

## Construction Environment Management Plan Narrabri to North Star (N2NS)

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### **Document Control**

REPORT TITLE	CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (NARRABRI TO NORTH STAR)
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CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

## **Table of Contents**

1	Glossary	5
2	2 Compliance Matrix	7
3	3 Introduction	
	3.1 CEMP Purpose and Scope	
	3.2 Objectives and Targets	
	3.3 Environment and Sustainability Policy	
4	Project Description	25
Ċ	4.1 Scope of Works	
	4.1.1 Ancillary Facilities	
	4.1.2 Construction activities	
	4.2 Construction Schedule	
	4.3 General Changes to the Project	
5	5 CEMP Consultation and Stakeholder Engagement	
6	S Legal and Compliance Requirements	
	6.1 Legal and Other Requirements	
	6.1.1 Exemptions	
	6.2 Environment Protection Licence	
	6.2.1 Environment Protection Licence - Relinquishment Process	
	6.3 Environmental Management Plan Guideline	
	6.4 Approvals, Permits and Licences	
	6.4.1 Construction Ancillary Facilities	
	6.4.2 Minor Ancillary Facilities	
7		
	7.1 Environmental Risk Assessment Register	
	7.2 Risk and Hazard Management Approach	
8		
	8.1 Inland Rail Environmental Management System	
	8.1.1 Operating Platforms	
	8.1.2 Workplace Risk Assessment	
	8.1.3 Activity Method Statement	
	8.1.4 Environmental Control Maps	
	8.1.5 Task Risk Assessment	
	8.1.6 Site Environmental Plan	
	8.1.7 N2NS Environmental Flagging Protocol	
	8.2 Relationship between this CEMP and other EMS documents	
	8.3 Construction Environmental Management Plan	
	8.4 Key Environmental Management Roles and Responsibilities	
	<ul><li>8.4.1 Management Structure Responsibility</li><li>8.4.2 Projects Contacts</li></ul>	
	8.4.3 Specialists and other environmental resources	
	8.4.4 Subcontractors and suppliers	
	8.5 Competence, Training and Awareness	
	8.5.1 Environmental induction	

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

		8.5.2 Toolbox Talks, Training and Awareness	
		8.5.3 Daily pre-start meetings	
	8.6	Hold Points	
	8.7	Environmental Management Measures	
		8.7.1 Traffic, Transport and Access	
		8.7.2 Soil and Water Quality	
		8.7.3 Biodiversity	
		8.7.4 Noise and Vibration	
		8.7.5 Aboriginal and non-Aboriginal Heritage	
		8.7.6 Waste and Resource Recovery	
		8.7.7 Air Quality and Dust	
	8.8	Environmental and Sustainability Inspections	57
	8.9	Monitoring Programs	57
		8.9.1 Compliance Monitoring and Reporting	
		8.9.2 Other Monitoring and Reporting	
	8.10	) Environmental Auditing	
		8.10.1 Internal Audits	
		8.10.2 Independent Audits	
	8.11	Environmental Management Procedures, Forms and Other Documents	
		8.11.1 Documentation	63
9	Con	nmunication and Complaints Management	
	9.1	Communication	
	9.2	Internal Communication	
	9.3	External Communication	
	9.4	Project Website	
	9.5	Complaint Management	
10	Inci	dents, Emergencies and Non-Conformity	66
10			
		Incident and Emergency Response Plan	
	10.2	2 External Reporting	
		10.2.1 State Approval Requirements SSI 7474 10.2.2 Incident reporting – Federal Approval Requirements EPBC 2016/7729	
	10.0	10.2.3 Other requirements	
	10.3	3 Non-Conformance Events	
11	Sus	tainability Requirements	69
	11.1	Introduction	
	11.2	2 Sustainability Integration	70
	11.3	3 Objectives	70
	11.4	Documentation	72
12		/IP Review and Revision Process	70
12			
	12.1	Continuous Improvement	

## **Appendices**

Appendix A Compliance Matrix Tables and Legal Register	74
Appendix B Inland Rail's Environment and Sustainability Policy	99
Appendix C Project Location and Key Features	. 101

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN	
Appendix D Environmental Risk Assessment	
Appendix E Inland Rail Integrated Management System	
Appendix F Inland Rail Environment Incident Severity Classification (RL-GL-001)	
Appendix G Environmental Control Maps (IFC)	
Appendix H Additional Mitigation Measures (Specific to the Site Establishment Management Plan	ı) 110
Appendix I Environmental Dashboard (Example)	
Appendix J Summary of Environmental Constraints, Aspects and Impacts	
Appendix K Inland Rail Organisational Chart	
Appendix L Minor Ancillary Facility Assessment (Template)	
Appendix M N2NS Project Environmental Flagging Protocol	

## List of figures

Figure 1: Project Location	
Figure 2: Hierarchy of EMS elements 41	

### List of tables

Table 1 : Glossary	5
Table 1 : Glossary         Table 2: EPBC2016/7729 - Conditions of Approval	7
Table 3: SSI 7474 - Conditions of Approval	9
Table 4: Revised Mitigation Measures	
Table 5: Performance outcomes	17
Table 6: Guideline for the preparation of EMPs requirements	21
Table 7: Environmental Management System Objectives and Targets	24
Table 8: Construction activities	28
Table 9: Consultation Undertaken for Management Plans	32
Table 10: Potential Additional Approvals	36
Table 11: Summary of initial environmental risk assessment	
Table 12: Sub-Plans and Construction Monitoring Programs	
Table 13: Environmental Management Roles and Responsibilities	47
Table 15: (SSI 7474) CoA's Hold Points	53
Table 16: Hold Points	54
Table 17: Inspection Schedule	
Table 18: Compliance Monitoring and Reporting requirements	58
Table 19: Inland Rail's other monitoring and reporting programs on the Project	61
Table 21: Sustainability Objectives Champions	70
Table 22: Inland Rail sustainability objectives and indicative targets	71

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### 1 Glossary

Specific terms and acronyms used throughout this strategy are listed and described in the table below.

#### Table 1 : Glossary

ACRONYM	DEFINITION
AMS	Activity Method Statement
ARTC	Australian Rail Track Corporation
BMP	Biodiversity Management Plan
CAD	Computer-Aided Design
CAF	Construction Ancillary Facility
CEMP	Construction Environmental Management Plan
CIZ	Construction Impact Zone
СоА	Conditions of Approval
CSEMP	Community and Stakeholder Engagement Management Plan
CSSI	Critical State Significant Infrastructure
CPESC	Certified Professional in Erosion and Sediment Control
DMS	Document Management System
DPHI	Department of Panning, Housing and Infrastructure
DPIE	Department of Planning Industry and Environment
ECM	Environmental Control Map
EIS	Environmental Impact Statement
EMS	Environmental Management System
EPA	Environmental Protection Authority
EPBC Act	Federal Environmental Protection and Biodiversity Conservation Act (1999)
EPL	Environment Protection Licence
EP&A Act	NSW Environmental Planning and Assessment Act (1979)
ESCP	Erosion and Sediment Control Plan
ER	Environmental Representative
FEMP	Flood Emergency Management Plan
FERP	Flood Emergency Response Plan
GIS	Geographic Information System
HMP	Heritage Management Plan
HSEQS	Health, Safety, Environment, Quality and Sustainability
IMS	Integrated Management System

Incident	The SSI 7474 Approval defines an "incident" as an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a noncompliance.		
IR	Inland Rail		
ISCA	Infrastructure Sustainability Council of Australia		
MAF	Minor Ancillary Facility		
Material Environment Harm	<ul> <li>"Material harm" is defined in the approval as "harm that:</li> <li>involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or</li> <li>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)."</li> </ul>		
N2NS	Narrabri to North Star (Separable Portion 1)		
ΝΑΤΑ	National Association of Testing Authorities, Australia		
Non-Compliance	An occurrence, set of circumstances or development that is a breach of the approval but is not an incident.		
Non-conformance	A non-conformance is a failure to comply with a requirement, standard or procedure detailed within the CEMP or associated document, that does not constitute a non-compliance or an incident.		
NVMP	Noise and Vibration Management Sub-Plan		
REF	Review of Environmental Factors		
REMM	Revised Environmental Management Measure		
RTS	Response to Submissions		
SEARs	Secretary's Environmental Assessment Requirements		
SEMP	Site Establishment Management Plan		
SPIR	Submissions Preferred Infrastructure Report		
SSI 7474	State Significant Infrastructure Approval as approved by the Minister for Planning and Public Spaces under Section 5.19 of the Environmental Planning and Assessment Act 1979		
SuMP	Sustainability Management Plan		
SWMP	Soil and Water Management Plan		
SWMS	Safe Work Method Statement		
TRA	Task Risk Assessment		
TTAMP	Traffic, Transport and Access Management Plan		
TfNSW	Transport for NSW		
WRA	Workplace Risk Assessment		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### 2 Compliance Matrix

Tables 1 - 4 provide a list of the compliance requirements specific to the preparation of the CEMP and where these requirements have been addressed in the document. A comprehensive list of all compliance requirements with some relevance to the CEMP have been provided in Appendix A.

CONDITION RFERENCE	REQUIREMENTS	WHERE ADDRESSED		
PART A CONDITIONS SPECIFIC TO				
C1(a)	Implement conditions C4 and C9 of Part C, Schedule 2 of the State Infrastructure approval of where they relate to monitoring, managing, avoiding, mitigating, offsetting, recording or reporting on, impacts to protected matters, with the exception of C9(a)	This CEMP and sub-Plans		
1(b)	Ensure that the Weed Management Plan included in the Biodiversity Sub plan required under condition C9 of Part C, Schedule 2 of the State Infrastructure approval, includes appropriate weed control measures to prevent the introduction and/or spread of weeds from construction areas to any retained area of Belsons Panic (Homopholis belsonii), Natural Grassland on Basalt and Fine Textured Alluvial Plains of Northern New South Wales and Southern Queensland, Brigalow (Acacia harpophylla dominant and co dominant) and Weeping Myall Woodlands ecological communities.	BMP		
1(c)	Implement biodiversity conditions E17-E21 and E23-E26 of Part E Schedule 2 of the State Infrastructure approval, where they relate to monitoring, managing, minimising, reducing, avoiding, mitigating, offsetting, recording, or reporting on, impacts to protected matters.	This CEMP and BMP		
PART B- STANDARD ADMINISTRAT	PART B- STANDARD ADMINISTRATIVE CONDITIONS			
4	The approval holder must maintain accurate and complete compliance records.	CEMP (Section 8.11)		
5	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the	This CEMP and BMP		

#### Table 2: EPBC2016/7729 - Conditions of Approval

	Department within the timeframe specified in the request.					
ANNUAL COMPLIANCE REPORTING						
6	The approval holder must prepare a compliance report for each 12 month period following the date of commencement of the action, or otherwise in accordance with the annual date that has been agreed with in writing by the Minister. The approval holder must: a) Publish each compliance report on the website within 60 business days following the relevant 12 month period; b) Notify the Department by email that a compliance report has been published on the website and provide the weblink for the compliance report within five business days of the date of publication; c) Keep all compliance reports publicly available on the website until this approval expires;	CEMP (Section 8.9.1)				
REPORTING NON-COMPLIANCE						
7	<ul> <li>The approval holder must notify the Department in writing of any: incident, non-compliance with the conditions of this approval; or non-compliance with the commitments made in any element of the Construction Environmental Management Plan, (required under Part C- State Infrastructure approval) referred to in condition 1. The notification must be given as soon as practicable, and not later than two business days after becoming aware of the incident or non-compliance. The notification must specify:</li> <li>a) Any condition which is or may be in breach;</li> <li>b) A short description of the incident and/or non-compliance; and</li> <li>c) The location (including coordinates), date and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.</li> </ul>	CEMP (Section 9 and 10.2)				
8	The approval holder must provide to the Department the details of any incident or non-compliance with the conditions of this approval or	CEMP (Section 10.2)				

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

commitments made in any element of the Construction Environmental Management Plan (required under Part C, Schedule 2 of the State Infrastructure approval) referred to in condition 1 as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying:	
<ul> <li>(a) Any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;</li> <li>(b) The potential impacts of the incident or non-compliance and;</li> <li>(c) The method and timing of any remedial action that will be undertaken by the approval holder.</li> </ul>	

#### Table 3: SSI 7474 - Conditions of Approval

CONDITION REFERENCE	DETAILS	WHERE ADDRESSED
A1	The CSSI may only be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in the Inland Rail – Narrabri to North Star Environmental Impact Statement, Volumes 1-7 (prepared by GHD and dated November 2017), the Inland Rail – Narrabri to North Star Submissions Preferred Infrastructure Report (ARTC, dated December 2019) and (updated BDAR, RtS on the SPIR and RFI responses).	CEMP (Sections 3 and 4)
A2	The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents listed in Condition A1 unless otherwise specified in, or required under, this approval.	CEMP (Section 3.1)
A3	In the event of an inconsistency between the documents listed in Condition A1 or any other document required under this approval, and a term of this approval, the term of this approval prevails to the extent of the inconsistency. Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	CEMP (Section 3.1)
A4	<ul> <li>The Proponent must comply with the written requirements or directions of the Planning Secretary, including in relation to:</li> <li>a) the environmental performance of the CSSI.</li> <li>b) any document or correspondence under the terms of this approval in relation to the CSSI (including the provision of such documentation or correspondence)</li> </ul>	This CEMP and Sub-Plans

	<ul> <li>c) any independent appointment or dismissal made in relation to the CSSI.</li> <li>d) any notification given to the Planning Secretary under the terms of this approval.</li> <li>e) any audit of the construction or operation of the CSSI.</li> <li>f) the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval).</li> <li>g) the carrying out of any additional monitoring or mitigation measures; and</li> <li>h) in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard, or policy required to be complied with under this approval</li> </ul>	
A5	<ul> <li>Where the terms of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary in accordance with the Department's Post Approval Guidance: Defining Engagement Terms (DPIE, 2020). The evidence must include:</li> <li>(a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval.</li> <li>(b) log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them.</li> <li>(c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations.</li> <li>(d) outline of the issues raised by the identified party and how they have been addressed; and</li> <li>(e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.</li> </ul>	CEMP (Section 3), subPlans, Communication Strategy and CSEMP NOTE: The Communication Strategy as required under CoA B1 and B2 has been prepared by ARTC. The Communication and Stakeholder Engagement Management Plan (CSEMP) has been prepared by Inland Rail and aligns with the requirements of ARTC's Communication Strategy
A6	Any document that must be submitted, or approval that must be obtained, within a timeframe specified in or under the conditions of this approval may be submitted within a later timeframe agreed with the Planning Secretary. This condition does not apply to the immediate written notification required in respect of an incident under Condition A41. The Proponent must provide supporting evidence so that the Secretary can consider the need, environmental impacts, and consistency of any request. Note: Inaction and/or expedience will not be supported as justifications for need unless it can be demonstrated that there are beneficial environmental impacts associated with the request	Noted
Α7	References in the terms of this approval to any guideline, protocol, Australian Standard, or policy are to such guidelines, protocols, Standards, or policies in the form they are in as at the date of this approval.	Noted

A8	This approval lapses five (5) years after the date on which it is granted, unless works for the purpose of the CSSI are physically commenced on or before that date.	Noted
A18	The operation of an ancillary facility for construction must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition 0 and relevant Construction Monitoring Programs required by Condition C14 have been approved by the Planning Secretary. This condition does not apply to Condition A21.	SEMP (Section 8.3)
A31	Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Requirements outlined in the Compliance Reporting Post Approval Requirements (2020).	CEMP (Section 8.9.1)
A32	Compliance Reports must be submitted to the Department in accordance with the timeframes set out in the Compliance Reporting Post Approval Requirements (2020), unless otherwise agreed by the Planning Secretary.	CEMP (Section 8.9.1)
A33	The Applicant must make each Compliance Report publicly available 60 days after submitting it to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	CEMP (Section 8.9.1)
A34	Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (2020), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an operational compliance report has demonstrated operational compliance.	CEMP (Section 8.9.1)
A41	During construction, DPIE must be notified in writing immediately after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one), and set out the time, date, location and nature of the incident. A description of whether the incident was a result of any actual or potential non-compliance with this approval should be provided within one week of the notification. The requirement to notify DPIE under this condition excludes incidents which are required to be notified to the Office of the National Rail Safety Regulator. Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix B – WRITTEN INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS.	CEMP (Section 10.2 and 10.3)
C1	A Construction Environmental Management Plan (CEMP) must be prepared in accordance with the Department's Environmental Management Plan Guideline for Infrastructure Projects (DPIE, 2020) to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during all stages of construction.	This plan.
C2	The CEMP must provide:	

	) a description of activities to be undertaken during construction (including the scheduling of construction);	CEMP (Section 4)
	) details of environmental policies, guidelines and principles to be followed in the construction of the SSI;	CEMP (Sections 3 and 8 and Appendix B)
	) a program for ongoing analysis of the key environmental risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of construction of the SSI;	CEMP (Sections 7 and 12 and Appendix D)
i	<ul> <li>details of how the activities described in subsection</li> <li>(a) of this condition will be carried out to: meet the performance outcomes stated in the documents listed in Condition A1; and</li> </ul>	CEMP (Section 8)
i	. manage the risks identified in the risk analysis undertaken in subsection (d) of this condition;	CEMP (Sections 7 and 8 and Appendix D)
	) an inspection program detailing the activities to be inspected and frequency of inspections;	CEMP (Section 8.8)
i	incidents; and	CEMP (Section 10.2 and 10.3)
	) procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time during construction;	CEMP (Section 10.2 and 10.3)
1	) a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C4. Where staged construction of the SSI is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction;	CEMP (Sections 6 and 8)
i	a description of the roles and environmental responsibilities for relevant employees and their relationship with the ER;	CEMP (Section 8.4)
j	for training and induction for employees, including contractors and sub-contractors, in relation to environmental and compliance obligations under the terms of this approval;	CEMP (Section 8.5)
	) for periodic review and update of the CEMP and all associated plans and programs; and	CEMP (Section 12)

	<ol> <li>relevant details from the Site Establishment Management Plan(s).</li> </ol>			CEMP (Appendix H)	
C3	the Secret the comm staged, no	he CEMP must be endorsed by the ER and then submitted to ne Secretary for approval no later than one (1) month before ne commencement of construction or where construction is taged, no later than one (1) month before the commencement f that stage.			Appendix A
C4	consultation relevant consultation consultation consultation relevant consultation	ving CEMP Sub-plans r on with the relevant gov ouncils identified for ea t with the CEMP referre	vernment ich CEMF	agencies and 9 Sub-plan and be	CEMP (Section 3) & relevant sub-Plans
		REQUIRED CEMP SUB-PLAN		ANT INMENT RITIES TO BE ILTED FOR EACH SUB-PLAN	
	(A)	Traffic, Transport and access	TfNSW councils	and relevant	
	(B)	Noise and Vibration	Relevar	nt councils	
	(C)	Biodiversity	EES, D. councils	AWE and relevant	
	(D)	Soil and Water		nt councils, Water and EES	
	(E)	Heritage		eritage, RAPs and councils	
	(F)	Flood Emergency Management	SES, El councils	ES and relevant	
C13	Construction must not commence until the CEMP and all CEMP Subplans have been approved by the Secretary. The CEMP and CEMP Subplans, as approved by the Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where the CSSI is being staged, construction of that stage is not to commence until the relevant CEMP and sub-plans have been endorsed by the ER and approved by the Secretary.			CEMP (Section 8.3)	
C14	prepared i agencies a Monitoring constructio	ving Construction Monitoring Programs must be in consultation with the relevant government and relevant councils identified for the Construction g Programs to compare actual performance of on of the CSSI against performance predicted in the s specified in Condition A1.		CEMP (Section 8.3) & relevant sub-Plans Noise and Vibration Monitoring Program (Appendix E of the Construction Noise and	
		REQUIRED CONSTRU		RELEVANT GOVERNMENT AUTHORITIES TO BE CONSULTED FOR EACH	Vibration Management sub- Plan) Water Usage Monitoring Program (Section 7.2 of the Construction Soil and Water Management sub-Plan)

	(A)	Noise and vibration	Nil	Air Quality Monitoring
	(B)	Water usage	Water Group	Program (Appendix D of Construction Soil and Water
	(C)	Air Quality	Nil	Management sub-Plan)
	(D)	Physical condition of local roads	Relevant councils	Local Road Condition Monitoring Program (Section
				11 of the Construction Traffic, Transport and Access Management sub-Plan)
C18	has app Progran	ction must not commence until the roved all of the required Construc ns, and all relevant baseline data f ction activity has been collected.	tion Monitoring	CEMP (Sections 8.3 and 8.9)
C19	The Construction Monitoring Programs, as approved by the			CEMP (Section 8.9) & relevant sub-plans
C20	The results of the Construction Monitoring Programs must be submitted to the Planning Secretary, and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program. Note: Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan.			CEMP (Section 8.9) & relevant sub-plans
E87	<ul> <li>Waste generated during construction and operation is to be dealt with in accordance with the following priorities:</li> <li>(a) waste generation is to be avoided and where avoidance is not reasonably practicable, waste generation is to be reduced;</li> <li>(b) where avoiding or reducing waste is not possible, waste is to be re-used, recycled, or recovered in accordance with the requirements of the Protection of the Environment Operations Act 1997 and its regulations; and</li> <li>(c) where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility or premise lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.</li> </ul>		CEMP (Section 8.7.6 & Appendix G)	
E88	The importation of waste and the storage, treatment, process, reprocessing or disposal of such waste must comply with the conditions of the current EPL for the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, as the case may be.			CEMP (Appendix G)
E89	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the			CEMP (Section 8.7.6 & Appendix G)

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste. Note: Notice must be given to the relevant site/s as soon as possible, and no more than 14 days before the proposed waste disposal.	
E90	All waste generated during construction and operation must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes.	CEMP (Appendix G)

#### **Table 4: Revised Mitigation Measures**

CONDITION REFERENCE	DETAILS	WHERE ADDRESSED
C1.1	Construction of the preferred infrastructure would be undertaken in accordance with the approved CEMP.	CEMP (Section 3)
C2.1	A traffic, transport and access management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for impacts on the community and the operation of the surrounding road and transport environment. It would address all the aspects of construction relating to the movement of vehicles, pedestrians and cyclists, and the operation of the surrounding road network, including: construction site traffic control, parking and access arrangements construction material, equipment and spoil haulage, including arrangements for oversize vehicles road pavement and access road condition management management of impacts to public transport, including school buses, pedestrian and cyclist access, and safety management of impacts to access for surrounding residents and business owners/operators arrangements for level crossings during construction road and driver safety. The traffic, transport and access management sub-plan would be developed in consultation with (where relevant) Narrabri Shire Council, Moree Plains Shire Council, Gwydir Shire Council, Roads and Maritime Services, and public transport/bus operators.	Construction Traffic, Transport and Access Management sub-Plan
C3.1	A biodiversity management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for biodiversity impacts. The sub-plan would address, as outlined below: a pre-clearing survey and tree-felling procedure procedures to manage micro-bats avoiding impacts on surrounding vegetation (item C3.2) weed management (item C3.3) dewatering of standing pools in watercourses measure to minimise impacts on aquatic ecology	Construction Biodiversity Management sub-Plan
C4.1	The Inland Rail NSW Construction Noise and Vibration Management Framework (provided in Appendix J) would be implemented, and the preferred infrastructure	Construction Noise and Vibration sub- Plan

	proposal would be constructed, with the aim of achieving the construction noise management levels and vibration criteria identified by the noise and vibration assessment. All feasible and reasonable noise and vibration mitigation measures would be implemented. Any activities that could exceed the construction noise management levels and vibration criteria would be identified and managed in accordance with the Inland Rail NSW Construction Noise and Vibration Management Framework and the CEMP. Notification of impacts would be undertaken in accordance with the communication management plan for the preferred infrastructure proposal.	
C5.1	An air quality management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for air quality impacts on the local community and environment, and would address all aspects of construction, including: spoil handling machinery operating procedures soil treatments stockpile management haulage dust suppression monitoring.	Construction Soil and Water Management sub-Plan
C6.1	<ul> <li>A soil and water management sub-plan would be prepared as part of the CEMP. It would include a detailed list of measures that would be implemented during construction to minimise the potential for soil and contamination impacts, including: <ul> <li>allocation of general site practices and responsibilities - material management practices</li> <li>stockpiling and topsoil management, including prompt stabilisation of spoil mounds (for example, through mixing of gypsum)</li> <li>surface water and erosion control practices that take into account site specific soil types (for example, dispersive soils).</li> </ul> </li> </ul>	Construction Soil and Water Management sub-Plan
C6.2	<ul> <li>A contamination and hazardous materials sub-plan would be prepared and implemented as part of the CEMP. It would include:</li> <li>measures to minimise the potential for contamination impacts on the local community, workers, and environment</li> <li>procedures for incident management and managing unexpected contamination finds (an unexpected finds protocol).</li> </ul>	Construction Soil and Water Management sub-Plan
D1.1	A CEMP would be prepared to detail the approach to environmental management during construction, as described in section 27.2 of the EIS, and in accordance with the conditions of approval.	This Plan
D8.7	An unexpected finds procedure would be developed and included in the CEMP to provide a consistent	Construction Heritage Management sub-Plan

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	method for managing any unexpected Aboriginal heritage items discovered during construction, including potential heritage items or objects, and human skeletal remains.	
D9.5	An unexpected finds procedure would be developed and included in the CEMP to provide a consistent method for managing any unexpected heritage items or human skeletal remains discovered during construction.	Construction Heritage Management sub-Plan

#### Table 5: Performance outcomes

KEY ISSUE (AS LISTED IN THE SEARS)	SEARS DESIRED PERFORMANCE OUTCOMES	PROPOSAL SPECIFIC CONSTRUCTION ENVIRONMENTAL PERFORMANCE OUTCOMES	WHERE ADDRESSED
5 Air Quality	The project is designed, constructed and operated in a manner that minimises air quality impacts (including nuisance dust and odour) to minimise risks to human health and the environment to the greatest extent practicable.	<ul> <li>The proposal is constructed and operated in accordance with the requirements of the POEO Act and relevant environmental protection licences.</li> <li>Dust generated during construction will not exceed the relevant criteria in the National Environment Protection (Ambient Air Quality) Measure and the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (Department of Environment and Conservation, 2005).</li> </ul>	Construction Soil and Water Management sub- Plan Air Quality Monitoring Program (Appendix D of Construction Soil and Water Management sub- Plan)
6 Biodiversity	Offsets and/or supplementary measures are assured which are equivalent to any remaining impacts of project construction and operation.	<ul> <li>Construction is undertaken in a manner that minimises the potential for adverse flooding impacts, through staging of works and the implementation of mitigation measures.</li> <li>The proposal makes a positive contribution to local flooding characteristics by replacing existing drainage infrastructure.</li> <li>Structures such as spoil mounds are designed and located such that flows are not significantly impeded.</li> <li>The proposal reduces the length of overtopping of the existing rail corridor.</li> <li>The proposal reduces or does not significantly</li> </ul>	Biodiversity Management sub-Plan NOTE: Offset requirements are detailed in ARTC's Biodiversity Offset Strategy for the project.

		increase the area subject to flooding.	
8 Flooding	The project minimises adverse impacts on existing flooding characteristics. Construction and operation of the project avoids or minimises the risk of, and adverse impacts from, infrastructure flooding, flooding hazards, or dam failure.	<ul> <li>Construction is undertaken in a manner that minimises the potential for adverse flooding impacts, through staging of works and the implementation of mitigation measures.</li> <li>The proposal makes a positive contribution to local flooding characteristics by replacing existing drainage infrastructure.</li> <li>Structures such as spoil mounds are designed and located such that flows are not significantly impeded.</li> <li>The proposal reduces the length of overtopping of the existing rail corridor.</li> <li>The proposal reduces or does not significantly increase the area subject to flooding.</li> </ul>	Flood Emergency Management sub-Plan
9 Health and Safety	The project avoids, to the greatest extent possible, risk to public safety.	<ul> <li>All dangerous goods are stored, handled and transported in accordance with relevant regulatory requirements and Australian Standards.</li> </ul>	Soil and Water Management sub-Plan
10 Heritage	The design, construction and operation of the project facilitates, to the greatest extent possible, the long- term protection, conservation and management of the heritage significance of items of environmental heritage and Aboriginal objects and places The design, construction and operation of the project avoids or minimises impacts, to the greatest extent possible, on the heritage significance of environmental heritage and Aboriginal objects and places.	<ul> <li>Impacts on heritage are managed in accordance with relevant legislation, including the EP&amp;A Act, the Heritage Act 1977, and relevant guidelines.</li> <li>The potential impacts identified are mitigated by photographic/archival recording.</li> </ul>	Heritage Management sub- Plan
11 Noise and vibration – amenity	Construction noise and vibration (including airborne noise, groundborne noise and blasting) are effectively managed to minimise	<ul> <li>The proposal minimises impacts to the local community by:</li> <li>controlling noise and vibration at the source</li> </ul>	Noise and Vibration Management sub-Plan

	adverse impacts on acoustic amenity	<ul> <li>controlling noise and vibration on the source to receiver transmission path</li> <li>controlling noise and vibration at the receiver</li> <li>implementing practicable and reasonable measures to minimise the noise and vibration impacts of construction activities on local sensitive receivers.</li> </ul>	
12 Noise and vibration – structural	Construction noise and vibration (including airborne noise, groundborne noise and blasting) are effectively managed to minimise adverse impacts on the structural integrity of buildings, items including Aboriginal places and environmental heritage, and nearby road infrastructure.	<ul> <li>The proposal minimises impacts to structures by:</li> <li>controlling vibration at the source</li> <li>controlling vibration on the source to receiver transmission path</li> <li>implementing practicable and reasonable measures to minimise vibration impacts of construction activities on structures.</li> </ul>	Noise and Vibration Management sub-Plan and Heritage Management sub- plan
15 Soils	The environmental values of land, including soils, subsoils and landforms, are protected. Risks arising from the disturbance and excavation of land and disposal of soil are minimised, including disturbance to acid sulfate soils and site contamination.	<ul> <li>Site-specific soil, subsoil and landform characteristics are taken into consideration during detailed design and construction.</li> <li>Any contamination is managed in accordance with relevant regulatory requirements.</li> <li>Any soil waste is assessed, classified, managed and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014).</li> </ul>	Soil and Water Management sub-Plan
17 Traffic, transport and access	Network connectivity, safety and efficiency of the transport system in the vicinity of the project are managed to minimise impacts. The safety of transport system customers is maintained. Impacts on network capacity and the level of service are effectively managed. Works are compatible with existing infrastructure and future transport corridors.	<ul> <li>The proposal provides for more efficient and productive freight rail operations.</li> <li>Impacts to traffic and transport are minimised.</li> <li>Motorist, pedestrian and cyclist safety will be maintained or improved.</li> <li>The proposal contributes to one of the desired outcomes of Inland Rail – to have reduced truck volumes on the road network, improving road safety.</li> <li>Safe access to properties is maintained.</li> </ul>	Construction Traffic, Transport and Access Management sub-Plan

		• The proposal is integrated with existing and future local and regional transport infrastructure and planning strategies	
18 Visual amenity	The project minimises adverse impacts on the visual amenity of the built and natural environment (including public open space) and capitalises on opportunities to improve visual amenity.	<ul> <li>Vegetation providing screening to the rail corridor is retained where practicable.</li> <li>The proposal is designed to have regard to the surrounding landscape and visual environment.</li> <li>The proposal incorporates features to minimise the potential visual impacts where visual receptors are concentrated.</li> <li>The proposal makes a positive contribution to the quality of the visual environment in the vicinity of the Newell Highway and Jones Avenue overbridges, and the new bridges over the Mehi and Gwydir rivers and Croppa Creek.</li> <li>The proposal is visually integrated with its surroundings.</li> </ul>	Soil and Water Management sub-Plan and Biodiversity Management sub-plan
19 Waste	All wastes generated during the construction and operation of the proposal are effectively stored, handled, treated, reused, recycled and/or disposed of lawfully, and in a manner that protects environmental values.	<ul> <li>Waste is managed in accordance with the POEO Act and the WARR Act.</li> <li>Waste is assessed, classified, managed, and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014).</li> <li>Reusable spoil is beneficially reused in accordance with the project spoil reuse hierarchy.</li> </ul>	Section 8.7.6 Appendix G - Waste and Resource Environmental Control Map
20 Water - hydrology	Long term impacts on surface water and groundwater hydrology (including drawdown, flow rates and volumes) are minimised. The environmental values of nearby, connected and affected water sources, groundwater and dependent ecological systems including estuarine and marine water (if applicable) are maintained (where values are	<ul> <li>The proposal avoids long term impacts to surface water.</li> <li>Opportunities to reuse water resources are considered during the design process.</li> <li>The use of water during construction is minimised</li> </ul>	Construction Soil and Water Management sub- Plan

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	achieved) or improved and maintained (where values are not achieved). Sustainable use of water resources.		
21 Water - quality	The project is designed, constructed and operated to protect the NSW Water Quality Objectives where they are currently being achieved, and contribute towards achievement of the Water Quality Objectives over time where they are currently not being achieved, including downstream of the project to the extent of the project impact including estuarine and marine waters (if applicable).	<ul> <li>The proposal is designed and constructed such that changes to water flows in watercourses are minimised.</li> <li>Water discharged does not exceed the ANZECC 2000 guidelines for protection of aquatic ecosystems or water quality trigger values.</li> <li>Impacts to water quality during construction and operation are minimised.</li> </ul>	Construction Soil and Water Management sub- Plan

#### Table 6: Guideline for the preparation of EMPs requirements

GUIDELINE SECTION	REQUIREMENT	YES/NO/NOT APPLICABLE	WHERE ADDRESSED
DOCUMENT PRE	PARATION AND ENDORSEMENT	•	
4.1	Has the EMP been prepared in consultation with all relevant stakeholders as per the requirements of the conditions of consent?	Yes	CEMP (Section 5) & relevant sub-plans.
4.1	Have the views of the relevant stakeholders been taken into consideration? Have appropriate amendments been made to the EMP and does the EMP clearly identify the location of any changes?	Yes	CEMP (Section 5) & relevant sub-plans.
4.2	Has the EMP been internally approved by an authorized representative of the proponent or contractor?	Yes	Document Control section at beginning of plan
VERSION AND C	ONTENT		
3.5.1	Does the EMP describe the proponent's Environmental Management System (EMS) (if any), and identify how the EMP relates to other documents required by the conditions of consent?	Yes	CEMP (Section 8)
3.1	Does the EMP include the required general content and version control information?	Yes	Document Control section at beginning of plan
3.2	Does the EMP have an introduction that describes the project, scope of works, site location and any staging or timing considerations?	Yes	CEMP (Section 4)
3.3	Does the EMP reference the project description?	Yes	CEMP (Section 4)
3.4	Does the EMP reference a Community and Stakeholder Engagement Plan (or similar) or include	Yes	CEMP (Section 9) and Communication Strategy

	community and stakeholder engagement actions (if required)?		
4	Have all other relevant approvals been identified? Has appropriate information been provided regarding how each approval is relevant?	Yes	CEMP (Section 6.4)
3.5.2	Has the environmental management structure and responsibilities been included?	Yes	CEMP (Section 8)
3.5.3	Does the EMP include processes for training of project personnel and identify how training and awareness needs will be identified?	Yes	CEMP (Section 8.5)
3.5.3	Does the EMP clearly identify the relevant legal and compliance requirements that relate to the EMP?	Yes	CEMP (Section 6 and Appendix A)
3.5.13	Does the EMP include all the conditions of consent to be addressed by the EMP and identify where in the EMP each requirement has been addressed?	Yes	CEMP (Section 1) and the Compliance Matrix (Appendix A)
3.5	Have all relevant guidelines, policies and standards been identified, including details of how they are relevant?	Yes	CEMP (Section 6 and Appendix A)
3.5.5	Is the process that will be adopted to identify and analyse the environmental risks included?	Yes	CEMP (Section 7 and 8)
3.5.7	Have all the environmental management measures in the EIA been directly reproduced into the EMP?	Yes	CEMP (Section 8.7) and relevant sub-plans and

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### 3 Introduction

Inland Rail is a once-in-a-generation program of infrastructure works which will, when completed, connect regional Australia to domestic and international markets, transforming the way freight is transported around the country. It will complete the 'spine' of the national freight network with a new 1,710 km freight line linking Melbourne and Brisbane via regional Victoria, New South Wales, and Queensland.

The Narrabri to North Star (Separable Portion 1) (N2NS) section of the Inland Rail Project. N2NS extends approximately 173km from north of Narrabri Junction, terminating at North Star, generally following the existing rail corridor.

### 3.1 CEMP Purpose and Scope

This Construction Environmental Management Plan (CEMP) has been developed for the construction of the Narrabri to North Star (Separable Portion 1) (N2NS) section of Inland Rail. It provides a centralised strategy through which all potential environmental impacts will be managed during construction and includes management measures to avoid or minimise potential impacts.

The CEMP will apply to all construction activities and Inland Rail's personnel, suppliers, contractors, subcontractors, consultants, and representatives whose scopes of work influence, contribute to or otherwise assist in delivering the N2NS.

Additionally, the CEMP outlines how Inland Rail will comply with all relevant regulatory requirements (including the NSW Minister for Planning's Conditions of Approval (CoA)), minimise environmental risks and achieve environmental outcomes on the Project by providing an integrated and structured approach to ensure appropriate revised environmental management measures (RMMs) (contained in the Submissions

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Preferred Infrastructure Report (SPIR)) and controls are implemented. CoAs A1 and A2 require the N2NS project to be constructed generally in accordance with the description of the project in the SPIR, Environmental Impact Statement (EIS) and the N2NS CoA and in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in these documents unless otherwise specified in, or required under, the CoAs.

This CEMP establishes a framework to achieve the requirements of CoA A1 and A2. RMM C1.1 also requires that construction of the N2NS project is undertaken in accordance with the approved CEMP and approved CEMP sub plans.

This Plan has been developed in accordance with the relevant requirements of:

- The CoA of SSI 7474;
- Environment Protection and Biodiversity Act (EPBC Act) Conditions;
- The Secretary's Environmental Assessment Requirement's (SEARs) Environmental Performance Outcomes (EPO);
- ARTC's Environmental Policy and Environment and Sustainability Policy;
- Appendix K (CEMP Outline) of the Narrabri to North Star Project Environmental Impact Statement (EIS);
- AS/NZS ISO 14001:2016 Environmental Management Systems;
- Environmental Management Plan Guideline: Guideline for Infrastructure Projects (Department of Planning, Industry and Environment, 2020); and
- Australian Rail Track Corporation's (ARTC) Environmental Management System (EMS).
- Inland Rail's Environmental Management System (EMS)

Relevant CoA and other approval requirements and where they have been addressed can be found in the Compliance Matrix Tables (Table 1 - 4). A comprehensive list of all compliance requirements with some relevance to the CEMP have been provided in Appendix A.

The purpose of this CEMP is to provide a structured approach to the management of environmental issues during construction of the project. Implementing this CEMP will ensure that Inland Rail, meet regulatory and approval requirements in a systematic manner.

This CEMP:

- Describes the project and activities to be undertaken;
- Describes the strategic framework for environmental management of the project;
- Defines Inland Rail's Environmental Policy and EMS;
- Identifies the approvals, licences and permits that relate to the project;
- Describes the roles and responsibilities of personnel in relation to environmental management;
- Describes the procedures that will be implemented for stakeholder consultation and notification and complaints management; and
- Outlines a monitoring regime for construction.

Construction personnel will be required to undertake works in accordance with this CEMP and the mitigation measures identified in the site-specific documents. Inland Rail will also comply with the written requirements or directions of the Planning Secretary as required by CoA A4.

In addition, this CEMP includes a range of sub-Plans. As required by CoA C4, the following sub-Plans have been prepared:

- Traffic, Transport and Access (TTAMP), also required by RMM C2.1;
- Noise and Vibration (NVMP);

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- Biodiversity (BMP), also required by RMM C3.1;
- Soil and Water (SWMP), also required by RMM C6.1;
- Heritage (HMP); and
- Flood Emergency Management (FEMP).

As specified in CoA C5, each sub-plan outlines:

- How the environmental performance outcomes identified in the EIS, SPIR and updated responses, as modified by CoA, will be achieved.
- How the mitigation measures identified in the EIS, SPIR and updated responses, as modified by these conditions will be implemented;
- How the relevant CoAs will be complied with; and
- How issues requiring management during construction (including coordination of concurrent activities of other projects as well as concurrent activities in this Critical State Significant Infrastructure (CSSI)), as identified through ongoing environmental risk analysis, will be managed.

This CEMP will be developed and implemented in compliance with the ARTC's Inland Rail Programme Environmental Management Plan (0-0000-900-PMP-00-PL-0009\_5). As noted in CoA A3, where there are any inconsistencies, the requirements set out in the CoA's take precedence.

### 3.2 Objectives and Targets

Environmental objectives and targets for construction of the N2NS have been established as a means of guiding environmental management of the project and assessing environmental performance. These objectives and targets have been developed with consideration of key issues identified through the environmental assessment and risk assessment process (see Section 7) as well as the CoAs and RMMs. The objectives and targets are consistent with Inland Rail's Environment and Sustainability Policy and will assist in monitoring whether the commitments of the policy are being met. Project wide objectives and targets are outlined in Table 7 and issue-specific objectives and targets are addressed in the respective subplans.

The performance of the Project will be monitored against the objectives and targets. Project performance monitoring will be documented in the Project construction compliance reports (see Section 8) and considered as part of the management review.

OBJECTIVE	TARGET	
Minimise potential impacts on the local and regional environment and the local community.	Any non-conformances, non-compliance/s or opportunities for improvement identified in internal or external audits and/or environmental inspections addressed within timeframes specified in Inland Rail's EMS.	
	All communication with and any complaints from local community members addressed within timeframes specified in Inland Rail's EMS.	
Foster a positive culture towards environmental management with all involved in the Rail team	All Inland Rail team members (including sub-contractors, etc.) to have completed an environmental induction and committed to Inland environmental charter prior to commencing works on-site.	

Table 7: Environmental Management System Objectives and Targets

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	Two environmental communications (toolbox talks, site meetings, etc.) where environmental issues are specifically addressed per month.
Compliance with (and where possible exceed) all environmental regulation requirements	No regulatory infringements or prosecutions.
······································	Zero enforcement notices and penalties.
Implement and continually improve Inland Rail's environmental management system in accordance with AS/NZS ISO 14001	Address non-conformances and corrective actions as specified in Section 10.3. Undertake regular environmental compliance reviews for continuous improvement

### 3.3 Environment and Sustainability Policy

Inland Rail aims to protect the environment and heritage during the planning, design, construction, and operation of the Inland Rail Program through avoiding or mitigating harm and leaving an enduring regional asset for future generations.

These policies outline the commitment to establish environmental and sustainability management and community engagement plans to avoid, minimise, and mitigate impact. The Policies are provided in Appendix B. These policies will be communicated to staff and Contractors via inductions and ongoing awareness programs as set out in Section 8.5.

### 4 **Project Description**

The Narrabri to North Star (N2NS) Project is one of 13 projects that make up the Inland Rail Project. The route is within the Narrabri, Moree Plains and Gwydir Local Government Areas (LGAs) in north-west NSW. N2NS extends approximately 173km from north of Narrabri Junction, terminating at North Star (Figure 1) and the project is generally within the existing rail corridor. Works over the Gwydir Floodplain (shown in green in Figure 1) are excluded from the N2NS Project.

Appendix C contains figures showing details such as the location of:

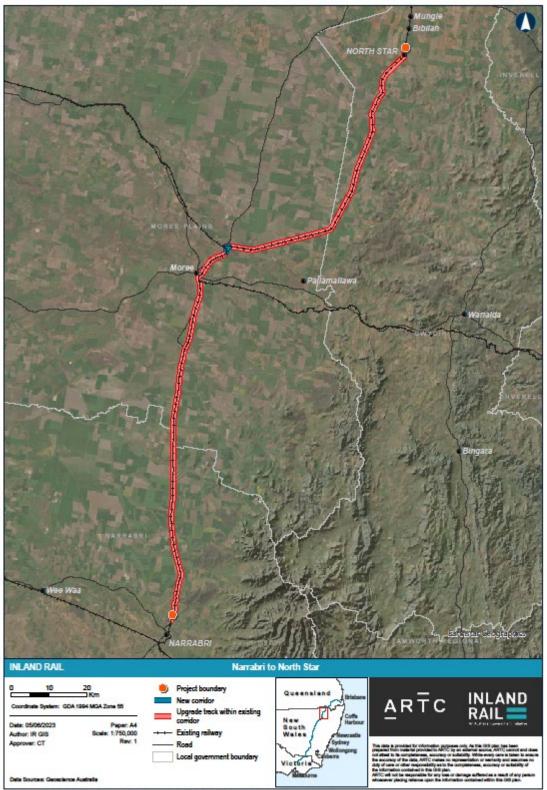
- Project location;
- Key Project features; and
- The Construction Impact Zone (CIZ) (i.e. the area required for project construction as described

in the EIS and as amended by the SPIR).

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Figure 1: Project Location

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN



GALL GR. MYTTEMOL TARKRIPACOL PL. 2023 FEDDONOV, FPYHOWNEMAPOROL PL.PL. COMM. REQUINITY, MAPRURPO, MARRING, VLAD

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### 4.1 Scope of Works

As noted in the SPIR, the key features of the preferred infrastructure include:

- Upgrading 173km of the track, track formation, culverts and underbridges within the existing rail corridor, in two sections between;
- Narrabri and Alice Street in Moree (a distance of about 93 kilometres) and
- Camurra North and North Star (a distance of about 80 kilometres);
- Realigning the track within the existing rail corridor at Gurley and Moree stations;
- Providing five new crossing loops within the existing rail corridor at Bobbiwaa, Waterloo Creek, Tycannah Creek, Coolleearllee, and Murgo;
- Removing the existing bridge and providing a new rail bridge over Croppa Creek; and
- Potential for providing a new pedestrian bridge over the existing rail corridor at Jones Avenue in Moree ('the Jones Avenue overbridge').

Ancillary work includes:

- Upgrading, relocating or consolidating 75 level crossings;
- Upgrading, relocating or consolidating 250 rail culverts, 98 road culverts, 3 irrigation crossings and 8 under-bridges;
- Modifications to platforms at Moree Station; and
- Signalling and communications, signage, fencing, noise attenuation structures, rail maintenance access roads, and services and utilities.

NOTE: Not all of the above-mentioned scope will be constructed by T4MR.

#### 4.1.1 Ancillary Facilities

Inland Rail's main office complex will be located in Moree and will accommodate Inland Rail staff and it's contractors.. Construction works will be supported by Construction and Minor Ancillary Facilities strategically placed along the alignment.

Minor construction ancillary facilities within the construction boundary, (lunch shed office sheds, material laydown sites, stockpile areas, areas used to assemble infrastructure and portable toilet facilities) will be established and operated following assessment and approval by the Environmental Representative.

Construction Ancillary Facilities (CAF) and Minor Ancillary Facilities (MAF) proposed on the N2NS Project will be assessed and approved in accordance with the process detailed in Section 6.4.1 and 6.4.2, respectively.

#### 4.1.2 Construction activities

Table 8 outlines construction activities for each construction phase.

Table	8:	Construction	activities
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CONSTRUCTION PHASE	CONSTRUCUTION ACTIVITIES
Site Establishment for Construction Ancillary	<ul> <li>Establish environmental controls</li> <li>Survey set out, clearing and grubbing,</li></ul>
Facilities	(including pre-clearing flora and fauna surveys). <li>Preparation of the site</li> <li>Installation of the site huts</li> <li>Power, internet and water supply</li> <li>Fencing and security</li>

	Access/egress to site
	Ongoing monitoring of environmental control
Earthworks, Drainage, Structures	<ul> <li>Establish environmental controls</li> <li>Establish temporary crossings and structures platforms</li> <li>Establish open drain system</li> <li>Deconstruct existing rail formation</li> <li>Remove and install box culverts</li> <li>Mix and reinstate soils</li> <li>Lime stabilise</li> <li>Crushed rock capping and ballast</li> <li>Demolish and install bridge structures</li> <li>Ongoing monitoring of environmental controls</li> </ul>
Track works	<ul> <li>Establish environmental controls</li> <li>Track upgrading</li> <li>Crossing loop construction</li> <li>Turnout construction</li> <li>Drainage construction</li> <li>Ongoing monitoring of environmental controls</li> </ul>
Level Crossings	<ul> <li>Establish environmental controls</li> <li>Remove existing controls and install new controls</li> <li>Civil works to road pavements</li> <li>Ongoing monitoring of environmental controls</li> <li>Consolidate crossings, remove signage and complete road surfacing works and track upgrades</li> </ul>
Signalling, Testing and commissioning	<ul> <li>Establish environmental controls</li> <li>CSR Trenching</li> <li>Signalling to loops and sidings</li> <li>Test and commission rail line and communication/signalling systems</li> <li>Ongoing monitoring of environmental controls</li> </ul>
Finishing works	<ul> <li>Return all construction sites, compounds and access routes to at least the same condition than prior to construction commencing.</li> <li>Progressive reinstatement and rehabilitation during works, including:         <ol> <li>Demobilise site compounds and facilities</li> <li>Demobilise site compounds and redundant structures from the works sites</li> <li>Form and stabilise spoil mounds</li> <li>Decommission all temporary work site signs</li> <li>Remove temporary fencing</li> <li>Establish permanent fencing</li> <li>VII. Restore and rehabilitate disturbed areas as required</li> </ol> </li> <li>Remove temporary environmental controls, (once rehabilitation works complete)</li> </ul>

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Indicative plant and equipment that could be used during construction includes:

- Dozers D6 to D8
- Excavators 5t to 60t
- Articulated Dump Trucks 25t to 45t
- Graders 140 to 160
- Loaders 938 to 950
- Pugmill
- Concrete Pumps
- Mobile cranes 20 to 90t
- Crawler Cranes up to 280t
- Scrapers 627 to 657
- Water carts 10KL to 30KL
- Rollers 3t to 25t
- Stabilisers
- Lime Delivery Tankers
- Lime Spreader Trucks
- Hydro mulch Trucks
- Concrete delivery trucks
- Flatbed delivery trucks Tilt trays
- Piling Rigs and service cranes
- Backhoe
- Compactor 815 to 825
- Road Paver
- Road Shuttle Buggy
- Truck and dogs
- Road trains
- Personnel Busses
- 3T crew truck
- Tamping Machines and ballast regulators
- Switch tamper
- Mobile flashbutt welder
- Ballast train
- Trencher

### 4.2 Construction Schedule

Overall, the works with the exception of Stage 2C and the Newell Overbridge will take approximately 31 months including site establishment and will be undertaken in phases as follows:

- Penney's Road to Moree Substantial construction scheduled to commence in April 2021 and be completed by the end of December 2022;
- Narrabri to Penny's Road Substantial construction scheduled to commence in March 2022 and be completed by the end of December 2022; and
- Camurra to North Star Substantial construction scheduled to commence in June 2021 and be completed by October 2023.
- Stage 2C Investigation Work to commence 2025
- Stage 2C Construction TBA

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Newell Overbridge - TBA

Early, low impact works are anticipated to occur from January 2021 to April 2021 preceding permanent and substantial construction works.

In accordance with CoA E1, EPL Condition L6.1 and the Noise and Vibration Management Plan (NVMP),

construction works will be undertaken during the following hours:

- 7:00am to 6:00pm Mondays to Fridays
- 7:00am to 6:00pm Saturdays; and
- At no time on Sundays or public holidays.

Works outside the above timeframes may occur where supported by an approved Out of Hours Works (OOHW) application.

Additionally, and in relation to CoA E4 – Inland Rail will look to seek negotiated agreements with sensitive receivers (owners and occupiers) to carry out works in accordance with the hours and noise limits specified in the negotiated agreements.

Any works outside of these hours will be subject to assessment under the out-of-hours works protocol and/or the subject of written agreements negotiated between Inland Rail and sensitive receivers. Construction hours are discussed in detail in Inland Rail's Noise and Vibration Management Plan.

### 4.3 General Changes to the Project

Refinements to the Project may occur during detailed design or changed circumstances throughout construction. Design changes or changes in scope will be communicated to the Inland Rail Environment Manager either through formal change processes or via informal written communications. This does not include phone calls as this information cannot be tracked.

Proposed changes are to be assessed by Inland Rail for consistency against the approved Project. The Inland Rail Environment Manager will undertake an assessment of the proposed changes for potential impacts and compare them to the proposed impacts for the assessed and approved Project. These changes could be managed through ARTC's Consistency Assessment Work Instruction (Consistency Assessment Work Instruction - 0-0000-900-EEC-00-WI-0013). Once prepared, consistency assessments will be submitted to the ER for comment or endorsement then to Inland Rail for determination. Any consistency assessment and associated report required by Inland Rail will include:

- A description of the approved development / activity / works;
- A description of the proposed development / activity / works;
- Justification for the proposed development / activity / works;
- A description of the existing surrounding environment;
- An assessment of the environmental impacts of the construction works, including, but not necessarily limited to traffic, noise and vibration, air quality, soil and water, ecology and heritage;
- Details of mitigation measures and monitoring specific to the proposed development / activity /works that would be implemented to minimise environmental impacts;
- Identification of the timing for completion of the proposed development / activity / works and how the site/s would be reinstated;
- Assessment of each component of the proposed development / activity / works to determine its' consistency with the approved project; and
- Assessment of any other approvals that may be required for the proposed development / activity/ works.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

If the proposed development/activity/works are consistent with the approved project, the Environmental Representative (in accordance with CoA A29) and Inland Rail will be notified of the intended changes and provided with a copy of the consistency assessment prior to the commencement of the subject works). If the proposed development/activity/works are inconsistent with the approved project, the proposed development/activity/works will be either:

- Modified to be consistent with the approved project; or
- The subject of a Planning Approval Modification process.

As N2NS is a CSSI project, changes that are not consistent with the Approval will require modification under Section 5.25 of the Environmental Planning & Assessment Act 1979 (EP&A Act) and determination by the Minister for Planning.

If required, the CEMP and management plans will be updated to incorporate any additional potential environmental impacts or management measures that resulted from the proposed changes.

### 5 **CEMP Consultation and Stakeholder Engagement**

During development of the CEMP and sub-plans, consultation occurred with identified parties as required by CoAs A5 and C4. The consultation process generally comprised:

- Trans4m Rail submitting the CEMP and Sub-plans to the relevant stakeholders for review and comment.
- Trans4m Rail making presentations to stakeholders, including an explanation of the consultation program; The stakeholder(s) being given a reasonable opportunity to comment on the materials presented with a minimum of 10 business days to provide comment where practicable. Trans4m Rail documented the stakeholder's comments, summarised the consultation conducted, the stakeholders' comments received and Inland Rail's response to the comments; and
- Environmental management documentation being submitted to the Secretary for approval accompanied by:
- A description of the form and extent of consultation undertaken with councils/stakeholders,
- Any written comments from stakeholders,
- A written response to comments raised by stakeholders, and
- The components of the consultation summary, comments and response relevant to that stakeholder being made available to the stakeholder, if requested, following approval of the documentation. Parties consulted for the CEMP and sub-plans are outlined in Table 9.

As required by the CoA, consultation was conducted prior to the initial approval of the relevant document or implementation of the relevant management action, unless otherwise stated or agreed with the relevant stakeholder.

Inland Rail's CSEMP provides further detail on the consultation process.

MANAGEMENT PLAN	IDENTIFIED PARTIES
Site Establishment Management Plan	<ul> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> <li>Transport for NSW</li> </ul>
	Narrabri Shire Council

#### Table 9: Consultation Undertaken for Management Plans

Traffic, Transport and Access	<ul> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> <li>Transport for NSW</li> </ul>
Noise and Vibration	<ul> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> </ul>
Biodiversity	<ul> <li>Department of Planning, Industry and Environment (DPIE) Environment, Energy and Science</li> <li>Federal Department of Agriculture, Water and Environment</li> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> </ul>
Soil and Water	<ul> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> <li>DPIE Water Group</li> <li>DPIE Environment, Energy and Science</li> </ul>
Heritage	<ul> <li>Registered Aboriginal Parties</li> <li>Department of Premier and Cabinet Heritage</li> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> </ul>
Flood Emergency	<ul> <li>State Emergency Services</li> <li>DPIE Environment, Energy and Science</li> <li>Narrabri Shire Council</li> <li>Moree Plains Shire Council</li> <li>Gwydir Shire Council</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### 6 Legal and Compliance Requirements

### 6.1 Legal and Other Requirements

As discussed in Section 1.1, the N2NS project is a Controlled Action under the EPBC Act (1999) and a CSSI under the EP&A Act (1979). Under Section 45 of the EPBC Act (i.e. the bilateral agreement between the NSW and Federal Governments), the Project has been assessed by DPIE for both State and Federal approvals. The Project Approval documentation includes the Narrabri to North Star EIS, associated technical assessments, Submissions Report and SPIR and approval granted via the CoA issued by the NSW Minister of Planning and Public Spaces and the EPBC Act approval issued by the Federal Minister for the Environment. The Compliance Matrix (Tables 1 - 4) at the beginning of this document provides an overview of where the CoA, EPBC Act approval and other environmental requirements have been addressed within the CEMP:

- Environment Protection and Biodiversity Conservation Act 1999, Conditions of Approval (EPBCAct CoAs);
- Critical State Significant Infrastructure Conditions of Approval (CSSI CoAs);
- Revised Environmental Management Measure (REMMS); and



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

• Secretary's Environmental Assessment Requirements Environmental Protection Outcomes, (SEARs EPOs).

If there is any inconsistency between the procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents above, or within this CEMP, in accordance with CoA A3 the CoA shall prevail to the extent of the inconsistency.

Any changes made to the legal requirements register will be communicated to the wider team where necessary through toolbox talks, specific training and other methods detailed in Section 7.2.

This CEMP will be developed and implemented in compliance with the Inland Rail Programme Environmental Management Plan (0-0000-900-EEC-00-PL-0001).

A full legal register is provided in Appendix A

### 6.1.1 Exemptions

As the N2NS project is declared CSSI, applications for the Project are required to be submitted under Part 5, Division 5.2 of the EP&A Act. The NSW Minister for Planning is the approving authority for applications for CSSI. The application is subject to the provisions and requirements of a rigorous and robust planning process under the EP&A Act. Under Part 5.23 of the EP&A Act, the CSSI is exempt from the following approvals:

- Fisheries Management Act 1994 (approvals for fish passage under sections 201, 205 or 219);
- Heritage Act 1977 (Heritage Orders under Division 8 of Part 6 and from obtaining an Aboriginal heritage impact permit under section 90);
- Water Management Act 2000 (approval for water use under section 89 and water management work approval under section 90 (other than an aquifer interference approval) or an activity approval under section 91); and
- Rural Fires Act 1997 (approval for a bushfire safety authority under section 100B).

#### 6.2 Environment Protection Licence

The Protection of Environment Operations Act 1997 (POEO Act) requires an Environment Protection Licence (EPL) to be held by the entity conducting a scheduled activity. Schedule 1 of the POEO Act includes three aspects that relate to railways: (i) Railway infrastructure construction (ii) Railway infrastructure operation, and (iii) rolling stock operation. All conditions set by the EPL are obligatory for the N2NS works and all relevant licence conditions will be applied.

#### 6.2.1 Environment Protection Licence - Relinquishment Process

The EPL relinquishment process for the N2NS Project will generally include the following:

- Licence surrender application will be submitted to the EPA via e-connect.
- The application will be supported by the following documents:

- Written confirmation from the licensee that scheduled activities are complete (i.e. letter).

- An assessment of site stability demonstrating that the site is stable and non-polluting (i.e. suite of chainage-based Reports). This assessment and reports will be:

- Undertaken and prepared by the Project's CPESC.
- Based on Chainage (i.e. taking into account all aspects of the site; ballast / rail / sealed or pavements surfaces).

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- Findings will be captured in a Cover Assessment Reports, supported by photos.
- Assessment against a cover criteria of 70% cover across 90% of the site area to be landscaped / revegetated. A 1m x 1m quadrat/s (and photos) will be used across the catchment to demonstrate achievement of this cover requirement. Taking into account all aspects of the site (i.e. waterways, drains, batters, flat areas, ancillary facilities, etc).

- A site inspection report demonstrating that all construction waste materials have been removed from the premises (unless otherwise agreed with the relevant landholder) and there are no residual construction waste issues. If legacy waste (i.e., old sleeper stockpiles) or redundant rail exists onsite, these will be noted on the Inspection Report and transferred across to EPL3142.

- A site inspection report demonstrating that there are no residual contamination issues.

- A site inspection report demonstrating that any ancillary facility sites have been appropriately rehabilitated (as per above criteria) and / or in line with the landholder's expectations / reasonable requests.

NOTE: Specific Landholder requests must be captured in writing and made available to the EPA upon request.

 Joint site inspection (EPA / Inland Rail) of high risk and other representative areas or any other areas nominated by the ER / EPA, to validate the findings of the above reports.

NOTE: Any comments / observations received from the EPA will be addressed (with evidence of close

out provided) throughout the process.

### 6.3 Environmental Management Plan Guideline

DPIE's Environmental Management Plan Guideline – Guideline for Infrastructure Projects (2020) was prepared to assist project proponents to prepare effective EMPs for State Significant projects. The guideline identifies the information that should be provided in an EMP and sets out the DPIE's expectations for lodgement, approval, and publication. This N2NS CEMP has been prepared within the framework provided by the guideline. The Compliance Matrix at the beginning of this document summarises how this CEMP is consistent with the guideline by providing responses to the EMP preparation checklist in Appendix A of the guideline.

### 6.4 Approvals, Permits and Licences

Inland Rail will obtain licences, permits and approvals as required by law for the works and maintain them as required throughout delivery of the Project. Inland Rail shall comply with all relevant legal requirements. Copies of licences, approvals and permits relevant to the scope shall be held on site with files available for audit and inspection purposes.

Inland Rail will determine what approvals, licences and permits are required for the work scope and obtain each necessary approval prior to the commencement of any work which relates to that approval, licence, notification or permit. Additional approvals permits and licenses may be required as per Table 10, Potential Additional Approvals.

A live Permits, Approvals and Licences Register will be maintained in Inland Rail's Horizon 360 (see Section 6.1). This register will be supported by an Obligations Register, also managed in Horizon 360 that will enable tracking and monitoring of compliance with each condition of approval, together with any other environmental obligation, including contract environmental obligations. This register will be reviewed at least annually to identify any regulatory changes and as soon as practicable should the approved project be modified.

A register of additional approvals and other requirements that may be required for the Project is included in Table 10. This register will be maintained by Inland Rail throughout the Project and updated as required.

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Updates may include new/amended approvals and licences, updated legislation, standards and codes of practice, or changes as a result of management reviews or internal or external audits.

#### Table 10: Potential Additional Approvals

LEGISLATION	APPROVAL	SUMMARY OF OBLIGATIONS	RELEVANCE TO THE PROJECT
Protection of Environment Operations Act 1997 (POEO Act	Environment Protection Licence	POEO Act requires an EPL to be held by the entity conducting a scheduled activity. Schedule 1 of the POEO Act includes three aspects that relate to railways: (i) Railway infrastructure construction (ii) Railway infrastructure operation, and (iii) rolling stock operation	Construction of the project is consistent with "railway infrastructure construction" and so, requires an EPL. As Inland Rail will control the site, Inland Rail will determine who will hold the project- specific EPL.
Roads Act 1993	Road authority approval (including for temporary closure of level crossings)	Under Section 138 of the Roads Act, an approval from the relevant roads' authority (either Transport for NSW (TfNSW) or the local council) is required to impact or carry out certain work on or over public roads.	Required for level crossing works and Newell Highway realignment.
Protection of the Environment Operations (Waste) Regulation 2014	Resource Recovery Exemptions	These exemptions allow some wastes to be beneficially and safely re- used independent of the usual NSW laws that control applying waste to land, using waste as a fuel, or using waste in connection with a process of thermal treatment.	Resource recovery opportunities identified during the demobilisation phase of the project. Refer to Section 8.7.6 for details.
Water Management Act 2000	Water access licence (WAL)	A WAL is required for the "taking" of water from a surface water or groundwater source, including from overland flow above the amount of any available "harvestable rights" which apply to the relevant land. WALs are shell licences which relate to a specified water source and attach a specified number of units, and the units determine how much water can be "taken" from that source. Units can be traded on open markets. A licence would be sought under Part 5 of the Water Act if extraction of more	A WAL holder may transfer their WAL to someone else for a set period of time (not less than six months). This does not require an application to Water NSW however the term "transfer" has to be registered by Land and Property Information once the agreement is complete (Golder, 2020).

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

		than 3 megalitres of groundwater per year is required to construct the proposal	
Biodiversity Conservation Act 2016	Biodiversity Conservation Licence (or identified equivalent)	Granted under Part 2 of the Act, allows handlers to catch and release an animal that is a threatened species or part of an ecological community.	Spotter catchers will be engaged prior to clearing of native vegetation and will require a Biodiversity Conservation Licence (or identified equivalent).
Electricity Supply Act 1995	Notice to an electricity entity of works near electricity works	One of the objects of the Act is to promote and encourage the safety of persons and property in relation to the generation, transmission, distribution and use of electricity.	To be obtained prior to construction near electricity infrastructure.

#### 6.4.1 Construction Ancillary Facilities

The Project's SSI CoAs allows for the establishment and operation of CAFs on the N2NS Project. Condition of Approval A16 states:

CoA A16 - Ancillary facilities that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if:

- They are located within or immediately adjacent to the construction boundary; and
- They are not located next to a sensitive receiver (including where an access road is between the facility and the receiver), unless the sensitive receiver landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and
- They have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and
- The establishment and use of the facility can be carried out and managed within the performance outcomes set out in terms of this approval, including in relation to environmental impacts.

To assess a proposed Construction Ancillary Facility, the Inland Rail EIS Consistency Assessment Report (Major) will be prepared and submitted to the Project ER for review and comment. The proposed Construction Ancillary Facility is considered a "change" and will be assessed in accordance with the Consistency Assessment document and Section 4.3 of this CEMP.

Once finalised and any comments addressed, the Consistency Assessment will be submitted to Inland Rail for determination and, if required, the Project's EPL Premise Boundary will be amended in accordance with EPL Conditions.

#### 6.4.2 Minor Ancillary Facilities

The Project's SSI CoAs allows for the establishment and operation of MAFs on the N2NS Project. Condition of Approval A21 states:

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

CoA A21 - Facilities including lunch sheds, office sheds, material lay down sites, stockpile areas, areas used to assemble infrastructure, and portable toilet facilities can be established and operated where they satisfy the following criteria:

- are located within the construction boundary; and
- have been assessed by the ER to have -
- low amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts and visual (including light) impacts, and
- Low environmental impact with respect to waste management and flooding, and
- No impacts on biodiversity on biodiversity, soil and water and heritage items beyond those already approved under the other terms of this approval.

To assess the proposed facility complete Part A (Rapid Assessment) of the Minor Ancillary Facility Assessment (Appendix L) and proceed to Part B. Minor Ancillary Facility Checklist were prompted by the notes. If Part B is not triggered, forward the Part A - Rapid Assessment to the Inland Environment Manager (or delegate) for approval.

Where the Assessment triggers a Part B Assessment, this must be sent to the Project ER for review and approval.

#### 7 Environmental Risk Assessment

#### 7.1 Environmental Risk Assessment Register

An initial N2NS project environmental risk assessment was completed by Inland Rail (Appendix D). This risk assessment details the environmental aspects identified for the Project, potential impacts, the initial risk category prior to appropriate management strategies, indicative mitigation measures, risk level following mitigation and reference to the appropriate document/procedures/training required.

This initial risk assessment was developed based upon:

- Information contained within the EIS and SPIR (summarised above and in the sub-Plans);
- Inland Rail's experience on similar projects; and
- Inland Rail's experience in the local region.

Potential environmental risk profiles associated with the N2NS were identified during a Inland Rail Environmental Risk workshop involving environment, sustainability and construction team members. The N2NS risks with a rating (prior to mitigation) of medium to high are summarised in Table 10 below.

NOTE: Appendix J and the relevant sub-Plans provides a high-level summary of the environmental constraints, aspects and impacts identified in the Project EIS and SPIR.

ISSUE	POTENTIAL IMPACT	WHERE ADRESSED	RESIDUAL RISK
Traffic, Transport and Access	Construction traffic impacts, including temporary delays to local and regional traffic.	TTAMP	Medium
Soil and Water	Increased erosion and sedimentation due to	SWMP	Medium

Table 11: Summary of initial environmental risk assessmer	Table 11: S	Summary	of initial	environmental	risk	assessmen
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#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	excavation activities and vehicle movement.		
	Disturbance of unidentified contaminated soils.	SWMP	Medium
Biodiversity	Clearing of native vegetation resulting in loss of fauna habitat, habitat fragmentation and loss of connectivity.	Inland Rail's Offset Management Strategy, Inland Rail's BMP	High
	Direct impacts on threatened species and endangered populations and communities (terrestrial) and clearing	Inland Rail's Offset Management Strategy, Inland Rail's BMP	High
Noise and Vibration	Noise impacts on local residents and sensitive receivers from construction activities including out of hours works.	NVMP	Medium
Air Quality	Potential impact on air quality a result of the generation of dust from construction works and the movement of equipment and machinery	SWMP	Medium
Hydrology and flooding	Sedimentation and changes to geomorphology (aggradation in bed channels) in watercourses.	SWMP	Medium
Aboriginal Heritage	Disturbance of known or unidentified items or places of Aboriginal heritage significance	НМР	Medium
Non-Aboriginal Heritage	Damage to heritage items from vibration during construction or operation	НМР	Medium
	Disturbance of known or unidentified places of non- Aboriginal heritage significance	HMP	Medium
Socio-economic, land use and property	Temporary impacts on land use during construction including impacts to local businesses. Impacts include reduced access, reduced amenity, loss of privacy.	CSEMP	Medium
Health and Safety	Reduced safety for road users and pedestrians during construction particularly in the vicinity of houses, businesses, and townships.	Construction Management Plan and Safety Management Plan	Medium

#### 7.2 Risk and Hazard Management Approach

The ongoing process of assessing and reducing environmental risk will be achieved through Inland Rail's Environment Management Plan

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

(0-0000-900-PMP-00-PL-0009). This procedure involves preparing a series of progressively more in-depth risk assessments and method statements at a more detailed level for each construction activity including:

- Workplace Risk Assessment (WRA);
- Activity Method Statement (AMS);
- Task Risk Assessment (TRA);
- Environmental Control Maps (ECMs);
- Erosion and Sediment Control Plan (ESCP); and
- Site Environmental Plans (SEPs).

The WRA, AMSs, TRAs, ECMs, ESCPs and SEPs are pivotal to the management of all activities during delivery.

They allow operational controls to be developed and implemented, case by case, for all the different workplaces, activities and tasks that are encountered on the project.

The WRA's, AMS's, TRA's, ECMs, ESCPs and SEPs are owned by the Inland Rail's Project Management Team (incl. Environmental Manager), Environmental Coordinators, Project Engineers, Supervisory Staff and Workforce. Subject matter experts act as advisors during the preparation of these documents ensuring that information from the CEMP is suitably incorporated and acted upon. Implementation of the Managing SQE Risk Procedure by the Project, will allow the actions identified in relation to risks and opportunities, and the achievement of environmental objectives, to be incorporated and used to establish operating criteria and controls.

Inland Rail will maintain the environmental risk register to address risks specific to changes to scope. Risks will be reviewed at least 6 monthly and will also be reviewed in response to incidents, changes in legal requirements, change in Project scope, findings of inspections and audits, and management reviews.

#### 8 Environmental Management Framework

#### 8.1 Inland Rail Environmental Management System

Inland Rail will be utilising its Environmental Management System (EMS) to enhance its' environmental performance. The EMS is part of an Integrated Management System (IMS) which contains policies, standards, manuals, plans, procedures, processes and other key documents that enable both the overall organisation and operations to achieve their objectives through planned and controlled processes. The Inland Rail EMS will be supported by operating platforms for the efficient and integrated electronic management of EMS information. These include "Horizon 360" "sharepoint", which are further described in Section 8.1.1, Figure 2 shows the documents and hierarchy of the EMS elements within the IMS. The basis for the Inland Rail EMS (and also this CEMP) is the ISO 9001 concept of Plan-Do-Check-Act (PDCA). The PDCA model provides an iterative process to achieve continual improvement.

It can be briefly described as follows:

- Plan: establish environmental objectives and processes necessary to deliver results in accordance with the Inland Rail's Environment and Sustainability Policy.
- Do: implement the processes as planned.
- Check: monitor and measure processes against the Environment and Sustainability Policy, including its commitments, environmental objectives and operating criteria and report the results; and
- Act: take actions to continuously improve.

This CEMP comprises one part of a suite of documents that form the Project EMS, comprising:

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Inland Rail's Environment and Sustainability Policy (Appendix B);

• Inland Rail's Environment Management Manual (describes the Environmental Management Framework that is the basis of the EMS);

• Inland Rail's Critical Risk Guideline is applied to all projects and are requirements developed and implemented to address the organisation's key operational environmental risks and issues and establish the minimum operational environmental standards.

- Project Construction Environment Management Plan, sub-plans, and the SEMP; and
- Inland Rail project environmental procedures, tools, and knowledge.

In accordance with the Inland Rail's Environment and Sustainability Policy, Inland Rail will:

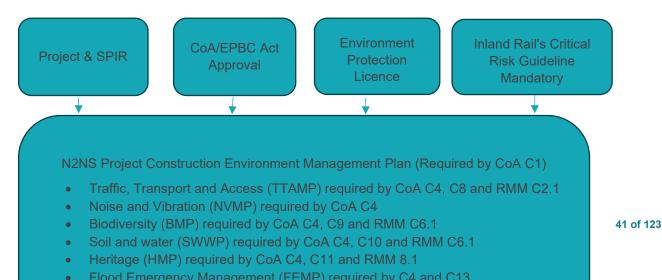
• Continuously improve the EMS to enhance performance, such as through management review and CEMP revisions (see Section 12);

• Maintain third party certification of the EMS to ISO 14001 as independent verification of implementation and effectiveness; and

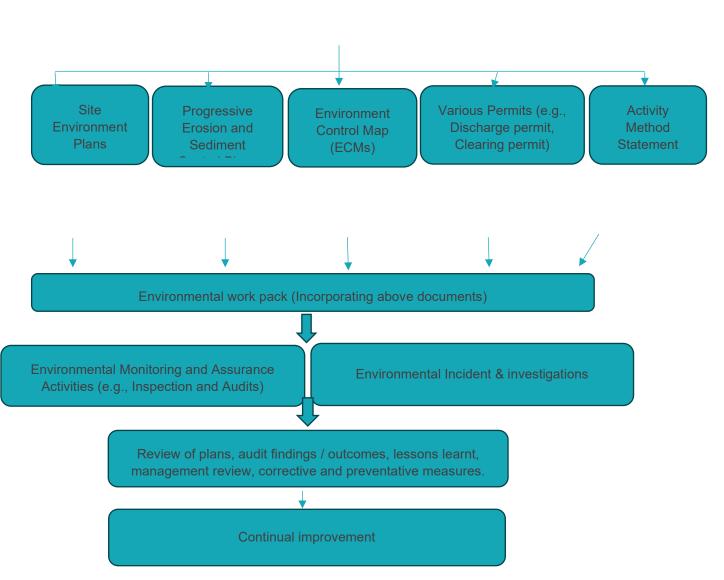
• Fulfil the Project's environmental objectives and compliance obligations.

#### CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Figure 2: Hierarchy of EMS elements



#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN



#### 8.1.1 Operating Platforms

The Project's Management System will comprise of and be supported by a framework of web-based operating platforms that centralises all the Safety, Quality, Environmental, Social, Cultural Heritage and Sustainability documents, plans, procedures and records. All relevant project personnel will be trained in the use of these management systems. These key operating platforms, Aconex, Soteria and Project Pack Web are described below.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### **Document Management System**

The Project's DMS is Aconex. Aconex is a cloud-based project document management system designed to manage the storage and exchange of electronic information internally and externally. All parties involved can access the latest information for the project from any location (with internet connectivity/access) and on a variety of device types. Aconex is used for the storage, management, and registered distribution or receipt of project documentation such as:

- Project design documentation including construction drawings.
- Project management plans, policies, and procedures
- All external correspondence; all types/forms of correspondence to external parties including Project Client, Subcontractors and Suppliers
- Any internal correspondence discussing the scope of works, including project specification requirements, changes/amendments, contract documents, Site Instructions, Request for Information, invoicing, etc.

#### Soteria

Horizon 360 uplifts the N2NS Project's HSES technology platform, enhances HSES processes, improves data collection and reporting, and provides more integration with internal processes and project systems. Inspections, actions, and events on the Project are captured, tracked and recorded via Horizon 360.

#### **Dashboard Reporting**

Each month Inland Rail's environmental performance will be presented in a dashboard to communicate the project's performance. The dashboard report will be provided monthly to Executive Management, and can be incorporated into the PCF and Board reports. The dashboard uses several indices to demonstrate performance such as:

- Incidents.
- Initiatives.
- Resource use intensity metrics; and
- Environment impacts internal audit and inspection outcomes.

Appendix I depicts an example snapshot of the dashboard.

#### 8.1.2 Workplace Risk Assessment

The Workplace Risk Assessment (WRA) is a multi-disciplinary risk assessment, undertaken prior to project award to identify all high level, Project-wide risks associated with health and safety, quality, environment, community, corporate reputation and project delivery i.e. commercial, resource availability, construction program and budget.

The WRA is attended by representatives from all project disciplines and considers the following:

- The key work activities to be undertaken under the Project; and
- The size and complexity of the Project and the activities, the packages of work, the trades and disciplines required, key work interfaces, key stakeholders, and Subcontractor use.

The WRA assesses both unmitigated and mitigated risks and identifies the key work activity requiring an Activity Method Statement.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### 8.1.3 Activity Method Statement

The Activity Method Statement (AMS) is a Multi-Disciplinary Hold Point process, involving Inland Rail personnel, contractors and subcontractors that integrates Work Methodology Plans with risk assessment to mitigate impact and ensure environmental, safety and quality compliance. Inland Rail will use the AMS to describe the construction implementation in detail for an activity that integrates the methodology, risk assessment, instruction and procedures for design, construction, environment, quality and safety, permits, approvals, resources, equipment, and personnel.

All construction personnel and sub-contractors undertaking a task governed by an AMS must participate in appropriate training and acknowledge that they have read and understood their obligations prior to commencing work.

#### 8.1.4 Environmental Control Maps

To aid in the identification and management of aspect-specific environmental risks associated with the N2NS Project, a suite of Environmental Control Maps (ECMs) have been prepared. The ECMs are specific to environmental aspects and impacts (i.e., Dust and Air Quality, Noise and Vibration, Biodiversity and Flora and Fauna, etc) and as a minimum contain the mitigation measures specific to managing a particular risk associated with the proposed works. The ECMs are a site-level document aimed to increase awareness of environmental risks and management to site personnel.

#### 8.1.5 Task Risk Assessment

Task Risk Assessments (TRA) are team - based planning risk assessments which aim to address hazards and risk control reduction at a task level. TRA's are facilitated in the field prior to the task commencing by the Supervisor, Leading Hand and/or Engineer and are primarily identified by the AMS.

#### 8.1.6 Site Environmental Plan

To aid in the identification and protection of significant environmental features specific to a work site, the Project's Environmental Team will produce a Site Environmental Plan (SEP) for each site. The SEP will include the following:

- The mitigation measures relevant to the work crew and specific to the scope and work site.
- Relevant drawings showing:
- The location of environmental constraints and values and 'no go' zones on-site
- Location and nature of environmental controls
- Nature and frequency of monitoring for identified potential adverse impacts.
- Procedures for notification of incidents or hazards.

A copy of each of the worksite's SEP will be contained within the site's Work Pack and available to all Inland Rail personnel, contractors and subcontractors. Where no fixed site facility exists, the Work Pack and SEP will be kept in the Supervisors vehicle.

The SEPs are working documents and will be updated throughout construction, as required.

#### 8.1.7 N2NS Environmental Flagging Protocol

Appendix M details the Environmental Flagging Protocol for the N2NS Project. This protocol will form part of the Project Induction and be distributed throughout the site offices on the Project. The intent of the



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Environmental Flagging Protocol is to standardise the environmental flagging across the project and to increase awareness of the environmental values (and associated delineation type) for project personnel.

#### 8.2 Relationship between this CEMP and other EMS documents

The Inland Rail project EMS contains policies, standards, manuals, plans, procedures, processes and other documents that enable the project to achieve its objectives through planned and controlled processes.

This CEMP comprises one part of a suite of documents that that will manage the N2NS. These include the project's:

- Project Management Plan.
- Construction Management Plan.
- Sustainability Management Plan.
- Community and Stakeholder Engagement Management Plan.
- Safety Management Plan; and
- Quality Management Plan.

The CEMP is also the umbrella for other project environmental management documents such as plans, protocols, strategies, reports, and programs to ensure the Project CoA and REMMs are implemented.

In addition to the CEMP, CoA A17 requires the development of a Site Establishment Management Plan (SEMP) for the management of the establishment of construction ancillary facilities (excluding minor ancillary facilities).

The SEMP must be prepared and submitted to the Planning Secretary one month prior to the establishment of any construction ancillary facilities (excluding minor ancillary facilities). The SEMP will remain the management document (specific to the scope approved) until such time that the CEMP is endorsed by the ER and approved by the Secretary. At this time, the SEMP will be superseded by the CEMP, which will become the key management document on the project. Once the SEMP has been approved, any specific requirements that are over and above the requirements of this CEMP, in relation to the management of construction ancillary facilities, will be included in Appendix H.

#### 8.3 Construction Environmental Management Plan

The CEMP is the overarching "road map" and management tool in relation to environmental performance during Project delivery. The CEMP links the relevant legislative and client requirements to the projects EMS and describes the construction environmental management framework for the Project and the system for minimising and managing environmental risks. The CEMP and relevant management plans have been prepared in consideration of the CoA, the REMMs presented in the SPIR and Inland Rail's EMS.

The CEMP provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative and other requirements are fulfilled.

A number of environmental management sub-plans are required to support the CEMP. They document the aspects, impacts, management measures and monitoring requirements for each key environmental aspect. The CoA and REMMs define the content and issues to be addressed in the management plans. The sub-plans are listed in Sections 1.1 and 3 and in the Table 11 below.

Table 12: Sub-Plans and Construction Monitoring Programs

CEMP SUB-PLAN OR CONSTRUCTION MONITORING	WHERE REQUIRED	
PROGRAM		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN CoA C4 and C8 Traffic, Transport and Access Management sub-Plan RMM C2.1 CoA C4 Noise and Vibration Management sub-Plan **Biodiversity Management sub-Plan** CoA C4 and C9 **RMM C3.1** Soil and Water Management sub-Plan CoA C4 and C10 **RMM C6.1** CoA C4 and C11 Heritage Management sub-Plan **RMM D8.1** CoA C4 and C13 Flood Emergency Management sub-Plan CoA B1 and B2 **Communication Strategy** Noise and Vibration Monitoring Program CoA C14(a) Water Usage Monitoring Program CoA C14(b) Water Usage Monitoring Program CoA C14(b) CoA C14(c) Local Roads Monitoring Program CoA C14(d)

In accordance with CoAs C13 and C18, construction will not commence until the CEMP (incl. sub-plans and the Construction Monitoring Programs) are endorsed by the Environmental Representative (ER) and approved by the Planning Secretary of DPE. The CEMP and Construction Monitoring Programs will be submitted to the Secretary for approval no later than one month prior to the commencement of construction as required by CoAs C7 and C17.

#### 8.4 Key Environmental Management Roles and Responsibilities

The key environmental management roles and responsibilities for the implementation of the CEMP are outlined in Table 12 below.

The following persons are nominated as key contacts in the event of any of the following occurring: environmental incidents, emergencies, or non-compliances.

NAME	POSITION AND CONTACT DETAILS
Project Director	Project Director: Peter Borrelli Mobile: 0407 254 363 Email: PBorrelli@ARTC.com.au
HSE Manager	HSE Manager: Justin Bate Mobile: 0438952286 Email: jbate@artc.com.au

#### 8.4.1 Management Structure Responsibility

The specific areas of responsibility of Environmental personnel are summarised as follows:

• Top Level Management are the Inland Rail Senior Management representatives. These managers are independent of the project.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- The Environmental Management System (EMS) relies on the commitment and technical expertise of the Inland Rail staff and its contractors and subcontractors in its implementation and operation.
- Fundamental checking by site supervisory staff and site-based subcontractors will also be a feature of the EMS. Placing responsibility for the achievement of environmental objectives at the workface will lead to greater accountability at this level.

The duties and responsibilities of all Inland Rail staff are defined in Position Descriptions, a copy of which is held by the staff member.

The Inland Rail Organisational Chart showing all key positions has been included in Appendix K.

#### Table 13: Environmental Management Roles and Responsibilities

TITLE	ROLES AND RESPONSIBILITIES
Inland Rail Project Director (or delegate)	<ul> <li>Environmental leadership and commitment through measurable participation in environmental management</li> <li>Ensure the Project is compliant with the requirements of the relevant environmental legislation</li> <li>Endorse and support the Project Environment and Heritage Policy attached in Appendix A.</li> <li>Approval authority of the Project's CEMP and other key environmental documentation.</li> <li>Be an emergency contact and available to be contacted by Inland Rail and DPE representatives on a 24-hour basis</li> <li>Ensure adequate resources are provided to effectively implement the CEMP</li> <li>Overall responsibility for EMS and CEMP implementation on the project</li> <li>Assist in periodic reviews of the CEMP</li> <li>Regularly review environmental risks and controls</li> <li>Ensure all environmental incidents are promptly reported, recorded and resolved</li> <li>Ensure all environmental incidents are promptly and thoroughly investigated, remediation measures identified, and other corrective and / or preventative actions implemented</li> <li>Negotiate and authorise contract wide initiatives</li> <li>Resolve and delegate responsibilities for non-compliances</li> <li>Resolve and escalate Project issues, ensuring strong lines of communication to all stakeholders are maintained.</li> </ul>
Inland Rail Construction Manager	<ul> <li>Lead and manage the delivery of the construction process, in relation to environmental management across the N2NS in conjunction with the Environment Manager</li> <li>Ensure work is planned and executed to ensure legislative compliance and conformance with the EMS and CEMP</li> <li>Plan construction works in a manner that avoids or minimises impact to environment</li> <li>Direct personnel and/or subcontractors to carry out actions to avoid or minimise unintended environmental impacts</li> <li>Review the key environmental management documents relevant to the construction of the Project</li> <li>Ensuring all Project personnel attend an induction prior to commencing works</li> <li>Ensure inspections, observations and monitoring are performed to ensure compliance is maintained</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	<ul> <li>Establish training needs and environmental accountabilities, responsibilities and objectives for all project personnel.</li> <li>Participate in ER reviews and joint inspections, as required.</li> </ul>
Inland Rail Environment Manager (or delegate)	<ul> <li>Overall responsibility for the implementation of environmental matters on the Project</li> <li>Management of the Environment and Sustainability function on the Project</li> <li>Report to Project Manager and other senior managers on the performance and implementation of the CEMP and any other environmental issues</li> <li>An emergency contact and available to be contacted by Inland Rail, EPA and DPE representatives on a 24-hour basis</li> <li>Development, implementation, monitoring, annual management reviews and updating of the CEMP and sub-plans in accordance with ISO14001</li> <li>Coordinate and gain relevant approvals, permits and licences for the construction phase of the Project are identified and appropriate mitigation measures are implemented</li> <li>Monitoring any legislative changes to government policies that influence this CEMP</li> <li>Ensure environmental risks of the Project are identified and appropriate mitigation measures are implemented</li> <li>Manage all sub-contractors and consultants with regards to environmental matters, including assessing their environmental capabilities and overseeing the submission of their environmental capabilities and overseeing the submission of their environmental documents</li> <li>Determine if an occurrence is an incident</li> <li>Key point of contact between Inland Rail and the ER.</li> <li>Provide the ER with all documentation requested including the complaints register (monthly) and a copy of any assessment carried out by Trans 4M Rail of whether proposed work is consistent with the Approval</li> <li>Liaise with relevant government authorities, Inland Rail and stakeholders as required</li> <li>Developing, reviewing and conducting the Project induction, and ensuring it encompasses all the requirements of the relevant environmental acts, regulations, approvals, permits, CEMP and Subplans and client specifications</li> <li>Manage environmental reporting within the Project team and to ARTC</li></ul>
Inland Rail Environmental & Sustainability Coordinators	<ul> <li>Assist the Inland Rail Environment Manager in the development and implementation of site-specific environmental documents and EPL applications and variations.</li> <li>Lead in the preparation of Environmental Control Maps, Site Environmental Plans and any other environmental deliverables (i.e. OOHW, CNVIS, MAFs, Discharge Permits, etc).</li> <li>Manage the day-to-day environmental elements of construction.</li> <li>Undertake site inspections, carry out monitoring activities and complete site checklists to assist in identifying environmental risks.</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	<ul> <li>Advise the Inland Rail Environment Manager and Inland Rail Construction Manager of the need to stop work immediately if an unacceptable impact on the environment is likely to occur or other major issues from the Project.</li> <li>Assist all site staff with issues concerning Project environmental matters.</li> <li>Assist in developing training programs regarding environmental requirements including delivery of the environmental component of toolbox talks, as required.</li> <li>Liaise with the ER on an as needs basis.  Participate in joint inspections with the ER.</li> </ul>
Inland Rail Stakeholder Engagement Manager	<ul> <li>Ensure that all stakeholder consultation activities are carried out.</li> <li>Assist the Inland Rail Environment Manager in consulting regulatory authorities.</li> <li>Report any environmental issues raised by stakeholders to the Inland Rail Environment Manager</li> <li>Communicate general Project progress, performance and issues to stakeholders</li> <li>Maintain the 24-hour complaints hotline and the Project complaints register</li> <li>Assist the public with questions and complaints they may have at any time during construction and be available at all times that works are occurring.</li> <li>Participate in ER reviews, as required.</li> <li>Liaise with the ER to respond and resolved Community Complaints, if required.</li> </ul>
Inland Rail Project / Site Engineers	<ul> <li>Assist in establishing the site in accordance with required environmental standards detailed in the CEMP and sub-plans</li> <li>Develop and review relevant Activity Method Statement (AMS) for high risk construction work activities or construction work activities in environmentally sensitive areas</li> <li>Check and approve sub-contractor WMS prior to them commencing work and where changes to work activities or work location are made</li> <li>Undertake risk assessments as circumstances change and adjust the relevant WMS and the Environmental Risk Assessment Register to include the appropriate risks and control measures</li> <li>Ensuring that environmental management is always considered in all forward planning for the Project</li> <li>Liaising with the Inland Rail Environment Manager or delegate on all relevant environmental inspections to observe potential environmental problems</li> <li>Complying with all environmental responsibilities assigned in relevant legislation, procedures, WMS, plans, job descriptions or any other environmental documentation</li> <li>Raise any environmental issues or concerns immediately or during meetings with the Inland Rail Environment Manager, Construction Manager or Site Supervisor.</li> </ul>
Inland Rail Site Supervisor	<ul> <li>Assist in the preparation of Environmental Control Maps</li> <li>Field implementation of environmental requirements and control measures</li> <li>Implement all monitoring and reporting requirements of the Project</li> <li>Daily inspections of environmental protection measures and coordination of maintenance as required</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

	<ul> <li>Ensure all construction personnel are adhering to the environmental requirements of the CEMP and sub-plans and rectifying actions immediately if identified</li> <li>Implement or oversee the implementation of corrective actions for non-compliance resulting from audits, investigations, incidents / accidents, hazards, injuries and near misses</li> <li>Participate in joint inspections with the ER.</li> <li>Report all environmental incidents or hazards.</li> </ul>
Inland Rail Construction personnel (including sub- contractors)	<ul> <li>Attend Project inductions, pre-start meetings and environmental awareness training relevant and understand and comply with environmental responsibilities</li> <li>Use or follow all controls established for eliminating or controlling environmental risks including those found in environmental documentation (e.g. WMS, plans, work instructions, standard operating procedures etc.)</li> <li>Be aware of surrounding sensitive environmental and social constraints and act in a manner that minimises impacts to those sensitive areas</li> <li>Compliance with all site environmental rules</li> <li>Report any environmental incidents, near misses and hazards immediately.</li> </ul>
Inland Rail Environmental Representatives	<ul> <li>Participate in joint environmental inspections, as required.</li> <li>Assist the Project Team gain relevant approvals, permits and licences for the construction phase of the Project, where relevant.</li> <li>Liaise with relevant government authorities, Inland Rail Team and stakeholders, as required.</li> <li>Provide the key point of contact between ARTC / Inland Rail and the Project Delivery Team on environmental matters.</li> </ul>

#### 8.4.2 **Projects Contacts**

Contact details for personnel who can be contacted in the case of an emergency on a 24/7 basis are contained in the Emergency Response Plan (within the Safety Management Plan) and will be displayed in locations throughout the Project site.

#### 8.4.3 Specialists and other environmental resources

Specialist consultants and subcontractors are engaged for environmental support roles as required. These may include:

- Certified Practitioner in Erosion and Sediment Control (CPESC) for the preparation of ESCPs, assistance with implementation of erosion and sediment control measures, and ongoing inspections and advice throughout construction
- Ecologists for critical activities, such as vegetation clearing and pre-clearance surveys
- Noise and vibration specialists for establishment and maintenance of monitoring equipment, and ongoing advice throughout construction
- Archaeologists/heritage specialists for advice on Aboriginal and non-Aboriginal heritage matters
- NATA-certified laboratories for soil and water quality analysis
- Suppliers of environmental monitoring hardware
- Other resources as required during the course of the Project.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### 8.4.4 Subcontractors and suppliers

All subcontractors will work under Inland Rail's EMS, CEMP, sub-plans and relevant procedures. Subcontractors are required to carry out their work in accordance with contract instructions and in an environmentally sound manner.

All subcontractor personnel are required to attend a project induction, which includes an environment and sustainability component and task-specific training (if relevant) before they commence any work on site (see Section 9). The Environment Manager, or delegate, will confirm and implement requirements for effective subcontractor control based on known project risks and demonstrated subcontractor performance, or the contrary.

All suppliers will be required to comply with any relevant requirements of this CEMP and associated subplans, including sustainability requirements. The Environment Manager will confirm and implement actions to ensure suppliers are aware of the requirements within the CEMP that are relevant.

Inland Rail's procedures for management of subcontractors, suppliers and consultants will be utilised.

#### 8.5 Competence, Training and Awareness

To ensure that this CEMP is effectively implemented, each level of management is responsible for ensuring that personnel reporting to them are aware of the requirements of this CEMP. The Inland Rail Environment Manager will coordinate the environmental training in conjunction with other training and development activities (e.g. safety). All personnel performing environment management activities for and on behalf of Inland Rail will be trained, qualified and competent. Personnel performing specified assigned tasks shall be qualified on the basis of appropriate education, training, skills and/or experience, as appropriate, in accordance with Inland Rail's Resource Planning. Identification of the environment training needs and provision of training for personnel are detailed in an Environment Training Program.

Appropriate training records shall be kept and maintained in accordance with 0-0000-900-PHR-0003 Inland Rail's Learning and Development Management Procedure. All training identified in the associated training matrix will be delivered according to the training schedule. Training and development needs identified through the performance and development process will be achieved as per time frames nominated in individual plans.

Training assessments and evaluation forms will be used to assess the effectiveness of training. Training evaluation and feedback will be reviewed and used to improve the quality of environmental training delivered on the Project. The training matrix and schedule will be completely reviewed at least annually or prior to the commencement of major new tasks.

#### 8.5.1 Environmental induction

All personnel (including subcontractors) are required to attend a compulsory site induction that includes an environmental component prior to commencement of works on site. This is done to make all personnel involved in the Project aware of the requirements of the CEMP, the CoA, the EPL and the REMMs. The Inland Rail Environment Manager (or delegate) will prepare the environmental component of the site inductions.

Short-term visitors to site undertaking inspections / entering the site (such as regulators) will be required to undertake a visitor's induction and be accompanied by inducted personnel at all times. Temporary visitors to site, for purposes such as deliveries, will be required to undertake a Delivery Driver Induction.

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

The environmental component of the induction must cover applicable elements of the CEMP and will include as a minimum:

- Relevant details of the CEMP including policies, purpose and objectives
- Requirements of due diligence and duty of care including GMRs
- Conditions of environmental licences, permits and approvals
- Potential environmental emergencies on site and the emergency response procedures
- Approved working hours, including out-of-hours work processes
- Reporting and notification requirements for pollution and other environmental incidents
- High-risk activities and associated environmental safeguards
- Working in or near environmentally sensitive areas
- Specific environmental management requirements and responsibilities
- Mitigation measures for the control of environmental issues
- The existence of AMS for high-risk activities
- Information relating to the location of environmental constraints
- Key environmental issues.

Inductions will also include information about the community Inland Rail are working in, residents and key stakeholders and location-specific sensitivities, behavioural expectations, what to do when approached by a member of the public or media and an outline of our responsibilities and Project obligations relating to the community.

#### 8.5.2 Toolbox Talks, Training and Awareness

Weekly toolbox talks will be one method of raising awareness and educating personnel on issues related to construction including environmental issues. The toolbox talks are used to ensure environmental awareness continues throughout construction.

Toolbox talks will cover a broad array of topics (incl. environmental) relevant to the project program, incidents, observations, emerging trends and risk profile. They will address topical issues, a review of project and corporate wide incidents, lessons learned and include details of ECMs for relevant personnel and will be tailored to specific environmental issues relevant to upcoming works.

Toolbox talk attendance is mandatory and attendees of toolbox talks are required to sign an attendance form, with the records maintained.

As part of Inland Rail's commitment to positive community outcomes and stakeholder engagement, Projectspecific community awareness training will also be carried out for all construction personnel. Where appropriate, this training will include information to increase awareness of cultural sensitivities and outline approaches to working with people from culturally and linguistically diverse backgrounds. The training will also encourage the workforce to 'tread lightly' while working in the area, acknowledging that we are guests in the community.

Targeted environmental training will be provided to all Supervisory personnel (e.g. Construction Manager, General Superintendent, Superintendent(s) and Site Supervisor(s)) and those Project personnel undertaking high environmental risk activities or works specific to an environmental aspect, including:

- Erosion and sediment control.
- POEO due diligence legal training; and
- Training in environmental monitoring including noise, vibration and water quality monitoring.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### 8.5.3 Daily pre-start meetings

The pre-start meeting is an activity conducted prior to the commencement of shift and is used to inform the workforce of the day's activities, safe work practices, environmental protection practices, work area restrictions, activities that may affect the works, coordination issues with other trades and teams, hazards and other information that may be relevant to the day's work.

The environmental component of pre-starts will be determined by relevant foreman and Environmental Coordinators and will include any environmental issues that are potentially relevant to the day's activities. All attendees will be required to sign on to the pre-start and acknowledge their understanding of the issues explained.

#### 8.6 Hold Points

Hold Points will be implemented on this Project for the purpose of minimising the likelihood of an incident when undertaking specific construction activities that have a greater environmental risk. A Hold Point request will be required for such activities listed in Table 14 and Table 15.

CONDITION	<b>REPORT/NOTIFIATION</b>	TIMING	PURPOSE			
PART A- ADMINISTRATIVI	PART A- ADMINISTRATIVE					
A17	Site Establishment Management Plan	One month before the establishment of any construction ancillary facility.	Approved			
A24/25	Approval of Environmental Representative	One month prior to the commencement of works.	Approved			
A35	Approval of independent auditors	Prior to the commencement of an Independent Audit.	Approved			
PART B - COMMUNICATIO	PART B - COMMUNICATION INFORMATION AND REPORTING					
B1/B3	Communication Strategy	No later than one month before the commencement of any works.	Approved			
PART C – CONSTRUCTION ENVIRONMENTAL MANAGEMENT						
C1/C3	CEMP	One month prior to commencement of construction.	Approved			
0/C6/C7	CEMP sub-plans	One month prior to commencement of construction.	Approved			
C14/C17/C18	Construction Monitoring programs	One month prior to commencement of construction.	Approved			
PART E- KEY ISSUES						
Noise and Vibration	Noise and Vibration					
E8	Out of Hours Works Protocol	Prior to commencement of out of hours works not subject to an EPL.	Approved			
Traffic, Transport and Access						
E39	Road Dilapidation Report	Within one month of completion of the survey and at least two weeks before the road is used.	Information			

Table 14: (SSI 7474) CoA's Hold Points

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Contamination			
E83/E84	Site Audit Statement and Site Audit report	One month before the commencement of operation	Information

#### **Table 15: Hold Points**

HOLD POINT	RELEASING AUTHORITY	RECORD
If the CIZ is to be amended after it has been approved, the amended CIZ must be submitted to Inland Rail for approval and will constitute a Hold Point.	Inland Rail	Consistency Assessment (Reviewed by the ER, signed and approved by the relevant ARTC Representative)
A clearing permit is required prior to any clearing of native vegetation, including GPS locations of extent of Clearing applicable to Permit.	Inland Rail Environment Manager (or delegate)	N2NS Clearing Permit (signed and approved by the Inland Rail Environment Manager (or delegate)
Develop a Site Environmental Plan highlighting sensitive areas and clearly identifying construction boundaries and No-Go Zones	Inland Rail Environment Manager (or delegate)	Site specific SEP (signed and approved by the Inland Rail Environment Manager (or delegate)
Ground disturbing activities cannot commence/ recommence until an Erosion and Sediment Control Plan (ESCP) is developed/ reviewed and implemented.	Inland Rail Environment Manager (or delegate)	N2NS ESC Inspection Checklist (signed and approved by the Inland Rail Environment Manager (or delegate)
Permit to Discharge is required prior to any active water discharge from the site (or on-site dewatering with the potential to leave site), to confirm water is suitable for discharge	Inland Rail Environment Manager (or delegate)	N2NS Discharge Permit (signed and approved by the Inland Rail Environment Manager (or delegate)
Prior to works commencing on "Waterfront Land" (being defined as; the bed and bank of any river, lake or estuary and all land within 40 metres of the highest bank of the river, lake or estuary), the Checklist - Controlled Activities on Waterfront Land – Guidelines for Instream Works on Waterfront Land (App H CSWMP) must be completed.	Inland Rail Environment Manager (or delegate)	CSWMP - Appendix H Checklist - Controlled Activities on Waterfront Land – Guidelines for Instream Works on Waterfront Land

#### 8.7 Environmental Management Measures

This section outlines the controls that will be implemented to manage environmental aspects during the construction of the Project. For the key potential environmental issues, Sub-plans and Monitoring Programs have been prepared to support the Project's CEMP. These documents have been prepared in accordance with the requirements of the EPBC Act Approval, the CoA, RMM and other environment assessment documentation. The relevant environmental management documents for each environmental aspect is outlined in the sections below.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### 8.7.1 Traffic, Transport and Access

A Traffic and Transport and Access Management sub-Plan (TTAMP) has been developed to manage the traffic, transport and access risks on this Project. This document was developed in accordance with CoA C4(a), C8 and RMMs C2.1, C2.2, C2.3, C2.4 and C2.5.

#### 8.7.2 Soil and Water Quality

A Soil and Water Quality Management sub - Plan (SWMP) and the Water Quality Erosion and Sediment ECM have been developed to manage the soil and water quality risks on the Project. These documents have been developed in accordance with CoA C4(d), C10 and RMMs C6.1, C6.2, C7.1, C7.2, C8.1, C8.2 and C8.3.

The SWMP includes an Unexpected Finds Procedure for the management of inadvertent finds of contaminated materials, soil or asbestos containing material.

The SWMP and the Water Quality Erosion and Sediment ECM includes monitoring programs for water usage, air quality and surface water quality.

#### 8.7.3 Biodiversity

A Biodiversity Management sub - Plan (BMP) and the Biodiversity Flora and Fauna ECM have been developed to manage the biodiversity related risks on this Project. These documents have been developed in accordance with CoA C4(c), C9 and RMMs C3.1, C3.2, C3.3 and C3.4.

This BMP also includes an Unexpected Finds Procedure for the inadvertent discovery of threatened flora or fauna species on the project.

#### 8.7.4 Noise and Vibration

A Noise and Vibration Management sub-Plan (NVMP) and the Noise and Vibration ECM have been developed to manage the noise and vibration related risks on the Project. These documents have been developed in accordance with CoA C4(b) and RMMs C4.1.

This NVMP also includes a Noise and Vibration Monitoring Program to monitor the noise and vibration impacts for the duration of the project.

#### 8.7.5 Aboriginal and non-Aboriginal Heritage

A Heritage Management sub -Plan (HMP) and the Heritage ECM have been developed to manage the heritage (Aboriginal and non-Aboriginal) related risks on the Project. These documents have been developed in accordance with CoA C4(e) and RMMs C9.1, 10.1 and C10.2.

The HMP includes an Unexpected Finds Procedure for the management of inadvertent finds of items or areas of heritage significance.

#### 8.7.6 Waste and Resource Recovery

A Waste and Resource ECM has been developed to manage the waste and resource recovery related risks on this Project. These documents have been developed in accordance with CoA E87, E88, E89, E90 and C15.1.

A separate Sustainability Management Plan has been prepared in accordance with CoA E79 and RMM C14.1 and C14.2 and will be implemented for the duration of the Project.

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

During the demobilisation phase of the Project, various resource recovery opportunities have been identified for many surplus or waste materials leaving the Project's EPL Premise Boundary and originally intended for landfill disposal. The resources identified for recovery typically include:

- Crushed concrete (i.e., excess concrete from on-site pours and crushed concrete from the demolition of original culverts, headwalls, wingwalls and base slabs, both with and without reo).
- Surplus rock and gravel materials, typically from piling pads and temporary waterway crossings.
- Surplus suitable (i.e., road base, densely graded base coarse (DGB), select, capping or otherwise) and unsuitable fill (spoil) material.
- Various other surplus construction materials, including, but not limited to; timber stakes, star pickets, intermediate bulk containers (IBC's), timber pallets, black max pipes, conduit, culverts, flagging, rope, timber gluts (hardwood), etc.

Based on these resources, the following recovery opportunities may be implemented:

- Crushed concrete may be taken to a suitably licensed facility for further crushing (if required) and reuse. Prior to this material being transported to the facility, due diligence checks will be undertaken by T4MR to ensure the receiving facility has appropriate planning consent (under the EP&A Act) and is suitably licensed for any POEO Act Schedule 1 Activities.
- Crushed concrete and clean rock material may be donated to local landholders in accordance with the NSW EPA's Resource Recovery Order / Exemption for Recovered Aggregate.
- Suitable and unsuitable fill material may be donated to local landholders in accordance with the NSW EPA's Resource Recovery Order / Exemption for Excavated Natural Materials.
- The various other surplus construction materials (listed above) may be donated to local landholders where (a) the proposed reuse has planning consent (or exemption) under the EP&A Act; (b) the reuse will not result in environmental harm; and (c) the details of the transfer and reuse are captured in the register detailed below.
- Rock, gravel and excavated natural materials may remain within the EPL Premise Boundary, where;

   (a) the relevant landholder approval has been sought in writing;
   (b) the proposed reuse has planning consent (or exemption) under the EP&A Act; and (c) due diligence sampling and laboratory analysis has occurred for any potential contaminants of concern. NOTE: The NSW EPA Resource Recovery Framework does not apply to this recovery opportunity as the material is not leaving the EPL Premise Boundary.

Advice and / or clarification of the Resource Recovery Framework will be sought from the NSW EPA as required.

A register will be maintained to track the details of all surplus / waste materials that have been recovered for reuse purposes. The register will include the following details; date / time of transport, resource type and quantity, generator location and contact details, receiver location and contact details, proposed reuse purpose, Resource Recovery Order / Exemption (if relevant) and any supporting documentation (i.e. correspondence, lab results, waste facility receipts, truck load sheets, etc).

NOTE: Under the Protection of the Environment Operations (Waste) Regulation 2014, only surplus materials or resources leaving the EPL Premise Boundary are subject to the requirements of the NSW EPA's Resource Recovery Framework.

#### 8.7.7 Air Quality and Dust

A Soil and Water Quality Management sub - Plan (SWMP) and the Water Quality Erosion and Sediment ECM have been developed to manage the air quality and dust related risks on this Project. These documents have been developed in accordance with CoA C4(d), C10 and RMMs C5.1 and C5.2.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

This SWMP also includes an Air Quality Monitoring Program and Depositional Dust Procedure for the monitoring of air quality for the duration of the Project.

#### 8.8 Environmental and Sustainability Inspections

Implementation of a regular program of inspections is an essential part of the success of work activities. The effectiveness of environmental protection measures and capturing sustainability initiatives described in this CEMP and sub-plans will be inspected and assessed on a weekly basis by Inland Rail environmental and sustainability staff. The purposes of environmental inspections are to:

- Provide a surveillance tool to ensure that safeguards are being implemented and maintained
- Identify where problems might be occurring
- Facilitate the identification and early resolution of problems
- Identify and quantify where sustainability initiatives are being implemented on-site
- Identify potential sustainability opportunities.

Weekly Environmental and Sustainability checklists will be utilised for these inspections. Any nonconformances, non-compliances or opportunities for improvement will be recorded in Inland Rail's SAI-360 system and managed in accordance with Section 10 of this document. The findings of inspections will be discussed at toolbox meetings and concerns raised will be considered by the Environment Team and senior project staff.

Table 17 lists the details of each type of environmental and sustainability inspection to be undertaken on the Project. Further detail is provided in Inland Rail's Monthly Environmental Report.

ACTIVITY	FREQUENCY	RESPONSIBILITY	RECORD	
Site inspection	Site inspection Daily		Site Diary (SharePoint)	
Environmental and Sustainability	· · · · · · · · · · · · · · · · · · ·		Environmental and Sustainability Checklist (SAI-360)	
Pre-clearing Inspections	As required, (Immediately prior to clearing works commencing)	Environment Coordinator/s Site Supervisor	Clearing Permit (Aconex)	
Joint ER Inspections Monthly or as otherwise agreed with ER		Environmental Manger (or delegate) Site Supervisor ER	ER Inspection Report (Aconex)	
Pre & Post Rainfall         Prior to and following rainfall events generating runoff.		Environmental Coordinator/s	ESCP Inspection (SAI-360)	
Event based i.e., floodAs required (triggered by BOM Weather Warning)		Environment Coordinator/s Site Supervisor	Site Specific Flood Preparation Plan (Aconex)	

#### Table 16: Inspection Schedule

#### 8.9 Monitoring Programs

Monitoring will be undertaken for environmental aspects of the Project to confirm the adequacy of implementation of the management measures and will highlight any non-compliances, or potential non-

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

compliances across the life of the Project. Monitoring of Inland Rail's environmental reporting metrics will also occur and will be reported monthly.

A consolidated summary of monitoring and reporting requirements for the project can be found in Table 18 and 19.

#### 8.9.1 Compliance Monitoring and Reporting

CoA C14 requires that Construction Monitoring Programs must be developed and implemented for the following issues:

- Noise and vibration;
- Water usage;
- Air quality; and
- Physical condition of local roads.

These monitoring programs are contained within the relevant sub-plans. The results of the monitoring programs will be submitted to the Planning Secretary, and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program (6 monthly).

Monitoring programs will be implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Planning Secretary, whichever is the greater.

All reporting and communication processes and procedures are included in Inland Rail's EMS and discussed in detail in Inland Rail's CSEMP. Managing and reporting of incidents and non-compliances will be undertaken in accordance with Inland Rail's Environmental Delivery Management Procedure (0-0000-900-PMP-00-PL-0009). The associated procedural steps are summarised as:

- Notify the Supervisor/HSE Manager of the event, whether it be an incident, a non-compliance or a non-conformance;
- Determine the event classification;
- Manage the event in accordance with the requirements of the procedure's Environment Incident Severity Classification and Incident Management Process;
- Ensure the event is recorded in Horizon 360;
- Notify appropriate stakeholders and regulators in accordance with the procedure's Incident Notification and Reporting Matrix;
- Undertake relevant event investigation/s; and
- Periodically review all recent investigations and associated corrective actions to determine any trends.

DPHI's Compliance Reporting Post Approvals Requirements (May 2020) does not require pre-construction, construction or pre-operational compliance reporting, however compliance reporting will be undertaken in accordance with CoA A31 – A34.

Communication to the ER will be from the HSE Manager or Project Manager (or delegate) and Inland Rail Project Environmental Advisor will be on all shared communication.

#### Table 18 outlines Inland Rail's compliance monitoring and reporting programs.

Table 17: Compliance Monitoring and Reporting requirements

ASPECT	REQUIREMENT	SCHEDULE
MONITORING		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

## ARTC INLAND RAIL

#### Soil and Water Active discharge water will be monitored Prior to discharge. • (CoA C14(b)) to ensure it meets the relevant discharge In accordance with the procedure detailed in . criteria. the Construction Soil and Water Management sub-Plan. All dewatering records managed via an internal Permit to Discharge on PPW / SharePoint. Water use records (incl. by type of water) • managed in Resource Use feature of Project PPW / SharePoint. Noise and Monitoring of noise and vibration At times and locations specified in the • vibration (CoA generating activities and comparison Construction Noise and Vibration C14(a) against CSSI predicted performance. Management Plan (CNVMP). Where ground-borne noise and vibration • generating activities are identified to occur within the safe working buffer distances outlined in Section 12.2 of the SPIR. Noise monitoring in the community will be • undertaken to verify the noise level contribution from ground borne noise generating activities. Vibration monitoring will be undertaken at the • potentially most affected receptors identified in the EIS from the commencement of vibration generating activities to confirm that the vibration levels at the nearest sensitive receptor are compliant with the criteria outlined in the EIS. Vibration monitors will be installed at . potentially affected sensitive heritage receivers (e.g., Bellata Station). All noise & vibration monitoring records • managed in the noise & vibration monitoring feature of PPW / SharePoint Air quality Monitoring dust generating activities. Daily and weekly site visual inspections. • (CoA C14(c)) Daily weather monitoring. Plant/equipment inspections prior to use. • On-going aerosol dust monitoring during dust generating activities. At locations and events to be specified in the . Construction Soil and Water Management Sub-Plan. All air emissions monitoring records managed • in the air emission monitoring feature of PPW / SharePoint. **Biodiversity** Compliance with Biodiversity sub-plan Inspection of the operation of biodiversity • management works installed on the project. At least weekly during normal construction . hours Prior to any site closure of greater than 24 hours Biodiversity inspection records managed in . the Inspections feature of Soteria. Monitoring of construction activities to Heritage • Weekly inspections and monitoring of mitigate / manage impacts on heritage construction activities to ensure compliance structures and archaeological sites.

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

# ARTC INLAND RAIL

		<ul> <li>with the requirements of the Construction Heritage Management Sub-Plan.</li> <li>The Weekly Environmental Inspection Checklist will be used to maintain compliance and effectiveness of controls.</li> <li>Vibration monitoring of sensitive heritage structures.</li> <li>Heritage inspection records managed in the Inspections feature of Soteria.</li> <li>Vibration monitoring records managed in noise &amp; vibration monitoring in PPW / SharePoint.</li> </ul>
Physical condition of local roads (CoA C14(d))	Monitoring the impact of construction vehicles on the condition of local roads utilised during the construction phase of the CSSI.	<ul> <li>Dilapidation inspection(s) undertaken prior to the commencement of construction activities.</li> <li>General road condition observations documented in site daily dairies by the Site Supervisor.</li> <li>Regular inspection(s) of road condition shall be undertaken by the Projects Engineering Personnel.</li> <li>Monthly reporting to ARTC on traffic, transport and access will be recorded through Project Monthly Reports.</li> </ul>
Environmental Complaints	Monitoring of the number and types of complaints and compliance with the Community and Stakeholder Engagement Management Plan.	<ul> <li>Monthly.</li> <li>Environmental complaints verified as a substantiated breach, exceedance, non-conformance or non-compliance with a requirement, approval, CoA etc is registered as an incident and managed in Soteria.</li> <li>Unsubstantiated complaints managed as a diary entry in PPW.</li> <li>Any other complaint, record or conversation or interaction with public or stakeholder managed as a diary entry in PPW.</li> </ul>
Approvals and licences register statusAs specified in Section 6.4.		<ul> <li>Monthly managed in the Approvals and Licences Register of PPW.</li> </ul>
REPORTING		
Audit reports	Inland Rail EMS audits to be undertaken by external auditor. Project audits to be undertaken by the John Holland Regional Environmental Manager (or delegate).	• Six monthly and managed in Soteria.
Compliance tracking report	Identifies progress and evidence of compliance against each compliance requirement.	<ul> <li>Annually, within 15 Business Days of each construction commencement anniversary date.</li> <li>Compliance tracking against Contract and Conditions of Approval for licences, approvals and permits managed via the Obligations Register feature of PPW.</li> </ul>
Compliance reportingProvision of details of any review of, and minor amendments made to, the CEMP resulting from construction carried out during the reporting period.		<ul> <li>Every 26 weeks following commencement of construction.</li> <li>Compliance tracking against Contract and Conditions of Approval for licences, approvals</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

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		and permits managed via the Obligations Register feature of PPW.
	Annual Compliance Reporting is required to the Department of Agriculture, Water and the Environment (DAWE) in accordance with Condition 6 of the EPBC Approval EPBC2016/7729.	<ul> <li>Prepare a Compliance Report for each 12- month period following the commencement of the action.</li> </ul>
Incident reports	<ul> <li>Notification to Inland Rail Environment Manager of all Environment incidents</li> <li>Incident notification to ARTC in writing on IREnvironmentCompliance@A RTC.com.au and via Aconex.</li> <li>Reports to ARTC, including final information on Action Required Target, Completion Date, Person Responsible, Risk Level and Closeout information / Date.</li> </ul>	<ul> <li>Immediately after becoming aware of the incident.</li> <li>Immediately after Inland Rail Environment Manager becomes aware of an incident.</li> <li>Within 30 days of the date on which the incident occurred</li> <li>All incident reports, investigations and internal notifications managed in Soteria / SharePoint.</li> </ul>

#### 8.9.2 Other Monitoring and Reporting

In addition to the CoA monitoring requirements, Inland Rail will undertake monitoring and reporting for contractual and internal management obligations. Information relating to the N2NS objectives and targets (see Section 8.4.2)

shall be aggregated in accordance with the Performance Statistics - Safety, Quality, Environment for inclusion in the Environment Dashboard (see Section 8) that is provided monthly to Executive Management and the Region HSEQS teams.

Table 18: Inland Rail's other monitoring and reporting programs on the Project	

OTHER MONITORING AND REPORTING REQUIREMENTS	REQUIREMENT	SCHEDULE		
MONITORING				
Resource usage	Consumption data for energy, water, etc. used on the project. Compare actual consumption versus consumption predicted in the Sustainability Management Plan.	<ul> <li>Monthly.</li> </ul>		
Concrete and Steel	Consumption data for concrete, steel, etc. used on the project. Compare actual consumption versus consumption predicted in the Sustainability Management Plan.	<ul> <li>Monthly.</li> <li>Data managed in Aconex/sharepoint - Waste records</li> </ul>		
Waste	Volumes of waste reused, recycled or recovered. Exported waste disposal location/s Regulated waste as specified under Schedule 1 of the Protection of Environment (Waste) Regulation 2014	<ul> <li>Monthly.</li> <li>Data managed in Aconex/sharepoint - Waste records</li> </ul>		

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

REPORTING			
Site inspection reports	<ul> <li>Environmental inspection report Submitted to the Inland Rail Project Director, Environment Manager, Construction Manager and Supervisor.</li> <li>Weekly Inspecting managed in Hor Observations are observations are the Daily Diary is an environment observation is more requires document</li> </ul>		
Management reports	Progress reports including non- compliances, non-conformances, issues and corrective actions submitted to the Inland Rail Project Director.		
Environmental Return	Report against environmental metrics contained within Appendix E in Section D of the RFT and in the format provided in Section 7 of ARTC's Construction Monthly Progress Report.	pendix E in the DMS / SharePoint. T and in the Section 7 of	

#### 8.10 Environmental Auditing

The purpose of auditing is to assess compliance with the CEMP and associated management plans, CoA's and any relevant legal and other requirements (e.g. licences, permits, regulations, N2NS contract documentation).

Audit findings will be recorded for action and close out. The action records will include details on the source of the action (e.g. audit, inspection or other), the action required, target close out date, actual close out date and the person responsible for the action item.

#### 8.10.1 Internal Audits

Inland Rail will conduct internal HSE audits of the Project at least every six months (or more frequently if project risk requires) to provide information on whether the EMS and CEMP:

- Conforms to Inland Rail's own requirements for its EMS.
- · Conforms to the requirements of the International Standard; and
- Is effectively implemented and maintained.

In accordance with Inland Rail's Monitoring and Review Procedure, Inland Rail will establish, implement and maintain an internal audit programme for the Project, including the frequency, methods, responsibilities, planning requirements and reporting of its' internal audits. When establishing the internal audit programme, Inland Rail shall take into consideration the environmental importance of the processes concerned, changes affecting the Project and the results of previous audits.

#### 8.10.2 Independent Audits

Independent Audits will be carried out in accordance with DPIE's Independent Audit Post Approval Requirements (May 2020). ARTC will coordinate audits of this nature. Inland Rail will fulfil all requests from

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

ARTC and others as they relate to completion of audits. Inland Rail will also provide information in the specified form and format as requested by the auditors and/or ARTC.

DPIE's Compliance Reporting Post Approvals Requirements (May 2020) includes a minor increase in the frequency of independent auditing. The revised independent audit frequency will ensure environmental performance and regulatory compliance is maintained.

#### 8.11 Environmental Management Procedures, Forms and Other Documents

The Project's EMS procedures, project specific procedures, forms and other documents provide instructions and records related to both environmental and non-environmental activities throughout the Project.

Procedures and forms used will be developed and implemented by Inland Rail. Records will be held on site by Inland Rail in electronic / hard copy form. Any relevant procedures or forms have been appended to the applicable sub-Plan.

The Inland Rail Environment Manager is responsible for maintaining all environmental management documents and records as current at the point of use. Types of documents and records will include:

- All monitoring, inspection and compliance reports/records
- Correspondence with public authorities
- Induction and training records
- Reports on environmental incidents, other environmental events and follow-up action
- Minutes of CEMP and construction environmental management system review meetings and evidence of any action taken
- CEMP and sub-plans
- ECMs, CNVIS, SEPs, ESCPs and any other environmental documentation
- Environmental audit reports
- All environmental procedures, plans, strategies, protocols and programs
- Records and disposal dockets for all was which will be classified in accordance with the EPA's Waste Classification Guidelines (CoA E90).

All records and documents associated with the project required by legislative, approval and permit and contract requirements will be retained by Inland Rail for the periods specified and made available to the Department upon written request.

Only the Inland Rail HSE Manager, or delegate, has the authority to change any of the environmental management documentation.

Management of documentation is discussed further below.

#### 8.11.1 Documentation

Document Control will be undertaken in accordance with Inland Rail's Project Documentation Control Procedure (0-0000-900-PIM-00-PR-000).

The Inland Rail EMS includes:

- Documented information required by the ISO 14000 series of standards.
- Documented information determined by Inland Rail as being necessary for the effectiveness of the EMS.

When creating and updating documented information, the Project will ensure appropriate:

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- Identification and description (e.g., a title, date, author, or reference number)
- Format (e.g., language, software version, graphics) and media (e.g., paper, electronic)
- Review and approval for suitability and adequacy.

Documented information required by the EMS and by the Standard (including reports and records) shall be controlled to ensure:

- It is available and suitable for use, where and when it is needed.
- It is adequately protected (e.g., from loss of confidentiality, improper use, or loss of integrity).

For the control of documented information, the Project shall address the following activities as applicable:

- Distribution, access, retrieval, and use
- Storage and preservation, including preservation of legibility.
- Control of changes (e.g., version control)
- Retention and disposition.

Documented information of external origin determined by the Project to be necessary for the planning and

operation of the EMS shall be identified as appropriate and controlled.

#### 9 Communication and Complaints Management

#### 9.1 Communication

Inland Rail is committed to ensuring effective consultation is undertaken on a regular basis at all levels of the Project. A high level of communication is an important factor in the successful and correct delivery of environmental outcomes on the project and it will ensure environmental performance is continuously communicated, understood and improved across the Project.

Inland Rail's Communication Strategy provides a clear framework for active communication and stakeholder engagement management. The Communication Strategy outlines how Inland Rail will meet best practice community and project outcomes by keeping the community and other stakeholders informed, minimising potential impacts and responding to the needs and requirements of stakeholders. The Communication Strategy contains procedures and strategies to manage community and stakeholder engagement activities as they align to the Project delivery program. To the extent practicable, Inland Rail will provide stakeholders open and transparent consultation.

#### 9.2 Internal Communication

Inland Rail place a strong focus on internal communications, recognising that clear lines of communication throughout all levels and functions (e.g., management, staff, and subcontractors) are key to minimising environmental impacts and achieving continuous improvements in environmental performance.

The Community and Stakeholder Relations Team will act as the main interface between the Project, community, and stakeholders. As such, the Community and Stakeholder Relations Team will be proactive in keeping the wider team informed and engaged with regards to the community they are working in.

The environment and sustainability team will meet fortnightly to discuss any issues with environmental management on site, any amendments to plans that might be required or any new/changes to construction activities.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Regular meetings may also be scheduled with the ER and relevant ARTC staff. The purpose of these meetings will be to communicate ongoing environmental performance and to identify any issues to be addressed.

Further internal communications regarding environmental issues and aspects will be through site meetings, toolbox talks, environmental inductions, awareness training, noticeboards, briefings, notifications, and alerts and daily pre-start meetings. These will provide an opportunity to communicate environmental performance, advise on any upcoming sensitive environmental matters for future work areas and to receive feedback from on-site personnel.

#### 9.3 External Communication

External communication during construction will be managed and conducted in accordance with the CSEMP as discussed in Section 9.1.

External stakeholders on the project include: ARTC/Inland Rail (the Client), DPIE; NSW EPA; TfNSW; Narrabri, Moree Plains and Gwydir Local Governments; local communities; and other relevant third-party agencies, government authorities and organisations.

External communication methods include:

- Site meetings with the Client
- All significant incidents notified to the client and ER/Approving or Licensing Authority
- Monthly reporting to ARTC
- Meetings and correspondence with interested parties (e.g., Local Governments and DPIE) as necessary
- Discussions with adjoining landowners / neighbours and the community who may be affected by the project.
- A Project website will be established in accordance with CoA B11 (see Section 2).

#### 9.4 **Project Website**

A website providing information in relation to the Project will be established before commencement of works and maintained for the duration of construction, and for a minimum of 12 months following the completion of construction or other timeframe as agreed with the Secretary. The following up-to-date information (excluding confidential, private and commercial information or other documents as agreed to by the Secretary) must be published prior to the relevant works commencing, or in the case of documents prepared in accordance with CoAs C1 and C4 when finalised in accordance with the requirements of this approval and maintained on the website or dedicated pages. In accordance with CoA B11, the Project Website will contain the following information:

- The current implementation status of the CSSI;
- A copy of the documents listed in CoAs A1, C1 and C4, and any documentation relating to any modifications made to the CSSI or the terms of this approval;
- A copy of the approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its terms), and copies of any approval granted by the

Minister to a modification of the terms of this approval;

- A copy of each statutory approval, licence or permit required and obtained in relation to the CSSI;
- Where a condition(s) of the CoA requires a document(s) to be prepared before work, construction or
  operational activity commences, a current copy of the relevant document(s) must be published on
  the website before the work, construction or operational activity is undertaken;



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- A current copy of each document required to be made publicly available under this approval must be published within 14 days of the finalisation or approval of the relevant document, unless an alternate timeframe is prescribed by another CoA.
- The results of any monitoring undertaken as a requirement of the EPL.

#### 9.5 Complaint Management

During construction, any comments, feedback or complaints relating to noise, air quality and other amenity issues will be addressed via Inland Rail's Complaints Management Handling Procedure 0-0000-900-PCS-00-PR-0002\_3. The Complaints Management System includes a complaints register within the stakeholder database Consultation Manager. The complaints register has been developed in accordance with AS 4269: Complaints Handling. The information contained within the Complaints Register will be made available to the Secretary upon request.

Attempts will be made to resolve all complaints in accordance with the CSEMP. An initial response to complaints will be provided within 24 hours of a complaint being received. A written response will be drafted for complaints and enquiries that cannot be resolved by the initial or follow up verbal response. The response will be provided to the complainant within 10 days.

#### 10 Incidents, Emergencies and Non-Conformity

Environmental incidents will be required to be reported to Inland Rail's Project Manager and Environmental Managed and managed in accordance with the Inland Rail event management system.

#### 10.1 Incident and Emergency Response Plan

In the event of an environmental, social performance, sustainability, heritage or other incident, the Incident and Emergency Response Plan will be implemented, as required. The Incident and Emergency Response Plan will be supported by Inland Rail's Horizon 360 as discussed in Section 8.1.1. The Incident and Emergency Response Plan will address the requirements of the POEO Act, EPBC Act, CoA, BC Act, ARTC's Project Environmental Incident and Reporting Procedure (5-9020-0000-EEC-PR0001), Inland Rail's Incident and Event Management procedure and relevant project approvals or licences.

The Incident and Emergency Response Plan will include:

- Site Emergency Plans and details regarding when the plans will be implemented.
- Emergency response and induction procedures
- Incident definition, notification and reporting requirements (as required by indicative CoAs A37 and A38)
- List of key emergency personnel, a list of internal personnel and external agencies names, numbers and specific responsibilities for emergency planning and response.

The Incident and Emergency Response Plan will be kept on the Project EMS and at site offices.

All efforts will be undertaken immediately to avoid and reduce impacts of incidents. However, in the event of an incident, all required action will be taken to resolve it as quickly as possible in accordance with the Incident and Emergency Response Plan.

In the event of an environmental incident, immediately notify the Inland Rail's Environment Manager and/or Environment Coordinator.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### **10.2 External Reporting**

Should an environmental event greater than Report Only or Class 3, (as per Appendix F; Inland Rail Environment Incident Severity Classification Table or potential non-compliance with Environmental Statutory Requirements occur, Inland Rail personnel will immediately inform the Inland Rail Senior Environmental Advisor via Aconex and IREnvironmentCompliance@ARTC.com.au.

Enough detail should be provided to Inland Rail to allow a determination as to whether notification is required to regulators (as per SSI 7474 Approval requirements, EPBC 2016/7729 Approval requirements and/or any other Statutory Requirements).

#### 10.2.1 State Approval Requirements SSI 7474

#### 10.2.1.1 Incident

The SSI 7474 Approval defines an "incident" as 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. "Material harm" is defined in the approval as "harm that:

- Involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or
- 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)."

All Inland Rail staff, contractors and subcontractors will notify Inland Rail (the Proponent of the SSI 7474 Approval) within twelve hours of becoming aware of an incident with sufficient detail for regulator notification. Initial notification in writing shall be made to DPHI by Inland Rail immediately after becoming aware of the incident as per CoA A41. This notification must identify the SSI (including the application number and the name of the SSI) and set out the time, date, location and nature of the incident.

Further written notification will also be provided to DPHI by Inland Rail at compliance@planning.nsw.gov.au within 7 days after becoming aware of an incident in accordance with Appendix B of SSI 7474 Approval conditions. This notification will:

- identify the SSI and application number;
- provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- identify how the incident was detected;
- identify when Inland Rail became aware of the incident;
- identify any actual or potential non-compliance with CoA;
- describe what immediate steps were taken in relation to the incident;
- identify further action that will be taken in relation to the incident; and
- identify a project contact for further communication regarding the incident.

(a) Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, sufficient information must be provided to Inland Rail so as to allow the preparation and submission to the Planning Secretary and any relevant public authorities (as determined by the Planning

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Secretary) a detailed report on the incident addressing the requirements below and such further reports as may be requested:

- a summary of the incident;
- outcomes of an incident investigation, including identification of the cause of the incident;
- details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
- details of any communication with other stakeholders regarding the incident.

#### 10.2.1.2 Non-compliance

The SSI 7474 Approval defines a "non-compliance" as "An occurrence, set circumstances or development that is a breach of this approval but is not an incident". All Inland Rail staff, contractors and subcontractors will notify Inland Rail (the Proponent) within twelve hours of becoming aware of a non-compliance with the SSI 7474 Approval.

In the event of a non-compliance, Inland Rail will notify DPHI in writing via compliance@planning.nsw.gov.au. The notification will:

- any condition which is or may be in breach;
- a short description of the incident and/or non-compliance; and
- the location (including co-ordinates), date, and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.

#### 10.2.2 Incident reporting – Federal Approval Requirements EPBC 2016/7729

- The EPBC (2016/7729) Approval defines an "incident" as any event which has the potential to, or does, impact on one or more protected matter(s). Inland Rail staff, contractors and subcontractors will notify Inland Rail (the approval holder) within twelve hours of becoming aware of a non-compliance with the EPBC 2016/7729 Approval with sufficient information for regulator notification.
- Initial notification in writing shall be made to the Department of Agriculture, Water and the Environment by Inland Rail at post.approvals@environment.gov.au as soon as practicable and no later than two business days after becoming aware of an incident or non-compliance with the conditions of the EPBC 2016/7729 Approval, or non-compliance with the commitments made in any element of the CEMP. The notification will be made in accordance with condition 7 of the Approval, and will specify:
- any condition which is or may be in breach;
- a short description of the incident and/or non-compliance; and
- the location (including co-ordinates), date, and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.

Further written notification will also be provided to DAWE by Inland Rail within 10 business days after becoming aware of an incident or non-compliance as per Condition 8 of the EPBC 2016/7729 Approval. This notification will specify:

- any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;
- the potential impacts of the incident or non-compliance; and
- the method and timing of any remedial action that will be undertaken by the approval holder.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### **10.2.3 Other requirements**

Incidents are required to be reported to DPE in accordance with the SSI 7474 Approval. Depending on the location, scale, and nature of the incident, other regulatory authorities may also be notified (i.e. Commonwealth Department of Climate Change, Energy, the Environment and Water, NSW EPA, NSW DPI, Council/s, etc). Inland Rail's Environment Manager will determine where additional regulatory authorities require notification.

Incident and non-compliance reports will include lessons learnt and proposed measures to prevent the occurrence of a similar incident, and will be recorded in the EMS reporting system. Inland Rail will provide records of all environmental incidents and regulatory action to the ER immediately and in any event within 12 hours of becoming aware of any incident. Environmental Alerts for distribution within the Project may also be raised at the discretion of the Inland Rail Environment Manager. The Project Director or delegate will notify senior management as appropriate, in accordance with the severity and status of the incident.

The crisis communication procedure will be detailed in the Crisis Communication Sub-Plan of the CSEMP.

#### **10.3 Non-Conformance Events**

A non-conformance is a failure to comply with a requirement, standard or procedure within the CEMP or associated document/s. Environmental non-conformances may be identified through improvement opportunities, regular environmental inspections (including ER inspections) or monitoring, internal or external audits, complaints, community consultation, observations or through incident management. The ER, Inland Rail Representative and/or a public authority may also raise a non-conformance or improvement notice. Any member of the Project team may raise a non-conformance or improvement opportunity. Monitoring and review is undertaken in accordance with Inland Rails Monitoring Review procedure.

Non-conforming activities may be stopped, if considered necessary, by the Inland Rail Environment Manager, Environmental Coordinators or other project personnel. The works will not commence until a corrective / preventative action has been closed out.

Where non-conformances are identified, they will be recorded on an environmental action list within the Inland Rail's Horizon 360 system that will be issued to the relevant supervisor for action. Actions will be assigned an implementation priority in a collaborative way by the inspection team based on environmental risk. Timeframes will be set to ensure any damage incurred is rectified and any chance of recurrence is eliminated as soon as practicable. Following corrective action, the Inland Rail Environment Manager will close out the non-conformance.

CoA C2 and REMM C6.2 specify that the CEMP must develop a procedure for Incident Management. Methods for rectifying any non-conformance identified during environmental auditing, review of conformance or incident management include Inland Rail's Non-conformance and Corrective Action procedure and Incident and Event Management procedure.

Inland Rail procedures can be supplied upon request.

#### 11 Sustainability Requirements

#### 11.1 Introduction

Inland Rail is firmly committed to ensuring the N2NS project is constructed with high levels of sustainability integrated throughout the project. Inland Rail will develop and implement a Construction Sustainability Management Plan (SuMP) that will be compliant with:

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

- Project Approvals
- Inland Rail Sustainability Implementation Framework (0-0000-900-ESS-00-RP-0001)
- Requirements specified in Schedule 10 (Sustainability) of the RFT
- CoAs E79.

Inland Rail has achieved an "Excellent" rating from the Infrastructure Sustainability Council of Australia's (ISCA).

#### 11.2 Sustainability Integration

Integration of sustainability throughout the project is paramount to ensure targets, objectives and criteria can be met. Inland Rail have therefore allocated Sustainability Champions and support leads for the respective Sustainability themes as identified in v1.2 of the ISCA Scorecard. These Champions and support leads are identified in Table 21.

#### Table 19: Sustainability Objectives Champions

CHAMPION	LEADERSHIP AND AWARENESS	ROTECT AND ENHANCE THE LOCAL ENVIRONMENT AND HERITAGE	OPTIMISE RESOURCE EFFICIENCY AND WASTE MANAGEMENT	SUSTAINABLE PROCUREMENT	PEOPLE	GOVERNANCE
Project Director	Р			S	S	Р
Commercial Manager	S		S	Р	S	S
Construction Manager	S	S	Р	S	S	S
Environment Manager	S	Р	S	S	S	S
Sustainability Manager	S	S	S	S	S	S
Community and Stakeholder Engagement Manager	S	S			Ρ	S
Health and Safety Manager	S				S	S

P = Primary, S = Support

#### 11.3 Objectives

In order to ensure consistency and hence ease of assessment and verification of Infrastructure Sustainability ratings for the Inland Rail Program, Inland Rail preliminary sustainability objectives and draft targets are described in the Inland Rail Sustainability Strategy (0-0000-900-ESS-00-RP-0003\_4) and these have been largely adopted these (with minor modifications) for the N2NS project. The Operational objective and targets are not included as they obviously are not relevant to the construction stage. Table 20 outlines the Program and proposed Project objectives and indicative project targets which contain slight modifications from the draft IR program targets.

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

#### Table 20: Inland Rail sustainability objectives and indicative targets

PROGRAM OBJECTIVES	INLAND RAIL N2NS DRAFT OBJECTIVES AND INDICATIVE TARGETS
Leadership and Awareness	<ul> <li>Leadership and Awareness</li> <li>Achieve an Infrastructure Sustainability (IS) rating of 'Excellent' for IR.</li> <li>Deliver appropriate training/education to all Inland Rail team members.</li> <li>Regular report on objectives and targets</li> </ul>
Protect and enhance the local environment and heritage (European and indigenous)	<ul> <li>Protect and enhance the local environment and heritage (European and indigenous)</li> <li>Vegetation clearance is minimised as much as is practicable.</li> <li>No serious pollution incidents occur during construction and operations.</li> <li>Heritage items are avoided where possible and proactively managed during construction.</li> </ul>
Optimise resource efficiency and waste management	<ul> <li>Optimise resource efficiency and waste management <ul> <li>Identify and implement opportunities to reduce material use and maximise the use of materials with low embodied environmental impact.</li> <li>Reduce construct greenhouse gas (GHG) emissions by 15%.</li> <li>Landfill diversion targets: <ul> <li>80-100% by volume of spoil</li> <li>50-90% by volume of inert and non-hazardous waste</li> <li>III. 40-60% by volume of office waste</li> </ul> </li> <li>Water: <ul> <li>Reduce potable water by 10% across IR from the base case Π Reuse 50% of wastewater on site</li> </ul> </li> </ul></li></ul>
Sustainable procurement	<ul> <li>Sustainable procurement</li> <li>Consider whole of life and environmental, social and economic impacts in tender evaluation criteria.</li> <li>Implement a sustainability procurement policy.</li> <li>Undertake engagement activities with supply chain to raise sustainability awareness.</li> <li>Utilise ISO 20400:2017 Sustainable Procurement – Guidance as a framework for Inland Rail procurement.</li> </ul>
People	<ul> <li>People</li> <li>Workforce Management – creating opportunities for the development of skilled local and Indigenous workers.</li> <li>Local and Indigenous Industry participation by supporting local and Indigenous businesses to provide opportunities to work with Inland Rail.</li> <li>Housing and Accommodation – to utilise local workers for Inland Rail to reduce the need for non-resident workers. Where accommodation is required for the workforce, it will be delivered in ways that avoid adverse social impacts and enhance economic benefits for local communities.</li> <li>Community health and wellbeing – supporting community wellbeing during the changes that the N2NS project will bring.</li> <li>Stakeholder and community engagement – Inland Rail will actively engage with stakeholders and the community.</li> </ul>

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Governance	<ul> <li>Governance</li> <li>Ensure reporting on sustainability objectives is built into standard reporting processes across Inland Rail.</li> <li>Share sustainability lessons learnt with Inland Rail contractors and subcontractors.</li> <li>Continually seek to improve systems and processes based on lessons learnt.</li> </ul>
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### **11.4 Documentation**

Inland Rail appreciate that a culture of sustainability needs to be created, so that all team members are empowered to achieve sustainability across the project. Inland Rail's SuMP will include processes and activities to ensure a Sustainability culture permeates the project. Developing a sustainability education and awareness program will help keep Inland Rail challenge business as usual.

### 12 CEMP Review and Revision Process

As discussed in Section 8.11, this CEMP is a 'live' and 'working' document. As required by Inland Rail's EMS requirements, the Environment Manager will conduct regular reviews of the CEMP at intervals of not less than six months and ensure that the CEMP is formally reviewed and updated at least annually, or earlier as change requirements dictate. Should the document review process identify any issues or items within the documents that are either redundant or in need of updating, it is the responsibility of Inland Rail's Environment Manager to coordinate preparation of the revised documents.

Where any revisions to the management plans, strategies or programs are made, the revised document will be issued to the ER for certification / acceptance of the changes prior to submission to DPE.

In accordance with CoA A28 (i); the ER may consider any minor amendments to be made to the CEMP, CEMP Sub-Plans and Construction Monitoring Programs that comprise updating or are of an administrative nature, and are consistent with the terms of this approval and the CEMP, CEMP Sub-plans and Construction Monitoring Programs approved by the Planning Secretary and, if satisfied such amendments is necessary, approve the amendment. This does not include any modifications to the terms of this approval.

### 12.1 Continuous Improvement

Continuous improvement of this CEMP will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

The continuous improvement process:

- Identifies areas of opportunity for improvement of environmental management and performance;
- Determines the cause or causes of non-conformances and deficiencies;
- Develops and implements a plan of corrective and preventative action to address any nonconformances and deficiencies;
- Verifies the effectiveness of the corrective and preventative actions;
- Documents any changes in procedures resulting from process improvement; and
- Makes comparisons with objectives and targets.



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

As outlined in Section 8, Inland Rail will utilise its Environmental Management System (EMS) for the N2NS Project. The basis for the Inland Rail EMS (and this CEMP) is the concept of Plan-Do-Check-Act (PDCA). The PDCA model provides an iterative process to achieve continuous improvement.

Continuous improvement measures detail in this CEMP have been developed in accordance with Inland Rail's Monitoring and Review Procedure.



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### Appendix A Compliance Matrix Tables and Legal Register

EPBC2016/7729 – CONDITIONS OF APPROVAL								
Condition Reference	Details	Where addressed						
PART A CONDITIONS SPECIFIC TO THE ACTION								
C1(a)	Implement conditions C4 and C9 of Part C, Schedule 2 of the State Infrastructure approval, of where they relate to monitoring, managing, avoiding, mitigating, offsetting, recording or reporting on, impacts to protected matters, with the exception of C9(a)	This CEMP and sub-Plans						
1(b)	Ensure that the Weed Management Plan included in the Biodiversity Sub plan required under condition C9 of Part C, Schedule 2 of the State Infrastructure approval, includes appropriate weed control measures to prevent the introduction and/or spread of weeds from construction areas to any retained area of Belsons Panic (Homopholis belsonii), Natural Grassland on Basalt and Fine Textured Alluvial Plains of Northern New South Wales and Southern Queensland, Brigalow (Acacia harpophylla dominant and co dominant) and Weeping Myall Woodlands ecological communities.	BMP						
1(c)	Implement biodiversity conditions E17-E21 and E23-E26 of Part E Schedule 2 of the State Infrastructure approval, where they relate to monitoring, managing, minimising, reducing, avoiding, mitigating, offsetting, recording, or reporting on, impacts to protected matters.	This CEMP and BMP						
1(d)	For any aspect of the action, for the period of which the approval has effect, the approval holder must not exceed the maximum impacts to protected matters specified under the State Infrastructure approval.	This CEMP						
PART B- STANDARD ADMINIS	TRATIVE CONDITIONS							
2	The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.	Section 8.11						

4	The approval holder must maintain accurate and complete compliance records.	Section 8.11
5	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request	Section 8.11
ANNUAL COMPLIANCE REPORTING		
6	The approval holder must prepare a compliance report for each 12- month period following the date of commencement of the action, or otherwise in accordance with the annual date that has been agreed within writing by the Minister. The approval holder must: d) Publish each compliance report on the website within 60 business days following the relevant 12-month period; e) Notify the Department by email that a compliance report has been published on the website and provide the weblink for the compliance report within five business days of the date of publication. f) Keep all compliance reports publicly available on the website until this approval expires;	Section 8.9.1
REPORTING NON-COMPLIANCE		
7	The approval holder must notify the Department in writing of any: incident, non-compliance with the conditions of this approval; or non- compliance with the commitments made in any element of the Construction Environmental Management Plan, (required under Part C- State Infrastructure approval) referred to in condition 1. The notification must be given as soon as practicable, and not later than two business days after becoming aware of the incident or non- compliance. The notification must specify: d) Any condition which is or may be in breach. e) A short description of the incident and/or non-compliance; and	Section 10

	f) The location (including co- ordinates), date and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.	
8	The approval holder must provide to the Department the details of any incident or non-compliance with the conditions of this approval or commitments made in any element of the Construction Environmental Management Plan (required under Part C, Schedule 2 of the State Infrastructure approval) referred to in condition 1 as soon as practicable and no later than 10 business days after becoming aware of the incident or non- compliance, specifying: d) Any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future. e) The potential impacts of the incident or non-compliance and; f) The method and timing of any remedial action that will be undertaken by the approval holder.	Section 10

SSI 7474 - CONDITIONS OF APPROVAL						
Condition Reference	erence Details Where addressed					
A1	The CSSI may only be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in the Inland Rail – Narrabri to North Star Environmental Impact Statement, Volumes 1-7 (prepared by GHD and dated November 2017), the Inland Rail – Narrabri to North Star Submissions Preferred Infrastructure Report (ARTC, dated December 2019) and (updated BDAR, RtS on the SPIR and RFI responses).	CEMP (Sections 3 and 4)				
A2	The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in in the documents listed in Condition A1 unless otherwise specified in, or required under, this approval.	CEMP (Section 3.1)				
A3	In the event of an inconsistency between the documents listed in Condition A1 or any other document required under this approval, and a term of this approval, the term of this	CEMP (Section 3.1)				

	approval prevails to the extent of the inconsistency. Note:	
	For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	
Α4	<ul> <li>The Proponent must comply with the written requirements or directions of the Planning Secretary, including in relation to:</li> <li>the environmental performance of the CSSI.</li> <li>any document or correspondence under the terms of this approval in relation to the CSSI (including the provision of such documentation or correspondence).</li> <li>any independent appointment or dismissal made in relation to the CSSI.</li> <li>any notification given to the Planning Secretary under the terms of this approval.</li> <li>any audit of the construction or operation of the CSSI.</li> <li>the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval);</li> <li>the carrying out of any additional monitoring or mitigation measures; and</li> <li>In respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard, or policy required to be complied with under this approval.</li> </ul>	This CEMP
Α5	<ul> <li>Where the terms of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary in accordance with the Department's Post Approval Guidance:</li> <li>Defining Engagement Terms (DPIE, 2020). The evidence must include: <ul> <li>documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval.</li> <li>log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them.</li> <li>documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations.</li> <li>outline of the issues raised by the identified party and how they have been addressed; and</li> <li>a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.</li> </ul> </li> </ul>	CEMP (Section 3), sub- Plans, Communication Strategy and CSEMP NOTE: The Communication Strategy as required under CoA B1 and B2 is being prepared by Inland Rail. The Communication and Stakeholder Engagement Management Plan (CSEMP) is being prepared by Inland Rail and aligns with the requirements of Inland Rail's Communication Strategy.

A6	Any document that must be submitted, or approval that must be obtained, within a timeframe specified in or under the conditions of this approval may be submitted within a later timeframe agreed with the Planning Secretary. This condition does not apply to the immediate written notification required in respect of an incident under Condition A41. The Proponent must provide supporting evidence so that the Secretary can consider the need, environmental impacts and consistency of any request. Note: Inaction and/or expedience will not be supported as justifications for need unless it can be demonstrated that there are beneficial environmental impacts associated with the request.	Noted
Α7	References in the terms of this approval to any guideline, protocol, Australian Standard, or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this approval.	Noted
A8	This approval lapses five (5) years after the date on which it is granted, unless works for the purpose of the CSSI are physically commenced on or before that date.	Noted
A16	Ancillary facilities that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if: they are located within or immediately adjacent to the construction boundary; and they are not located next to a sensitive receiver (including where an access road is between the facility and the receiver), unless the sensitive receiver landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and they have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and the establishment and use of the facility can be carried out and managed within the performance outcomes set out in the terms of this approval, including in relation to environmental impacts.	Section 6.4.1
A17	<ul> <li>The Proponent must prepare and submit for approval to the Planning Secretary one (1) month before the establishment of any construction ancillary facility (excluding minor construction ancillary facilities established under Condition A21) a Site Establishment</li> <li>Management Plan. The Plan must be prepared in consultation with the relevant council/s and TfNSW. The Site Establishment Management Plan must detail the management of the establishment of the construction ancillary facilities and must include:</li> <li>a description of activities to be undertaken during establishment of the construction ancillary facility (including indicative scheduling and duration of works to be undertaken at the site);</li> <li>figures illustrating the proposed operational site layout/s;</li> </ul>	SEMP (Appendix H)

	<ul> <li>a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the</li> </ul>	
	<ul> <li>commencement of site establishment works;</li> <li>details of how the site establishment activities described in subsection (b) of this condition will be carried out to:</li> <li>I. meet the performance outcomes stated in the</li> </ul>	
	<ul> <li>Interview performance outcomes stated in the documents listed in Condition A1, and</li> <li>II. manage the risks identified in the risk analysis undertaken in subsection (d) of this condition; and</li> <li>program for monitoring the performance outcomes, including a program for noise monitoring of site establishment activities.Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility or one Site Establishment Management Plan for all facilities. The approved Site Establishment of construction, the Site Establishment of construction, the Site Establishment Management Plan will cease to have effect and the CEMP required by Condition C1 will apply to the operation of ancillary facilities.</li> </ul>	
A18	The operation of an ancillary facility for construction must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition 0 and relevant Construction Monitoring Programs required by Condition C14 have been approved by the Planning Secretary. This condition does not apply to Condition A21.	CEMP (Section 8.3)
A19	Where possible, ancillary facilities must be accessed via existing public roads and/or the existing rail corridor. Access directly via classified roads should be avoided where access from an existing local road is reasonably available. Where access via existing roads or the rail corridor is not possible, the Proponent may utilise existing private access tracks on private property but only with the written permission of the landowner. The Proponent must consult with each landowner whose property is required for access and agree on the terms and conditions relating to access arrangements. Nothing in this condition prevents the landowner from refusing the Proponent access to and via their land. New construction access tracks on private property must comply with the requirements of Condition A16.	TTAMP Section 6.4.1 and Section 6.4.2
A20	The Proponent must ensure that all roads / tracks that will be used to access construction ancillary facilities are to the standard necessary to provide access as agreed with landowners and the relevant roads authority, including a trafficable surface suitable to accommodate the type of vehicle movements that are anticipated to be associated with the construction of the CSSI.	TTAMP Section 6.4.1 and Section 6.4.2

A21	<ul> <li>Facilities including lunch sheds, office sheds, material lay down sites, stockpile areas, areas used to assemble infrastructure, and portable toilet facilities can be established and operated where they satisfy the following criteria:</li> <li>are located within the construction boundary; and</li> <li>have been assessed by the ER to have –</li> <li>I. low amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and</li> <li>II. low environmental impact with respect to waste management and flooding, and</li> <li>no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.</li> </ul>	Section 6.4.2
A22	Boundary screening must be erected around all ancillary facilities that are adjacent to and visible from sensitive receivers for the duration of use of the ancillary facility unless otherwise agreed with the relevant council and affected residents, business operators or landowners.	Section 6.4.1 and Section 6.4.2
A23	Boundary screening required under Condition A22 of this approval must minimise visual, noise and air quality impacts on adjacent sensitive receivers.	Section 6.4.1 and Section 6.4.2
A28 (d), (e) & (i)	For the duration of the works until 12 months after the completion of construction, the approved ER must: (d)review documents identified in Conditions A11, A17, A31, C1, 0 and C13, and any other documents that are identified by the Secretary, to ensure they are consistent with requirements in or under this approval and if so: (i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or (ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary (is the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary (is the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary / Department); (e)regularly monitor the implementation of the documents listed in Conditions A11, A17, A31, C1, 0 and C14, to ensure implementations being carried out in accordance with the document and the terms of this approval; (i) consider any minor amendments to be made to the CEMP, CEMP Sub-plans and Construction Monitoring Programs that comprise. updating or are of an administrative nature, and are consistent with	CEMP (Section 8.4)

	the terms of this approval and the CEMP, CEMP Sub-plans and Construction Monitoring Programs approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the terms of this approval;	
A31	Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Requirements outlined in the Compliance Reporting Post Approval Requirements (2020).	CEMP (Section 8.9.1)
A32	Compliance Reports must be submitted to the Department in accordance with the timeframes set out in the Compliance Reporting Post Approval Requirements (2020), unless otherwise agreed by the Planning Secretary	CEMP (Section 8.9.1)
A33	The Applicant must make each Compliance Report publicly available 60 days after submitting it to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	CEMP (Section 8.9.1)
A34	Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (2020), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an operational compliance report has demonstrated operational compliance.	CEMP (Section 8.9.1)
A41	During construction, DPIE must be notified in writing immediately after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one), and set out the time, date, location and nature of the incident. A description of whether the incident was a result of any actual or potential non-compliance with this approval should be provided within one week of the notification. The requirement to notify DPIE under this condition excludes incidents which are required to be notified to the Office of the National Rail Safety Regulator. Subsequent notification must be given, and reports submitted in accordance with the requirements set out in Appendix B – WRITTEN INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS	CEMP (Section 10.2)
C1	A Construction Environmental Management Plan (CEMP) must be prepared in accordance with the Department's Environmental Management Plan Guideline for Infrastructure Projects (DPIE, 2020) to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during all stages of construction.	This plan.
C2		
C3	The CEMP must be endorsed by the ER and then submitted to the Secretary for approval no later than one (1) month before the commencement of construction or where construction is staged, no later than one (1) month before the commencement of that stage.	Appendix A

C4	Consultarelevant consister (A) T (A) T T a (B) N V (C) B (D) S V (E) H (F) F	ation with the t councils ider	relevantified EMP REL AUT CON CEN TfNS Rele Grou Rele Grou DPC relev	evant councils, Water up, and EES C Heritage, RAPs and vant councils 5, EES and relevant		CEMP (Section 3) &relevant sub-Plans
C13	CEMP S The CE Secreta the ER, construe of that s and sub	Sub-plans hav EMP and CEM ary, including a , must be imple loction. Where t stage is not to	ve bee P Sul any m emen the C comr been e	nmence until the CEMP an en approved by the Secret b-plans, as approved by th ninor amendments approve nted for the duration of SSI is being staged, const mence until the relevant Cl endorsed by the ER and /.	ary. e ed by ruction	CEMP (Section 2.1)
C14	The follo prepare agencie Constru perform Conditio	lowing Constru- ed in consultat es and relevan uction Monitori nance of const nance predicte	uction ion w it cou ing Pr ructic id in t	n Monitoring Programs mus rith the relevant governmer incils identified for the rograms to compare actua on of the CSSI against the documents specified in RELEVANT GOVERNMENT AUTHORITIES TO BE CONSULTED FOR EACH CONSTRUCTION MONITORING PROGRAM	nt I	CEMP (Section 6.9.3) & relevant sub-Plans Noise and Vibration Monitoring Program (Appendix E of the Construction Noise and Vibration Management sub-Plan) Water Usage Monitoring Program (Section 7.2 of the Construction Soil and Water Management sub- Plan)

	(A) (B)	Noise and vibration Water usage	Nil Water group		Air Quality Monitoring Program (Appendix D of Construction Soil and Water Management sub-	
	(C) (D)	Air Quality Physical condition	Nil Relevant councils		Plan) Local Road Condition	
		of local roads			Monitoring Program (Section 11 of the Construction Traffic, Transport and Access Management sub-Plan)	
C18	Secre Moni	truction must not cor etary has approved a toring Programs, and fic construction activ	CEMP (Section 7.9)			
C19	Plann appro of co moni	ning Secretary includ oved by the ER must nstruction and for an	ing Programs, as approved ing any minor amendments be implemented for the du y longer period set out in th ecified by the Planning Sec	ration e	CEMP (Section 7.9) & relevant sub-plans	
C20	be su regul Cons in the When Cons	esults of the Constru- lbmitted to the Plann atory agencies, for ir truction Monitoring F relevant Construction re a relevant CEMP S truction Monitoring F CEMP Sub-plan.	CEMP (Section 7.9) & relevant sub-plans			
E87	dealt (a) w is no reaso (b) w is to l re-us requi of the and i regul (c) w possi mana the m Exen Envir Regu	with in accordance waste generation is to aste generation is to bonably practicable, waste ed, recycled, or recorrements. Protection of the Er ations; and here re-using, recycl ble, waste is to be tra agement facilityor pre- naterials or in accord option or Order issue onment Operations (	construction and operation i with the following priorities: be avoided and where avo aste generation is to be red ucing waste is not possible, vered in accordance with the nvironment Operations Act ing or recovering waste is n eated or disposed of at a w emise lawfully permitted to a ance with a Resource Reco d under the Protection of the Waste) y other place that can lawful	idance luced; waste ne 1997 not aste accept overy ne	CEMP (Section 7.7.6 & Appendix G)	
E88	proce	mportation of waste ess, reprocessing or ly with the condition	CEMP (Appendix G)			

	or be done in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, as the case may be.	
E89	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste. Note: Notice must be given to the relevant site/s as soon as possible, and no more than 14 days before the proposed waste disposal.	CEMP (Section 7.7.6 & Appendix G)
E90	All waste generated during construction and operation must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes.	CEMP (Appendix G)

REVISED MITIGATION MEASURES						
Condition reference	Detail Where addressed					
C1.1	Construction of the preferred infrastructure would be undertaken in accordance with the approved CEMP.	CEMP (Section 2 and 7.3)				
C2.1	A traffic, transport and access management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for impacts on the community and the operation of the surrounding road and transport environment. It would address all the aspects of construction relating to the movement of vehicles, pedestrians and cyclists, and the operation of the surrounding road network, including: construction site traffic control, parking and access arrangements construction material, equipment and spoil haulage, including arrangements for oversize vehicles road pavement and access road condition management of impacts to public transport, including school buses, pedestrian and cyclist access, and safety management of impacts to access for surrounding residents and business owners/operators arrangements for level crossings during construction road and driver safety. The traffic, transport and access management sub-plan would be developed in consultation with (where relevant) Narrabri Shire Council, Moree Plains Shire Council, Gwydir Shire Council, Roads and Maritime Services, and public transport/bus operators.	Construction Traffic, Transport and Access Management sub- Plan				
C3.1	A biodiversity management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for biodiversity impacts. The subplan would address, as outlined below: a pre-clearing survey and tree-felling procedure procedures to manage micro-bats avoiding impacts on surrounding vegetation (item C3.2) weed management (item C3.3) dewatering of standing pools in watercourses measure to minimise impacts on aquatic ecology	Construction Biodiversity Management sub-Plan				

C4.1	The Inland Rail NSW Construction Noise and Vibration Management Framework (provided in Appendix J) would be implemented, and the preferred infrastructure proposal would be constructed, with the aim of achieving the construction noise management levels and vibration criteria identified by the noise and vibration assessment. All feasible and reasonable noise and vibration mitigation measures would be implemented. Any activities that could exceed the construction noise management levels and vibration criteria would be identified and managed in accordance with the Inland Rail NSW Construction Noise and Vibration Management Framework and the CEMP. Notification of impacts would be undertaken in accordance with the communication management plan for the preferred infrastructure proposal.	Construction Noise and Vibration sub-Plan
C5.1	An air quality management sub-plan would be prepared and implemented as part of the CEMP. It would include measures to minimise the potential for air quality impacts on the local community and environment, and would address all aspects of construction, including: spoil handling machinery operating procedures soil treatments stockpile management haulage dust suppression monitoring.	Construction Soil and Water Management sub-Plan
C6.1	A soil and water management sub-plan would be prepared as part of the CEMP. It would include a detailed list of measures that would be implemented during construction to minimise the potential for soil and contamination impacts, including: allocation of general site practices and responsibilities material management practices stockpiling and topsoil management, including prompt stabilisation of spoil mounds (for example, through mixing of gypsum) surface water and erosion control practices that take into account site specific soil types (for example, dispersive soils).	Construction Soil and Water Management sub-Plan
C6.2	A contamination and hazardous materials sub-plan would be prepared and implemented as part of the CEMP. It would include: measures to minimise the potential for contamination impacts on the local community, workers, and environment procedures for incident management and managing unexpected contamination finds (an unexpected finds protocol).	Construction Soil and Water Management sub-Plan
D1.1	A CEMP would be prepared to detail the approach to environmental management during construction, as described in section 27.2 of the EIS, and in accordance with the conditions of approval.	This Plan

D8.7	An unexpected finds procedure would be developed and included in the CEMP to provide a consistent method for managing any unexpected Aboriginal heritage items discovered during construction, including potential heritage items or objects, and human skeletal remains.	Construction Heritage Management sub-Plan
D9.5	An unexpected finds procedure would be developed and included in the CEMP to provide a consistent method for managing any unexpected heritage items or human skeletal remains discovered during construction.	Construction Heritage Management sub-Plan

ENVIRONMENTAL PERFORMANCE OUTCOMES				
Key issue (as listen in the SEARS)	SEARS desired performance outcomes	Proposal specific construction environmental performance outcomes	Where addressed	
5 Air Quality	The project is designed, constructed and operated in a manner that minimises air quality impacts (including nuisance dust and odour) to minimise risks to human health and the environment to the greatest extent practicable. environmental protection licences.	environmental protection licences. • Dust generated during construction will not exceed the relevant criteria in the National Environment Protection (Ambient Air Quality) Measure and the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (Department of Environment and Conservation, 2005).	Water Management sub- Plan)	
6 Biodiversity	Offsets and/or supplementary measures are assured which are equivalent to any remaining impacts of project construction and operation.	<ul> <li>Potential impacts on biodiversity are managed in accordance with relevant legislation, including the EP&amp;A Act, TSC Act, FM Act, EPBC Act, and the Noxious Weeds Act 1993.</li> <li>The biodiversity outcome is consistent with the Framework for Biodiversity Assessment (OEH, 2014b).</li> <li>Offsets are provided in accordance with the NSW Biodiversity Offsets Policy for Major Projects (OEH, 2014c).</li> </ul>	Biodiversity Management sub-Plan	
8 Flooding	The project minimises adverse impacts on existing flooding characteristics. Construction and operation of the project avoids or minimises the risk of, and	<ul> <li>Construction is undertaken in a manner that minimises the potential for adverse flooding impacts, through staging of works</li> </ul>	Flood Emergency Management sub-Plan	

	adverse impacts from, infrastructure flooding, flooding hazards, or dam failure.	<ul> <li>and the implementation of mitigation measures.</li> <li>The proposal makes a positive contribution to local flooding characteristics by replacing existing drainage infrastructure.</li> <li>Structures such as spoil mounds are designed and located such that flows are not significantly impeded.</li> <li>The proposal reduces the length of overtopping of the existing rail corridor.</li> <li>The proposal reduces or does not significantly increase the area subject to flooding.</li> </ul>	
9 Health and Safety	The project avoids, to the greatest extent possible, risk to public safety.	<ul> <li>All dangerous goods are stored, handled and transported in accordance with relevant regulatory requirements and Australian Standards.</li> </ul>	Soil and Water Management sub-Plan
10 Heritage	The design, construction and operation of the project facilitates, to the greatest extent possible, the long- term protection, conservation and management of the heritage significance of items of environmental heritage and Aboriginal objects and places. The design, construction and operation of the project avoids or minimises impacts, to the greatest extent possible, on the heritage significance of environmental heritage and Aboriginal objects and places.	<ul> <li>Impacts on heritage are managed in accordance with relevant legislation, including the EP&amp;A Act, the Heritage Act 1977, and relevant guidelines.</li> <li>The potential impacts identified are mitigated by photographic/archival recording</li> </ul>	Heritage Management sub-Plan
11 Noise and vibration – amenity	Construction noise and vibration (including airborne noise, ground-borne noise and blasting) are effectively managed to minimise adverse impacts on acoustic amenity.	<ul> <li>The proposal minimises impacts to the local community by:</li> <li>controlling noise and vibration at the source</li> <li>controlling noise and vibration on the source to receiver transmission path</li> </ul>	Noise and Vibration Management sub-Plan

		<ul> <li>controlling noise and vibration at the receiver</li> <li>implementing practicable and reasonable measures to minimise the noise and vibration impacts of construction activities on local sensitive receivers.</li> </ul>	
12 Noise and vibration – structural	Construction noise and vibration (including airborne noise, ground-borne noise and blasting) are effectively managed to minimise adverse impacts on the structural integrity of buildings, items including Aboriginal places and environmental heritage, and nearby road infrastructure.	<ul> <li>The proposal minimises impacts to structures by:</li> <li>controlling vibration at the source</li> <li>controlling vibration on the source to receiver transmission path</li> <li>implementing practicable and reasonable measures to minimise vibration impacts of construction activities on structures.</li> </ul>	Noise and Vibration Management sub-Plan and Heritage Management sub-Plan
15 Soils	The environmental values of land, including soils, subsoils and landforms, are protected. Risks arising from the disturbance and excavation of land and disposal of soil are minimised, including disturbance to acid sulfate soils and site contamination.	<ul> <li>Site-specific soil, subsoil and landform characteristics are taken into consideration during detailed design and construction.</li> <li>Any contamination is managed in accordance with relevant regulatory requirements.</li> <li>Any soil waste is assessed, classified, managed and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014).</li> </ul>	Soil and Water Management sub-Plan
17 Traffic, transport and access	Network connectivity, safety and efficiency of the transport system in the vicinity of the project are managed to minimise impacts. The safety of transport system customers is maintained. Impacts on network capacity and the level of service are effectively managed. Works are compatible with existing infrastructure and future transport corridors.	<ul> <li>The proposal provides for more efficient and productive freight rail operations.</li> <li>Impacts to traffic and transport are minimised.</li> <li>Motorist, pedestrian and cyclist safety will be maintained or improved.</li> <li>The proposal contributes to one of the desired outcomes of Inland Rail –to have reduced truck volumes on the road network, improving road safety.</li> <li>Safe access to properties is maintained.</li> </ul>	Construction Traffic, Transport and Access Management sub-Plan

18 Visual amenity	The project minimises adverse impacts on the visual amenity of the built and natural environment (including public open space) and capitalises on opportunities to improve visual amenity.	<ul> <li>The proposal is integrated with existing and future local and regional transport infrastructure and planning strategies</li> <li>Vegetation providing screening to the rail corridor is retained where practicable.</li> <li>The proposal is designed to have regard to the surrounding landscape and visual environment.</li> <li>The proposal incorporates features to minimise the potential visual impacts where visual receptors are concentrated.</li> <li>The proposal makes a positive contribution to the quality of the visual environment in the vicinity of the Newell Highway and Jones Avenue overbridges, and the new bridges over the Mehi and Gwydir rivers and Croppa Creek.</li> <li>The proposal is visually integrated with its surroundings.</li> </ul>	
19 Waste	All wastes generated during the construction and operation of the proposal are effectively stored, handled, treated, reused, recycled and/or disposed of lawfully, and in a manner that protects environmental values.	<ul> <li>Waste is managed in accordance with the POEO Act and the WARR Act.</li> <li>Waste is assessed, classified, managed, and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014).</li> <li>Reusable spoil is beneficially reused in accordance with the project spoil reuse hierarchy.</li> </ul>	Appendix G - Waste and Resource Environmental Control Map
20 Water - hydrology	Long term impacts on surface water and groundwater hydrology (including drawdown, flow rates and volumes) are minimised. The environmental values of nearby, connected and	<ul> <li>The proposal avoids long term impacts to surface water.</li> <li>Opportunities to reuse water resources are considered during the design process.</li> </ul>	Construction Soil and Water Management sub- Plan

	affected water sources, groundwater and dependent ecological systems including estuarine and marine water (if applicable) are maintained (where values are achieved) or improved and maintained (where values are not achieved). Sustainable use of water resources.	•	The use of water during construction is minimised.	
21 Water - quality	The project is designed, constructed and operated to protect the NSW Water Quality Objectives where they are currently being achieved, and contribute towards achievement of the Water Quality Objectives over time where they are currently not being achieved, including downstream of the project to the extent of the project impact including estuarine and marine waters (if applicable).	•	The proposal is designed and constructed such that changes to water flows in watercourses are minimised. Water discharged does not exceed the ANZECC 2000 guidelines for protection of aquatic ecosystems or water quality trigger values. Impacts to water quality during construction and operation are minimised.	Construction Soil and Water Management sub- Plan

LEGAL REGISTER				
Act	Aspect	Requirement	Where addressed	
Environment Protection Biodiversity Conservation Act, 1999 (Cwlth)	Flora / Fauna and Matters of National Environmental Significance	<ul> <li>Part 13 - Do not kill, injure or take a member of a listed threatened species without a permit.</li> </ul>	Biodiversity Management sub-Plan	
		<ul> <li>Comply with the terms of any EPBC Act approval for the project.</li> </ul>	Biodiversity Management sub-Plan	
Crown Lands Act 1989	Crown Land	<ul> <li>S34A - Ministerial approval required to grant a 'relevant interest' over a Crown Reserve. Any works on Crown land are likely to occur pursuant to a relevant interest (i.e. licence, permit, easement or right of way) to be granted for works on this land.</li> </ul>	N/A	
National Greenhouse and Energy Reporting Act 2007 and Regulations 2008	Greenhouse gas Emissions	<ul> <li>Accounting and reporting of greenhouse gases produced and energy consumed during</li> </ul>	Sustainability Management Plan	

			construction. Applicability	
			dependent on thresholds.	
Biosecurity Act 2015	Biodiversity matters	•	S22 - The duty to prevent, eliminate and minimise biosecurity risks posed by biosecurity matters as defined by the Act.	Biodiversity Management sub-Plan
Biosecurity Regulation 2017	Pests and Disease	•	Regulation cl.7 - Notify the presence any pest or disease listed in Schedule 1 of the Biosecurity Regulation 2014, within 1 working day after suspecting or becoming aware of the pest or disease.	Biodiversity Management sub-Plan
Fisheries Management Act 1994	Fish passage	•	S219 - Do not block fish passage without a permit.	Exempt - Parts 5.23 of the EP&A Act
Biodiversity Conservation Act 2016	Fauna	•	S2.1 / S2.8 - Do not harm any animal that is; of a threatened species, that is part of a threatened ecological community or is a protected animal, unless authorised under other legislation (e.g. planning approval).	Biodiversity Management sub-Plan
	Habitat	•	S2.4 / S2.8 - Do not damage habitat of a threatened species or ecological community unless authorised under other legislation (e.g. planning approval).	Biodiversity Management sub-Plan
	Biodiversity	•	S2.3 / S2.8 - Do not damage declared areas of outstanding biodiversity value unless authorised under other legislation (e.g. planning approval).	Biodiversity Management sub-Plan
	Flora	•	S2.2 / S2.8 - Do not pick a plant that is; of a threatened species, that is part of a threatened ecological community or is a protected plant, unless authorised under other legislation (e.g. planning approval).	Biodiversity Management sub-Plan
Environmental Planning and Assessment Act 1979	All	•	S5.13 / S5.14 - The Project has been	CEMP (Section 4.3)

			declared critical State Significant Infrastructure (CSSI) by virtue of Schedule 5, clause 4 of State Environmental Planning Policy (State and Regional Development) 2011. Comply with the terms Minister for Planning's approval for the project. Obtain the Minister's approval for any project modifications that are not consistent with the planning approval	
Protection of the Environment Operations Act 1997	Environmental Protection	•	S115 / S116 / S117 - Do not risk harming the environment by wilfully or negligently: - Disposing of waste unlawfully - Causing any substance to leak, spill or otherwise escape (whether or not from a container) or - Emitting an ozone depleting substance.	CEMP (App G)
	Water Pollution	•	S120 / S122 - Do not cause water pollution (other than to a sewer), except in accordance with the conditions of an Environment Protection Licence.	Soil and Water Management sub-Plan
	Air Pollution	٠	S124 - Do not operate plant which emits air pollution caused by poor maintenance or operation.	Soil and Water Management sub-Plan
		•	S126 - Do not cause or neglect to prevent air pollution (eg dust exceeding reasonable levels without active management measures in place).	Soil and Water Management sub-Plan
		•	S129 - Do not cause or permit the emission of an offensive odour.	Soil and Water Management sub-Plan
	Plant operation and maintenance	•	S139 - Do not operate plant if it emits noise caused by poor maintenance or operation	Soil and Water Management sub-Plan

Materials Management	<ul> <li>S140 - Do not cause noise by failing to properly and efficiently deal with materials</li> </ul>	Soil and Water Management sub-Plan
Land Pollution	<ul> <li>S142 (A – E) - Do not cause or permit land pollution other than under authority of a licence or regulation. (However, it is not a land pollution offence to place virgin excavated natural material or lawful pesticides and fertilisers on land, or by placing matter on land that has been notified to the EPA as an unlicensed landfill and which is operated in accordance with the regulations.)</li> </ul>	Soil and Water Management sub-Plan
Waste	<ul> <li>Part 5.6A - Do not litter in a public place or an open private place. Do not litter from a vehicle. Only deposit advertising material in receptacles provided for mail or newspapers or under the door of the premises. Do not deposit advertising material on or in vehicles</li> </ul>	CEMP (App G) – Waste and Resource ECM
	<ul> <li>Part 3.2 - Do not undertake a scheduled waste activity unless in accordance with an environmental protection licence. A licence must be obtained when construction and demolition wastes are applied to land under certain circumstances. This includes the reincorporation of crushed road base material back into roads and the placing of excess fill material onto properties. A licence is not required if the material:</li> <li>Is VENM.</li> <li>Does not exceed 200 tonnes in the Sydney, Newcastle and Wollongong areas, or 20,000 tonnes outside these areas.</li> </ul>	CEMP (App G) – Waste and Resource ECM

		exemption materials aggregat exemption require s materials onto land - A licent more that metres) is site at an 30,000 to	red by a "general on". Current exempted a are ENM, recycled tes and raw mulch. These ons are conditional and ome chemical testing of a before they are placed d. ce must be obtained if in 2,500 tonnes (or cubic s stored on a stockpile by one time, or more than onnes of waste is received from off site.	
		٠	S143 - Only transport waste to a facility that can lawfully accept the waste.	CEMP (App G) – Waste and Resource ECM
		•	S115 - Do not dispose of waste in a manner that harms or is likely to harm the environment.	CEMP (App G) – Waste and Resource ECM
	ification of ution incidents	٠	S148 - Notify the EPA immediately of pollution incidents where material harm to the environment is caused or threatened.	CEMP (Section 10)
Inci	dent response	•	S153 (A - F) - Requires the holder of an EPL to prepare a pollution incident response management plan (PIRMP).	CEMP (Section 10)
Cor	ntrol equipment	٠	S176 - Properly and efficiently maintain and operate any installed pollution control equipment (including monitoring devices.	CEMP (Section 10)
Site	Licensing	•	cl. 35 - An Environment Protection Licence (EPL) under Chapter 3 of the POEO Act would be required for the construction of the project.	CEMP (Section 6.2)
		٠	S47 / S48 - Do not carry out or allow an activity listed in Schedule 1, or carry out work to enable such an activity, unless the premises are licensed by the EPA. This applies to: - Railway	CEMP (Section 6.2)

			Infrastructure Construction	
Protection of the Environment Operations (Waste) Regulation 2005	Waste	•	Regulation cl.49 - Comply with general requirements for the transport of waste. For example, any vehicle used by the person to transport waste must be kept in a clean condition and be maintained so as to prevent spillage of waste. For some wastes only licensed transporters can be used.	CEMP (App G) – Waste and Resource ECM
		•	Regulation Part 3 - Comply with record keeping requirements in relation to the transport of certain types of waste.	CEMP (App G) – Waste and Resource ECM
Waste Avoidance and Resource Recovery Act 2001	Waste Avoidance	٠	Establish the waste hierarchy. Promotes waste avoidance and resources recovery by developing waste avoidance and resource recovery strategies.	CEMP (App G) – Waste and Resource ECM
Environmentally Hazardous	Hazards and risk	٠	S28 - Obtain a licence to undertake prescribed activities involving environmentally hazardous chemicals or declared chemical wastes.	CEMP (App G) – Hazardous
Chemicals Act, 1985	Hazards and risk	•	S28 - Obtain a licence to undertake prescribed activities involving environmentally hazardous chemicals or declared chemical wastes.	CEMP (App G) – Hazardous Chemicals ECM
Dangerous Goods (Road and Rail Transport) Act 2008	Hazards and risk	٠	S9 - Ensure that dangerous goods are transported in a safe manner.	CEMP (App G) – Hazardous Chemicals ECM
Pesticides Act 1999	Hazards and risk	•	S12 - Use pesticides in an environmentally sensitive manner.	Biodiversity Management sub-Plan
		•	S13 - Do not use an unregistered pesticide without a permit.	Biodiversity Management sub-Plan

		•	S14 - Read the label or permit for the pesticide.	Biodiversity Management sub-Plan
		•	S15 - Use registered pesticides in accordance with instructions on the label.	Biodiversity Management sub-Plan
		•	S17 - Do not use any restricted pesticide unless authorised by a certificate of competency or a pesticide control order under the Act.	Biodiversity Management sub-Plan
Heritage Act 1977	Heritage	•	S56 / S57 - Do not undertake an activity that will affect a place, building, work, relic, moveable object or precinct which is subject to an Interim Heritage Order or is listed on the State Heritage Register without approval from the Heritage Council.	Heritage Management sub- Plan
		•	S139 - Do not disturb or excavate land with knowledge or reasonable cause to suspect that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, moved, damaged or destroyed; or Do not disturb or excavate land on where a relic has been discovered or exposed	Heritage Management sub- Plan
		•	S146 - Notify the heritage Council on discovery of a relic.	Heritage Management sub- Plan
National Parks and Wildlife Act 1974	Aboriginal Heritage	•	S86 - Do not harm or desecrate an Aboriginal object or Aboriginal place without consent.	Heritage Management sub- Plan
		•	S89A - Notify the NPWS within reasonable time of becoming aware of the location or discovery of certain Aboriginal objects.	Heritage Management sub- Plan
Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth)	Protection of areas and objects	•	S20 - Report any discovery of Aboriginal remains to the Federal Minister for the	Heritage Management sub- Plan

			Environment and Heritage.	
		٠	S22 - Comply with the provisions of any declaration	Heritage Management sub- Plan
Roads Act 1993	Road Work	•	S138 - Requires the consent of the appropriate road authority for carrying out work on, or disturbing, the surface of a public road. Where the proponent is a public authority, the roads authority must consult with the applicant before making a decision.	Traffic, Transport and Access Management sub- Plan
		•	S138 - Obtain a Road Occupancy Licence prior to commencement of traffic related works that require access to roads	Traffic, Transport and Access Management sub- Plan
Transport Administration Act 1988	Traffic Management	•	S52A - Comply with the functions of TfNSW relating to traffic management and safety.	Traffic, Transport and Access Management sub- Plan
Road Rules 2014	Road Use	•	Establish the road rules that are applicable to vehicles and road users on roads in NSW.	Traffic, Transport and Access Management sub- Plan
		•	S310 - Provisions of Road Rules 2014 not applicable to a person at the site of, and engaged in, roadworks.	Traffic, Transport and Access Management sub- Plan
Local Government Act 1993 Rural Fires Act 1997	Fire	•	In the event of a fire related incident, the Project will comply with the requirements of the Act	Emergency Response Management Plan
Contaminated Land Management Act 1997	Reporting Contamination	•	<ul> <li>S60 - Notify the EPA if;</li> <li>Contaminants exceed thresholds contained in guidelines or the regulations where contamination has entered or will foreseeably enter neighbouring land, the atmosphere, groundwater or surface water.</li> <li>Contaminants in soil are equal to or exceed guideline levels with</li> </ul>	Soil and Water Management sub-Plan

	respect to the current or approved use of the land. - Contamination meets other criteria that may be prescribed by the regulations	
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CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Appendix B Inland Rail's Environment and Sustainability Policy

#### CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

0-0000-900-00-ESS-00-PO-0001



#### Environment and Sustainability Policy

Inland Rail aims to protect the environment and heritage during the planning, design, construction, and operation of the Inland Rail Program through avoiding or mitigating harm and leaving an enduring regional asset for future generations.

### Our objectives

- No harm
- Engage early and meaningfully with stakeholders, including First Nations organisations, communities, industry, and government
- Promote long-term economic benefits within communities
- Protect the environment by minimising the environmental footprint
- Future-proof Inland Rail so it is efficient and effective in the long term
- Base decisions on a balanced consideration of technical, economic, environmental, and social elements
- Regularly review and audit processes and performance
- Drive a culture of continuous improvement.

#### Strategies to achieve our objectives

Inland Rail commits to the following throughout design, construction and operation:

- No harm:
  - Our goal is that no-one is harmed at work or on our network.
- Engage early and meaningfully with stakeholders, including First Nations organisations, communities, industry and government:
  - Build effective working relationships and a shared understanding of the Program and solutions.
- Promote long-term economic benefits within communities:
  - Create lasting opportunities for development of skilled local and First Nations workers;
  - Support local and First Nations businesses to ensure they are prepared for and provided with
    opportunities to participate; and
  - Enable Inland Rail to be a catalyst for complementary private sector investment.
- Protect the environment by minimising the environmental footprint:
  - Apply the principles to avoid, minimise, offset to manage impacts to receiving environments and ecological values;
  - Reduce greenhouse gas emissions, minimise waste and apply circular economy principles of reuse and repurposing of materials;
  - Minimise water use;
  - Continually investigate opportunities to improve environmental values and prevent pollution, and;
  - Obtain and comply with all environmental approvals and compliance obligations.

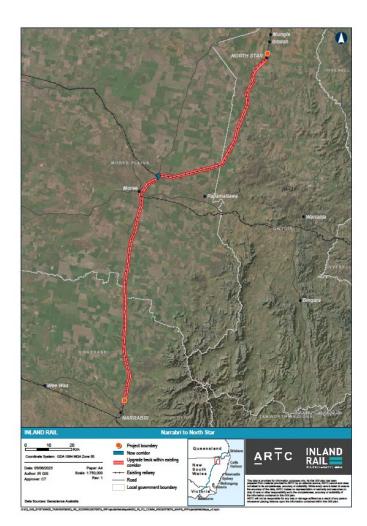
#### INTERNAL USE ONLY

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CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### **Appendix C Project Location and Key Features**

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CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### Appendix D Environmental Risk Assessment

SUE	CONSTRUCTION ACTIVITY/ ASPECT	POTENTIAL IMPACT	RISK LEVEL PRIOR TO MITIGATION	INDICATIVE MITIGATION MEASURES	RISK LEVEL FOLLOWING MITIGATION	DOCUMENTS/PROCEDURES/TRAINING REQUIRED
AFFIC,	TRANSPORT AND ACCESS			No. I Contraction of the second se		
	Temporary access roads General earthworks and construction	Construction traffic impacts, including temporary delays to local and regional traffic	High	accordance with Traffic Control at Work Sites     (RTA, 2010) and in consultation with Roads and     Maritime Services, and local councils.     Adequate road signage would be provided to     inform drivers of the work, timing and alternative     access arrangements.     Measures to manage traffic flows around the area     affected by construction would be provided,     including required regulatory and directional     signposting, line marking, variable message signs,     and all other necessary traffic control devices.     A traffic, transport and access management sub-     plan would be provided as part     of the CEMP. It would include measures to     minimise the potential for impacts on the     community and the operation of the sumounding     road and transport environment. It would address     all the aspect of construction relating to the	Medium	CONSTRUCTION TRAFFIC, TRANSPORT AND ACCESS MANAGEMENT SUB-PLAN
	Import of material' plant/equipment.     Construction site compounds	Congestion in surrounding road networks due to diversion of road users during construction	Low		Low	SITE ESTABLISHMENT MANAGEMENT PLAN Waste Management Procedure (T4MR-MPR-ENV-007)
	<ul> <li>Construction vehicle movements and deliveries</li> </ul>	Reduced pedestrian, cyclist and road user access	Low		Low	Waste and Resource ECM (T4MR-FRM-ENV-001-10)
	Travel tofrom site	Loss of parking spaces and loading zones in towns near construction areas	Medium		Medium	Activity Method Statement (AMS)
		Impacts to emergency services through delays in access due to works	Medium		Low	Dust and Air Quality ECM (T4MR-FRM-ENV-001-05) Hazardous Chemical ECM (I4MR-FRM-ENV-001-07) Induction
		Impacts on access to private properties	Medium		Low	
		Impacts to rural roads unsuitable for construction	Medium		Medium	Toolbox Taik – Access and Careful Driving

2600-0018 N2NS-SP1

### ARTC INLAND RAIL



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### Appendix E Inland Rail Integrated Management System



2600-0018 N2NS-SP1

### ARTC INLAND RAIL



# Appendix F Inland Rail Environment Incident Severity Classification (RL-GL-001)

## ARTC

#### **ARTC EVENT S**

			Actual or Potential (MRO) Consequence				
Safety: Impact	iafety: Impact to people		Injury or illness with no impairment (may or may not require treatment)	Injury or illness with short- term impairment (less than 1 month)	Injury or illness with moderate but recoverable impairment (more than 1 month but less than 6 months)	Injury or illness with long term (more than 6 months to permanent impairment	
	Environment: Impact to environmental factors		Minimal environmental impact	Limited and recoverable environmental impact	Significant and recoverable environmental impact	Permanent impact to area of less than high environmental significance	
Assets: Impact to network performance			Immaterial disruption to non-critical track section	Material disruption to non- critical track section or Immaterial disruption to critical track section	Material disruption to a critical track section recoverable in the short- term	Material disruption to critical track section not recoverable in the short term	
Assets: Impact to organisational capability			Manageable impact to internal operations, which may or may not require internal reallocation of existing resources	Missing short-term targets which may or may not require use of additional resources	Reduced ability to achieve business goals with some business impact	Material failure to achieve business goal(s) with significant business impact	
Financial: Impact of this event in terms of a total cost estimation			≤250K loss or damage	\$250K to \$2M loss or damage	\$2M to \$5M loss or damage	\$5M to \$10M loss or damage	
		Not Significant	Minor	Moderate	Major		
ACTUAI	L EVENT		Low Event	Medium Event	High Event	Significant Event	
	Likelihood (Probability)	Almost certain	Medium Event	Medium Event	High Event	Significant Event	
EVEN		Likely	Low Event	Medium Event	High Event	Significant Event	
TIAL		Possible	Low Event	Medium Event	Medium Event	High Event	
POTENTIAL EVENT		Unlikely	Low Event	Low Event	Medium Event	Medium Event	
đ		Rare	Low Event	Low Event	Low Event	Medium Event	

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

## Appendix G Environmental Control Maps (IFC)

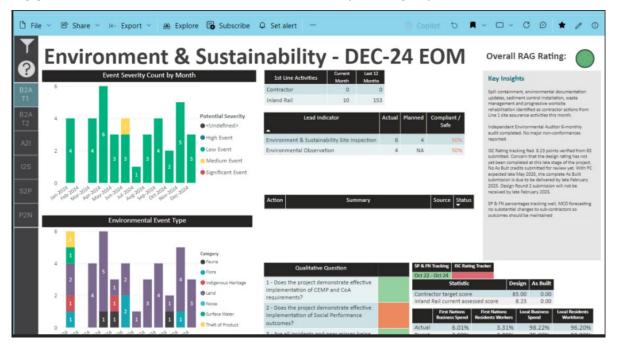


## Appendix H Additional Mitigation Measures (Specific to the Site Establishment Management Plan)

NOTE: Rev 0 (Dated 16th March 2021) of the N2NS Site Establishment Management Plan has been reviewed and no additional mitigation measures (i.e. those being over and above or different to those detailed in the CEMP (and Sub-Plans)) were identified.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### Appendix I Environmental Dashboard (Example)



2600-0018 N2NS-SP1

## ARTC INLAND RAIL



# Appendix J Summary of Environmental Constraints, Aspects and Impacts

<ul> <li>Even with growth, construction traffic and potential seasonal variation in traffic patterns, a level of service B on Newell Highway would be maintained. The road network has spare capacity to cater for the estimated construction and operation traffic and no significant network impacts are predicted.</li> <li>The majority of the study area has been heavily modified by past and ongoing disturbances associated with the active rail corridor and surrounding rural and agricultural activities. Clearance and maintenance of the rail corridor has resulted in fragmentation, a high level of disturbance and degradation of vegetation communities</li> </ul>
and ongoing disturbances associated with the active rail corridor and surrounding rural and agricultural activities. Clearance and maintenance of the rail corridor has resulted in fragmentation, a high level of disturbance and degradation of vegetation communities
<ul> <li>within the rail corridor. The majority of the proposal site (69 per cent) is cleared or consists of non-native vegetation. Patches of native vegetation exist sporadically within and near the proposal site, and are typically associated with travelling stock reserves, road reserves, or farm woodland remnants.</li> <li>932ha of native plant community types (including 174ha of Koala habitat) listed under the Biodiversity Conservation Act 2016 and the Commonwealth EPBC Act will be impacted. ARTC will offset this impact with the purchase of ecosystems and species credits through biodiversity stewardship agreements.</li> <li>Four of the vegetation communities in the project area conform to threatened ecological communities listed under the Biodiversity Act, comprising: Myall Woodland in the Darling Riverine Plains, Brigalow Belt South, Cobar Peneplain, Murray-Darling Depression, Riverina and NSW South Western Slopes Bioregions (EEC); Brigalow within the Brigalow Belt South, Nandewar and Darling Riverine Plains Bioregions (EEC); Carbeen Open Forest community in the Darling Riverine Plains, Brigalow Belt South, Cobar Peneplain and Mulga Lands Bioregions (EEC); Carbeen Open Forest community in the Darling Riverine Plains and Brigalow Belt South Bioregions (EEC).</li> <li>The main impacts on aquatic ecological systems would be as a result of the removal and construction of new watercourse corsing structures along the proposal site and access over watercourses for movement of construction equipment and personnel. An assessment of significance of impact of the Project on aquatic communities identified that the Project is unlikely to have an adverse residual impact on threatened species and endangered populations. There are no State significant or important wetlands within the Project Boundary.</li> <li>The project occurs in a landscape that is dominated by crop land and introduced pastures and contains only a small proportion of woodland and scattered tree cover. Patches of native woodland habitat exists sporadical</li></ul>

# ARTC INLAND

	noliseenholus), sestem hentuine het (Minisetemus schreibereit
	<ul> <li>poliocephalus); eastern bentwing-bat (Miniopterus schreibersii oceanensis); little pied bat (Chalinolobus picatus); and yellow-bellied sheathtail-bat (Saccolaimus flaviventris).</li> <li>One threatened flora species listed as vulnerable under the EPBC Act was recorded during field surveys - Belson's panic.</li> <li>Two threatened fauna species, listed as vulnerable under the EPBC Act, were recorded during field surveys – the koala and the greyheaded flying-fox.</li> <li>No protected areas, defined as areas/reserves managed by OEH and/or DPI NSW Fisheries under the National Parks and Wildlife Act 1974 (NPW Act), are located near the project.</li> <li>The EIS lists 21 areas of key fish habitat (this includes areas found in the Separable Portion 2 works). These are areas classified as class 3 (minimal key fish habitat) or above, in accordance with the Policy and guidelines for fish habitat conservation and management (Department of Primary Industries, 2013).</li> </ul>
Noise and vibration	<ul> <li>There is the potential for construction noise to exceed relevant criteria at various sensitive receivers along the proposal site. Although construction noise would be temporary and localised in nature, the potential impacts would be managed through the implementation of noise control measures.</li> <li>Activities such as pre-possession, skim track reconditioning, full depth reconditioning, and drainage construction, are likely to impact the largest number of receivers due to the higher level of noise emitted by the anticipated equipment.</li> <li>Construction activities undertaken outside of the primary proposal construction hours (i.e. 6am to 6pm) increase the impacted receivers to those within 1,500 metres for bridge works and 700 metres for other activities.</li> <li>For works within primary proposal construction hours:</li> <li>Construction activities have the potential to exceed the noise management level in residential areas, but less so in rural areas;</li> <li>Construction activities have the potential to exceed the noise management level at non-residential sensitive receivers including educational, child-care and hospital facilities. Construction noise management levels are applicable as an internal level only when the facilities are in use; and</li> <li>Construction activities have the potential to exceed the noise management level at recreational areas including bushland areas, parks and sporting facilities when these areas are in use.</li> <li>In relation to vibration from general construction activities, the expected magnitude of ground vibration at heritage structures is not expected to be sufficient to cause structural damage if the equipment operates at distances greater than 18 metres from standard residential buildings or structures of similar construction.</li> <li>The expected magnitude of ground vibration at heritage structures is not expected to be sufficient to cause structures. However, many items are potentially within this distance from the</li></ul>
Air Quality	• The main potential impact on air quality during construction would occur as a result of the generation of dust from construction works and the movement of equipment and machinery.
	Standard air quality management controls are recommended.

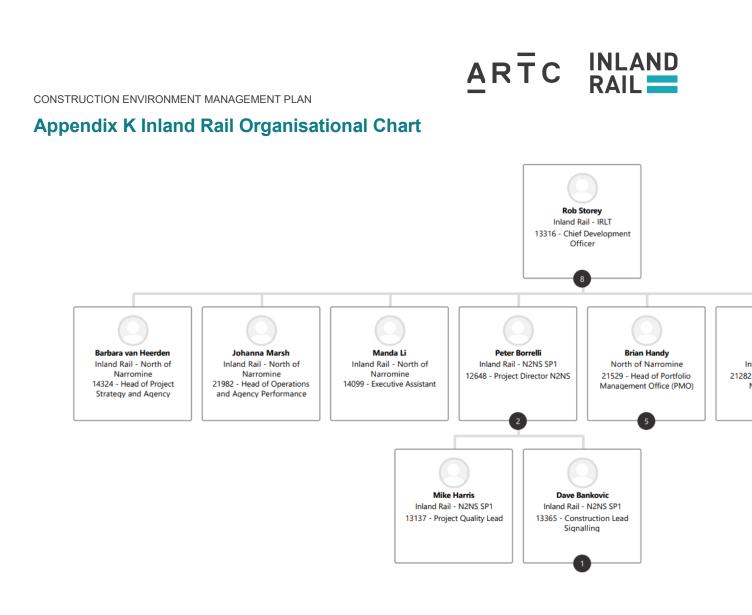
Soils and contamination	<ul> <li>Published soil units for the project site include deep reactive clays, including black earths, occurring on flat alluvial and undulating plains west of the Goondiwindi Fault. East of the fault are variable soil conditions including deep reactive clays, basaltic soils, red and brown sandy and silty clay soils. Of the soils present in the project site, the main potential issue relates to dispersive alluvial and residual soils, which were found in a significant proportion of the tested soils.</li> <li>The erosion potential of the alluvial and residual soils was assessed to be moderate to high. Construction of the project has the potential to result in erosion and sedimentation and contamination of soils and surface waters.</li> <li>Contamination assessment was undertaken at 111 test pits along the N2NS alignment for contamination assessment. All samples, except one, had laboratory results either below the limit of reliability or below the relevant human health-based screening criteria.</li> <li>One site recorded the presence of chrysotile asbestos in gravel fill material consisting of ash and slag (site TP305 – located on the rail corridor directly south of the crossing with Gurley Creek). This ash fill layer was found beneath the ballast at the majority of locations, at depths between 0.4 and 1.6 metres below top of rail.</li> <li>Soils in the vicinity of location TP305 would be classified as Special Waste (Asbestos). Soils sampled at other test pit locations and the rail corridor are consistent with a General Solid Waste classification.</li> <li>The contamination assessments confirmed that the soils are considered suitable to remain within the proposal site for the use proposed (that is, for railway purposes).</li> <li>Based on the findings of the contamination and does not meet the criteria requiring it to be notified to the EPA under section 60 of the CLM Act.</li> <li>There are six sites listed on the EPA's Contaminated Sites Register and 11 sites on the list of contam</li></ul>
Hydrology and Flooding	<ul> <li>The project site is characterised by relatively flat land and the existing rail corridor is subject to flooding. Existing level crossings are also inundated during some flood events.</li> <li>Flood events in the area are generally influenced by two sources:</li> <li>Regional flood events associated with the Namoi or Gwydir Rivers (including the Mehi River); and</li> <li>Local flooding associated with over local catchments draining to an individual underbridge or group of culverts in isolation of the regional flooding behaviour.</li> <li>During local flood events, modelling shows that the existing rail line can be overtopped by 0.63m to 0.75m for a length of 122m to 11,124m for the scenarios modelled.</li> <li>Flow velocities during flood events that do not overtop the existing rail line would be low (i.e. less than 2m per second).</li> <li>It generally takes about nine hours for flood levels to fall to less than 0.1 metres deep at culverts for smaller catchments and up to 36 hours for larger catchments. Regional flood events, which are typically a result of flooding from major rivers and watercourses after</li> </ul>

	<ul> <li>rainfall over a significant portion of catchment, can extend for several days or more.</li> <li>The presence of construction work sites and compounds in floodplains has the potential to impact on surrounding properties.</li> <li>During construction, there is also the potential for works to be impacted by flooding. The project has been designed to minimise the duration of on-site work in watercourses, which would enable increased flexibility when scheduling works around forecast rain periods.</li> <li>The impact of construction on flood behaviour is expected to be negligible compared to regional flood levels and behaviour.</li> </ul>
Water quality	<ul> <li>There is no existing water quality data for the watercourses crossing the project site.</li> <li>The National Water Quality Assessment (SKM, 2011) classified the water quality in the Gwydir River and Namoi River catchments as being relatively poor, exceeding the ANZECC 2000 guidelines for a number of criteria.</li> <li>The potential impacts of construction relate mainly to erosion and sedimentation, and release of entrained contaminants (particularly during watercourse crossings, construction of new culverts/underbridges and construction of the proposed new rail bridge over Croppa Creek) and pollution associated with any spills or leaks.</li> <li>Construction is not anticipated to impact on groundwater resources. Excavation would be relatively shallow compared to the likely depth of the water table and is not likely to intercept groundwater aquifers or their flow systems. In locations where piling is required (such as for bridge piers), the detailed design would consider methods to minimise or avoid the potential requirement for dewatering where perched groundwater is encountered.</li> <li>Water quality guidelines are contained in Technical Report 7 (Water quality assessment).</li> <li>Standard erosion and sediment control measures are recommended.</li> </ul>
Aboriginal heritage	<ul> <li>A review of key environmental factors associated with the project demonstrates that the portions of the project associated with water resources would have provided an environmental context attractive to Aboriginal people and that the north-eastern portion of the project may have provided access to lithic (i.e. stone tools) resources. However, historical land use of the proposal site and surrounds has the potential to have significantly impacted any archaeological deposits that may be present</li> <li>14 new Aboriginal sites were identified within the project site during field surveys. Of these sites, eight are isolated artefacts with low significance, three are artefact scatters with low significance and one is an artefact scatter with low to moderate significance</li> <li>Five areas of moderate or higher archaeological potential were identified within the project site. Stone artefact scatters will be most frequent in number and will be larger in size within proximity to reliable sources of water. Quarry sites may also occur where suitable rock outcrops are present. Within the project site, the potential for quarry sites is greatest in the section between Croppa Creek and North Star where geological mapping indicates rock types suitable for artefact manufacture (silcrete, basalt, dolerite and porcellanite) may be present</li> </ul>

	<ul> <li>It is noted that the project site has been subject to significant disturbance. Within the existing rail corridor, the construction and maintenance of the existing rail line is likely to have resulted in the removal/relocation of archaeological evidence that may have been present (if any). Similarly, in adjoining farmland within the project site and additional assessment areas outside the existing rail corridor, clearance, grazing and cultivation of the landscape will have impacted on archaeological potential, compromising the integrity of any archaeological sites that may have been present</li> <li>Based on currently available information, the proposal is likely to result in harm to archaeological sites NNS IA6-13, NNS AS1, 5, 6, 7, 10-3-0032 and 10-3-0035, with sites NNS IA4 and NNS AS2 and 4 also considered likely to be impacted (located within 10 metres of the proposal site). In addition, the proposal may result in disturbance to areas of moderate or higher archaeological potential within survey areas 15 (containing the proposed Newell Highway overpass that is located outside the existing rail corridor), 42 (Gwydir River terraces), 55 (Croppa Creek terraces), 56 (Mehi River terraces) and 57 (Camurra bypass on Gwydir River terraces).</li> </ul>
Non-Aboriginal heritage	<ul> <li>The potential non-Aboriginal heritage resources of the proposal site generally reflects the documented history of the surrounding region and the extant Narrabri to North Star rail alignment</li> <li>The project site and its' individual surviving component elements such as the extant steel truss underbridges, timber constructed underbridges and remnant evidence of former stations, is considered to generally be of local significance</li> <li>With the exception of Moree, Edgeroi, Bellata and Gurley railway stations the majority of the former stations have been previously removed with only occasional earthen embankments or loading banks remaining as evidence of their former locations.</li> <li>One locally listed heritage item is located within the project site – Moree Station, which is listed on both the Moree Plains Local Environmental Plan 2011 and Railcorp's section 170 heritage register. Moree Station is considered by the Moree Plains LEP to have State significance</li> <li>The main potential for indirect impacts relates to vibration generated by construction. Given the proximity of construction to Moree Station, the former Edgeroi Woolshed (a potential heritage item considered to be of local significance), and remaining structures associated with Edgeroi, Bellata, and Gurley stations, there may be the potential for indirect impacts caused by vibration.</li> </ul>
Landscape and visual amenity	<ul> <li>The proposal would generate visual impacts during construction. Construction impacts would be temporary and limited to the construction period.</li> </ul>
Land use and Property	• The main potential impacts on land use would occur during construction. Impacts include temporary disruption to land use along the construction corridor for construction areas, compounds and haulage routes. These impacts, such as soil compaction, disruption of services or utilities, changes in access and interrupted land management, would be short-term.
Socio-economic impacts	<ul> <li>Beneficial impacts during construction include employment (an estimated average workforce of 200 people would be required to construct the proposal), training opportunities, and flow on local and regional economic benefits. Impacts during construction would include potential impacts on the amenity of the local community, and</li> </ul>



impacts associated with the inflow of the workforce into the local area, including demand for accommodation.





### Appendix L Minor Ancillary Facility Assessment (Template)

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

## **Minor Ancillary Facility Assessment**

## Introduction

The Project's Conditions of Approval (CoA) allows for the establishment and operation of Minor Ancillary Facilities on the Narrabri to North Star (N2NS) Project. Condition A21 states:

CoA A21 - Facilities including lunch sheds, office sheds, material lay down sites, stockpile areas, areas used to assemble infrastructure, and portable toilet facilities can be established and operated where they satisfy the following criteria:

- (a) are located within the construction boundary; and
- (b) have been assessed by the ER to have
  - i. low amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts and visual (including light) impacts, and
  - *ii.* Low environmental impact with respect to waste management and flooding, and
  - iii. No impacts on biodiversity on biodiversity, soil and water and heritage items beyond those already approved under the other terms of this approval.

To assess the proposed facility complete <u>Part A. Minor Ancillary Facility Rapid Assessment</u> and proceed to <u>Part B. Minor Ancillary Facility Checklist</u> where prompted by the notes. If not, forward the Rapid Assessment to the Inland Rail Environment Manager for approval.

## Part A. Minor Ancillary Facility Rapid Assessment

Criteria		Yes	No	Notes
1.	Does the proposed facility consist of a mobile site office (caravan style), a port-o-loo and / or a carpark?			If yes, proceed to Q2. If no, proceed to Part B.
2.	Are earthworks or pad construction required specifically to establish the facility?			If yes, proceed to Part B. If no, proceed to Q3.
3.	Is the proposed facility located entirely within the SPIR Construction Impact Zone (CIZ)?			If yes, proceed to Q4. If no, seek advice from the Environment Team.
4.	Is the proposed facility located within 150m of a sensitive receiver?			If yes, proceed to Part B.
	TRALIAN RAIL TRACK CORPORATION   6-0000-260-EAP-00-RP-0	001 REV	A	If no, proceed to Q5.
5.	Is the proposed facility located within a mapped Threatened Ecological Community?			If yes, proceed to Part B.

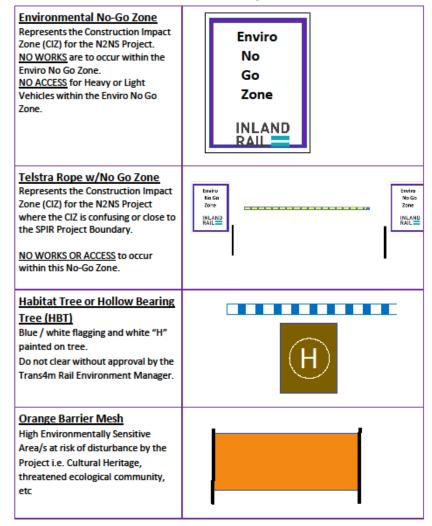
CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

### Appendix M N2NS Project Environmental Flagging Protocol

#### INLAND RAIL

#### Narrabri to North Star (N2NS) Project Environmental Flagging Protocol

NOTE: This flagging protocol visually represents the various method for delineation of environmental constraints on the N2NS Project.



2600-0018 N2NS-SP1

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