air quality as a result of dust generation during construction (from earthworks, ground disturbance, vegetation removal, exposed soil/stockpiles, excavation and vehicle movements)	likely	4	Very High	community concerns, regulator involvement, fines, impacts flora fauna, pollution	Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include: - Air Quality Management Plan (AQ-1) - Contaminated & Hazardous Material Management Plan (SC-7) - Soil & Water Management Plan (C22), including relevant ERSED Plans - Complaint management processes (considered in the relevant sub-plans and the CCS) - Sustainability Management Plan	unlikely	3	Low	

					1				•
Odours/emissions from disturbance of contaminated soils or other sources such as asphalt laying during road modification works	unlikely	3	Low	community concerns, regulator involvement, fines, impacts flora fauna, pollution	Other key items include (but not limited to): - Use of water carts as suppression as required - Milminise exposed surfaces and stage works to minimise disturbed areas Restrict dust and odour generating activities in strong wind conditions Materials to and from site to be covered.	unlikely	2	Low	
Fugitive emissions (e.g. VOCs) from fuel/chemicals storage and handling	possible	2	Low	community concerns, regulator involvement, fines, impacts flora fauna, pollution	Stockpile sites chosen as far as reasonably practical from sensitive receivers. Enforce speed limits on existing unsealed haul roads to minimise dust generation. Engagement with relevant stakeholders. Induction and training Plant pre acceptance and maintenance records (as plant are floated to site); and daily pre-start checks (as plant are operated day-to-day). Appropriate storage and management of chemicals. Stabilisation of stockpiles where they are not in use.	unlikely	2	Low	
Impacts on air quality as a result of emissions from vehicles or plant during construction	likely	2	Medium	community concerns, pollution	- Statumisation to succepties where they are not in use Reassessing/modify works and mitigation methods on hot, dry and windy days where excessive dust generation is observed/likely.	unlikely	2	Low	
Contamination									
Potential to disturb contaminated soils during construction and mobilise contamination.	possible	3	Medium	Exposure of contamination, spread of contaminated substances/materials, human exposure, ecological exposure	Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include:	unlikely	3	Low	
Potential to disturb hazardous materials during the demolition of buildings and structures.	possible	3	Medium	Exposure of contamination, spread of contaminated substances/materials, human exposure, ecological exposure	Soil & Water Management Plan (C22) - Contaminated & Hazardous Material Management Plan (SC-7) - Emergency Response Plan (inclusive of emergency spill response) - Unexpected and Incidental Finds Protocol for contamination	rare/remote	2	Low	
Potential for direct contact exposure by construction workers to soils associated with dumped materials and stockpiles or machine storage and maintenance.	possible	3	Medium	Exposure of contamination, spread of contaminated substances/materials, human exposure, ecological exposure	Other key items include (but not limited to): - Removal off-site as a waste to a licensed waste facility. - Works are not being undertaken in an area of known or suspected contamination - Specialist Contractor(s) including CPESC and contamination consultant	unlikely	2	Low	
Accidental discharge of potentially contaminated groundwater	possible	3	Medium	Pollution, breach of legislation, fines	Chemicals, fuel tanks and associated pipework to be located within bunds with 110% capacity. Spill kits to be made available on site to prevent material entering the watercourse or surface water drains.	rare/remote	2	Low	
Exposure/ Mistreatment of Acid Sulfate Soils causing pollution or impacting construction in ground	possible	3	Medium	Pollution, breach of legislation, fines	- Spili kils to be made available on site to prevent material entering the watercourse or surface water drains. - Tanks, bunds, plant and machinery to be regularly maintained. - Training key personnel in emergency spill response. - Daily prestart inspection for all hydraulic plant.	rare/remote	2	Low	
Contamination of soils and groundwater due to spills or leaks of fuels, oil or other hazardous substances	possible	3	Medium	Pollution, soil contamination, breach of legislation, fines	Daily prestart inspection for all nydraulic plant. Appropriate storage and management of chemicals. Refuelling and wash-down in designated areas only. ERSED Plans Training toolbox and induction Materials Tracking Register			Low	
Contaminated stockpile storage and containment inadequate in space or build	likely	3	High	Pollution, breach of legislation, fines, costs due to added disposal/management of material				Low	
Not recognising/ improperly treating unexpected finds	Almost certain	3	High	Pollution, breach improperly legislation, fines, incorrect waste disposal, potential cross contamination of stockniles	- Waste classification and disposal at appropriately licensed facilities. - Waste classification and disposal at appropriately licensed facilities. - Awareness and management of the AEC located within the railway corridor and processes to follow should suspected contamination be discovered. - Ur		3	Low	
Incorrect classification of waste	Almost	3	High	Pollution, breach of legislation, fines			3	Low	
Incorrect disposal of waste	Almost certain	3	High	Pollution, breach of legislation, fines			3	Low	
Water Quality									
Sedimentation of local and downstream					Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated				
watercourses and water bodies	likely	3	High		with these risks and hazards during the proposed works. These plans include: - Soil & Water Management Plan (C22)	unlikely	3	Low	
Impacts to water quality due to disturbance of actual or potential acid sulphate soils	possible	4	High		- Groundwater Mitigation & Management Plan (GW-4) - SEP / ERSED plans	rare/remote	2	Low	
Increased alkalinity and pH of watercourses due to runoff from concrete batching plant operations.	unlikely	4	Medium		Other key items include (but not limited to): - Installation and maintenance of ERSED controls in accordance with the Blue Book Construction planning and methodology - CPESC to develop Erosion and Sediment Control Plans (ESCPs) prior to works commencing. PESCP to be implemented throughout the site.	rare/remote	1	Low	
Litter from construction activities polluting downstream watercourses.	unlikely	3	Low	Pollution of surface water/groundwater, ecological impacts, impacts to waterways users (farmers), breach of	- CPESC to undertake site inspections as required Delineate areas to be retained i.e. areas of native vegetation/TEC, riparian zones, waterways, paddock trees Stabilise exposed areas and stockpiles when they are not in use	unlikely	2	Low	
Contamination of groundwater from construction activities.	possible	4	High	legislation, fines	- Stabilised entry/exit points to minimise mud tracking on public roads Diversion of clean water away from the work area No works within the adjacent Billabong Creek No offsite discharge of water permitted.	unlikely	3	Low	
Impacts on surface water from spills or leaks from construction plant and equipment.	Almost certain	2	Medium		No offsite discharge of water permitted. Management of groundwater if encountered (although unlikely) Spill kits will be positioned throughout the work area and appropriate training in their use. Plant Pre-Acceptance Maintenance Records Daily pre-starts on plant/equipment to be used. Pre-rainfall inspections to be undertaken where >20mm is forecast in a 24 hour period. Concrete washouts to be used if required. Appropriate waste receptacles to be positioned to prevent litter/rubbish accumulation in waterways.		2	Low	
Hydrology and Flooding									<u> </u>
Impairment or modification of existing drainage	likely	3	High		Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated	unlikely	2	Low	
infrastructure Temporary impact to the behaviour of local surface water systems during construction due to the	possible	3	Medium		with these risks and hazards during the proposed works. These plans include: - Soil & Water Management Plan (C22) - Groundwater Mitigation & Management Plan (GW-4)	possible	2	Low	
presence of construction features, including erosion and sedimentation control structures.				Change in overland flow paths and flood regimes, excacerbation of flooding impacts caused by construction	- Groundwater Mitigation & Management Plan (GW-4) - Flood Emergency Management Plan (C24)				

Changes to flow patterns and altered hydrology due				словостраноп от поочину иправо вычасы ру волюнивного,					
to construction in watercourses.	possible	3	Medium	reduction in floodplain storage, impacted water quality, flooding impacts to properties and construction sites.	Other key items include (but not limited to):	rare/remote	1	Low	
Impact of flooding on unprotected areas during construction resulting in washouts or erosion.	possible	3	Medium	safety impacts to workers/community.	 - Assessment undertaken by hydrologist which confirms that the possession works will not impact on hydrology and flooding in the area in accordance with Condition of Approval E66. 	unlikely	3	Low	
Sedimentation and changes to geomorphology in	possible	3	Medium		 Management of water flow/diversions through temporary works designs and in consultation with CPESC. 	unlikely	2	Low	
watercourses. Changes to impervious areas and/or the catchment	Almost				 Implementation of PESCP to minimise sedimentation in waterways/drains. Where significant rainfall is forecast, ensure that appropriate controls (as detailed in the FEMP), SWMP and PESCP are implemented. 				
area of existing drainage infrastructure,	certain	2	Medium			unlikely	2	Low	
Groundwater		,							
Extraction of groundwater may cause drawdown of the groundwater table, impacting sub-surface flows and water availability.	possible	4	High		In accordance with the Conditions of Approval, the Project will limplement the following management plans that will manage risk associated with these risks and hazards during construction. These plans include: - Soil 8. Water Management Plan (C22) - Groundwater Mitigation & Management Plan (GW-4) - Biodiversity Management Plan (C20)	rare/remote	1	Low	
Potential for bulk excavations to intersect the water table and lead to groundwater level drawdown, impacting nearby groundwater bores, groundwater dependent ecosystems, and watercourse base flow.	possible	3	Medium	Nearby ground formation and structures potentially impacted. Ecological impacts to due change in subflow. Impacts to other users who rely on the aquifer e.g. farmers for groundwater bores	Other key items include (but not limited to): - Ensuring design appropriately considers groundwater interactions to mininise impacts as much as possible - Modelling (and/or review of existing modelling undertaken as part of the EIS). Scope of works not anticipated to interact with groundwater No groundwater extraction to occur as part of works - In the unlikely event that groundwater is encountered, it will be removed using a vacuum truck or used for dust suppression. No groundwater will not be discharged offsite, including to waterways or drainage lines.	unlikely	3	Low	
Changes to soil moisture content causing compression or settlement.	possible	4	High	To groundwater bores		unlikely	3	Low	
Degradation of water quality through the movement of potentially existing contamination plumes within the groundwater environment.	rare/remote	3	Low			unlikely	2	Low	
Non-Aboriginal heritage									
Potential direct impacts on heritage listed sites located within the proposal site and any potential heritage items located within/near the proposal site.	likely	4	Very High		- Heritage Management Plan (C23) - Noise & Vibration Management Plan (C19) Unexpected and Incidental Finds Protocol Other key items include (but not limited to): - Physical delineation, including fencing / barriers or the Billabong overpass railway bridge which is not a listed heritage item but has potential heritage significance Training and awareness, including induction (and specifically for an artefact find) Specialist heritage consultant on-call should any UNX finds be discovered Sympathetic design	unlikely	3	Low	
Disturbance of known or unidentified items or places of non-Aboriginal heritage significance.	possible	4	High	Delays in approval to recommence. Additional measures, archaeological salvage, DPHI approvals, irreversible damage, prosecutions, infringements, permanent		unlikely	3	Low	
Impacts to heritage items from vibration during construction.	possible	4	High			unlikely	3	Low	
Design that detracts from the heritage significance of nearby items.	unlikely	3	Low	damage/harm to heritage items, damage to property, complaints,		unlikely	2	Low	
Impacts on listed heritage items or items of heritage values due to demolition, altered historic arrangements and access, visual amenity, landscape and vistas, curtilage, subsidence and architectural noise treatment.	unlikely	3	Low		- Heritage licenses/permits as required Avoiding vibration intensive works with MWDs of listed heritage structures, unless further assessment/approvals have been obtained Further assessment of items with potential heritage significance.		2	Low	
Aboriginal heritage									
Potential impacts on registered Aboriginal heritage items/sites in the proposal site.	likely	4	Very High		Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include: - Heritage Management Plan (C23)	unlikely	3	Low	
Impacts on unrecorded Aboriginal sites and/or areas of archaeological sensitivity or cultural value.	possible	4	High	Prosecutions, infringements, permanent damage/harm to	- Aboriginal Cultural Values Plan - Unexpected and Incidental Finds Protocol Other key items include (but not limited to):	possible	2	Low	
Impacts on areas predicted to have moderate to high archaeological potential.	possible	4	High	heritage items, delays in approval to recommence, additional archaeological salvage/assessments, approvals	 Physical delineation, including fencing / barriers, no-golexclusion zones of listed Aboriginal heritage items. Assessments undertaken to ensure proposed works will not impact on listed Aboriginal heritage sites. Should a potential UNX heritage artefact be discovered, all works are to cease and the Unexpected and Incidental Finds Protocol will be 	possible	2	Low	
Indirect impacts on registered Aboriginal sites outside the proposal site by the movement of vehicles and/or construction machinery.	possible	3	Medium		implemented Training and awareness to the workforce via site inductions, toolboxes and pre-starts - Detailed design to consider avoiding areas as identified Stakeholder consultation, including with RAPs.	possible	2	Low	
Indirect impacts to Aboriginal heritage items from construction of the project such as visual setting or settlement.	possible	2	Low		·		2	Low	
Biodiversity					Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated				
Clearing of native vegetation resulting in loss of fauna habitat, habitat fragmentation and loss of connectivity.	likely	4	Very High		with these risks and hazards during the proposed works. These plans include:	unlikely	2	Low	
Clearing greater than design allowances (although still approved project boundaries) Impacts to native vegetation from earthworks and clearing	possible	4	High		Biodiversity Management Plan (C20) Biosecurity Management Plan (C25). Soil & Water Management Plan (C25) Soil & Water Management Plan (C29) Groundwater Mitigation & Management Plan (GW-4) Unexpected and Incidental Finds Protocol		1	Low	
Direct impacts on listed threatened flora species and endangered terrestrial ecological populations and communities.	likely	4	Very High		Other key items include (but not limited to): - Delineation and fencing for areas containing native vegetation, TEC, paddock trees, fauna habitat, waterways/riparian zones or any other relevent environmentally sensitive areas No clearing or grubbing of native vegetation	unlikely	2	Low	

Impacts on potential habitat for listed threatened fauna species.	likely	4	Very High		Training and awareness to the workforce via site inductions, toolboxes and pre-starts Management of weeds, pests and pathogens incliduing vehicle/equipment hygiene	unlikely	2	Low	
Increased impacts from pest plants and animals during construction from movement of vehicles,	possible	4	High		 Ensure vehicles, plant and equipment are clean prior to arriving/departing site and do not contain excessive mud, dirt, weed, seed or other organic material. Comply with any biosecurity/weed agreements specific to the property in accordance with the Individual Property Plans and landowner agreements. 	possible	2	Low	
machinery and materials in and out of site.	·		Ů		- Sensitive Area Plans to contain locations of environmentall sensitive areas (native veg, TEC etc.) and will be briefed to site staff and available				
Indirect impacts on fauna species due to increased dust, sedimentation, and erosion, noise, light and contamination pollution.	possible	4	High	Prosecutions, fines, damage to flora communities and habitat for fauna, physical loss of fauna species, unnapproved clearing, exceedance of clearing limits, fauna	onsite. - Ecologist to be on-call should there be any unexpected fauna finds or other ecological issue identified. - Stop works where unexpected threatened species or fauna interactions occur and implement the Unexpected and Incidental Finds Protocol - Implement appropriate ERSED controls as per the PESCP to minimase impacts to waterways, areas of vegetation and aquatic fauna/flora	possible	2	Low	
Native fauna mortality from vehicle strikes and during clearing	likely	3	High	mortality/injury, rework, delays, failed rehabilitation		possible	2	Low	
Fauna Interaction	possible	4	High			possible	2	Low	
Potential impacts on groundwater dependent ecosystems.	possible	3	Medium			possible	2	Low	
Potential impacts on aquatic ecology and threatened species, including as a result of removal of riparian vegetation and fish passage blockages during construction of waterway crossings.	likely	4	Very High			rare/remote	: 1	Low	
Water quality impacts and changes to flow regimes, including through the removal of farm dams, affect aquatic ecosystems.	likely	3	High			possible	2	Low	
Potential impacts on protected and sensitive lands.	likely	3	High			possible	2	Low	
Unsuccessful rehabilitation of works	likely	3	High			rare/remote	3	Low	
Soils landform and geology					Clare 1 of the Design will leveles out the militarian managers contained with the College of the				
Erosion as a result of the disturbance of soils during construction, particularly in soil landscapes	possible	2	Low		Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include: - Soil & Water Management Plan (C22)	possible	1	Low	
characterised by dispersive soils, given their susceptibility to erosion.	possible	۷	Low	Loss of soil, degredation of soil, sedimentation in waterways/drains, fines/regulatory action, delays/rework, unstable landforms	- Contaminated & Hazardous Material Management Plan (SC-7) - Geotechnical and DSI reports and excavation permits Waste Management Plan (WM-2) - SEPs/ERSED plans	possible	ľ	Low	
Disturbance of soils and subsequent loss or degradation of soil quality during earthworks at construction compound site.	possible	2	Low		Other key items include (but not limited to): - PESCP will be implemented to manage ERSED risk - Topsoil to be appropriately stockpiled to ensure quality is not reduced.	possible	1	Low	
Disturbance of landforms during earthworks reducing the stability of landforms.	possible	3	Medium		* Topson to be apppropriately stockpiled to ensure quanty is not reduced.	possible	2	Low	
Resource and Waste									
Generation of excess spoil that cannot be reused onsite (unsuitable for reuse or insufficient space) and needs to be disposed of.	possible	3	Medium		Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated with these risks and hazards during the proposed works. These plans include: - Contaminated & Hazardous Material Management Plan (SC-7) - Waste Management Plan (WM-2) - Sustainability Management Plan	possible	2	Low	
Inappropriate management of waste generated during construction, resulting in environmental, health and amenity impacts, including contamination, water quality impacts, odour and dust.	possible	2	Low	Cost, loss of reuse potential and impact to sustainability outcomes for the project (ISC rating), additional resource consumption, regulatory breaches/action, pollution, illegal disposal	- Soil & Water Management Plan (C22) - Biodiversity Management Plan (C20) Other key items include (but not limited to): - Maximise reuseriecycle of waste - Consider use of recycled materials in construction process - Maximise ruses of waste on site and minimise waste to landfill - Ensure all waste is considered and tabulated in a waste register and segregate waste wherever possible and removed to licensed waste contractor.	possible	1	Low	
Inappropriate management of waste generated during construction, resulting in excessive waste being directed to landfill.	possible	3	Medium		 - Use licensed contractors to remove waste and investigate options for onsite reuse and recycling e.g. reuse of spoil. - Undertake site inspections to ensure that waste is disposed into correct skips and inspections of waste carriers to ensure that they are following their duty of care. - Waste to leave site to a facility licensed to accept it only or with an approved Section 143 notice. - Waste classification to occur and disposal at appropriately licensed waste facilities. 	possible	2	Low	
Increased resource consumption.	possible	2	Low			possible	1	Low	
Sustainability, including Climate change and GHG	;								
Hazard, potential consequences and mitigation strates	gies related to	the Sustai	inability dis	cipline, including climate change and greenhouse gas emiss	ions, are detailed in a separate risk register.				1
Land Use									
Effects on access to and within properties as a					Stage 1 of the Project will implement the mitigation measures contained within the following management plans that will manage risk associated				1

Commany Control According to the Control Acc										
Part	Indirect impacts on agricultural land use/production					- Noise & Vibration Management Plan (C19)				
Part	and livestock from construction activities, including					- Biosecurity Management Plan		1 . /		
Total Content of the Content of th	impacts from changes to access, noise, and air	likely	2	Medium			unlikely	2	Low	
Part	pollution.							1 /		
Part	Temporary changes to land use as a result of the									
Section of the control of the contro	proposal's land requirements during					- Individual Property Plan		(/		
Part	construction—temporary leasing of additional areas	Almost	_	Litteria				1	1	
The state of the	outside the operational footprint to facilitate	certain	3	High		Other key items include (but not limited to):	unlikely	2	Low	
Manual Content Manu	construction negatively affects the availability of							(/		
The content of an anti-discontinuous control of an anti-discontinuous control of anti-disconti	land for other uses.				Community complaints, unnapproved access to private			1 /		
March Marc	The movement of construction machinery and									
Second profession	materials introduces biosecurity risks, including the	possible	3	Medium		- Onsite designated carparks will be appropriately sized to handle the capacity of vehicles required for the possession.	possible	2	Low	
Marked Section American A	spread of weeds.	'	1		, '		'	(/		
Part	Effects on access to and along travelling stock		_			road users.				
March Marc	reserves.	possible	2	Low			unlikely	2	Low	
March Marc	Effects on mining leases and licences, such that									
with the foundating inquals from incident form indicated in growing or collection of the collection of	viability is affected.	unlikely	2	Low			unlikely	2	Low	
with the foundating inquals from incident form indicated in growing or collection of the collection of	Impacts on agricultural land use from construction							-		
The properties of the properti		likely	2	Medium			unlikely	2	Low	
Security of the control of the contr	noise, and air pollution.		_					(- /		
Security of the control of the contr	Impacts on land use as a result of property									
File of the Intelligence a Gardy controlled in Management (and in the Intelligence and Intelligen	acquisition.	likely	3	High			possible	2	Low	
For Popular and an extra protecting and extra prote										
Stock Exception (Particle contained to local short-forms agreed format in facility and an interest to local short stock and interest to the stock and in facility and an interest to local short stock and in facility and an interest to local short stock and interest to local shor	including utilities and existing rail lines.	possible	2	Low			unlikely	2	Low	
Filed and contract in fixed and whether an experimental in the city place with by MTD, or of the community week. It was a second contract of the community week. The community week. The community week. The community week is the contract of the community week. The community week is the contract of the c					·					·
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managed factories repositions, restarting is coase Proceedings Proceedings Procedings P										
to dist controll year with the control of the contr		possible	3	Medium		with these risks and nazarus during the proposed works. These plans include:	unlikely	1	Low	
Restriction to popular stally to more amore transcribed and incomplication and control programs of a stall by catally from and control programs of a stall by catally from any						Social Impact Management Plan (E100)	,			
Community as insent of traffic resistance and way in research from the control of										
stating at long Longstages. Fig. 1 Sept.			_					(. /		
Discrepancy processing from anti- possible of a bit in mission of anti- possible of anti- possible of a bit in mission of anti- possible of a bit		likely	2	Medium			unlikely	1 /	Low	
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temporary construction workforce. The process of t								1 /		
Reduction de sources community services and found from the process of community complaints. Unable of the community complaints. Unable of the process of community com		possible	3	Medium		- Hallie & Hallsport Access Management Flan (C21).	unlikely	1 /	Low	
Including due to increased dismard from the construction workforce. Possible 4 High	1 /					Other key items include (but not limited to):				
Contraction workforce. Should the TWAC not be agronous price to write on synthetic personal price of some account of the process of all the pro								(/		
Imposed access across the nat accretion for emergency services, specially during time and emergency services, specially during time of possible of high building in Ris. The winds can demonstrate the national particulation of the proposal		possible	4	High			unlikely	2	Low	
Implication access a decision for first control for a control for the proposal primary implication access and a control for the proposal primary implication access and an experimental primary improvemental primary implication access and an experimental primary improvemental										
Community Complaints, unageroved access to private process and access and acquaining of second-economic impacts and mitigation measures will be included in the alie induction, toolbox talks and precipitation of the process and access and process of the process and access and process of the process and access of the process are access of the process of the proces								(/		
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Refer to the Project Workplace Risk Assessment (WRA) for health and safety risks and miligation.										
	Health and Safety									

JHG PROJEC	T RATING MATRIX				CONSEQUEN	NCE - RISK		
			RATING	1	2	3	4	5
JH-APP-RCC-003-02 Project Risk and Opportunity Rating Matrix			Workplace Health and Safety	* First aid injury, and/or * Minor safe working issues	* Medical treatment, and/or * Moderate safe working breach likely to impact on operations	* Serious medical / hospital treatment resulting in need alternate working or resulting in lost time injury, and/or * Significant safe working breach with actual impact on operations	* Serious or permanent Injury, and/or * Significant safe working beach with immediate impact on operations on one or more worksites	* 1 or more fatalities, and/or * Major breach of safe working with immediate and extensive impact on one or more worksites
			Budget (\$AUD)	<\$ <enter> (<1%) over project budget</enter>	\$ <enter> to \$<enter> (1% to 5%) over project budget</enter></enter>	\$ <enter> to \$<enter> (3% to 5%) over project budget</enter></enter>	\$ <enter> to \$<enter> (5% to 10%) over project budget</enter></enter>	>\$ <enter> (>10%) over project budget</enter>
			Time Schedule (Target Program)	< <enter> days / weeks / months (<1% of program) over the critical path program</enter>	<pre><enter> to <enter> days / weeks / months (1% to 2% of program) over the critical path program</enter></enter></pre>	<pre><enter> to <enter> days / weeks / months (2% to 3% of program) over the critical path program</enter></enter></pre>	<pre><enter> to <enter> days / weeks / months (3% to 5% of program) over the critical path program</enter></enter></pre>	> <enter> days / weeks / months (>5% program) over the critical path program</enter>
			Environment & Natural Resources	* Low severity environmental impact(s) or impact on natural resources availablity that are promptly reversible and affected area is within the site boundary	* Nuisance or low severity environmental impact(s) or impact on natural resources availability that are promptly reversible and affected area is outside the site boundary	* Moderate severity environmental impact(s) or impact on natural resources availability where the affected area is within the site boundary	Moderate severity environmental impact(s) or impact on natural resources availablity where the affected area is outside the site boundary	High severity environmental impact(s) or impact on natural resources availablity at local scale significance
			Quality	* Rework Costs less than or equal to 20K	* Rework Costs less than or equal to 100K but greater than 20K	* Rework Costs less than or equal to 250K but greater than 100K	* Rework Costs less than or equal to 5% contract value but greater than 250K	Rework Costs greater than 5% of contract value
			Reputation / Community / Media	* Public concern restricted to local complaints * Lack of contribution to the community	Minor, adverse local public or media attention and complaints Employees warned only Minor change in community amenity values	* Attention from media and/ or heightened concern by local community * Stakeholder action will disrupt planned project activities * Disciplinary action may be taken * Temporary reduced community access to services or employment	* Significant adverse national media / public / NGO attention * Considerable and prolonged adverse community impact and dissatisfaction publicity expressed * Stakeholder action will delay achievement of major elements of the Project * Permanently reduced community access to services or employment	* Serious public or media outcry with international coverage * Significant adverse community impact & condemnation * Stakeholder action will prevent achievemer of the project objectives * Reduced cohesion of community
			Governance / Legal / Regulatory	* Very minor technical breach of regulation or policy or code of ethics. No fine / penalty	* Minor legal issues, non-compliances and breaches of regulation, policy or code of ethics * Enforceable Undertaking	* Moderate breach of regulation, policy or code with investigation or report to authority * Moderate legal proceedings initiated * Several Improvement Notices	* Significant breach of regulation, policy or code with fine or other regulatory action. Significant litigation / legal action * Shut down of part of a project due to regulatory breach * Prohibition Notice	* Major breach of regulation, policy or code with fine * Major litigation * Major investigation by regulatory body * Prosecution / Accreditation loss
			Management Impact	* Impact of event absorbed through normal activity	* Will require some local management attention over several days	Significant event that can be managed with careful attention, will take some project managers much time for several weeks Local operation of contingency plan	* Major event that requires the implementation of crisis and contingency plans at a project level, regional area or support function (DRP) * Will require the involvement of senior managers and will take up the time of project managers for several weeks	* Critical event or disaster with significant impact on John Holland that requires considerable senior management time to handle over several months * Full implementation of an John Holland's crisis management plan for days to weeks
		_			CONSEQ	UENCE		
PROBABILITY OR CHANCE	QUALITATIVE RECURRENCE ASSESSMENT TIMEFRAME		RATING	Not significant	Minor	Moderate	Major	Extreme
≥ 90%	Almost certain to occur during the project / contract life Less than "Monthly"		ALMOST CERTAIN	Medium	Medium	High	Very High	Very High
51% to 89%	Considered likely to occur during the project / contract life "Monthly" to "Yearly"		LIKELY	Low	Medium	High	Very High	Very High
30% to 50%	Considered a possible occurrence during the project / contract life Between 2 and 5 years	LIKELIHOOD	POSSIBLE	Low	Low	Medium	High	High
5% to 29%	Considered unlikely to occur during the project / contract life] Ä	UNLIKELY	Low	Low	Low	Medium	High
< 5%	Considered a rare occurrence to happen during the project / contract years		RARE/REMOTE	Low	Low	Low	Low	Medium

CONTROL EFFECTIVENESS	GUIDANCE
Satisfactory	Nothing more to be done except review and monitor the current controls. To the extent that is reasonably achievable, controls are well designed for the risk (i.e.
Improving	Controls are designed correctly, are in place and operating reasonably effectively. Some minor/ isolated exceptions may exist, however do not represent a systematic weakness in operating effectiveness. Some more work to be done to improve the overall
Partial	While the design of controls may be largely correct in that they treat most of the root causes of the risk,
Poor	Significant control gaps. Either controls do not treat root causes or they do not operate at all effectively. Controls, if they exist are just reactive rather than proactive.
Nil	Virtually no credible control. Management has no confidence that any degree of control is being achieved due to poor control design and/or very limited operational effectiveness.

Residual risk / opp Rating	Suggested action	Timing of status report and management plans	Authority to accept or tolerate risk.		
	Take action to eliminate or implement additional controls to reduce it to acceptable level (ALARP/SFAIRP).	Notify as soon as practicable, normally with 24 hours.	John Holland CEO / COO		
A	"WHS / Environmental risks" the task or activity must not	Manage and re-evaluate risk / opportunity to allow Business Unit reporting monthly			
	be performed. An alternative solution must be found.	Notify John Holland's relevant Board Committee and CEO / CFO			
	Implement additional controls to reduce it to ALARP/SFAIRP.	Notify as soon as practicable, normally within 72 hours.	John Holland Regional Gen Mgr or Corporate EGM / CFO as appropriate.		
В	"WHS / Environmental risks - The activity or task must not be performed without the explicit concurrence of the	Manage and re-evaluate risk / opportunity to allow project reporting monthly	EGM, Project Director		
		Notify COO / Business Group EGM / CFO			
С	Implement additional controls reduce it to ALARP/SFAIRP where it is cost-effective to do so.	Manage and re-evaluate risk / opportunity to allow	John Holland Operational / Construction / Project		
· ·	"Onsite activities" – must not commence without Site Management review	project reporting monthly	Manager / Director		
D	Implement additional controls to reduce to ALARP / SFAIRP (may be tolerable).	Manage and re-evaluate risk / opportunity to allow project reporting monthly	John Holland Team Leader		
Е	Lower priority (likely to be tolerable).	Monitor, manage and carryout activity in accordance with identified controls	John Holland Supervisor		

Hierarchy of Controls

