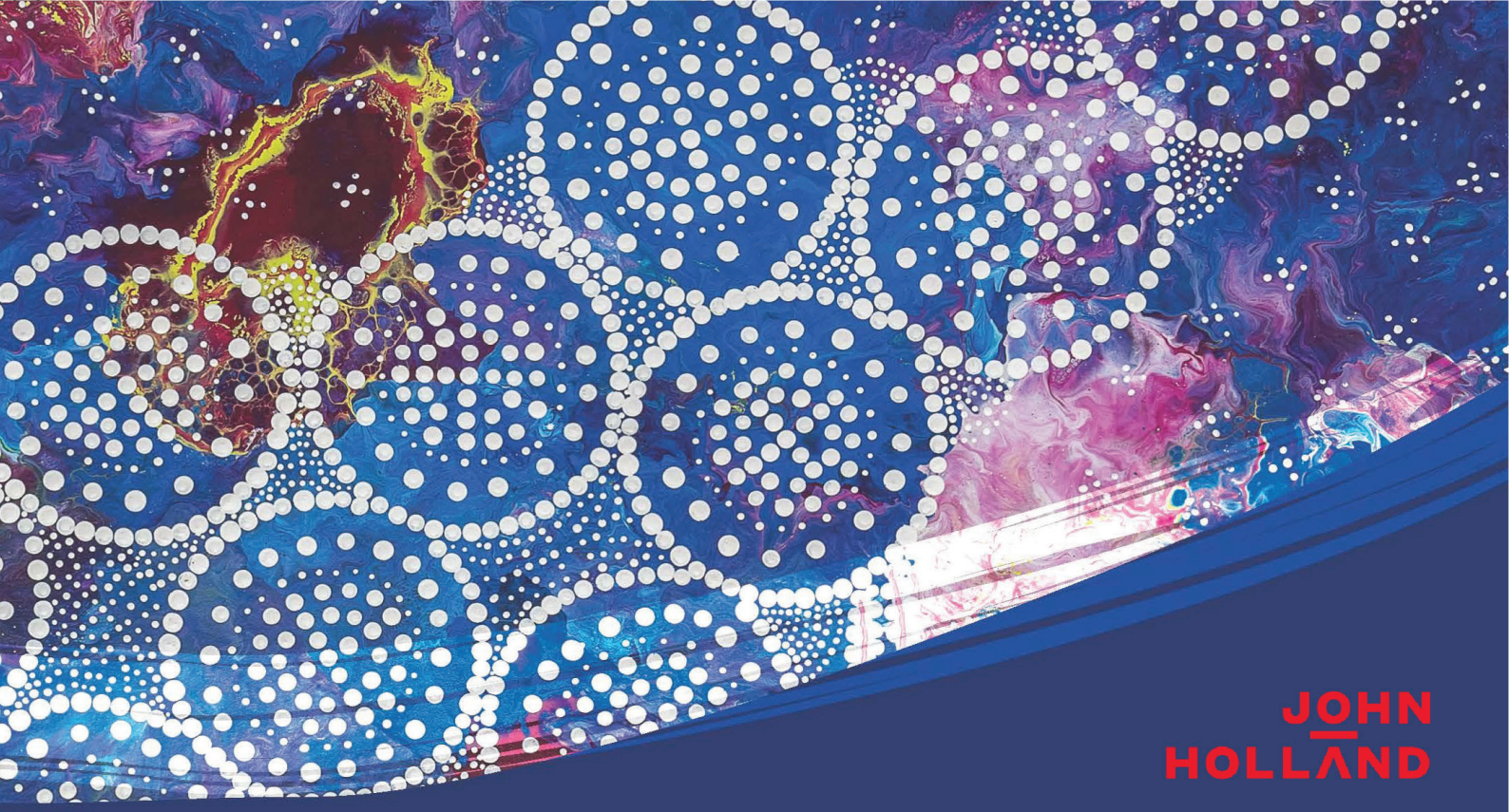


JOHN HOLLAND

INLAND RAIL

ILLABO TO STOCKINBINGAL PROJECT

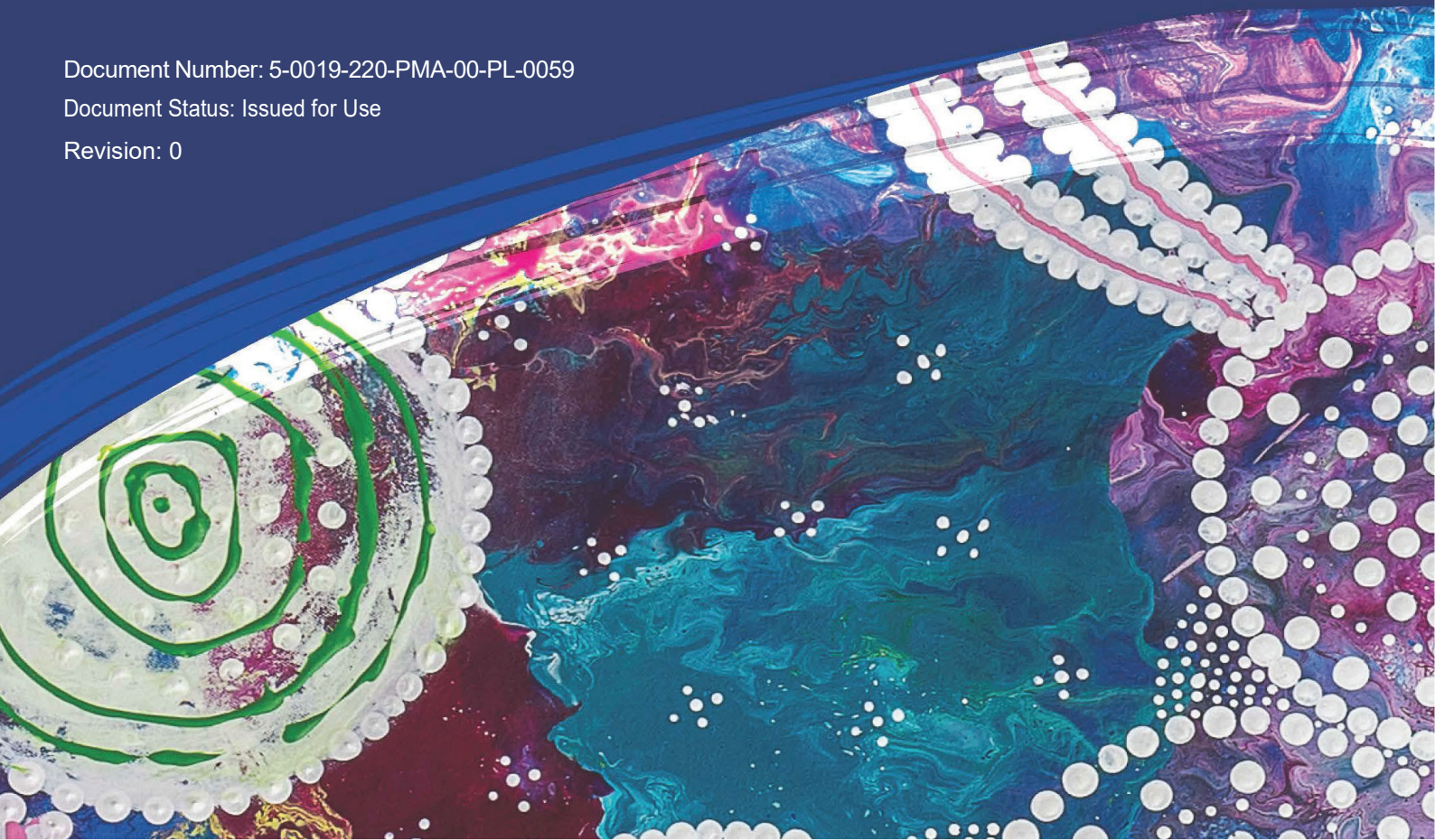
I2S | Sub Plan Heritage Management

John Holland acknowledges the Traditional Owners of the land on which the Inland Rail Illabo to Stockinbingal project is located, the Wiradjuri Peoples. We pay respects to Elders, past and present.

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Revision: 0



Document Control

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Document Owner	Daniel Lidbetter (Environmental Approvals Manager)	
	REVIEWED BY	**APPROVED BY**
Name	Daniel Lidbetter	Andy Robertson
Title	Environmental Approvals Manager	Environment & Sustainability Manager
Signature **Date**	JOHN HOLLAND Document Number 5-0019-220-PMA-00-PL-0059 Revision 0 **Approved** Mr Daniel Lidbetter - John Holland Pty Ltd Nov 13, 2025, 3:54 PM GMT+11:00 This review has been completed using Aconex Workflow for the Inland Rail - Illabo to Stockinbingal (I2S) Project.	JOHN HOLLAND Document Number 5-0019-220-PMA-00-PL-0059 Revision 0 **Approved** Mr Daniel Lidbetter - John Holland Pty Ltd Nov 13, 2025, 4:49 PM GMT+11:00 This review has been completed using Aconex Workflow for the Inland Rail - Illabo to Stockinbingal (I2S) Project. Environmental delegate on behalf of Andy Robertson.

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1 Revisions and Distribution

1.1 Revisions

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

1.2 Distribution

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

Client’s Representative	Conrad Strachan
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2 References, Definitions and Abbreviations

2.1 Compliance Roadmap

The following section provides a tabular representation of the project obligations and requirements as described in all licenses and approvals and a reference link to detail how the Inland Rail - Illabo to Stockinbingal Project (I2S or Project) intend to comply.

This Heritage Management Sub Plan (HMSP) provides a consistent approach to address the requirements from the Infrastructure Approval (CSSI-9406), and other relevant external permits, licenses or approvals which is detailed throughout this section. A cross reference is also included to indicate where each Condition of Approval is addressed in this Plan or other Project management documentation.

2.1.1 Minister's Conditions of Approval – CSSI-9406

The primary NSW CoA relevant to the development of this Plan are listed in Table 2-1.

Table 2-1 – Primary NSW CoA

CoA No.	Condition Requirements	Document Reference
A1	The Proponent must carry out the CSSI in accordance with the terms of approval and generally in accordance with the: a) Inland Rail – Illabo to Stockinbingal Environmental Impact Statement (ARTC 2022); b) Illabo to Stockinbingal Project Response to Submissions (ARTC 2023); d) I2S – Mitigation Measures (Inland Rail, April 2024);	Section 2
A2	The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in accordance with the documents listed in Condition A1 unless otherwise specified in, or required under, this approval.	Note
A3	In the event of an inconsistency between: a) the conditions of this approval and any document listed in Condition A1(a) to (f) inclusive, the conditions of this approval will prevail to the extent of the inconsistency; and b) any document listed in Condition A1(a) to (f) inclusive, the most recent document will prevail 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.	Note
A4	The Proponent must comply with the written requirements or directions of the Planning Secretary, including in relation to: a) the environmental performance of the CSSI; b) any document or correspondence in relation to the CSSI; c) any notification given to the Planning Secretary under the terms of this approval; d) any audit of the construction or operation of the CSSI; e) the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval); f) the carrying out of any additional monitoring or mitigation measures; and g) 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.	Note
A10	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 with the corresponding documentation to the Planning Secretary and the Environmental Representative (as	Section 6.1 Appendix A

<table>
<tr><th>CoA No.</th><th>Condition Requirements</th><th>Document Reference</th></tr>
<tr><td></td><td>relevant) in accordance with the Post Approval Guidance: Defining Engagement Terms (DPIE, 2020). The evidence must include:
a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;
b) a log of the dates of engagement or attempted engagement with the identified party;
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;
d) an outline of the issues raised by the identified party and how they have been addressed; and
e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.</td><td></td></tr>
<tr><td>C14</td><td>CEMP(s) (and relevant CEMP sub-plans) must be submitted to the Planning Secretary for approval except those permitted to be endorsed by others pursuant to a CEMF approved by the Planning Secretary under Condition C1.</td><td>Section 3.4.3</td></tr>
<tr><td>C15</td><td>Where a CEMP (and relevant CEMP sub-plans) requires the Planning Secretary's approval, the CEMP (and relevant CEMP sub-plans) must be endorsed by the ER and then submitted to the Planning 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 each stage.</td><td>Section 3.4.3</td></tr>
<tr><td>C17</td><td>Except as provided by Condition C1, the following CEMP Sub-plans must be prepared in consultation with the relevant state agencies, relevant councils and RAPs identified for each CEMP Sub-plan. Evidence of consultation must be provided consistent with Condition A10.
<table>
<tr><th></th><th>Required CEMP Sub-plan</th><th>Relevant authorities to be consulted for each CEMP Sub-plan</th></tr>
<tr><td>(3)</td><td>Heritage</td><td>Heritage NSW, RAPs, and relevant Councils</td></tr>
</table>
Notes
1. CEMP Sub-plan(s) may reflect the staged construction of the project through geographical activities, temporal activities or activity-based contracting and staging.
2. Nothing in this condition prevents the Proponent from combining any of the above CEMP Sub-plans.
3. The Biodiversity CEMP Sub-Plan must be consistent with goals and objectives, mitigation measures and monitoring requirements of the Commonwealth approved conservation advice and any Recovery Plans for all Matters of National Environmental Significance.</td><td>Section 6.1</td></tr>
<tr><td>C18</td><td>The CEMP Sub-plans listed in Condition C17 must state how:
a) the environmental performance outcomes identified in the documents listed in Condition A1, as modified by these conditions, will be achieved;
b) the mitigation measures identified in the documents listed in Condition A1, as modified by these conditions will be implemented;
c) the relevant terms of this approval will be complied with; and
d) issues requiring management during construction, as identified through ongoing environmental risk analysis, will be managed.</td><td>a) Section 4
b) Section 9
c) Section 2.1
d) Section 9, 10 and 11</td></tr>
</table>

CoA No.	Condition Requirements	Document Reference
C23	The Heritage Management Sub-plan must include: a) identification of the Aboriginal objects and Aboriginal places that must be avoided and the protective measures to be put in place; b) procedures for additional surveys as required by Condition E135; c) procedures for salvaging and safe keeping of the Aboriginal objects identified in the documents listed in Condition A1, and their long-term management; d) measures to avoid or minimise disturbance to Aboriginal heritage where, (as considered by legislation, guidelines and community) areas, objects or places are found to be present. Where impacts cannot be avoided, records of stakeholder involvement and engagement; and details on the methodology for archaeological excavation and/or salvage work; e) a process for inspecting trees for evidence of cultural scarring in areas that were not subject to the archaeological survey, and measures to avoid impact. If impact is unavoidable, and upon consultation with the Registered Aboriginal Parties, work shall be undertaken under the guidance of an appropriately qualified heritage specialist; and f) an Unexpected Heritage Finds and Human Remains Procedure in accordance with Condition E143, with the requirement that Heritage NSW are contacted and consulted upon the discovery of human remains, prepared by a suitably qualified and experienced heritage specialist. *Note: Human remains that are found unexpectedly during work are under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.*	a) Section 7.5, 9 b) Section 9.4 c) Section 9.4.2 9.4.3 & 9.6 d) Section 9 & 6 e) Section 9.4.4 f) Section 9.5, Appendix B
C26	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary or endorsed by the ER (as applicable and as identified in the CEMF approved under Condition C1). The CEMP and CEMP Sub-plans, as approved by the Planning 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 Planning Secretary or ER.	Section 3.4.3
E127	The Proponent must not destroy, modify or otherwise physically affect any heritage items, including Aboriginal objects or Aboriginal places, outside of the CSSI construction boundary.	Section 9.2, 9.8
E128	The Proponent must not wilfully harm, modify, or otherwise impact human remains uncovered during the construction of the CSSI. Where identified, remains must be managed through the Unexpected Heritage Finds and Human Remains Procedure required by **Condition E143**.	Section 9.2, 9.8, 9.5, Appendix B
E129	Identified impacts to heritage items must be minimised through both design and construction. The measures for ensuring this are to be detailed in the Construction Heritage Management Sub-Plan required by **Condition C17**.	Section 9.1, 9.2 9.8
E130	**Aboriginal Cultural Values and Heritage** All reasonable steps must be taken so as not to harm, modify or otherwise impact Aboriginal objects, Aboriginal values or Aboriginal places except as authorised by this approval.	Section 9.2, 9.8
E131	**Aboriginal Cultural Values and Heritage** The Registered Aboriginal Parties (RAPs) must be kept involved in the CSSI in accordance with **Conditions B1** and **B2** and the **Aboriginal Community and Stakeholder Engagement Strategy** required by **Condition E132**. The RAPs must	Section 6.2, 9

CoA No.	Condition Requirements	Document Reference
	continue to be provided with regular opportunities to be consulted about the Aboriginal cultural heritage management requirements of the CSSI.	
E132	**Aboriginal Cultural Values and Heritage** Prior to the commencement of construction, an **Aboriginal Community and Stakeholder Engagement Strategy** shall be finalised and implemented, in consultation with Heritage NSW, relevant RAPs, and LALCs. The Strategy will detail and include, but not be limited to, the consultation process with Aboriginal stakeholders for the integration of Aboriginal Cultural Values into the CSSI.	Section 6.2.4
E133	**Aboriginal Cultural Values Plan** An **Aboriginal Cultural Values Plan** must be prepared to inform how Aboriginal Cultural Values will be integrated into the broader design of the SSI including design elements (form and fabric), landscaping (the collection, propagation and replanting of traditional plant resources), language; and cultural design principles. The Plan must identify how interpretive themes and cultural values will be implemented and provide a timeframe for their provision during construction. The Plan must recognise the spiritual, intangible, linguistic and cultural values of the sites to Aboriginal people and address the full story of the place (s) (i.e. landscape through the eyes of Aboriginal people); Aboriginal design and story elements, patterns and motifs or other appropriate visual interpretations. The Plan will be developed in conjunction with the **Aboriginal Community and Stakeholder Engagement Strategy**. The Strategy will detail the consultation process with Aboriginal stakeholders and identify the Aboriginal Cultural Values to be incorporated into the design of the CSSI. The **Aboriginal Cultural Values Plan** shall be submitted for the approval of the Planning Secretary one (1) month prior to commencing construction. The **Aboriginal Cultural Values Plan** must be implemented.	Section 9.3
E135	Prior to the commencement of any ground disturbance work within areas identified as requiring archaeological investigation or salvage identified in documents listed in **Condition A1**, the Proponent must prepare and implement an **Additional Aboriginal Archaeological Survey and an Aboriginal Archaeological Test Excavation Methodology.** The methodology must include procedures for additional archaeological survey of Zones 5, 6, 9 and 10, and management protocols including consultation with the Registered Aboriginal Parties, for any Aboriginal objects and sites identified during the survey.	Section 9.4, 9.8 Appendix D
E136	Following analysis of the test excavation results, the Proponent must prepare and implement an **Aboriginal Archaeological Salvage Excavation Methodology**.	Section 9.4, 9.8
E137	Following additional survey, test and salvage excavation, if sites are identified that exceed the expected level of significance identified in the Aboriginal Cultural Heritage Assessment Report, further consultation with Heritage NSW and the RAPs must be undertaken and consideration given, where feasible, for avoidance by the project.	Section 9.4, 9.8
E138	The Additional Aboriginal Archaeological Survey Methodology, Aboriginal Archaeological Test Excavation Methodology and Aboriginal Archaeological Salvage Excavation Methodology must be prepared by a suitably qualified expert in consultation with Heritage NSW and RAPs, and provided to the Planning Secretary for information at least one month prior to test or salvage excavation.	Section 9.4, 9.8
E139	At the completion of Aboriginal cultural heritage survey and test and salvage excavations, an	Section 9.4, 9.8

CoA No.	Condition Requirements	Document Reference
	Aboriginal Cultural Heritage Excavation Report(s) must be prepared by a suitably qualified expert. The **Aboriginal Cultural Heritage Excavation Report(s)**, must: a) be prepared in accordance with the Guide to Investigation, assessing and reporting on Aboriginal cultural heritage in NSW, OEH 2011 and the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales, DECCW 2010; and b) document the results of the archaeological survey and test excavations and any subsequent salvage excavations (with artefact analysis and identification of a final repository for finds). The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised. The final report must be provided to the Planning Secretary, Heritage NSW, the relevant Councils, relevant LALCs and the RAPs within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).	
E140	Ground disturbance works and construction work may not commence in those areas where archaeological excavation and surface collection of Aboriginal objects is required (including areas identified as requiring further assessment) until the archaeological works described in the Aboriginal Cultural Heritage Assessment reports listed in **Condition A1** have been completed.	Section 9.4
E141	At the completion of surface collection, test excavations, and salvage excavations, Aboriginal site impact recording forms (ASIRF) must be submitted to the Aboriginal Heritage Information Management System (AHIMS) and evidence provided of submission to the AHIMS Registrar.	Section 9.4
E142	Where previously unidentified Aboriginal objects or Aboriginal Places are discovered, all work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects or places must not recommence until Heritage NSW has been informed. The measures to consider and manage this process must be specified in the **Unexpected Heritage Finds and Human Remains Procedure** required by **Condition E143** and include registration in the Aboriginal Heritage Information Management System (AHIMS).	Section 9.5, Appendix B
E143	**Unexpected Heritage Finds** An **Unexpected Heritage Finds and Human Remains Procedure** must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by Heritage NSW and submitted to the Planning Secretary for information before the commencement of Work.	Section 9.5, Appendix B
E144	**Unexpected Heritage Finds** The **Unexpected Heritage Finds and Human Remains Procedure**, as submitted to the Planning Secretary, must be implemented for the duration of Work. ***Note**: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.*	Section 9.5, Appendix B
E145	Before commencement of any work, a structural engineer must undertake condition surveys of all buildings, structures, utilities and the like identified in the documents listed in Condition A1 as being at risk of damage. The results of the surveys must be documented in a Condition Survey Report for each item surveyed. Copies of Condition Survey Reports must be provided to the owners of the items surveyed, and no later than one month before the commencement of construction.	Noise & Vibration Management Plan

CoA No.	Condition Requirements	Document Reference
E146	After completion of construction, condition surveys of all items for which condition surveys were undertaken in accordance with Condition E145 of this approval must be undertaken by a structural engineer. The results of the surveys must be documented in a Condition Survey Report for each item surveyed. Copies of Condition Survey Reports must be provided to the landowners of the items surveyed, and no later than three (3) months following the completion of construction	Noise & Vibration Management Plan
E147	The Proponent, where liable, must rectify any property damage caused directly or indirectly (for example from vibration or from groundwater change) by the construction or operation at no cost to the owner. Alternatively the Proponent may pay compensation for the property damage as agreed with the property owner.	Noise & Vibration Management Plan

2.1.2 Updated Mitigation Measures

The primary UMMs relevant to the development of this Plan are listed in

Table 2-2 Updated Mitigation Measures relevant to this Plan

Ref.	Issue	Mitigation Measure	Timing	HMSP Reference
AH-1	Avoiding and minimising impacts on Aboriginal heritage	Detailed design and construction planning would avoid direct impacts on identified items/sites of Aboriginal heritage significance as far as reasonably practicable. The location of construction compounds and associated access routes would be reviewed to ensure, as far as practicable, they are not located in areas of medium or high archaeological potential.	Detailed design/ pre-construction	Section 9.1, 9.2, 9.8
AH-2	Management of salvaged items	A detailed salvage methodology would be prepared by a suitably qualified archaeologist in consultation with relevant registered Aboriginal parties. The methodology would be included in the Aboriginal cultural heritage management plan (mitigation measure AH-9 to ensure any artefacts salvaged are managed in accordance with the requirements of the *National Parks and Wildlife Act 1974* (NSW). This includes artefacts within the areas of Zone 1 and Zone 2. The methodology would include the process for consultation with Heritage NSW and registered Aboriginal Parties in accordance with the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010a) the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010b), and the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH, 2011a). It would also include requirements in relation to the management of, and care and control plans for, salvaged objects. Registered Aboriginal parties would be engaged to assist in the salvage, which would be managed by an appropriately qualified archaeologist engaged to support the process. Detailed analysis and reporting of cultural material collected would be provided to the NSW Department of Planning and Environment.	Detailed design/ pre-construction	Section 9.4 and 9.6
AH-3	Management of salvaged items	Archaeological survey and test excavation (if required) would be performed prior to the commencement of impact works at Zone 5, 6, 9 and 10 to confirm the precise nature and extent of the archaeological resource and to inform the selection of the applicable mitigation measures.	Detailed design/ pre-construction	Section 9.4
AH-4	Management of salvaged items	Additional mitigation and management measures would be developed, in consultation with the registered Aboriginal parties, for areas or items of Aboriginal cultural heritage significance identified during the archaeological survey (mitigation measure AH-3). The additional measures would be included in the Aboriginal cultural heritage management plan (mitigation measure AH-9).	Detailed design/ pre-construction	Section 9.4 Section 6
AH-5	Avoiding and minimising impacts on	A pre-construction survey would be undertaken to update the AHIMS record and/or confirm the locations of the previously listed AHIMS sites that could not be located during the site survey:	Detailed design/ pre-construction	Section 9.4.5

Ref.	Issue	Mitigation Measure	Timing	HMSP Reference
	Aboriginal heritage	• Artefact Sites ARTC12 and ARTC16 (AHIMS 50-5-0268, 50-5-0272) • Artefact Sites ARTC10 and ARTC11 (AHIMS 50-2-0054, 50-2-0055). Surveys would be undertaken with registered Aboriginal parties in accordance with the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010a). If the sites are located, impacts would be avoided as far as practicable and protection measures put in place in accordance with the Aboriginal cultural heritage management plan (mitigation measure AH-9). Any sites with the potential to be impacted would be managed in accordance with the salvage methodology (mitigation measure AH-2).		
AH-6	Impacts on artefact scatters	Surface collection (salvage) of artefacts that have been identified in Zones 1, 2, 4, 7 and 11 would occur prior to construction in accordance with the approved salvage methodology.	Detailed design/ pre-construction	Section 9.4.3
AH-7	Avoiding and minimising impacts on Aboriginal heritage	For registered AHIMS sites and Aboriginal sites identified during archaeological surveys located in close proximity to, but outside of, the proposal site, the extent of these sites would be demarcated with high visibility fencing as far as practicable to avoid accidental impact during construction impacts. This particularly applies to scarred trees ARTC6, ARTC18 and ARTC19. The sites would also be clearly marked on all mapping and plans used by contractors working on the project. Scarred tree ARTC20, which is located within the proposal site, should be marked on all mapping and plans used by contractors working on the project and should be fenced with high visibility fencing to avoid accidental impact during construction works. Potential excavation near the tree should include consideration of a tree protection zone, defined in consultation with an arborist.	Detailed design/ pre-construction	Section 9.2, 9.8
AH-8	Avoiding and minimising impacts on Aboriginal heritage	Clearing extents/site boundary/limit of works would be consistent with project extents defined in a condition of approval and would be clearly defined with flagging or marking tape, signage or other suitable means to delineate no go areas.	Detailed design/ pre-construction	Section 9.2, 9.8, Biodiversity Management Sub-Plan
AH-9	Protecting Aboriginal heritage and minimising impacts during construction	An Aboriginal cultural heritage management plan would be prepared prior to construction and implemented as part of the CEMP. The plan would include measures to minimise the potential for impacts and manage Aboriginal heritage, including: a) a salvage methodology (mitigation measure AH-2) b) an unexpected finds procedure (mitigation measure AH-11) c) plans and installation procedures for fencing and protective coverings	Construction	a) Section 9.4.2 b) Section 9.5 c) Section 9.2 d) Section 10.2 e) Section 9.8 f) Section 9.4.4 g) Section 9 h) Section 9.2 i) Section 9.4

Ref.	Issue	Mitigation Measure	Timing	HMSP Reference
		d) induction package for construction workers and supervisors e) erosion and sediment controls in accordance with Managing Urban Stormwater: Soils and construction—Volume 1 (Landcom, 2004) to minimise the potential for erosion impacts to Aboriginal sites located close to watercourses/drainage lines f) investigation of the anthropogenic nature of scarred trees within the project area by a specialist in Aboriginal cultural heritage g) measures to manage the potential for impacts to potential Aboriginal heritage items (including burial sites) located in sensitive landscapes (such as alluvium landscapes) h) measures to protect sites close to the proposal site from inadvertent impacts i) outcomes of further investigations (mitigation measures AH-3 and AH-5). j) a repatriation process for collected artefacts The plan would be prepared in consultation with registered Aboriginal parties and the NSW Department of Planning and Environment.		j) Section 9.4.3
AH-10	Protecting Aboriginal heritage and minimising impacts during construction	A requirement for cultural heritage awareness training would be included in the Aboriginal cultural heritage management plan. Cultural heritage awareness training would be provided by an Aboriginal representative at the commencement of substantial works for the project.	Construction	Section 10.2
AH-11	Unexpected finds	An unexpected finds procedure would be developed and included in the Aboriginal cultural heritage management plan to provide a consistent method for managing any unexpected Aboriginal heritage items discovered during construction, including potential heritage items or objects and a flow chart of the procedure on the findings of skeletal remains.	Construction	Section 9.5 Appendix B
AH-12	Update AHIMS records	AHIMS records would be updated for AHIMS Register locations no longer considered to be sites: • Scarred tree 50-5-0117 (AHIMS 50-5-0117) • Scarred Tree 50-5-0120 (AHIMS 50-5-0120) • Scarred Tree 50-5-0121 (AHIMS 50-5-0121) • Zone 1—low-density scatter (AHIMS 50-5-0280) (part) • PAD Zone 7 North (AHIMS 50-5-0281) • PAD Zone 7 South (AHIMS 50-5-0288) • PAD Zone 8 (AHIMS 50-5-0282) • PAD Zone 11 (AHIMS 50-2-0056) • PAD Zone 11 East (AHIMS 50-2-0057).	Construction	Section 9.4.5

Ref.	Issue	Mitigation Measure	Timing	HMSP Reference
AH-13	Aboriginal cultural values plan	An Aboriginal cultural values plan would be prepared in consultation with Aboriginal parties prior to construction and implemented as part of the CEMP. The plan would consider the Aboriginal Cultural Heritage Management Plan and identify: • the traditional Aboriginal use of the landscape in the area surrounding the proposal • the archaeological and contemporaneous expression of that use • the intangible cultural values of the landscape • aboriginal cultural heritage artefacts and scarred trees identified in the project area surrounding the proposal and their cultural value • stories for interpretation drawn from the key thematic areas, identify audiences, locations and options to provide this interpretation • how the findings will be represented by the project, for example in design finishes, art, landscaping and cultural food sources.	Pre-construction	Section 9.3
NAH-1	Avoiding and minimising impacts on Aboriginal heritage	Detailed design and construction planning would avoid direct impacts on identified items/sites of non-Aboriginal heritage significance as far as reasonably practicable. This would include the following listed items within the construction footprint: • Stockinbingal Railway Station • Stockinbingal Heritage Conservation Area.	Detailed design/ pre-construction	Section 9.7, 9.8
NAH-2	Engagement with relevant non-aboriginal heritage stakeholders	During the detailed design and construction planning phase, ARTC will continue engagement with Heritage NSW and relevant local councils to ensure impacts on non-Aboriginal heritage assets are minimised and mitigated.	Detailed design, pre-construction	Section 9.8
NAH-3	Avoiding impacts during construction	The CEMP would define a requirement for non-Aboriginal historical heritage awareness training for site workers prior to commencement of construction works. The awareness training would promote an understanding of heritage items that may be impacted during the works, and the requirements of the unexpected finds procedure.	Construction	Section 10.2
NAH-4	Unexpected finds including human skeletal remains	An unexpected finds procedure would be developed as part of the CEMP to provide a consistent method for managing any unexpected heritage or archaeological items and unexpected human skeletal remains. Non-Aboriginal awareness training (mitigation measure NAH-3) is to include a flow chart of the procedure on the findings of skeletal remains.	Construction	Section 9.5 Appendix B
NAH-5	Avoiding impacts during construction	The existing fencing and signage around Stockinbingal Railway Station would be maintained to avoid impacts during construction. The Billabong Creek rail underbridge would be fenced and marked on site plans within the CEMP as an area to be avoided during construction.	Construction	Section 9.7, 9.8
NV-1	Managing the potential	Location and activity-specific construction noise and vibration impact statements would be prepared based on	Construction	Noise & Vibration

Ref.	Issue	Mitigation Measure	Timing	HMSP Reference
	for construction noise and vibration impacts	a more detailed understanding of the construction methods, including the size and type of construction equipment, duration and timing of works, construction traffic associated with the proposal, and detailed reviews of local receivers as required.		Management Plan
NV-5	Structural vibration impacts	If the operational noise and vibration review indicates that vibration levels are predicted to exceed the screening criteria at sensitive receivers, a more detailed assessment of the structure would be carried out. For any heritage items with the potential to be affected, the detailed assessment would determine any specific sensitivities, in consultation with a heritage specialist, to ensure risks are adequately managed. If a heritage structure is found to be structurally unsound following inspection, a more conservative cosmetic damage objective (e.g, 2.5 mm/s peak component particle velocity for long-term vibration) would be considered.	Construction	Section 8.3, Section 9.8 Noise & Vibration Management Plan
NV-10	Impacts on heritage items as a result of construction vibration	Prior to the commencement of vibration-intensive works within the minimum working distances for cosmetic damage for heritage items, the potential for damage to the item would be assessed. Where there is potential for damage, alternative methods that generate less vibration would be investigated and substituted where practicable. Where residual cosmetic damage risks remain, condition surveys would be carried out and vibration monitoring with real-time notification of exceedance would occur during the activity. Site activities would be modified, where practicable, to avoid exceeding the cosmetic damage criteria. Any identified vibration-related damage to the items would be rectified	Construction	Noise & Vibration Management Plan

2.1.3 Commonwealth Approval – EPBC 2018/8233

There are no heritage specific conditions associated with the Commonwealth Approval (EPBC 2018/8233).

2.2 Definitions and Abbreviations

Table 2-3 Definitions and abbreviations

Term / Abbreviation	Definition / Expanded text
ACHAR	Aboriginal Cultural Heritage Assessment Report
ACVP	Aboriginal Cultural Values Plan
AHIMS	Aboriginal Heritage Information Management System
AMS	Activity Method Statement
ASIRF	Aboriginal site impact recording forms
ATSIHP Act	*Aboriginal and Torres Strait Islander Heritage Protection Act 1984*
ARTC	Australian Rail Track Corporation

Term / Abbreviation	Definition / Expanded text
A2S	Inland Rail – Albury to Illabo Project
CEMP	Construction Environmental Management Plan
CoA	Conditions of Approval
CSSI	Critical State Significant Infrastructure
CVAR	Cultural Values Assessment Report
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DPHI	Department of Planning, Housing and Infrastructure
Environmental Assessment Documentation	• Inland Rail – Illabo to Stockinbingal Environmental Impact Statement (ARTC 2022) • Illabo to Stockinbingal Project Response to Submissions (ARTC 2023) • Response to Submissions – Appendix E - Biodiversity Development Assessment Report version 12 (IRDJV, June 2024) • I2S – Mitigation Measures (Inland Rail, April 2024) • Illabo to Stockinbingal (SSI-9604) Additional and Appropriate Measures for Box Gum Woodland Impacts (Inland Rail, June 2024) Technical and Approvals Consultancy Services: Illabo to Stockinbingal – Box Gum Woodland Gum Flat Rehabilitation Opportunity (IRDJV, June 2024)
EIS	Environmental Impact Statement
EMS	Environmental Management System
EPA	Environment Protection Authority
EP&A Act	*NSW Environmental Planning and Assessment Act 1979*
EPBC	Environmental Protection and Biodiversity
EPBC Act	*Environmental Protection and Biodiversity Act 1999*
EPL	Environment Protection Licence
ER	Environmental Representative
FFMSP	Flora and Fauna Management Sub-plan
GMR	Global Mandatory Requirements
HMSP	Heritage Management Sub-Plan
IMS	Integrated Management System
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
IRPL	Inland Rail Pty Ltd
ISC	Infrastructure Sustainability Council
I2S	Illabo to Stockinbingal
JH	John Holland
LALC	Local Aboriginal Land Council
LEP	Local Environment Plan
LGA	Local Government Area

Term / Abbreviation	Definition / Expanded text
Material Harm	is harm that: (a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or 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).
NPW Act	*National Parks and Wildlife Act 1974*
NSW	New South Wales
NT Act	*Native Title Act 1993*
NVMSP	Noise and Vibration Management Sub-plan
PAD	Potential archaeological deposit
PDCA	Plan-Do-Check-Act
Plan	Heritage Management Sub-plan
RAPs	Registered Aboriginal Parties
RMMs	Revised Mitigation Measures
SEARs	Secretary's Environmental Assessment Requirements
SMART	Specific, Measurable, Achievable, Realistic and Timely
SSI	State Significant Infrastructure
SWMSP	Soil and Water Management Sub-plan
S2P	Inland Rail – Stockinbingal to Parkes Project
Work	Any physical work for the purpose of the CSSI including construction and low impact work but not including operational maintenance work

3 Introduction

3.1 Context

This Heritage Management Sub-plan (HMSP) forms part of the Construction Environmental Management Plan (CEMP) for the Inland Rail - Illabo to Stockinbingal Project (the Project).

This HMSP has been prepared to address the heritage requirements associated with Infrastructure Approval (CoA) (SSI-9406), the measures listed in the Environmental Impact Statement (EIS) as amended by the Submissions Report (known as Revised Mitigation Measures (RMMs)), EPBC Controlled Action Approval (EPBC Referral 2018/8233) and all applicable legislation, guidelines, standards and specifications.

Specifically, this HMSP has been prepared in accordance with CoA C23 – Heritage Management Plan, and RMM AH-9 – Aboriginal Cultural Heritage Management Plan. The Aboriginal Community and Stakeholder Engagement Strategy (CoA E132) and the Aboriginal Cultural Values Plan (ACVP) (CoA E133) will be developed separately to this HMSP.

3.2 Background

3.2.1 The Project

The Project is located in south-western New South Wales (NSW) in the Riverina region (Figure 3-1 Project locality

Illabo is a small town located at the southern end of the alignment 16 kilometres (km) north-east of Junee in the Junee Local Government Area (LGA). Stockinbingal is situated at the northern end of the Project, approximately 20 km north-west of Cootamundra in the Cootamundra–Gundagai Regional LGA. The major towns surrounding the Project are Wagga Wagga, about 50 km to the south, Young to the north-east and Cootamundra to the east.

The Project comprises a new rail corridor that would connect Illabo to Stockinbingal. The alignment branches out from the existing rail line north-east of Illabo and travels north to join the Stockinbingal–Parkes Line west of Stockinbingal. The route will travel primarily through undeveloped land predominantly used for agriculture. The Project includes modifications to the tie-in points at Illabo and Stockinbingal to allow for trains to safely enter and exit the Illabo to Stockinbingal (I2S) section of Inland Rail. The alignment also crosses several local and private roads, watercourses and privately owned properties. Additionally, no major towns are located within the Project site between Illabo and Stockinbingal.

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

- single track standard gauge on a combination of existing ground level embankments and within cuttings
- new bridges and road overpasses
- crossing loop and maintenance siding
- new level crossings, stock crossings and upgrades to existing level crossings
- new major stormwater diversion and minor drainage works associated with installation and upgrades to culverts.

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

provide a road-over-rail bridge at Stockinbingal. Re-alignment of Ironbong Road will also be completed to allow for safe sight lines. A temporary workforce accommodation camp will also be constructed to house the workforce for the duration of the Project. Key features of the Project are shown on Figure 3-2.

A detailed Project description is provided in Section 3 of the CEMP.

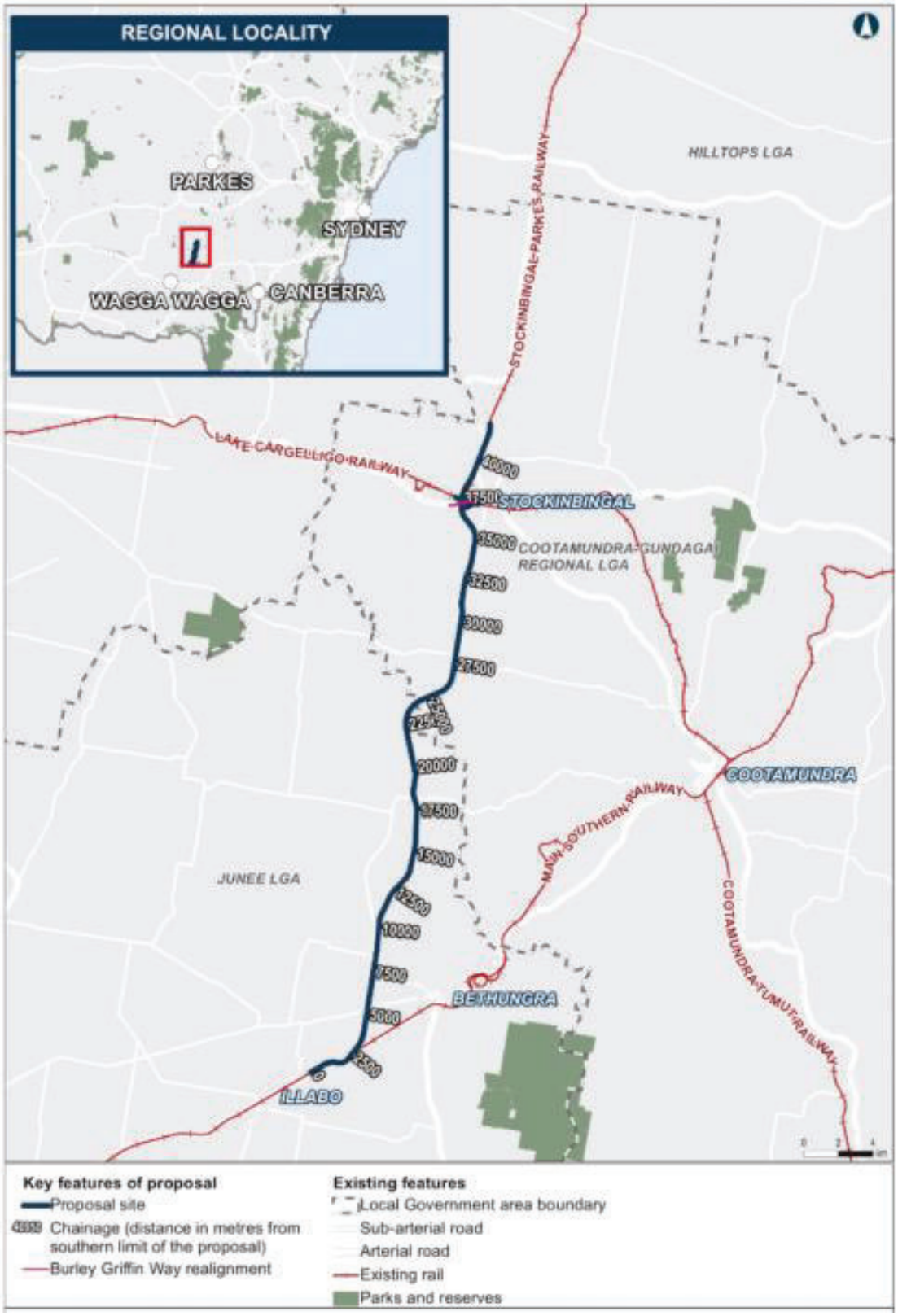


Figure 3-1 Project locality

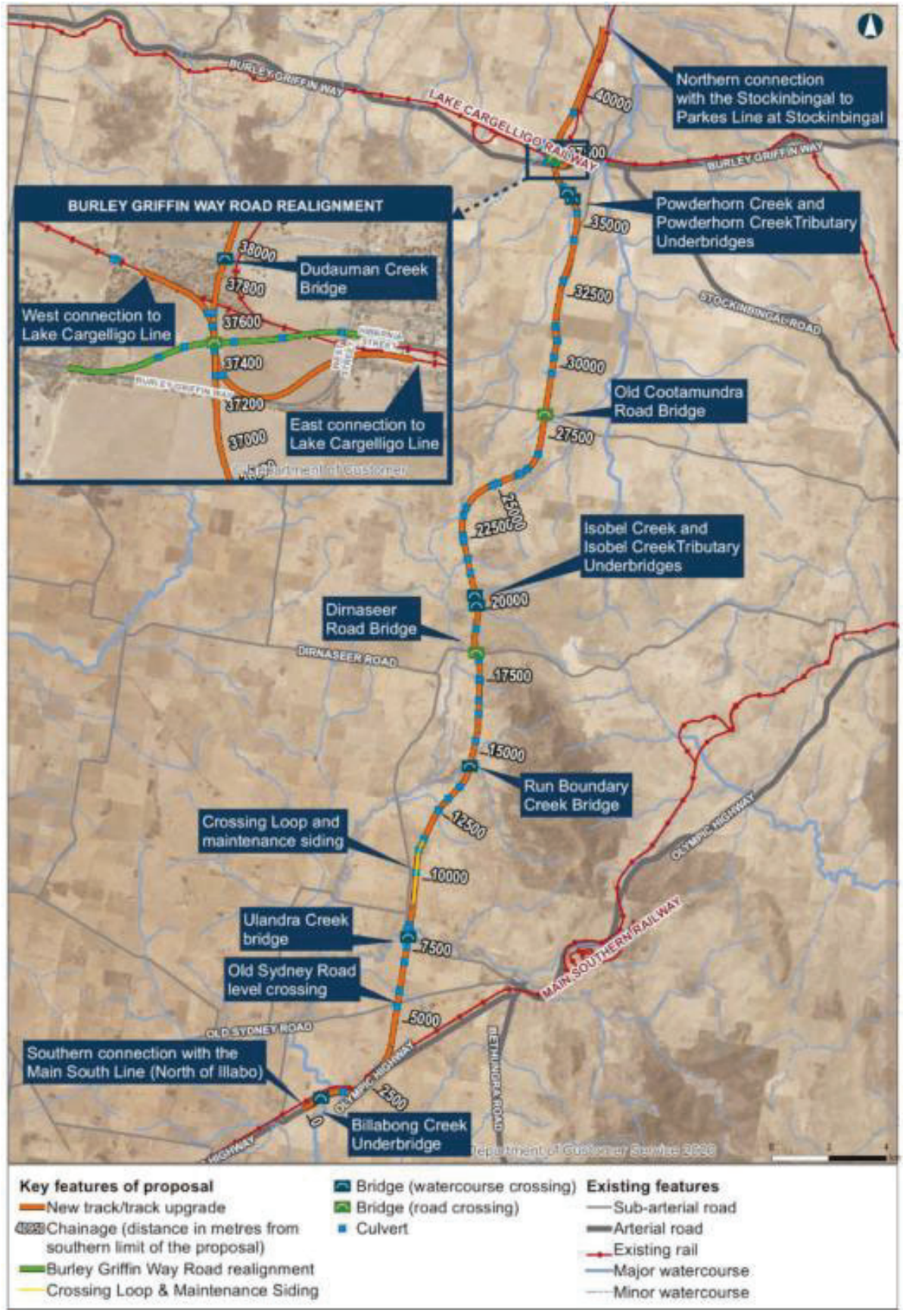


Figure 3-2 – Key Project features

3.2.2 Statutory Context

The Project was declared to be Critical State Significant Infrastructure (CSSI) in 2021, requiring approval under Division 5.2 of the *NSW Environmental Planning and Assessment Act 1979* (EP&A Act). In accordance with the Secretary's Environmental Assessment Requirements (SEARs) (dated 30 April 2021), an EIS was prepared by Australian Rail Track Corporation (ARTC) in August 2022. The EIS was exhibited by the Department of Planning, Housing and Infrastructure (DPHI) for a period of six (6) weeks, commencing on 14 September 2022 and concluding on 26 October 2022.

Following public exhibition of the EIS, ARTC prepared a Submissions Report to respond to submissions and describe Project design refinements.

Approval for the Project was granted on 4 September 2024 by the Minister for Planning (SSI-9406) and was subject to a number of CoAs.

The Project was determined to be a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The Project received EPBC Controlled Action Approval from Department of Climate Change, Energy, the Environment and Water (DCCEEW) (EPBC Referral 2018/8233) on 28 October 2024.

3.3 Scope of the plan

The HMSP will outline how the Project will minimise the potential for impacts and manage Aboriginal heritage, including:

- a description of Project construction activities
- environmental obligations attached to the Project
- legislation and external licenses, permits and approvals required for the Project
- objectives and targets
- plans and installation procedures for fencing and protective coverings
- induction package for construction workers and supervisors
- procedures for additional surveys and test excavation
- investigation of the anthropogenic nature of scarred trees within the Project area by a specialist in Aboriginal cultural heritage
- measures to manage the potential for impacts to potential Aboriginal heritage items (including burial sites) located in sensitive landscapes (such as alluvium landscapes)
- measures to protect sites close to the Project site from inadvertent impacts
- outcomes of further investigations
- a repatriation process for collected artefacts
- Describe review and improvement requirements for the Project
- Unexpected and Incidental Finds Protocol

3.4 Environmental Management Systems Overview

3.4.1 Environmental Management System

The Project EMS is based on the ISO 14001 accredited John Holland (JH) Environmental Management System (EMS), which itself forms part of the overall JH Integrated Management System (IMS), tailored to satisfy Project-specific requirements. It provides a framework to ensure an integrated approach to meeting Project requirements and defines how the Project will minimise impacts to the environment. It comprises a combination of governance documentation, Project-specific management plans (including this HMSP), procedures and tools.

The basis for the EMS is the concept of Plan-Do-Check-Act (PDCA), as shown in Figure 3-3.

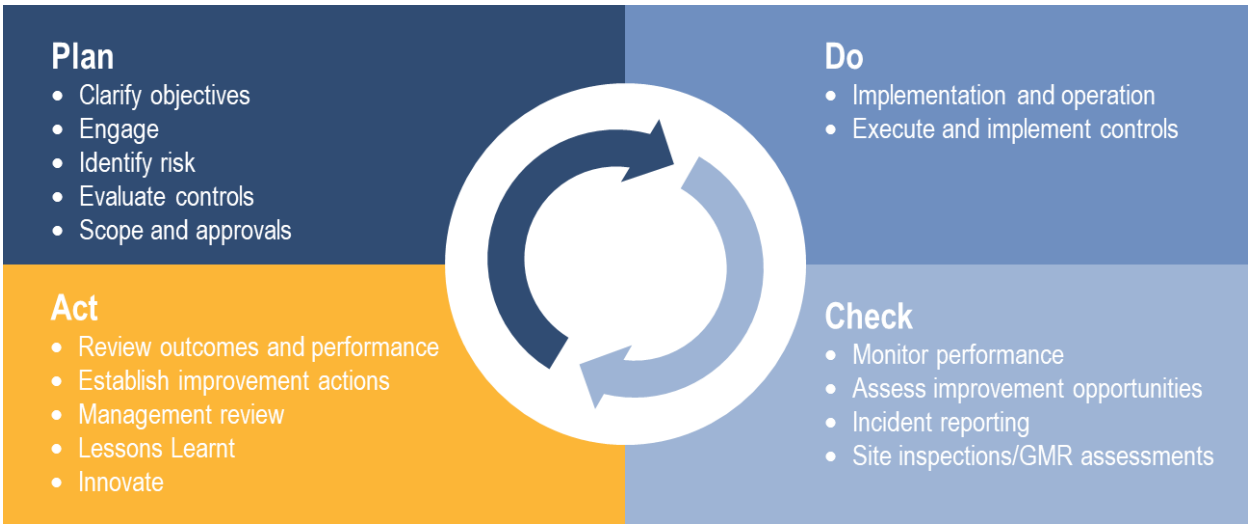


Figure 3-3 – PDCA model

The PDCA model provides an iterative process to achieve continual improvement. As applied to the Project environmental processes, it can be briefly described as follows:

- **Plan**: Establish environmental objectives and processes necessary to deliver results in accordance with the JH environmental policy.
- **Do**: Implement the environmental processes as planned.
- **Check**: Monitor and measure processes against the environmental policy, including its commitments, environmental objectives, and operating criteria, and report the results.
- **Act:** to continually improve the environmental processes.

The framework introduced in ISO14001 is integrated into a PDCA model within the EMS and in turn the Project CEMP and this HMSP.

In accordance with the JH Environmental Policy (refer to Appendix A5 of the CEMP), the Project will:

- Continually improve the EMS to enhance performance, through management review and CEMP and HMSP revisions
- Maintain third party certification of the overarching EMS to ISO 14001 with independent verification of implementation and effectiveness.

The EMS provides structure to environmental management of the Project and covers areas such as training, record management, inspections, objectives, and policies. This CEMP has been prepared as part of the EMS using JH documentation as the basis for some documents (Figure 3-4).

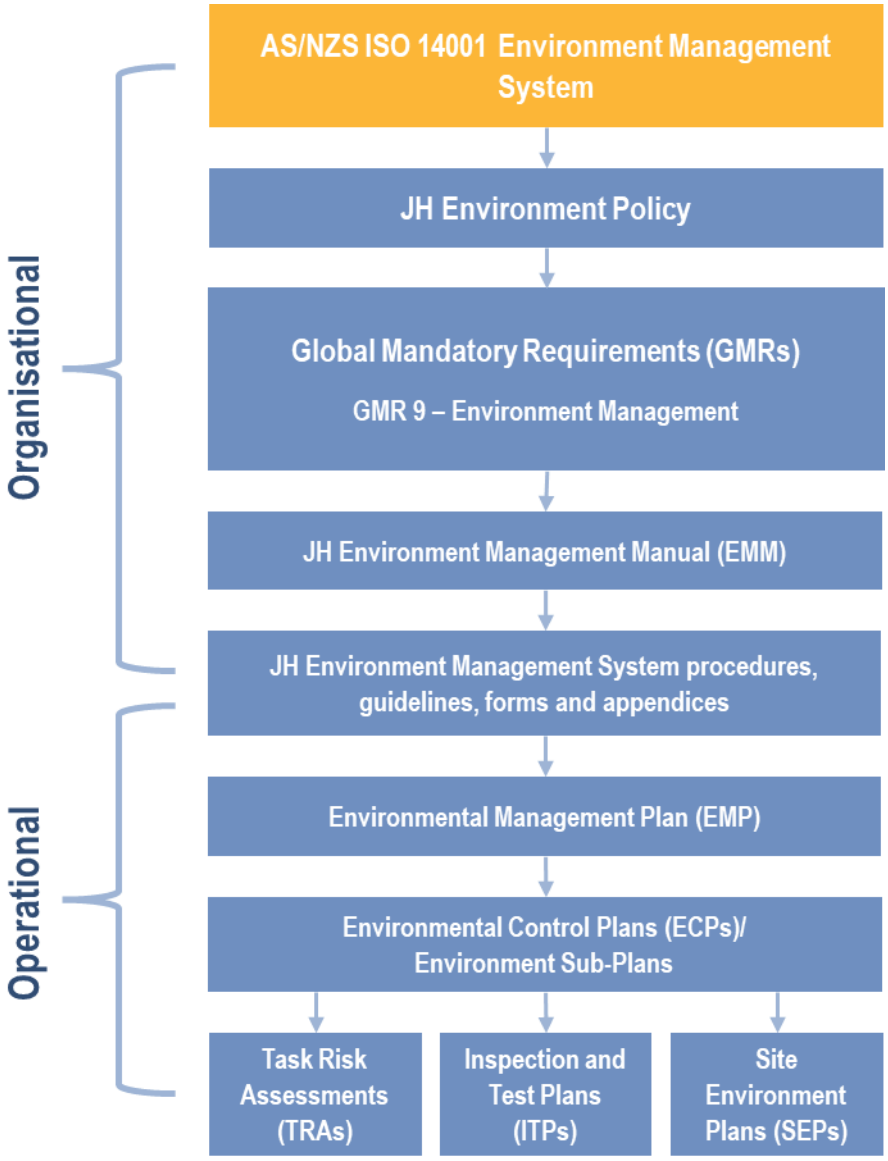


Figure 3-4 – EMS structure

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

3.4.2 Global Mandatory Requirements

JH's Global Mandatory Requirements (GMRs) outline the control strategies and minimum standards for managing, and where possible, eliminating key risks across the Project. These standards have been developed to:

- Minimise the impact of our activities on the environment and communities.
- Reduce our use of natural resources and energy, and the generation of waste.
- Be a reliable and trustworthy partner to our customers, dedicated to providing environmentally sustainable solutions throughout our diverse business.

The GMR's form part of the Project EMS and are to be used as tools in development of planning documents for management of environmental risks / impacts. Requirements of the GMR are integrated into the CEMP and CEMP sub-plans (including this HMSP).

3.4.3 Plan preparation, endorsement and approval

This HMSP has been prepared by suitably qualified personnel from Inti Pty Ltd, JH, with input from the Project's appointed heritage consultant (MTS Heritage Pty Ltd). The HMSP has been endorsed by the Environmental Representative (ER). The HMSP will then be submitted to the Planning Secretary for approval no later than one month before the commencement of construction. In accordance with CoA 15, construction will not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary.

3.4.4 Interactions with other management plans and strategies

This HMSP is also associated with the following documents which have been reviewed and incorporated into this HMSP where applicable:

- Chapter 15 – Cultural Heritage (from the EIS)
- Chapter 27 – Environmental Management and Mitigation (from the EIS)
- Tech paper 7 - Aboriginal Cultural Heritage (from the EIS)
- Appendix B – Revised Mitigation Measures (Response to Submissions)
- Appendix G – Aboriginal Heritage Clarifications (Response to Submissions)
- Aboriginal Cultural Values Plan (CoA E133)
- Aboriginal Community and Stakeholder Engagement Strategy (CoA E132)

4 Purpose and Objectives

4.1 Purpose

The purpose of this HMSP is to describe how harm to Aboriginal Heritage and non- Aboriginal heritage will be minimised and or managed during the construction of the Project. No direct or indirect impacts to Non-Aboriginal heritage items were identified by the EIS and, as such, the plan focusses on Aboriginal heritage. The HMSP has been prepared with consideration given to the Specific, Measurable, Achievable, Realistic and Timely (**SMART**) principles. These include:

- **S**pecific – outlining mitigation and management measures during construction as identified within the EIS.
- **M**easurable – Inspection and monitoring requirements detailed in Section 7 of this Plan include specific measures or indicators for which inspection and monitoring requirements will be triggered. Provision of Project-specific vibration monitoring for heritage structures is also included in the Noise and Vibration Management Sub-Plan (NVMSP).
- **Ac**hievable – Ongoing compliance with the relevant conditions of approval outlined in the Project approvals (Section 3 of this Plan) is achievable throughout the delivery of the Project and represents the minimum requirements to be implemented by JH.
- **R**elevant - The management measures outlined in Section 7 of this Plan represent JH's approach to monitoring and tracking against the objectives, targets and environmental performance outcomes (which are identified in Section 2.2.1 of this Plan).
- **T**ime-bound – On a broader scale, the management measures set out within this Plan are required to be implemented for the duration of construction, setting a clear and defined time frame and includes reference to other temporal applications, including during detailed design, pre-construction, post-construction and/or operation.

4.2 Objectives

The objective of this HMSP is to outline the mitigation and management measures described within the following documents for implementation during construction activities.

- The EIS prepared for the Project
- The Submissions Report prepared for the Project, including the RMMs
- IRPL Specifications

4.2.1 Performance Outcomes

Project design and construction will be prepared in consideration of the 'desired performance outcomes' provided in the SEARs. Project-specific performance outcomes are further defined in Chapter 27 (Table 27.7) of the EIS. The environmental performance outcomes related to heritage for the Project are included in Table 4-1.

Table 4-1 – Performance outcomes

Item	SEARs desired performance outcomes	I2S Specific Environmental Performance Outcomes	Where addressed
Heritage	The design construction and operation of the project facilities, to the greatest extent practicable, the long-term protection, conservation and management of the heritage and cultural significance of items	• The Project is designed to minimise the surface footprint as far as practicable • The design is sympathetic to the historic significance of the existing rail	Section 7

Item	SEARs desired performance outcomes	I2S Specific Environmental Performance Outcomes	Where addressed
	of environmental heritage, and Aboriginal objects and places/ The design, construction and operation of the project avoids or minimises impacts, to the greatest extent practicable, on the heritage significance of environmental heritage and Aboriginal objects and places.	corridor and the heritage significance of surrounding listed heritage items and, where practicable, avoids and minimises impacts to heritage • Impacts on heritage are managed in accordance with relevant legislation, including the EP&A Act, the *National Parks and Wildlife Act 1974*, and relevant guidelines.	

4.3 Targets

The following targets related to heritage matters have been identified for implementation during the Project:

- Achieve compliance with the relevant legislative requirements, Infrastructure Approval (SSI-9406), EPBC Controlled Action Approval (EPBC 2018/8233), Submissions Report, relevant RMMs and the Project EPL.
- Compliance with JH GMRs.

5 Environmental Requirements

In accordance with NSW CoA A5, references in the terms of this Plan to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in at the date of the Infrastructure Approval (SSI-9406).

5.1 Relevant legislation and Guidelines

The primary legislation, guidelines and standards relevant to heritage management are presented in Table 5-1.

Table 5-1 – Principal legislation and guidelines relevant to Heritage

Legislation	Commonwealth: • *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) • *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (ATSIHP Act) • *Native Title Act 1993* (NT Act) NSW: • *Heritage Act 1977* • *Environmental Planning and Assessment Act 1979* (EP&A Act) • *National Parks and Wildlife Act 1974* (NPW Act) • *Native Title (New South Wales) Act 1994* • *NSW Aboriginal Land Rights Act 1983* •
Guidelines and Specifications	• *Code of practice for archaeological investigation of Aboriginal objects in NSW* (DECCW, 2010) • *Due Diligence Code of Practice for the protection of Aboriginal Objects in New South Wales* (DECCW 2010) • *Aboriginal cultural heritage consultation requirements for proponents (DECCW, 2010)* • *Assessing Heritage Significance* (NSW Heritage Office, 2001- revised 2023) • *Criteria for the assessment of excavation directors* (NSW Heritage Council, 2011- revised and adopted September 2019) • *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW,* (OEH, 2011) • *Managing Urban Stormwater: Soils and construction – Volume 1* (Landcom, 2004) • *NSW Heritage Manual* (Heritage Office and Department of Urban Affairs and Planning, 1996) • *Skeletal Remains: Guidelines for Management of Human Remains under the Heritage Act 1977 (*OEH, 1998) • *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance* (Australia ICOMOS, 2013) ('the Burra Charter').

Relevant provisions of the above legislation are identified in the register of legal requirements included in the CEMP.

5.2 Infrastructure Sustainability Council (ISC) Requirements

In accordance with CoA E148, JH is required to achieve a minimum ‘excellent’ rating for both ‘Design’ and ‘As built’ civil works, under the Infrastructure Sustainability Council (ISC) of Australia infrastructure rating tool, or through the use of an equivalent process or an equivalent level of performance using a demonstrated equivalent rating tool. JH will be delivering the ISC rating using v1.2.

The implementation of ISC requirements is embedded across all relevant works and environmental management practices. Heritage will be managed under the relevant credits including Her-1 and Her-2 and will be aligned with commitments made in the Project Sustainability Management Plan. The key requirements for Her-1 and Her-2 as defined in the ISC v1.2 Technical Manual, including goals and measures relevant to heritage are provided in

Table 5-2.

Table 5-2 ISC Requirements

Credit	Credit Name	Level	Benchmark	Must Statement (Updated with Rulings August 2023)	Should Statement	Where addressed
Her-1	Heritage Assessment and Management	1	Community heritage values have been identified through consultation and integrated into studies AND Measures to minimise adverse impacts to heritage during construction and operation have been identified and implemented	Heritage aspects relevant to this credit must be managed, reviewed or audited by a suitably qualified professional. A suitably qualified professional is someone who has a formal cultural heritage qualification and minimum of five years' experience or appropriate recognition of traditional knowledge of the local area or as determined appropriate in the relevant jurisdiction. Community heritage values, including those of Indigenous People of the Land connected to the Project location, must be identified through consultation, and integrated into the heritage studies.	A heritage assessment should be conducted in accordance with the Burra Charter definition. Baseline surveys of existing heritage should form part of the assessment, as should predictions for heritage impacts during construction and operation of the infrastructure.	Section 6.2, 7
Her-1	Heritage Assessment and Management	2	Community and key stakeholders have participated in the heritage studies AND Heritage values beyond those listed in government registers have been identified, considered and addressed AND Heritage has been interpreted to promote local heritage values	The interpretation of the heritage must at least include the following: 1. Details on the history of the area; 2. The location and extent of historic and cultural heritage sites; 3. Objectives of interpretation; and 4. An Interpretation Plan (or similar) to enrich an understanding of the place while providing guidance for aspects of the development of the area that will build on its unique characteristics. - Community and key stakeholders , including Indigenous People of the Land connected to the Project location must participate in the heritage studies. - A broader approach to heritage is required that builds on the review of heritage registers, including investigation of intangible indigenous and non-indigenous heritage values that may be known by or may be important to the community and include heritage precincts, and heritage items and place in the vicinity that may be adversely impacted by proximity to the infrastructure.		Section 6.2, 7
Her-1	Heritage Assessment and Management	3	Opportunities have been identified and implemented to enhance heritage values.	Not only must heritage be preserved and promoted, but opportunities need to have been identified to enhance heritage values and these must have been implemented.		Section 9.8

Credit	Credit Name	Level	Benchmark	Must Statement (Updated with Rulings August 2023)	Should Statement	Where addressed
Her-2	Monitoring of Heritage	1	Monitoring of heritage is undertaken at appropriate intervals during construction	NA	Monitoring would only be required if a trigger occurred. A common trigger is an 'unexpected find' protocol (Transport for NSW 2015).	Section 10.3
Her-2	Monitoring of Heritage	2	Monitoring and modelling demonstrates maintenance of heritage values	NA	- A suitably qualified professional or committee should oversee heritage monitoring. - Where a heritage committee is used, it should involve client, contractor and community representatives.	Section 10.3
Her-2	Monitoring of Heritage	3	Monitoring and modelling demonstrates enhancements to heritage values	NA	Monitoring (or modelling of future states) must demonstrate that heritage values have been (or will be) successfully enhanced.	Section 10.3, 9.8

6 Consultation

6.1 Consultation for this Plan

In accordance with CoA C17 of the Infrastructure Approval (SSI-9406) and NAH-2 of the UMMs, JH is required to consult with the following agencies in relation to this HMSP:

- Heritage NSW
- RAPs
- Relevant councils, including:
  - Junee Shire Council
  - Cootamundra Gundagai Council

In accordance with CoA A10, a Consultation Summary Report which summarises the consultation with the above agencies has been prepared and provided in Appendix A. Where future comments are received from an agency or group that has been requested to provide comment on this Plan, JHG will consider the comments and incorporate them into the Plan where relevant.

6.2 Aboriginal Heritage Specific Consultation

In New South Wales, Aboriginal cultural heritage assessments must comply with the legislation developed by the Department of Climate Change, Energy, the Environment and Water (DCCEEW) and guidelines developed by Heritage NSW, which emphasise consulting Aboriginal communities when investigating, assessing and reporting on Aboriginal cultural heritage in NSW. The Project area falls within the traditional lands of the Wiradjuri people. Aboriginal consultation has been undertaken for the Project in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW, 2010b). This included participation by RAPs and Local Aboriginal Land Councils (LALCs) in the site survey and the review of draft Aboriginal cultural heritage assessment report. Consultation with other Indigenous stakeholders included Wagga Wagga and Young Local Aboriginal Land Councils (LALCs) and Mawang Galway Elders Group.

6.2.1 Registered Aboriginal Parties

Registered Aboriginal Parties (RAPs), under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*, are an Aboriginal group, organisation or individual who hold appropriate cultural heritage knowledge of the Project area required to inform decision making relating to Aboriginal cultural heritage. They provide advice and consent on development proposals and heritage assessments, ensuring Aboriginal cultural values are respected. Heritage NSW (formerly OEH) manages the registration process based on cultural connection and traditional authority. The RAPs were consulted throughout each stage of the Project's Aboriginal Cultural Heritage Assessment Report (ACHAR).

6.2.2 Consultation for the Project ACHAR

The consultation process for the Project's ACHAR involved identification, registration, engagement and consultation with Aboriginal peoples who may hold cultural knowledge relevant to determining the significance of an Aboriginal object and/or place, known as the RAPs. The following stages of consultation have been applied:

1. Notification of the Project: Informing appropriate agencies and Aboriginal people about the nature and scope of the proposal.
2. Presentation of Information: Understanding what might be present in the landscape and its cultural significance.
3. Gathering Information: Determining the potential impacts and the proposed strategies to deal with them.
4. Review of Draft Report: Reviewing the report.

Aboriginal groups were invited to register interest as a party to the consultation. This included placing local press advertisement(s), seeking responses from the RAPs on the proposed assessment methodology, and providing the RAPs with an opportunity to comment on the assessment reports and recommendations. The guidelines specify timeframes for each stage of the consultation process.

Further details and information regarding the consultation process and outcomes are provided in the EIS, Technical Paper -7 – Aboriginal Cultural Heritage Assessment Report, Section 3.5 which was undertaken by GML Heritage.

6.2.3 Consultation for the Construction Stage of the Project

Given the time that has lapsed since preparation of the EIS and the number of additional Aboriginal stakeholders included in the Heritage NSW Stakeholder List, Inland Rail chose to re-start the consultation to ensure an inclusive process during the construction stage of the Project. The steps followed as part of the EIS are being replicated and an updated RAP list will be created for subsequent archaeological investigations and the Aboriginal Cultural Values Assessment.

Consultation with RAPs during this Project will involve:

- Presentation of Project Information;
- Provision of an archaeological survey and test excavation methodology for review;
- Provision of a methodology for the cultural values assessment for review;
- Engagement in cultural mapping of Country and the record of intangible cultural values;
- Input in the development of conservation, management and mitigation measures for identified cultural values within the Project area;
- Participation in Cultural Design Input Workshops;
- Review of a draft Aboriginal Cultural Values Assessment Report;
- Review of an archaeological salvage excavation methodology; and
- Review of a final Aboriginal Excavation Report on the results of the archaeological investigation.

It should be noted that previously registered RAPs have automatically been included in consultation in line with the contact details provided by GML. An introductory letter was sent to all previously registered RAPs on 7 Jan 2025 and they were included in consultation from the point of sending out the Additional Survey and Test Excavation Methodology onwards.

6.2.4 Aboriginal Community and Stakeholder Engagement Strategy

For this stage of the Project, Aboriginal community consultation was re-initiated in accordance with the DCCEEW Aboriginal cultural heritage consultation requirements for proponents. Stage 1.1 letters to statutory bodies were sent on 20 January 2025, requesting contact details for Aboriginal people who may have an interest in the study area.

These statutory bodies included the:

- Heritage NSW (formerly OEH)
- Young Local Aboriginal Land Council
- Wagga Wagga Local Aboriginal Land Council
- Office of The Registrar, *Aboriginal Lands Right Act 1983*
- National Native Title Tribunal
- Native Titles Service Corporation

- Junee Council
- Cootamundra Gundagai Council
- City of Wagga Wagga Council; and
- Greater Sydney Catchment Management Authority

An advertisement was placed in The Riverina Leader on 3 February 2025 with the closing date for registration on 17 February 2025. Following the receipt of responses from Stage 1.1, a number of potential Aboriginal stakeholders were identified. Stage 1.2 letters were sent to the identified Aboriginal people following the close of registration. Both the Stage 1.2 letters and the advertisement invited Aboriginal people with an interest in the study area to register as a stakeholder to be involved in consultations.

Following the creation of a new RAP List, an Aboriginal Community and Stakeholder Engagement Strategy has been prepared to document the various stage of consultation that will take place as part of the archaeological investigations and during preparation of the Aboriginal Cultural Heritage Values Assessment.

6.2.5 Ongoing Consultation Required for the Project

Copies of the final reports and draft documents for consultation will be provided to the RAPs and LALCs in accordance with the following CoA's.

1. Condition E135 & E138 Aboriginal Archaeological Survey and Test Excavation Methodology
   - Consultation with RAPs during preparation of the methodology.
   - Consultation with Heritage NSW during the preparation of the methodology.
   - Provision of a copy to the RAPs and Heritage NSW once finalised.
2. Condition E136 & E138 Aboriginal Archaeological Salvage Methodology
   - Consultation with RAPs during preparation of the methodology.
   - Consultation with Heritage NSW during the preparation of the methodology.
   - Provision of a copy to the RAPs and Heritage NSW once finalised.
3. Condition E137 Exceedance of the level of significance of sites identified in the EIS- ACHAR
   - Consultation with RAPs once an exceedance is identified
   - Consultation with Heritage NSW once an exceedance is identified
4. Condition E139 Aboriginal Cultural Heritage Excavation Report
   - Consultation with RAPs for a minimum of 28 days to consider the report and provide comment.
   - Provision of the final report to the RAPs, Wagga & Young Local Aboriginal Land Councils, Cootamundra-Gundagai Regional Council, Junee Council, Heritage NSW and the Planning Secretary (within 24 months of all test and salvage excavations).

Any future work relating to the Aboriginal archaeological mitigation, or any significant changes to the development, should include consultation with the RAPs.

7 Existing Environment

7.1 Land use history

The Project area traverses multiple working farms, as well as the township of Stockinbingal, roads and rail. The land has undergone significant changes over time including vegetation clearance, construction of roads, tracks, dams, fences, and ploughing for crops. The natural landscape within lengthy tracts of the area has been impacted by these activities. Some sections of the area have been used for stock grazing, which has a less obvious impact to zones of potential archaeological sensitivity, although still creates impacts through erosion. These impacts create other disturbances which reduce the potential for Aboriginal archaeological sites across the area, and therefore had an important bearing on the assessment of the archaeological resource.

7.2 Soil landscape

The Project area passes through 12 soil landscapes and crosses six watercourses. These soil landscapes fall into three soil groups: Erosional, Transferral and Alluvial. Erosional soil landscapes are generally found to be shallow on upper slopes and deep on mid to lower slopes and along creek lines. Transferral soil landscapes can vary between shallow and deep on upper slopes and are generally deep across all other areas. Alluvial soil landscapes vary between moderately deep and deep across all landforms. The soil landscapes in the Project area is discussed in detail in the EIS Technical Paper 7.

7.3 Hydrology

The Project area spans the catchment of both the Murrumbidgee River and Lachlan River (Lower and Upper). The Project crosses six ephemeral creeks—Billabong Creek, Ulandra Creek, Run Boundary Creek, Isobel Creek, Powder Horn Creek and Dudauman Creek. All of these creeks drain the Bethungra ranges, located to the east of the area, and flow towards the south. Technical Paper 7 provides further information on the hydrology in the study area.

7.4 Land use context

The nature and availability of resources, including water, flora and fauna, and suitable raw materials for the manufacture of stone tools and other items, had (and continues to have) a significant influence on the way in which people use the landscape. Alterations to the natural environment also impact on the preservation and integrity of any cultural materials, whether Aboriginal or non-Aboriginal, while current vegetation and erosional regimes affect the visibility and detectability of sites and objects. For these reasons, it is essential to consider the land use context as a component of any heritage assessment.

Prior to European occupation, the area would have been covered in open eucalypt woodlands, which would have minimised erosion and artefact movement. Modified trees may be found in any soil landscape, in areas with mature vegetation. During and post land clearing, modified trees may have been destroyed and stone artefacts in erosional landscapes may have been displaced from their original discard point. However, soil landscapes with deep soil profiles are generally more stable and artefacts in these areas often undergo less displacement. Therefore, despite recent agricultural activity, it can be predicted that artefacts may be found in the majority of the Transferral and Alluvial landscapes and in the mid to lower slopes of Erosional landscapes within the area.

7.5 Aboriginal heritage

7.5.1 Historical Aboriginal land use

The Project area is located within the traditional land of the Wiradjuri people, who occupied the largest geographic area of all Aboriginal groups in New South Wales, including the Macquarie, Lachlan, and Murrumbidgee Rivers. The name "Wiradjuri" means "people of the three rivers." Prior to European settlement, an estimated 2,000 to 3,000 Wiradjuri people lived near Wagga Wagga.

The Project area, located about 30 km north of the Murrumbidgee River, was traditionally used by the Wiradjuri people who moved in small groups across river flats, open land, and waterways. The area includes permanent and ephemeral creeks, where the Wiradjuri supplemented their diet with fish, kangaroos, emus, fresh fruit, nuts, yam daisies, wattle seeds, and orchid tubers.

7.5.2 Aboriginal sites, objects, places and values

A desktop review of archaeological literature and data was conducted in the EIS to determine if Aboriginal sites had been previously identified within the Project area as well as the potential for further sites to be present based on topography, local knowledge and site inspections/investigations. Based on this review, a study area was developed with further refinement to a series of zones of sensitivity. These zones of sensitivity were then further refined (based on the project alignment) to a series of 11 indigenous survey zones (Zones 1-11).Maps showing the location of each heritage zone have been included in Appendix C of this Plan.

The results of the Aboriginal Heritage Information Management System (AHIMS) search identified three listed Aboriginal sites within Zone 3, all of which were scarred trees as detailed below.

- Bethunga Crown Land Road Deakin/Eulolmo tree fire scar 2 (50-5-0120), a Modified Tree (Carved or Scarred) located within the Project site
- Bethunga Crown Land Road Deakin/Eulolmo tree fire scar 1 (50-5-0121), a Modified Tree (Carved or Scarred) located within the Project site
- Bethunga Crown Land Road Deakin/Eulolmo tree fire scar 1 (50-5-0117), a Modified Tree (Carved or Scarred) located within the Project site.

However, following additional survey and assessment, they were found to have scars that were natural, rather than cultural in origin and therefore are not considered AHIMS sites. As shown in Table 7-1, these records have been removed from the AHIMS and are no longer classified as sites.

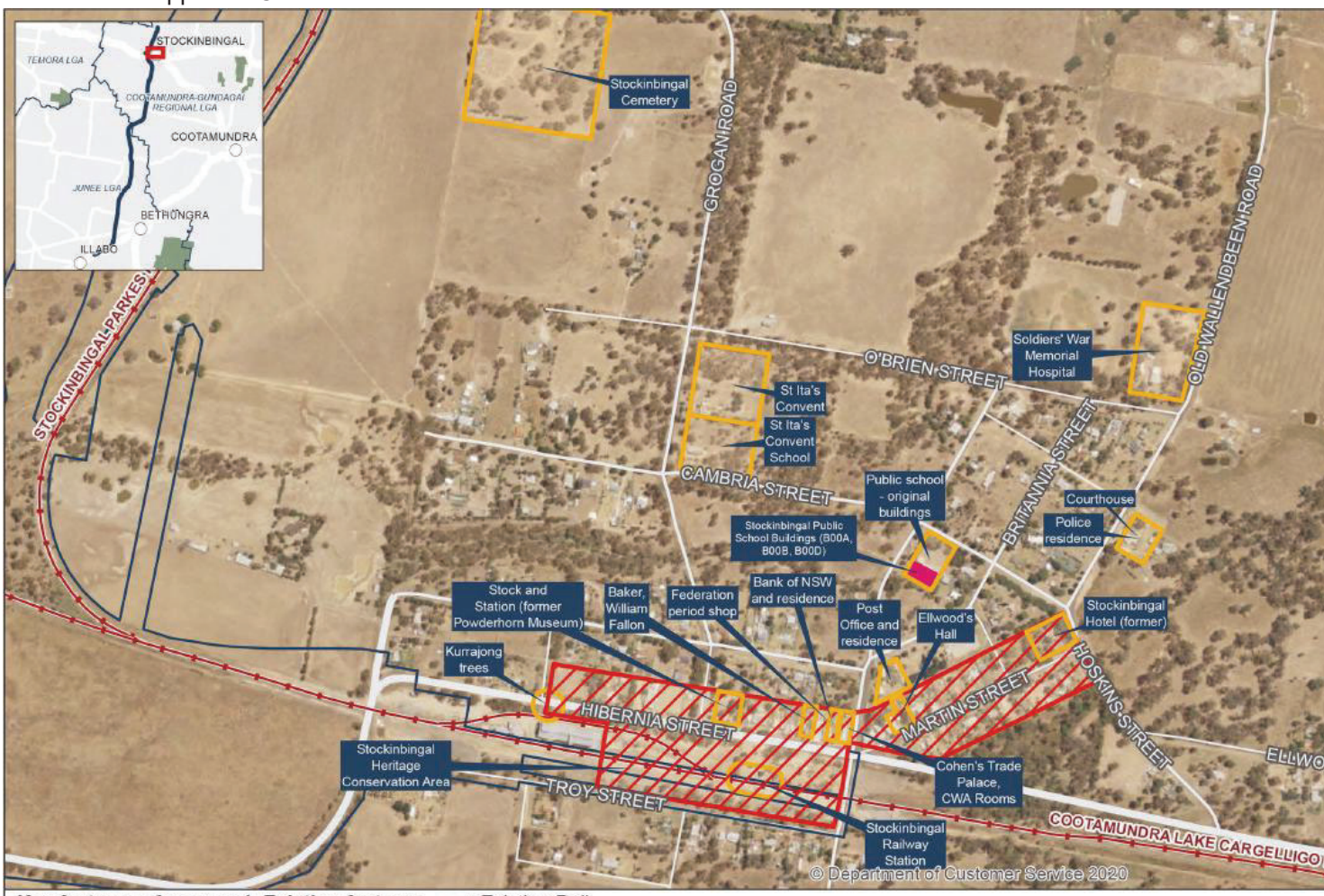
The desktop review undertaken for the EIS did not identify any Aboriginal places declared under section 84 of the NPW Act, nor Aboriginal places of heritage significance defined by the Cootamundra LEP and Junee LEP, within the study area.

The results of the desktop review were used to produce a predictive model to identify areas of archaeological potential which identified 11 separate zones. To verify the model, archaeological surveys of the study area, in the form of a pedestrian survey, were undertaken in conjunction with members of the local Aboriginal community, as represented by the RAPs. The survey targeted zones of potential sensitivity based on the results of the desktop review and consultation with the Aboriginal community.

Based on the archaeological surveys, several potential archaeological deposits (PAD) were identified and underwent archaeological test excavations. The results of the test excavations were used to refine the identified areas of potential archaeological sensitivity and predictive modelling. It's noted that archaeological test excavations were not undertaken in Zones 5, 6, 9 and 10 due to access and other issues and will be undertaken prior to relevant works as further detailed in Section 9.4.

Based on AHIMS search results, surveys, archaeological excavations and predictive model outputs, the potential Aboriginal objects, sites and values known to be present within or near the Project site are identified in Table 7-1

and shown in Appendix C and



15.3 Heritage listed items within the study area

Figure 7-1 . This includes the 22 Aboriginal sites identified during survey and PADs that were either found to be Aboriginal sites or sites with archaeological potential that have not been physically surveyed. Some details provided in this table have been provided post EIS by Inland Rail following updates to information provided by GML.

Table 7-1 – Aboriginal sites, places and values located within or in close proximity of the Project (as defined in the Project EIS 2022 and updated with information provided by Inland Rail from revisions of data and information made available from GML and IRPL teams.)

Zone	Site ID	AHIMS ID	Relationship to Project	Site type	Validity	Comments
Zone 1	Artefact sites ARTC1 and ARTC4	50-5-0266, 50-5-0276	Inside Project area but outside construction zone	Cultural sites	Valid	Low density surface artefact scatter (ARTC1) and surface isolated artefact (ARTC4)
	Artefact site ARTC2	50-5-0267	Inside Project area and partially inside construction zone	Cultural site	Valid	Low density surface artefact scatter
	Artefact sites ARTC3	50-5-0274	Outside Project area	Cultural site	Valid	Isolated surface artefact
	Artefact site ARTC5	50-5-0275	Inside Project area	Cultural site	Destroyed (artefact collected)	Isolated surface artefact. No longer valid. Artefact collected during test excavation
	Site Zone 1—high density scatter	50-5-0293	Inside Project area and partially inside construction zone	Cultural site	Valid	Three areas of high-density subsurface artefacts identified as part of excavations of Zone 1 PAD (50-5-0293)
	Site Zone 1—low density scatter	50-5-0293	Inside Project area and partially inside construction zone	Cultural site	Valid	Two areas of low-density subsurface artefacts identified as part of excavations of Zone 1 PAD (50-5-0293)
	Site Zone 1—PAD	50-5-0293	Inside Project area and partially inside construction zone	Potential Archaeological Deposit	No longer valid (excavated)	Site has been excavated. Replaced by areas of low- and high-density subsurface artefacts (50-5-0293)
	Ring tree	-	Outside Project area	Cultural site	Valid	Ring tree located 40m north of Project area
Zone 2	Scarred tree ARTC 6	50-5-0277	Outside Project area	Cultural site	Valid	Culturally modified tree. Located 135m west of Project area
	Site Zone 2—high density scatter	50-5-0294	Inside Project area	Cultural site	Valid	Two areas of high-density subsurface artefacts identified as part of excavations of Zone 2 PAD (50-5-0278)
	Site Zone 2—low density scatter	50-5-0294	Inside Project area	Cultural site	Valid	One area of low-density subsurface artefacts identified as part of excavations of Zone 2 PAD (50-5-0278)
	Site Zone 2—PAD	50-5-0278	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD (50-5-0278) excavated and deregistered. Replaced by areas of low- and high-density subsurface artefacts (50-5-0294)
Zone 3	Scarred trees	50-5-0117, 50-5-0120, 50-5-0121	NA	Not a cultural site	Not valid	Determined not to be culturally modified trees and deregistered from AHIMS
	Scarred tree ARTC18	50-5-0287	Inside Project area	Cultural site	Valid	Culturally modified tree. Located on boundary of the construction zone
	Scarred tree ARTC20	50-5-0297	Inside Project area but outside construction zone	Cultural site	Valid	Culturally modified tree. Located on access road likely to be utilised during construction

Zone	Site ID	AHIMS ID	Relationship to Project	Site type	Validity	Comments
Zone 4	Artefact site ARTC7	50-5-0285	Outside Project area	Cultural site	Valid	Isolated surface artefact
	ARTC8	50-5-0284	Outside Project area	Cultural site	Valid	Low density surface artefact scatter
	ARTC9	50-5-0283	Outside Project area	Cultural site	Valid	Isolated surface artefact
	Site Zone 4—PAD	40-4-0287	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD excavated. Only one artefact identified, and this has been included as part of site ARTC8 (50-5-0284). PAD deregistered from AHIMS
Zone 5	PAD Zone 5	-	Inside Project area	Potential cultural site(s)	Valid	Area of archaeological sensitivity. Survey and test excavations required to investigate the area and determine archaeological significance
Zone 6	PAD Zone 6	-	Inside Project area	Potential cultural site(s)	Valid	
Zone 7	Artefact sites ARTC12 and ARTC16	50-5-0268, 50-5-0272	Inside Project area and construction zone	Cultural site	Valid	Isolated surface artefacts Valid but could not be found again during the testing program
	Artefact sites ARTC13–15	50-5-0269, 50-5-0270, 50-5-0271	Outside Project area	Cultural site	Valid	Isolated surface artefacts (ARTC13, ARTC14) and low-density surface artefact scatter (ARTC15)
	Artefact site ARTC17	50-5-0273	Inside Project area and construction zone	Cultural site	Valid	Isolated surface artefact
	Site Zone 7—PAD North	50-5-0281	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD excavated and no subsurface artefacts identified. PAD has been deregistered from AHIMS
	Site Zone 7—PAD South	50-5-0288	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD excavated and no subsurface artefacts identified. PAD has been deregistered from AHIMS
Zone 8	Site Zone 8—PAD	50-5-0282	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD excavated and no subsurface artefacts identified. PAD has been deregistered from AHIMS
Zone 9	-	-	Inside Project area and construction zone	Potential cultural site(s)	Valid	Additional archaeological survey and test excavation required to confirm archaeological potential
Zone 10	-	-	Inside Project area and construction zone	Potential cultural site(s)	Valid	
Zone 11	Zone 11—low density scatter	50-2-0068	Outside Project area	Cultural site	Valid	One area of low-density subsurface artefacts identified as part of excavations of Zone 11 PAD (50-2-0056)
	Site Zone 11—PAD	50-2-0056	Outside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD (50-2-0056) excavated and deregistered. Replaced by areas of low-density subsurface artefacts (50-2-0068)
Zone 11 East	Artefact sites ARTC10	50-2-0054	Located inside Project area and construction zone	Cultural site	Valid	Isolated surface artefact
	Artefact site ARTC11	50-2-0055	Located inside Project area but outside construction zone	Cultural site	Valid	Isolated surface artefact

Zone	Site ID	AHIMS ID	Relationship to Project	Site type	Validity	Comments
	Scarred tree ARTC19	50-5-0058	Located outside Project area but in close proximity	Cultural site	Valid	Culturally modified tree. Located 25m from construction zone
	Site Zone 11 East—PAD	50-2-0057	Inside Project area	Potential Archaeological Deposit	No longer valid (excavated)	PAD excavated and no subsurface artefacts identified. PAD has been deregistered from AHIMS
Other	NA	50-5-2091	Outside Project area	Cultural site	Valid	Culturally modified tree registered by other parties following EIS submission. Located 100m east of construction zone, along rail corridor
	NA	50-5-0119	Outside Project area	Cultural site	Valid	Culturally modified tree registered by other parties following EIS submission. Located along Bethungra Road

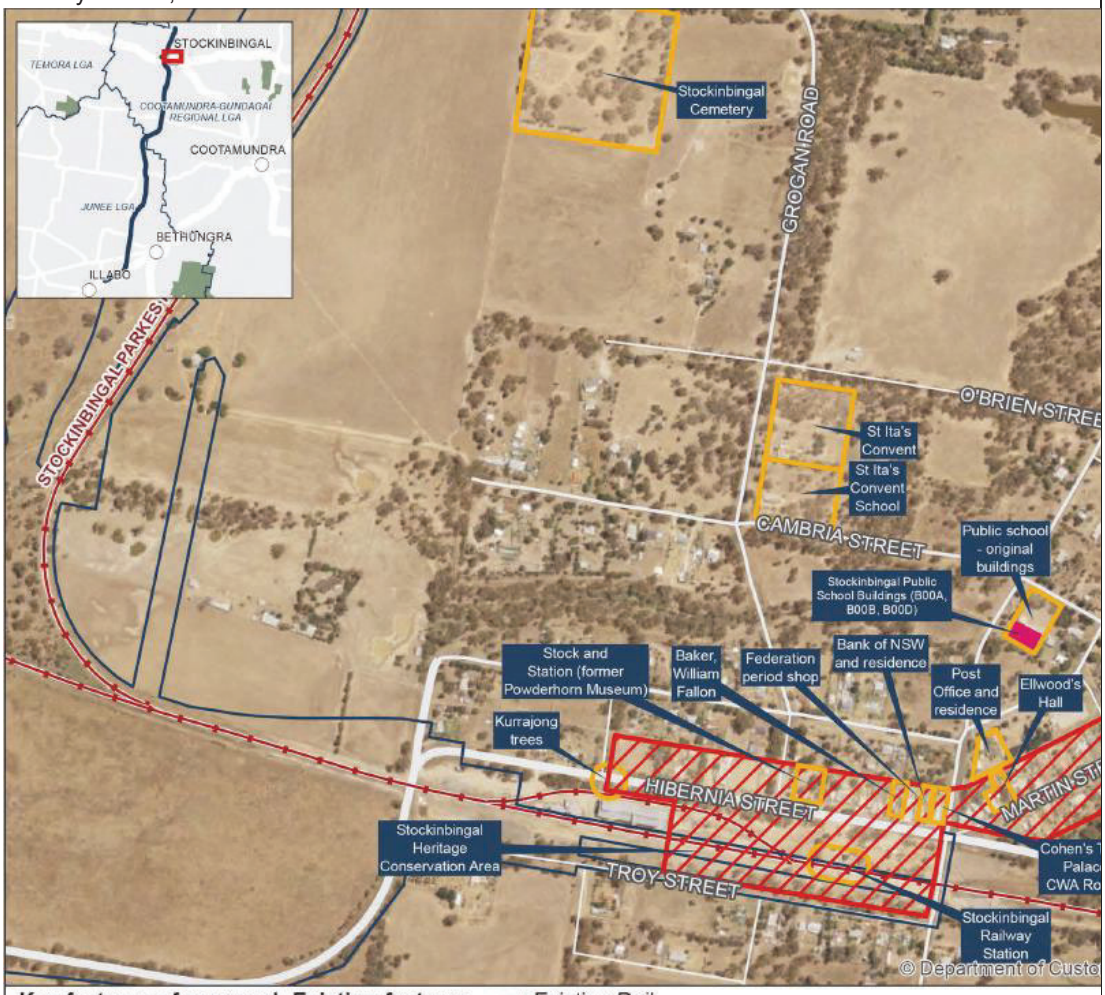
7.6 Non-Aboriginal heritage

A number of heritage-listed items are located within 2km of the Project, all of which are located within the township of Stockinbingal and are listed as having 'local' significance under the Cootamundra LEP. There are two heritage-listed items within the Project site, including the Stockinbingal Railway Station and Stockinbingal Heritage Conservation Area. There are no heritage conservation management plans within the Cootamundra LEP and Junee LEP for these heritage-listed items. Heritage-listed items within 2 km of the Project site are outlined in Table 7-2 and shown on Figure 7-1.All other locally listed heritage sites within Stockinbingal are at least 100 metres away from the project boundary.

Table 7-2 – Non-Aboriginal heritage items located within and in the vicinity of the Project

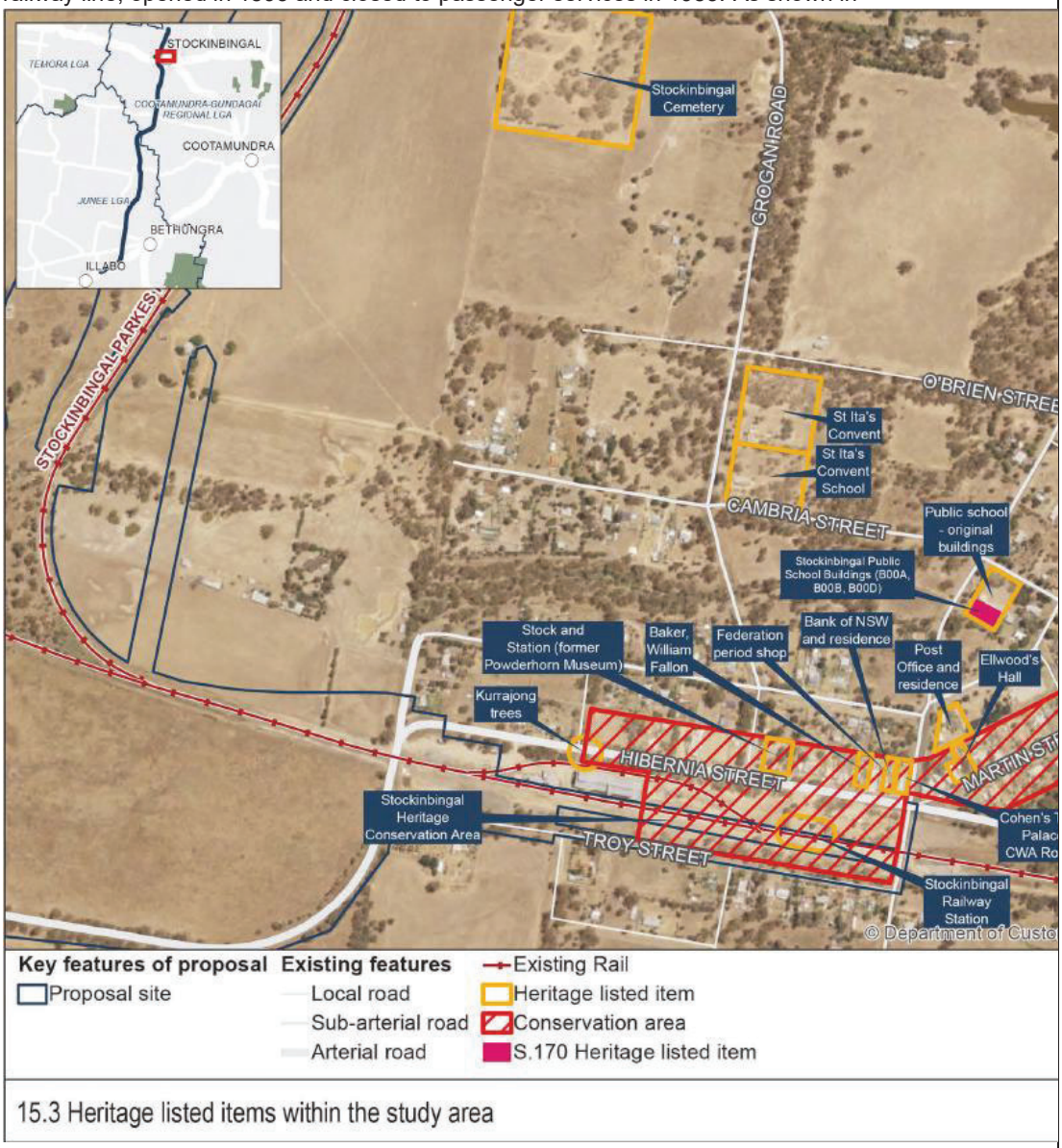
Item	Listing and Item Number	Located within the Project boundary, and if Yes, description of item
Stockinbingal Heritage Conservation Area	Cootamundra LEP (C3)	Yes. The Stockinbingal Heritage Conservation Area is a listed heritage item due to its well-preserved 19th and early 20th-century architecture, reflecting its development as a service centre for agriculture and the railway. The Stockinbingal Heritage Conservation Area is located around the Stockinbingal

Item	Listing and Item Number	Located within the Project boundary, and if Yes, description of item
		Railway Station, Hibernia Street and Martin Street as shown in



15.3 Heritage listed items within the study area

Figure 7-1 .

Item	Listing and Item Number	Located within the Project boundary, and if Yes, description of item
Stockinbingal Railway Station	Cootamundra LEP (i78)	Yes. Stockinbingal railway station is a heritage-listed railway station on the Stockinbingal–Parkes railway line, opened in 1893 and closed to passenger services in 1983. As shown in  15.3 Heritage listed items within the study area Figure 7-1, the Stockinbingal railway station is located within the Stockinbingal Heritage Conservation Area.
Baker, William Fallon	Cootamundra LEP (i75)	No – Within 500 m of the Project site
Bank of NSW and	Cootamundra	No – Within 500 m of the Project site

Item	Listing and Item Number	Located within the Project boundary, and if Yes, description of item
residence	LEP (i73)	
Cohen's Trade Palace, CWA Rooms	Cootamundra LEP (i71)	No – Within 500 m of the Project site
Ellwood's Hall	Cootamundra LEP (i82)	No – Within 500 m of the Project site
Federation period shop	Cootamundra LEP (i24)	No – Within 500 m of the Project site
Public school — original buildings	Cootamundra LEP (i65)	No – Within 500 m of the Project site
Soldiers' War Memorial Hospital	Cootamundra LEP (i83)	No – Greater than 1 km from the Project site
St. Ita's Convent	Cootamundra LEP (i68)	No – Greater than 1 km from the Project site
St. Ita's Convent School	Cootamundra LEP (i69)	No – Greater than 1 km from the Project site
Stock and station (former Powderhorn Museum)	Cootamundra LEP (i76)	No – Within 500 m of the Project site
Stockinbingal Cemetery	Cootamundra LEP (i70)	No – Greater than 1 km from the Project site

Item	Listing and Item Number	Located within the Project boundary, and if Yes, description of item
Courthouse	Cootamundra LEP (i80)	No – Greater than 1 km from the Project site
Stockinbingal Hotel (former)	Cootamundra LEP (i81)	No – Within 500 m of the Project site
Police residence	Cootamundra LEP (i79)	No – Greater than 1 km from the Project site
Post office and residence	Cootamundra LEP (i66)	No – Within 500 m of the Project site
Kurrajong trees	Cootamundra LEP (i77)	No – Within 500 m of the Project site
Stockinbingal Public School — Buildings B00A, B00B and B00D	NSW Department of Education S.170 listing (5064338)	No – Within 500 m of the Project site

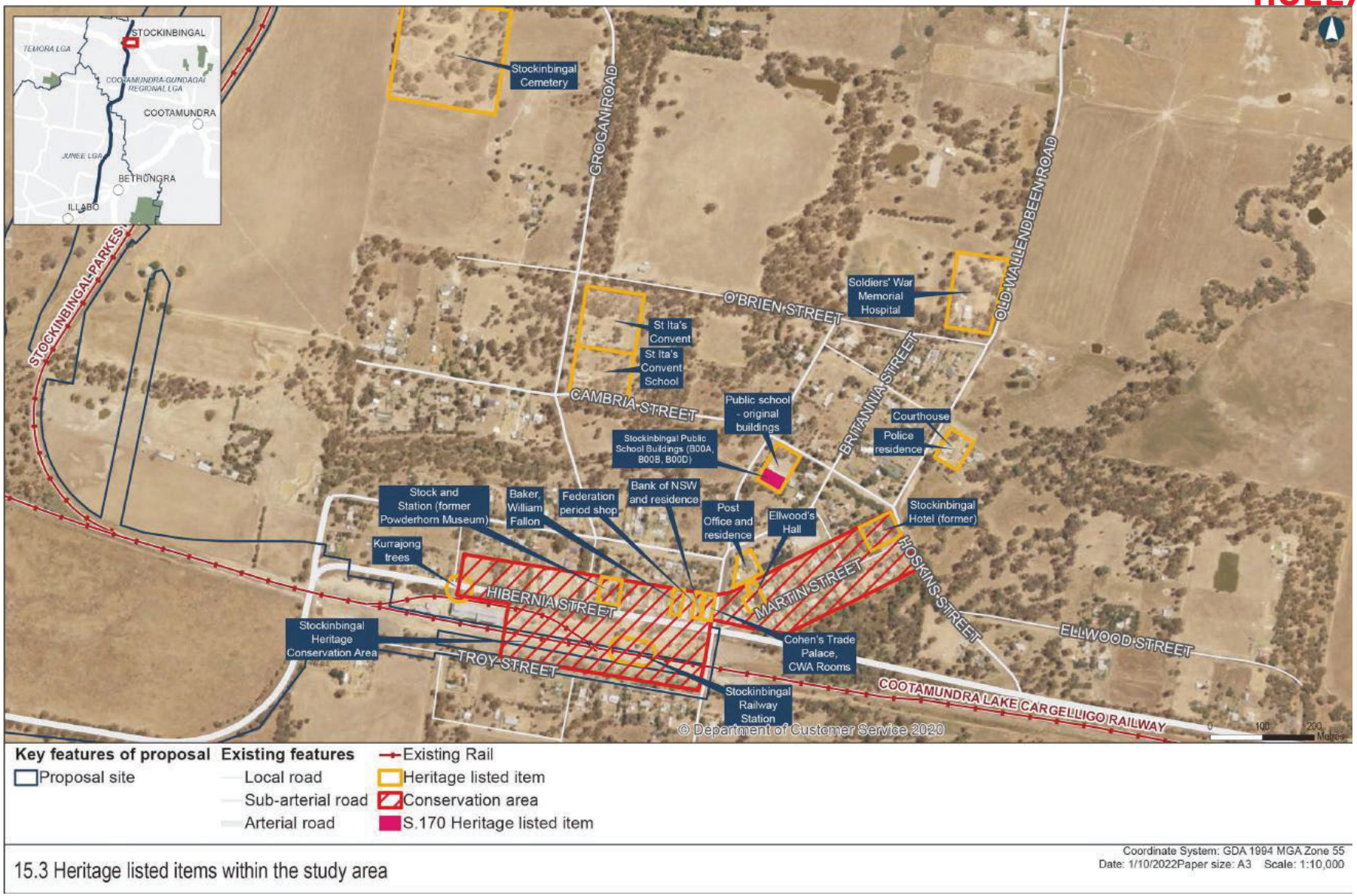


Figure 7-1 – Non-Aboriginal heritage items within and in the vicinity of the Project

7.6.1 Potential heritage items

A summary of potential non-Aboriginal heritage items identified within or immediately adjacent to the Project area listed below. Although they do not have formal heritage listing, they are considered to have potential heritage significance based on their inclusion in the Project EIS and discussed in the Heritage Chapter.

- **Billabong Creek rail underbridge (chainage 750)** – The rail line (including underbridges and associated rail infrastructure) has historical association with the expansion of the NSW rail network through the region, and its role in encouraging agricultural and pastoral development. The Billabong Creek rail underbridge, which is part of the NSW rail network, is constructed on brick piers with concrete abutments and the rail track is supported by steel girders. The date of construction of this bridge is unknown, however its general style and construction type indicates it may be of potential heritage significance.
- **Historic sawmill site (chainage 11,600-11,700)** – Anecdotal evidence was collected relating to a potential former saw mill site located between chainage 11,600 and 11,700. The sawmill was reported to date from the 1960s although the actual history of this site was unable to be confirmed. A site of this type is unlikely to have any historical archaeological potential however, the historical significance of the equipment is unknown.

Other items including culverts at railway crossing points, and a number of residential dwellings, farm buildings and infrastructure are located within the Project however they are not considered to have potential heritage significance.

8 Environmental Aspects and Impacts

8.1 Construction Activities

Construction will include activities that could result in direct impacts from the disturbance of part, or all of, a heritage item or place, and/or changes to its setting. Direct impacts may include:

- intentional impact to a heritage item that could not feasibly be avoided
- potential for vibration impacts close the Project site as a result of construction works and the movement of plant, vehicles and machinery
- accidental damage as a result of the movement of machinery and equipment
- unintentional impacts to a heritage item caused by not being aware of the heritage item (an unexpected find).

Where direct impacts do not occur, the construction activities may still result in indirect impacts to surrounding items, including:

- altered historical arrangements and access due to changes in traffic movements
- impacts to the visual amenity, landscape and vistas due to temporary hoarding and permanent design
- impacts to the curtilage of an item.

A summary of the potential direct and indirect impacts to Aboriginal and non-Aboriginal heritage from construction of the Project is provided in the following sections.

8.2 Aboriginal heritage

Of the 22 Aboriginal sites located within or immediately adjacent to the Project, 7 would be directly impacted, and 4 indirectly impacted as a result of the Project. There would be no impact to the remaining 11 sites. Table 8-1 summarises the impacts to Aboriginal sites including scientific significance, type of harm and degree of harm.

It's noted that additional archaeological survey and test excavations are required in Zones 5, 6, 9 and 10 to identify PAD. See Section 9.4 for further details.

Based on the recommendations and findings made by GML in the ACHAR prepared as part of the EIS, no further archaeological investigation of PAD Zones 4, 7, 11 and 11 East is required for the Project, as archaeological test excavation undertaken during the EIS confirmed that they had low potential for Aboriginal objects or were significantly disturbed by recent land use. As the Project progresses, further information and understanding of aboriginal sites and artefacts that may be encountered through unexpected finds or the remaining testing and salvage programs will be captured in this Plan in line with Section 11.2.

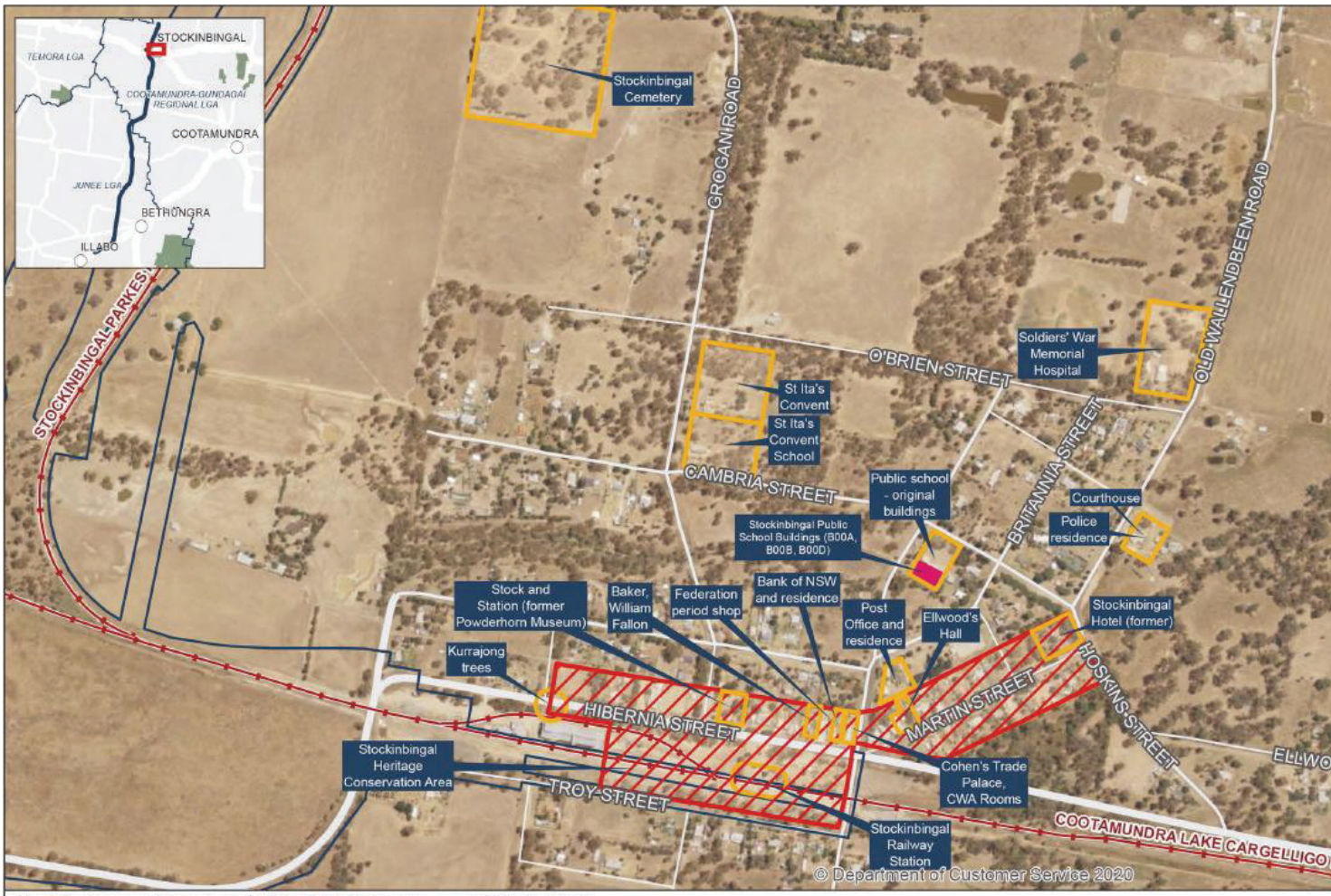
Table 8-1 – Impacts to Aboriginal sites (current as per existing information as of June 2025)

Zone	Site ID	AHIMS ID	Scientific significance	Type of harm	Degree of harm	Comments
Zone 1	Artefact sites ARTC1 and ARTC4	50-5-0266, 50-5-0276	Low	Nil	Nil	Located inside the Project area but outside the construction zone
	Artefact site ARTC2	50-5-0267	Low	Nil	Nil	Located inside the Project area and partially inside the construction zone (one of two artefacts)
	Artefact sites ARTC3	50-5-0274	Low	Nil	Nil	Located outside the Project
	Artefact site ARTC5	50-5-0275	Moderate	Nil	Nil	No longer valid. Artefact collected during test excavation
	Site Zone 1—high density scatter	50-5-0293	Moderate	Direct	Partial—less than 20%	Original PAD (50-5-0280) no longer valid, replaced by artefact site (50-5-0293) The southern edge of two of the three high-density areas in Zone 1 will be impacted by the construction zone
	Site Zone 1—low density scatter	50-5-0293	Low	Direct	Partial—75%	Original PAD (50-5-0280) no longer valid, replaced by artefact site (50-5-0293) The two lower-density areas in Zone 1 will be substantially impacted by the construction zone
	Ring tree	-	-	Nil	Nil	Located outside the Project
Zone 2	Scarred tree ARTC 6	50-5-0277	High	Indirect	Nil	Located outside the Project
	Site Zone 2—high density scatter	50-5-0294	Low	Direct	Total	Original PAD (50-5-0278) no longer valid, replaced by artefact site (50-5-0294) The two higher-density areas of in Zone 2 will be completely impacted by the construction zone
	Site Zone 2—low density scatter	50-5-0294	Low to moderate	Direct	Total	Original PAD (50-5-0278) no longer valid, replaced by artefact site (50-5-0294) The one low-density area of in Zone 2 will be completely impacted by the construction zone
Zone 3	Scarred trees	50-5-0117, 50-5-0120, 50-5-0121	Nil	Nil	Nil	Determined not to be culturally modified trees. Deregistered from AHIMS
	Scarred tree ARTC18	50-5-0287	High	Indirect	Nil	Located inside the Project area
	Scarred tree ARTC20	50-5-0297	High	Indirect	Nil	Located inside the Project area
Zone 4	Artefact site ARTC7	50-5-0285	Low	Nil	Nil	Located outside the Project
	ARTC8	50-5-0284	Low	Nil	Nil	Located outside the Project
	ARTC9	50-5-0283	Low	Nil	Nil	Located outside the Project

Zone	Site ID	AHIMS ID	Scientific significance	Type of harm	Degree of harm	Comments
Zone 5	PAD Zone 5	-	Unknown	Direct	Total	Located inside the Project area. The significance of this PAD is predicted to be moderate to high, adopting a precautionary approach. Additional archaeological test excavation required to confirm
Zone 6	PAD Zone 6	-	Unknown	Direct	Total	
Zone 7	Artefact sites ARTC12 and ARTC16	50-5-0268, 50-5-0272	Low	Direct	Total	Located inside the Project area and construction zone Isolated artefacts could not be found again during the testing program
	Artefact sites ARTC13–15	50-5-0269, 50-5-0270, 50-5-0271	Low	Nil	Nil	Located outside the Project
	Artefact site ARTC17	50-5-0273	Low	Direct	Total	Located inside the Project area and construction zone
Zone 8	Outside the Project					
Zone 9	-	-	Unknown	Unknown	Unknown	Additional archaeological survey and test excavation required to confirm archaeological potential
Zone 10	-	-	Unknown	Unknown	Unknown	
Zone 11	Outside the Project					
Zone 11 East	Artefact sites ARTC10	50-2-0054	Low	Direct	Total	Located inside the Project area and construction zone Isolated artefacts could not be found again during testing program
	Artefact site ARTC11	50-2-0055	Low	Nil	Nil	Located inside the Project area but outside the construction zone
	Scarred tree ARTC19	50-5-0058	High	Indirect	Nil	Located outside the Project

8.3 Non-Aboriginal heritage

As detailed in Section 7.6 and



15.3 Heritage listed items within the study area

Figure 7-1 two non-Aboriginal heritage listed items have been identified within the Project site—the Stockinbingal Railway Station and Stockinbingal Heritage Conservation Area (heritage conservation area), which are listed with 'local' significance under the Cootamundra LEP (refer to section 15.3.3 of the I2S EIS Chapter 15 Cultural Heritage).

While the Project site incorporates these items, construction activity at these locations would be minimal and no impact would occur to non-Aboriginal heritage listed items. The upgrade of the level crossing at Dudauman Street, while directly adjacent to the heritage conservation area, would have minimal impact on the significance of the heritage conservation area. Other than this, physical activities within the Project site would be located approximately 44 m away from these heritage items at the closest point and the nearest activities would be limited to minimal construction activity (temporary access and minor storage of plant and equipment).

In terms of vibrational impacts, the non-Aboriginal heritage receivers—Cohen's Trade Palace (CWA Rooms) (Cootamundra LEP (i71)) and the Stockinbingal Railway Station (Cootamundra LEP (i78))—located within

Stockinbingal have been identified as having works potentially occur within minimum working distances. However, based on a review of the offset distance between the Project site and these receivers, the size or power of the vibration-generating equipment can be controlled to minimise impacts. There are no permanent works proposed within or adjacent to any listed heritage item at Stockinbingal other than the upgrade of the Dudauman Street level crossing. Elements surrounding heritage items, such as mature vegetation along Hibernia Street and existing buildings screen views from these locations to the Project. In addition, the distance between the heritage items and major elements of the Project, namely the realigned Burley Griffin Way, removes views to and from the heritage items, and no visual impacts have been identified.

One item of potential heritage significance has been identified adjacent to the Project site, comprising the Billabong Creek rail underbridge (Section 7.6.1). No direct impacts to this bridge are required for construction of the Project. Further, the rail bridge is operational and would not be considered to be vibration sensitive. A minor visual impact would occur from the construction of an adjacent rail bridge as part of the Project; however, the addition of another rail bridge is consistent with the context of the significance of rail and historical association with the area and would not be considered to result in a significant impact to its heritage potential.

As detailed in Section 7.6.1, there is a potential historic sawmill site located between chainage 11,600 and 11,700. The existence, location and any archaeological potential is currently unknown therefore there is potential for impact to the sawmill site if not appropriately managed. Further assessment of the potential site is detailed in Section 9.8.

No other items of built heritage are present that would be impacted by the Project, and no areas of archaeological potential have been identified within the Project site. In accordance with RMM NAH-4, management measures would be implemented in the event of the unexpected discovery of archaeological items during construction. Refer to Section 9.5 for further details on the Unexpected and Incidental Finds Protocol.

With the implementation of mitigation measures detailed in Section 9, impacts to non-Aboriginal heritage would be minimised for construction of the Project.

8.4 Cumulative Impacts

Cumulative harm relates to the impact the proposed activity will have on the entire representative archaeological resource of Australia through the accumulation of multiple impacts over a period of time. The consideration of cumulative harm is a recent development. Prior to the implementation of heritage legislation in NSW in the 1970s and more broadly across the Commonwealth in the 1980s and 1990s, an unknown quantity of Aboriginal heritage sites, places, and cultural areas were lost through agriculture, infrastructure construction, and other development. The potential for cumulative impacts between the Project area and other adjacent Inland Rail sections is considered in Table 8-2. These sections include the Stockinbingal to Parkes (S2P) and Albury to Illabo (A2I) portions.

Table 8-2 – Impacts to Aboriginal Cultural Heritage Sites by Other Inland Rail projects

Project	Cumulative Impact
Albury to Illabo (A2I)	A review of the EIS for the A2I project indicates that there will be impacts to several heritage structures including bridges, railway stations including, but not limited to Cassidy Parade pedestrian bridge (unregistered), Edmondson Street bridge (unregistered), Kemp Street Bridge (unregistered), Murray River Bridge (SHR 01020), Albury Railway Station and Yard Group (SHR 01073), Culcairn Railway Station and Yard Group (SHR 01126), and Junee Railway Station, Yard and Locomotive Depot Group (SHR 01173). For further details, refer to Chapter 11 of the A2I EIS. Cultural heritage impacts are considered to be minimal for the A2I project which has been subject to substantial ground disturbance. For further details, refer to Chapter 10 of the A2I EIS.

Project	Cumulative Impact
Stockinbingal to Parkes (S2P)	A review of the Review of Environmental Factors for two parts of the S2P project (Lachlan River Bridge, and Horizontal Clearances) indicates that there may be impacts to the Lachlan River Bridge (Forbes LEP Item I123), and minor impacts to the Forbes Station Railway Group (SHR 01145) and Milvale Railway Water Tanks (Forbes LEP Item I41). No cultural heritage impacts are anticipated for the S2P project.

Five other major developments with the potential to increase cumulative impact with the Project area have been identified. These developments are described in Table 8-2.

Table 8-3 – Other Major Developments in Proximity to the Proposal

Project	Distance from the Project Site	Project Details	Status and Indicative Timing	Potential Cumulative Impacts
Illabo Solar Farm	4km south	Development of an 80MW solar farm with energy storage and associated infrastructure	The project is currently on hold (and, as such, does not formally require consideration). The construction phase of the proposal would take between 12 and 24 months; however, no construction start date has been provided.	A 2018 preliminary desktop Aboriginal heritage assessment did not identify any previously recorded sites within the proposal area. No site assessment or consultation with the Aboriginal community was undertaken as part of this.
Cootamundra Solar Farm	15km east	Development of a 5MW solar farm with a Battery Energy Storage Facility and associated infrastructure	Completed in January 2024 however additional upgrades proposed in 2025.	A 2022 Aboriginal Archaeological Impact Assessment concluded that the proposal would not harm significant Aboriginal cultural heritage values.
Humelink	60km southeast	Development of a new 500kV transmission line which will connect Wagga Wagga, Bannaby and Maragle.	Project approval was received in November 2024 with enabling works being undertaken in early 2025 and construction between late 2025 and 2027.	The impact of this project on Aboriginal cultural heritage will be assessed as the project progresses. A 2021 preliminary heritage assessment found 291 recorded AHIMS sites in the study area, and that the project could have a potential impact on Aboriginal cultural heritage.
Grade separating road interfaces	1.5km southwest	Transport for NSW is currently in the early planning	Subject to planning approval, the construction phase of	Potential impacts on Aboriginal cultural heritage have not

Project	Distance from the Project Site	Project Details	Status and Indicative Timing	Potential Cumulative Impacts
		stages to grade separate road and rail interfaces at four locations where Inland Rail crosses the NSW road network. The nearest grade separation proposal is the Olympic Highway at Harris Gates proposal, located north of Illabo.	the project is anticipated to commence in early 2025 and be completed in early 2027.	been assessed at this stage and cannot be determined yet.
Inland Rail- Albury to Illabo	Bordering the southern boundary of the I2S Project.	Inland Rail are undertaking enhancements to the existing rail corridor between Albury and Illabo to accommodate double stacked trains.	The Project has been approved with construction commencing in March 2025.	Within the Junee to Illabo section, there is one isolated artefact (A2I-2) located within 5 m of a construction compound. Inadvertent direct impacts (e.g. unintentional or accidental disturbance) would be managed by avoiding the immediate location of this artefact through exclusion. No further impacts are expected.

9 Environmental Mitigation and Management Measures

9.1 Reducing Impacts through Design

JH will reduce impacts to Aboriginal and non-Aboriginal heritage by implementing the below where reasonable and feasible.

- Designing the disturbance footprint of the Project outside the curtilage of heritage items.
- Construction methodologies required to build structures will also take into consideration during design, particularly with regards to vibration generating methodologies i.e. piling.
- Where any structures are located in the vicinity of a heritage item, urban design elements should be considered to ensure it does not impact on the visual amenity of that heritage item.

9.2 Protection of Aboriginal sites

Ground disturbing geotechnical activities (i.e. bore holes, test pits, auger holes, pot holing, slot trenching and pavement cores) will initially only occur outside the Zones of Aboriginal Sensitivity identified by the EIS. Geotechnical ground disturbing activities within Zones 5, 6, 9 and 10, will only occur following the completion of archaeological survey and the identification of areas that require further archaeological test excavation undertaken in accordance with the methodology prepared under CoA E135.

Similarly, construction activities will initially only occur outside Zones of Aboriginal Sensitivity identified by the EIS. Construction activities may commence in Zones 3, 4, 8 and 11 once the survey and test excavation program is complete. Construction activities in areas that require further test excavation and/or salvage excavation in Zones 1, 2, 5, 6, 7, 9 and 10 would only take place following the completion of the salvage excavation program.

Where these works are occurring prior to Construction (i.e. approval of the CEMP), they will be undertaken as Low Impact Works as defined in Table 1 of the Infrastructure Approval (SSI-9406) and in accordance with CoA A17. Low Impact Works will require assessment by JHG and the LIW assessments will be revised and endorsed by IRPL and the ER prior to commencement.

The following mitigation measure sourced from CoA E127 – 129 and E134 and the UMMs will be implemented to ensure these areas are not impacted by geotechnical or construction activities. Also refer to Section 9.8 for additional general mitigation measures in relation to the protection of Aboriginal sites.

- JHG must not destroy, modify or otherwise physically affect any heritage items, including Aboriginal objects or Aboriginal places, outside of the CSSI construction boundary (CoA E127).
- JHG must not wilfully harm, modify, or otherwise impact human remains uncovered during the construction of the CSSI. Where identified, remains must be managed through the Unexpected and Incidental Finds Protocol (CoA E128), which includes unexpected heritage and humans remains finds. Refer to Section 9.5 and Appendix B for further details.
- Identified impacts to heritage items must be minimised through both design and construction (CoA E129 and RMM AH-1).
- Aboriginal cultural heritage sites and objects, including culturally modified trees within the Project site are to be protected in accordance with ARTC's standard operational environmental management procedures (CoA E134). Culturally modified trees are to be given a 50m buffer where possible and surrounded by high visibility fencing. In accordance with RMM AH-7, this applies to scarred trees ARTC6, ARTC18, ARTC19. The sites will also be clearly marked on Sensitive Area Maps, Site Environment Plans and other relevant mapping and plans used by contractors working on the project. Scarred tree ARTC20 which is located within the Project site, should be marked on all mapping and plans used by contractors working on the project and should be fenced with high visibility fencing to avoid accidental impact during

construction works. Potential excavation near the tree should include consideration of a tree protection zone, defined in consultation with an arborist.

- In accordance with RMM AH-8, clearing extents/site boundary/limit of works will be consistent with project extents defined in the Infrastructure Approval (9406) and would be clearly defined with flagging or marking tape, signage or other suitable means to delineate no-go areas. Also refer to the Biodiversity Management Sub-Plan for further details of clearing procedures.

In addition to the above, the following good practice measures will be implemented to protect Aboriginal sites.

- Zones of Aboriginal sensitivity (no-ground disturbance zones) will be identified on the ground with a 25m buffer.
- Bollards will be placed to temporarily delineate the Zones of Aboriginal Sensitivity / No-Ground Disturbance Zones.
- All site personnel will be inducted to the Project before the commencement of geotechnical activities. This induction will include a visual depiction of the no-ground disturbance zones and their restrictions.
- On-site personnel will be regularly briefed on the exact locations of the no-ground disturbance zones.
- Hard-copies of maps showing the no-ground disturbance zones will be placed in site vehicles and provided to all JH site personnel via email.
- Site personnel will be provided access to geospatial data which show the no-ground disturbance zones (including the 25m buffer).

9.3 Aboriginal Cultural Values Plan

The Aboriginal Cultural Values Plan (ACVP) will be prepared in accordance with CoA E133. This specialist assessment will involve the engagement of First Nations cultural knowledge holders and stakeholders and consider available ethnohistorical records (documentary and oral). The approach for this assessment will follow Heritage NSW guidelines and best practice, drawing on the Government Architect's Connection to Country Framework to develop culturally responsive inputs to elements including infrastructure built form, naming and landscaping.

The plan outlines how interpretive themes and cultural values will be implemented, with a specified timeframe for their integration during construction. It recognises the spiritual, intangible, linguistic, and cultural significance of the sites to Aboriginal people, reflecting their perspective on the landscape through Aboriginal design elements, motifs, and visual interpretations. The ACVP is developed in collaboration with the Aboriginal community and stakeholders, in alignment with the Aboriginal Community and Stakeholder Engagement Strategy. The plan is to be submitted for approval to the Planning Secretary one month prior to the commencement of construction and will be fully implemented throughout the Project.

9.4 Additional Works Required

This section details the additional works required in relation to Aboriginal heritage Project requirements. Table 9-1 summarises which of these works are required for each zone, however it's noted that the purpose of this table is to provide an indicative summary and may be subject to change which would not require revision of this HMSP.

Table 9-1 – Summary of additional works for each zone

Zone No.	Activities remaining	Indicative Timing for activity completion	Commencement of construction	Relevant CoAs
Zone 1	• Salvage of artefacts associated with Site Zone 1	Quarter 4, 2025	Once salvage methodology has been reviewed by RAPs	E136 + E140

Zone No.	Activities remaining	Indicative Timing for activity completion	Commencement of construction	Relevant CoAs
	and Zone 1 – High density scatter (50-5-0280). • Surface collection of ARTC 4 (50-5-0276)		and archaeological salvage excavation and surface collection is complete in accordance with CoA E136.	
Zone 2	• Salvage of artefacts associated with site Zone 2 (50-5-0287). • Protection of scarred tree ARTC6 (50-5-0277) in accordance with E134	Quarter 4, 2025	Once salvage methodology has been reviewed by RAPs and archaeological salvage excavation is complete in accordance with CoA E136.	E136, E140 + E134
Zone 3	• Protection of scarred trees ARTC18 (50-5-0286) and ARTC20 (50-5-0297) in accordance with E127	Quarter 2, 2025	Following confirmation of protection measures for ARTC 18 and ARTC20	E127
Zone 4	• No further archaeological investigation required	NA	August 2025	
Zone 5	• Archaeological survey to determine areas that require archaeological test excavation. • Salvage excavation, subject to the results of archaeological test excavation • Scarred tree inspection.	Quarter 2, 2025 Quarter 4, 2025	Once survey and test excavation has been completed in accordance with E135. If salvage excavation is required, once the salvage excavation has been completed in accordance with E136..	E135, E136
Zone 6	• Archaeological survey to determine areas that require archaeological test excavation. • Salvage excavation, subject to the results of archaeological test excavation • Scarred tree inspection.	Quarter 2, 2025 Quarter 4, 2025	Once survey and test excavation has been completed in accordance with E135. If salvage excavation is required, once the salvage excavation has been completed in accordance with E136.	E135, E136
Zone 7	• Collection of isolated stone artefacts not re-located by GML (ARTC10, 11, 12 & ARTC16). • This is to be conducted as part of survey and test excavations. • AHIMS record update required on completion of surface collection.	Quarter 2, 2025	Once surface artefacts have been collected in accordance with E140 and the AHIMS site cards have been updated in accordance with E141.	E140 and E141
Zone 8	• No further archaeological investigation required	NA	August 2025	
Zone 9	• Archaeological survey to determine areas that require archaeological test excavation.	Quarter 2, 2025 Quarter 4, 2025	Once survey and test excavation has been completed in accordance with E135. If salvage	E135, E136

Zone No.	Activities remaining	Indicative Timing for activity completion	Commencement of construction	Relevant CoAs
	• Salvage excavation, subject to the results of archaeological test excavation • Scarred tree inspection.		excavation is required, once the salvage excavation has been completed in accordance with E136	
Zone 10	• Archaeological survey to determine areas that require archaeological test excavation. • Salvage excavation, subject to the results of archaeological test excavation • Scarred tree inspection.	Quarter 2, 2025 Quarter 4, 2025	Once survey and test excavation has been completed in accordance with E135. If salvage excavation is required, once the salvage excavation has been completed in accordance with E136	E135, E136
Zone 11 East	• Collection of isolated stone artefact ARTC10 (50-2-0054). • Protection of Scarred Tree ARTC19 (50-5-0058) • AHIMS record update required.	NA	Once surface artefacts have been collected in accordance with E140 and the AHIMS site cards have been updated in accordance with E141.	E140 and E141
Zone 11	• No further archaeological investigation required	NA	August 2025	
Land not within a Indigenous Survey Zone	• No further archaeological investigation required • Prepare HMP in consultation with RAPs	HMP to be approved by DPHI one month prior to construction commencing	August 2025	

9.4.1 Archaeological Survey and Test Excavation

Zones 5, 6, 9 and 10 were not accessible during preparation of the EIS and will be subject to archaeological survey and test excavation to identify Aboriginal sites and PAD, prior to the ground disturbance works in those zones. The methodology for survey and test excavation will follow the DECCW (now Heritage NSW) *Code of practice for archaeological investigation of Aboriginal objects in NSW* (DECCW, 2010) and will also be subject to consultation with Heritage NSW and the RAPs in accordance with CoA E135. A copy of the approved survey and test excavation is included as Appendix D.

The timing of these activities is determined by consultation requirements and CoA E138, which requires a methodology to be submitted to DPHI 1 month prior to test or salvage excavations within those zones. The results of archaeological test excavation will inform the Aboriginal archaeological salvage methodology (Section 9.4.2), which will be subject to RAP review and submitted to DPHI in accordance with the CoA.

Also refer to the indicative consultation timeframe in relation to archaeological survey, test excavations and associated methodologies in Section 4.2.5.

9.4.2 Salvage Measures

A detailed archaeological salvage methodology will be prepared by a qualified archaeologist in consultation with RAPS in accordance with CoA E136 and E138 and once approved by the RAPs and Heritage NSW, will be attached to this HMSP. This methodology will be informed by the test excavation results from Zones 5, 6, 9 and 10 and will include salvage excavation of PAD identified within Zones 1 and 2. Artefacts recovered from this process will be managed in accordance with the NPW Act, including those recovered from PADs within Zones 1 and 2, and possibly Zones 5, 6, 9 and 10.

The methodology will outline the consultation process with Heritage NSW and RAPs, following relevant guidelines, and will address the management and care of salvaged objects. RAPs will assist in the salvage, managed by an appropriately qualified archaeologist. Detailed analysis and reporting of cultural material collected would be provided to DPHI.

Following completion of the archaeological salvage and issuing of heritage clearance, ground disturbing works can commence in those zones.

Also refer to the indicative consultation timeframe in relation to archaeological salvage and associated methodologies in Section 4.2.5.

9.4.3 Surface Artefact Collection

Surface artefact collection is required in Zones 5, 6 and 9 and 10, as these zones were not accessible to GML Heritage and in Zone 7, where the isolated stone artefacts were not re-located. No surface collection is required in Zones 1, 2, 3 ,4, 8 and 11, as those artefacts have already been collected by GML during the EIS or there were no surface artefacts identified.

Where surface collection of artefacts is required or further identified in Zones 5,6,9 and 10, all collection will be undertaken at the same time as the salvage excavation program (currently only required in Zone 1 and 2), This activity will be included in the salvage excavation methodology described above and will be conducted in these zones prior to construction activities to ensure that salvage for all artefacts is undertaken in a consistent manner.

9.4.4 Inspection of Scarred Trees

Inspection of scarred trees in Zones 5, 6, 9 and 10 will take place as part of the archaeological survey. This survey will be conducted by heritage specialists and will involve RAP representatives. Trees with evidence of cultural scarring will be identified and mapped to ensure protection during construction activities under the guidance of a qualified heritage specialist in consultation with the RAPs. All scarred trees identified in these zones and Scar tree ARTC18 in Zone 3 will be fenced during construction.

In accordance with RMM-AH-9, investigation of the anthropogenic nature of scarred trees within the Project area will be undertaken by a specialist in Aboriginal cultural heritage.

9.4.5 AHIMS Records

In accordance with RMM AH-12, several updates to AHIMS records have been made for sites that are no longer considered to be sites, as determined in the EIS. These sites are listed below.

- Zone 1—low density scatter (AHIMS 50-5-0280) (part)
- Zone 3 – Scarred Tree 50-5-0117 (AHIMS 50-5-0117)
- Zone 3 – Scarred Tree 50-5-0120 (AHIMS 50-5-0120)
- Zone 3 – Scarred Tree 50-5-0121 (AHIMS 50-5-0121)
- Zone 7 – PAD Zone 7 North (AHIMS 50-5-0281)
- Zone 7 –PAD Zone 7 South (AHIMS 50-5-0288)Zone 8 –PAD Zone 8 (AHIMS 50-5-0282)

- Zone 11 –PAD Zone 11 (AHIMS 50-2-0056)
- Zone 11 –PAD Zone 11 East (AHIMS 50-2-0057).

Where Aboriginal sites are identified during additional surface collection, test excavation, salvage excavations and any unexpected finds, Aboriginal Site Impact Recording Forms (ASIRF) must be submitted to the AHIMS and evidence provided of submission to the AHIMS Registrar in accordance with CoA E141.

Further, in line with AH-5, the pre-construction survey would also be undertaken to update the AHIMS record and/or confirm the locations of the AHIMS sites which could not be located during the site survey undertaken as part of the EIS. Surveys would be undertaken with RAPs in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*. If the sites are located, impacts would be avoided, as far as practicable, and protection measures put in place in accordance with RMM AH-9. Any sites with the potential to be impacted would be managed in accordance with the salvage methodology (RMM AH-2). These sites that are identified as cultural sites in the EIS that would require location and protection where possible prior to construction are listed below.

- Zone 7 – Artefact Sites ARTC , , 12 and 16 (AHIMS , 50-5-0268, 50-5-0272)
- Zone 11 – Artefact Sites ARTC10 and 11 (AHIMS 50-2-0054. 50-2-0055).

9.5 Unexpected and Incidental Finds Protocol

In accordance with CoA A17, the Projects Unexpected and Incidental Finds Protocol (Appendix B) would be used for any unexpected Aboriginal, non-Aboriginal heritage and human skeletal finds discovered during the Project.

9.6 Management of Salvaged Aboriginal Objects

The management and repatriation of salvaged Aboriginal objects will be subject to agreement by the RAPs and included in the salvage excavation methodology detailed in Section 9.4.2. The following standard procedure for the management of salvaged Aboriginal objects will be followed:

- Artefacts recovered during the test excavation program will be temporarily stored in a secure location at the heritage consultant's office, to allow for initial artefact cataloguing and analysis;
- During the archaeological test excavation program, the long-term storage of artefacts will be discussed with the RAPs and an agreement will be reached on a desired keeping place. Various options will be discussed with the RAPs including a secure keeping place on Country or a suitable reburial site;
- Once an agreement by the RAPs is reached, the management and repatriation of salvaged Aboriginal objects will be documented in the salvage excavation methodology. This methodology will be issued to RAPs, Heritage NSW and submitted to DPHI in accordance with the CoA E138; and
- On completion of the salvage excavation program, salvaged Aboriginal objects recovered during the archaeological investigation will be stored in the agreed location. This location will be documented in the Aboriginal Excavation Report which will be supplied to DPHI in accordance with CoA E139.

This procedure is detailed further below.

9.6.1 Temporary Storage of Salvaged Objects

During the analysis of any Aboriginal artefacts, it is proposed that the salvaged materials will be temporarily stored at the offices of the archaeological consultant undertaking the works.

9.6.2 Long-term Care of Salvaged Objects

The long-term management of any salvaged artefacts will be subject to consultation with the RAPs.

9.6.2.1 Care Agreement Not Required - Reburial of Objects

The requirements for reburial will be discussed with RAPs as part of the archaeological program. Depending on the results of this consultation, the chosen reburial site will be documented in the Aboriginal Excavation Report which will be supplied to DPHI in accordance with CoA E139.

9.7 Protection of Non-Aboriginal Heritage

As described in section 7.6, there are two heritage sites within the Project area (Stockinbingal Conservation Area and Stockinbingal Railway Station). Controls will be implemented around these sites while construction works are being undertaken. The implementation of mitigation measures described below in section 9.8 will adequately control risks when works are being undertaken in proximity (within 50 metres) of these sites. It is also anticipated that the implementation of these mitigation measures will ensure the risk of impacts to heritage sites outside of the Project area also remains low. This is also the case for sites listed in section 7.6.1 that are potential items that will be treated and maintained in the same manner as the items listed above.

9.8 Heritage Mitigation and Management Measures

In addition to the mitigation and management measures provided in previous sections, the following general mitigation and management measures associated with Aboriginal and non-Aboriginal heritage in Table 9-2 will be implemented throughout the Project. These have been sourced from the Infrastructure Approval, RMMs, relevant ARTC specifications and other relevant guidelines, documents and procedures.

Table 9-2 Heritage mitigation and management measures

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
General				
H1	All Personnel will undergo site inductions that will include the following specific components for heritage: • Aboriginal and non-Aboriginal heritage values in the Project area, and the importance of protecting and preserving these values; • Mitigation and control measures; • The requirements of this plan and any relevant legislative and contractual obligations; • Unexpected finds procedures in the event of an unanticipated discovery or accidental damage of a heritage item or place.	Prior to works	JH Environment Manager	Good practice JH EMS Appendix B
H2	Cultural heritage awareness training will be provided to relevant Project personnel. Cultural heritage awareness training will be provided by an Aboriginal representative at the commencement of substantial works for the Project.	Prior to construction	JH Environment Manager	RMM AH-10
H3	Non-Aboriginal historical heritage awareness training will be provided to relevant Project personnel prior to commencement of construction works. The awareness training will promote an understanding of heritage items that may be impacted during the works, and the requirements of the unexpected finds procedure. Non-Aboriginal awareness training is to include a flow chart of the procedure on the findings of skeletal remains.	Prior to construction	JH Environment Manager	RMM NAH-3 RMM NAH-4 Appendix B
H4	The location of heritage sites and heritage no-go zones must be identified in Sensitive Area Plans, Site Environmental Plans/Environmental Controls Maps and communicated and made available to relevant personnel.	At all times	JH Environment Manager	JH EMS Good practice
H5	Heritage management measures from this HMSP will be included in relevant Activity Method Statements (AMS), Environmental Work Method Statements (EWMS) and any other Project risk management documentation.	Prior to relevant works	JH Environment Manager JH Construction Manager	JH EMS Good practice
H6	Erosion and sediment controls will be design and implemented to minimise the potential for erosion impacts to Aboriginal sites located close to watercourses/drainage lines in accordance with the	At all times	JH Environment Manager	RMM AH-9

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
	Managing Urban Stormwater: Soils and construction – Volume 1 (Landcom, 2004). See the Soil and Water Management Sub-plan (SWMSP) for further details.		JH Site Supervisor	SWMSP
H7	Clearing extents/site boundary/limit of works will be consistent with Project extents defined in a condition of approval and would be clearly defined with flagging or marking tape, signage or other suitable means to delineate no-go areas. See the Flora and Fauna Management Sub-plan (FFMSP) for further details.	During construction	JH Environment Manager JH Site Supervisor	RMM AH-8
H8	Where previously unidentified Aboriginal, non-Aboriginal or human skeletal remains are discovered, all work must immediately cease in the vicinity of the affected area and the Unexpected and Incidental Finds Procedure must be implemented. See Appendix B for further details.	At all times	All personnel	RMM NAH-4 Appendix B
H9	JH will not wilfully harm, modify, or otherwise impact human remains uncovered during the construction of the CSSI. Where identified, remains must be managed through the Unexpected Heritage Finds and Human Remains Procedure required by Condition E143.	At all times	All personnel	CoA E128 Appendix B
H10	Construction work is to be carried out to comply with safe work distances for sensitive heritage structures as detailed in the Noise and Vibration Management Sub-plan (NVMSP). Where safe distances cannot be achieved, plant specifications and/or work methodologies are to be modified to not cause damage to sensitive heritage items. Vibration monitoring will be undertaken where vibration intensive activities are carried out within safe working distances to ensure relevant criteria is not exceeded. Further detailed are provided in the NVMSP.	At all times	JH Environment Manager JH Construction Manager	NVMSP
Aboriginal Heritage				
H11	Detailed design and construction planning will be undertaken to avoid direct impacts on identified items/sites of Aboriginal heritage significance as far as reasonably practicable. The location of construction compounds and associated access routes will be reviewed to ensure, as far as practicable, they are not located in areas of medium or high archaeological potential.	During design and construction	JH Environment Manager JH Construction Manager JH Design Manager	RMM AH-1 E134
H12	All reasonable steps must be taken so as not to harm, modify or otherwise impact Aboriginal objects, Aboriginal values or Aboriginal places except as authorised by the Infrastructure Approval.	At all times	JH Environment Manager JH Construction Manager	CoA E130

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
H13	JH will not destroy, modify or otherwise physically affect any heritage items, including Aboriginal objects or Aboriginal places, outside of the Project construction boundary.	At all times	JH Environment Manager JH Construction Manager	CoA E127
H14	As detailed in Section 9.2, for registered AHIMS sites and Aboriginal sites identified during archaeological surveys located in close proximity to, but outside of, the Project site, the extent of these sites will be demarcated with high visibility fencing as far as practicable to avoid accidental impact during construction impacts. This particularly applies to scarred trees ARTC6, ARTC18 and ARTC19. The sites will also be clearly marked on all mapping and plans used by contractors working on the Project. Scarred tree ARTC20 which is located within the Project site, should be marked on all mapping and plans used by contractors working on the Project and should be fenced with high visibility fencing to avoid accidental impact during construction works. Potential excavation near the tree should include consideration of a tree protection zone, defined in consultation with an arborist.	Prior to works During construction	JH Environment Manager JH Site Supervisor	RMM AH-7
H15	As identified by the RAPs, a 50 m buffer should be provided between the final alignment and the locations of all scarred trees.	At all times	JH Environment Manager JH Site Supervisor	EIS, Chapter 15, s15.4.1
H16	As detailed in Section 9.3, an Aboriginal cultural values plan will be prepared in consultation with Aboriginal parties prior to construction and implemented as part of the CEMP. The HMSP will be updated to reflect the results of the Aboriginal Cultural Heritage Management Plan (i.e. this HMSP) and identify: • the traditional Aboriginal use of the landscape in the area surrounding the Project • the archaeological and contemporaneous expression of that use • the intangible cultural values of the landscape • the cultural value of Aboriginal cultural heritage artefacts and scarred trees identified in the Project area • stories for interpretation drawn from the key thematic areas, identify audiences, locations and options to provide this interpretation • how the findings will be represented by the Project, for example in design finishes, art, landscaping and cultural food sources.	Prior to construction	JH Environment Manager MTS Heritage	RMM – AH3 CoA E133
H17	As detailed in Section 6.2.4, an Aboriginal Community and Stakeholder Engagement Strategy will be finalised prior to the commencement of construction and implemented, in consultation with Heritage NSW, relevant RAPs, and LALCs. The Strategy will detail and include, but not be limited	Prior to construction	JH Environment Manager	CoA E131, E132, E133

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
	to, the consultation process with Aboriginal stakeholders for the integration of Aboriginal Cultural Values into the CSSI.			
H18	An Unexpected and Incidental Finds Protocol (Appendix B) would be developed and included in the Aboriginal cultural heritage management plan to provide a consistent method for managing any unexpected Aboriginal heritage items discovered during construction, including potential heritage items or objects and a flow chart of the procedure on the findings of skeletal remains.	Prior to works	JH Environment Manager	RMM AH-11
H19	Where previously unidentified Aboriginal objects or Aboriginal Places are discovered, all work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects or places must not recommence until Heritage NSW has been informed. The measures to consider and manage this process must be specified in the Unexpected Heritage Finds and Human Remains Procedure required by Condition E143 and include registration in the AHIMS.	At all times	All personnel	CoA E142
H20	The RAPs must be kept regularly informed about the Project and nature of the works. The RAPs must continue to be provided with the opportunity to be consulted about the Aboriginal cultural heritage management requirements throughout the Project.	At all times	JH Environment Manager	CoA E131
H21	As detailed in Section 9.4, Additional Aboriginal Archaeological Survey Methodology and Aboriginal Test Excavation Methodology will be prepared prior to the commencement of ground disturbing works at Zones 5, 6, 9 and 10, to confirm the precise nature and extent of the archaeological resource and to inform the selection of the applicable mitigation measures. The methodologies for survey and test excavations must be provided to RAPs for their review and comment.	RAPs provided 28 days for review Prior to ground disturbance in Zones 5, 6, 9 and 10	JH Environment Manager MTS Heritage	RMM AH-3 CoA E135 CoA E138
H22	Additional mitigation and management measures will be developed, in consultation with the RAPs, for areas or items of Aboriginal cultural heritage significance identified during the Additional Aboriginal Archaeological Survey Methodology and Aboriginal Test Excavation Methodology (mitigation measure AH-3).	Prior to ground disturbance in Zones 5, 6, 9 and 10	JH Environment Manager MTS Heritage	RMM AH-4
H23	Following completion of the archaeological survey and test excavation, an Aboriginal Archaeological Salvage Excavation Methodology must be prepared and implemented for Zones 1, 2 and potentially 5, 6, 9 and 10 (pending outcome of the archaeological survey and test excavation). Following completion and issuing of a heritage clearance, ground disturbing works can be undertaken in those zones.	Prior to ground disturbance in Zones 1, 5, 6, 9 and 10	JH Environment Manager MTS Heritage	CoA E136
H24	The detailed salvage methodology would be prepared by a suitably qualified archaeologist in consultation with RAPs. The process of developing the methodology would be included in the Aboriginal cultural heritage management plan (i.e. this HMSP) to ensure any artefacts salvaged are managed in accordance with the requirements of the NPW Act. This includes artefacts within the areas of Zone 1 and Zone 2.	RAPs provided 28 days for review Prior to ground disturbance in	JH Environment Manager MTS Heritage	RMM AH-2

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
	The methodology would include the process for consultation with Heritage NSW and RAPs in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW*, the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*, and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*. It would also include requirements in relation to the management of, and care and control plans for, salvaged objects. RAPs would be engaged to assist in the salvage, which would be managed by an appropriately qualified archaeologist engaged to support the process. Detailed analysis and reporting of cultural material collected would be provided to DPHI.	Zones 5, 6, 9 and 10		
H25	The Additional Aboriginal Archaeological Survey Methodology, Aboriginal Archaeological Test Excavation Methodology and Aboriginal Archaeological Salvage Excavation Methodology must be prepared by a suitably qualified expert in consultation with Heritage NSW and RAPs and provided to the Planning Secretary for information at least one month prior to test or salvage excavation.	Prior to ground disturbance in Zones 5, 6, 9 and 10	JH Environment Manager MTS Heritage	CoA E136 CoA E138 CoA E140
H26	As detailed in Section 9.4, surface collection (salvage) of artefacts that were identified in Zones 1, 2, 7 and 11 would occur prior to construction in accordance with the approved salvage methodology.	Prior to ground disturbance in Zones 1, 2, 7 and 11	JH Environment Manager MTS Heritage	RMM AH-6
H27	At the completion of Aboriginal cultural heritage survey and test and salvage excavations, an Aboriginal Cultural Heritage Excavation Report(s) must be prepared by a suitably qualified expert. The Aboriginal Cultural Heritage Excavation Report(s), must: (a) be prepared in accordance with the *Guide to Investigation, assessing and reporting on Aboriginal cultural heritage in NSW, OEH 2011* and *the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales, DECCW 2010*; and (b) document the results of the archaeological survey and test excavations and any subsequent salvage excavations (with artefact analysis and identification of a final repository for finds). The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised.	RAPs provided 28 days for review Submission within 24 months of Aboriginal archaeological excavation completion	JH Environment Manager MTS Heritage	CoA E139
H28	The final Aboriginal Cultural Heritage Excavation Report(s) must be provided to the Planning Secretary, Heritage NSW, the relevant Councils, relevant LALCs and the RAPs within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).	Submission within 24 months of Aboriginal archaeological excavation completion	JH Environment Manager	CoA E139
H29	Ground disturbance works and construction work may not commence in those areas where archaeological excavation and surface collection of Aboriginal objects is required (including areas	Prior to ground disturbance	JH Environment Manager	CoA E140

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
	identified as requiring further assessment) until the archaeological works described in the Aboriginal Cultural Heritage Assessment reports listed in Condition A1 have been completed.		JH Construction Manager	
H30	As detailed in Section 9.4, a pre-construction survey would be undertaken to update the AHIMS record and/or confirm the locations of the previously listed AHIMS sites that could not be located during the site survey: • Artefact Sites ARTC12 and 16 (AHIMS 50-5-0268, 50-5-0272) • Artefact Sites ARTC10 and 11 (AHIMS 50-2-0054, 50-2-0055). Surveys would be undertaken with RAPs in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010a). If the sites are located, impacts would be avoided, as far as practicable, and protection measures (fencing, exclusion zones) put in place in accordance with Section 9.2. Any sites with the potential to be impacted would be managed in accordance with the salvage methodology (mitigation measure AH-2).	Prior to ground disturbance in those areas	JH Environment Manager MTS Heritage	RMM AH-5
H31	AHIMS records would be updated for AHIMS Register locations no longer considered to be sites as detailed in Section 9.4.5.	At completion of surface collection, test and salvage excavation	JH Environment Manager MTS Heritage	RMM AH-12
H32	At the completion of surface collection, test excavations, and salvage excavations, Aboriginal site impact recording forms (ASIRF) must be submitted to the AHIMS and evidence provided of submission to the AHIMS Registrar.	At completion of surface collection, test and salvage excavation	JH Environment Manager MTS Heritage	CoA E141
Non-Aboriginal Heritage				
H33	The existing fencing and signage around Stockinbingal Railway Station would be maintained to avoid impacts during construction.	At all times	JH Environment Manager JH Construction Manager	RMM NAH-5
H34	The Billabong Creek rail underbridge would be fenced and marked on site plans within the CEMP as an area to be avoided during construction.	Prior to works	JH Environment Manager	RMM NAH-5
H35	Detailed design and construction planning would avoid direct impacts on identified items/sites of non-Aboriginal heritage significance as far as reasonably practicable. This would include the following listed items within the construction footprint: • Stockinbingal Railway Station	During design	JH Design Manager JH Environment Manager	RMM NAH-1

Ref	Measure / Requirement	Timing / Frequency	Responsibility	Reference / Source
	• Stockinbingal Heritage Conservation Area.			
H36	During the detailed design and construction planning phase, IRPL will continue engagement with Heritage NSW and relevant local councils to ensure impacts on non-Aboriginal heritage assets are minimised and mitigated.	During design and construction	IRPL	RMM NAH-2
H37	Prior to ground disturbing works occurring between chainage 11,600 and 11,700, the Projects heritage consultant is to undertake an assessment of the area to identify the existence, location and subsequent archaeological potential of the historic saw mill site. Any resulting management actions will be implemented by JHG and/or IRPL.	Prior to ground disturbance between chainage 11,600 and 11,700	JH Environment Manager	EIS Section 15.3.3.3
H38	Opportunities to enhance heritage enhance heritage values will be investigated and where reasonable and feasible, implemented during the Project.	Pre-construction, construction	JH Sustainability Manager	ISC v1.2
H39	Construction activities will be planned to consider the proximity of work to any local or state listed heritage structures and to apply safe working distances when using vibration intensive equipment (where possible). Where this is not possible, protection measures will be investigated and implemented as required.	Prior to construction and during construction	JH Environment Manager	Noise & Vibration Management Plan

10 Compliance Management

10.1 Roles and Responsibilities

Roles and responsibilities related to the environment discipline and the Projects organisational structure are outlined in Section 7.1 of the CEMP.

Specific roles and responsibilities relevant to heritage management and this HMSP are provided in Table 9-2,Section 9.8 and outlined in the table below.

Table 10-1 Roles & Responsibilities

Role	Responsibility
Registered Aboriginal Participants (RAPs)	• Consult with the Project Archaeologist • If invited, be engaged as Cultural Monitors during archaeological fieldwork, including survey, test excavation and salvage excavation. • Provide feedback and advice to JHG
Project Archaeologist	• Provide support and advice to the construction team for any matters associated with heritage management • Coordinate on-site investigations such as test pitting, salvage and unexpected finds • Coordinate onsite activities with RAPs • Coordinate the development of documents and issue to RAPs for review and discussion • Provide training and support to all site staff in matters associated with aboriginal and non-aboriginal heritage. • Undertake pre-construction clearance and update AHIMS records, as required.
Environment & Sustainability Manager	• Liaise with the Project Archaeologist and Project Manager(s) to ensure compliance with relevant approvals, the HMSP and the Unexpected and Incidental Finds Protocol
Project Manager(s)	• Assist the Project Archaeologist to ensure all heritage requirements are met and procedures implemented • Advise the Environment & Sustainability Manager when heritage requirements are satisfied • Ensure that the Unexpected and Incidental Finds Protocol is followed
Site Supervisor(s)	• Notify the Project Manager and Environment & Sustainability Manager of any unexpected heritage finds and support the Project Archaeologist in following the Unexpected and Incidental Finds Protocol.

Role	Responsibility
Workforce	• Attend all heritage inductions • Notify the Site Supervisor of any unexpected heritage finds, as per the Unexpected and Incidental Finds Protocol and follow all procedures.

10.2 Training

All employees and contractors working on site will undergo site induction training prior to commencing work which will include Aboriginal and non-Aboriginal heritage. The induction will address elements including (but not limited to):

- The location of known heritage items
- The unexpected and incidental finds protocol and procedure
- The cultural importance of any Aboriginal and Historic sites
- The appropriate method of working around heritage items and/ or places
- Care, control and management of Aboriginal and Historic Areas
- Employees obligations under the legislation (e.g. NPW Act).

Training will also include Toolbox Talks and Prestart Meetings in which the topics of the site induction will be revisited.

In addition to the above, the following heritage specific training will be provided. This training will be delivered at the commencement of construction, and annually afterwards.

- In accordance with RMM AH-10, cultural heritage awareness training will be provided to all relevant Project personnel which will be prepared and/or delivered by an Aboriginal representative.
- In accordance with RMM NAH-3, non-Aboriginal heritage training will be provided to relevant Project personnel which will promote an understanding of heritage items that may be impacted during the works, and the requirements of the Unexpected and Incidental Finds Protocol (Appendix B).

Refer to Section 7.4 of the CEMP for further detail.

10.3 Monitoring and Inspections

Table 10-2 details the inspections related to heritage management required to be undertaken during for the Project. A full list of inspections is provided in Section 9 of the CEMP.

Table 10-2 – Monitoring and inspection requirements

Inspection type	Frequency	Standards/forms	Reporting	Responsibility
Environmental site inspection	Weekly	Weekly Environmental Inspection Checklist	Closed out Weekly Environmental Inspection Checklist	Project Environment Team
Daily visual surveillance (site diary entries)	Daily (as required)	Project EMS	Foreperson's Logbook / Site Diary	JH Site Supervisor

Inspection type	Frequency	Standards/forms	Reporting	Responsibility
Shutdown Environmental inspections	Prior to site shut down (e.g. Christmas period)	Project EMS	Inspection checklist	Project Environment team
IRPL environmental inspections	Fortnightly or as determined based on risk level	NA	Environmental inspection checklist/notes	IRPL personnel
ER site inspections	Fortnightly or as determined based on risk level	Environmental Representative Protocol	ER Inspection Report ER Monthly Report	ER
AHIMS pre-construction inspection	Prior to commencing construction	AHIMS site cards	Heritage NSW (AHIMS database)	JH Environment & Sustainability Manager

10.4 Non-Compliance and Non-Conformance

Non-compliances and non-conformances, including those related to heritage management, are detailed in Section 9.3 of the CEMP. This includes the definitions of non-compliance and non-conformance, corrective and preventative actions, communication of corrective and preventative actions to staff and non-conformance close-out.

10.5 Incident Response

Incident management, including heritage management, are detailed in Section 8 of the CEMP. This includes incident classification, notification and reporting including to external authorities, incident investigation and closeout.

10.6 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental controls, compliance with this sub plan, CoA and other relevant approvals, licenses and guidelines. Audit requirements are detailed in Section 9.4 of the CEMP.

10.7 Reporting

Reporting will be undertaken in accordance with Section 9.5 of the CEMP. Heritage specific reporting required for the Project is provided in Table 10-3.

Table 10-3 – Heritage reporting requirements for the Project

Reporting Output	Recipient	Timing	Reference
Additional Aboriginal Archaeological Survey Methodology	DPHI, RAPs, Heritage NSW	Submitted to DPHI one (1) month before the survey commences	CoA E135
Aboriginal Archaeological Test Excavation Methodology	DPHI, RAPs, Heritage NSW	Submitted to DPHI one (1) month before the survey commences	CoA E135
Aboriginal Archaeological Salvage Excavation Methodology	DPHI, RAPs, Heritage NSW	Submitted to DPHI one (1) month before the salvage excavation	CoA E138

Reporting Output	Recipient	Timing	Reference
Aboriginal Cultural Heritage Excavation Report	DPHI, RAPs, Heritage NSW, relevant councils, relevant LALCs	Submitted to DPHI within 24 months of the completion of Aboriginal archaeological excavations (both test and salvage)	CoA E139
Aboriginal Community and Stakeholder Engagement Strategy	Heritage NSW, relevant RAPs, and Local Aboriginal Land Councils (LACL)	Prior to the commencement of construction	CoA E131
Aboriginal Cultural Values Plan	DPHI, RAPs, Heritage NSW	Submitted to DPHI one (1) month before the commencement of construction	CoA E133

10.8 Complaints Management

Section 7.6 of the CEMP details communication and complaints management processes and procedures. The CCS identifies key stakeholder groups that will be consulted and engaged with during the Project and outlines the communication tools that will be used to consult and engage with these groups. A link to the Project CCS is provided below. This CCS has been approved by DPHI and in place in accordance with CoA B1-B5.

Community Communication Strategy - Illabo to Stockinbingal

During construction, any comments, feedback or complaints relating to biodiversity management issues will be addressed through the Complaints Management System. The Complaints Management System includes a complaints register within the stakeholder database.

11 Review and Improvement

11.1 Continuous Improvement

Continuous improvement of this plan 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 is designed to:

- Identify areas of opportunity for improvement of environmental management and performance;
- Determine the cause or causes of non-conformances and deficiencies;
- Develop and implement a plan of corrective and preventative action to address any non-conformances and deficiencies;
- Verify the effectiveness of the corrective and preventative actions;
- Document any changes in procedures resulting from process improvement; and
- Make comparisons with objectives and targets.

11.2 Plan Amendments and Version Control

In accordance with Section 9.7.2 of the CEMP, each management plan must be reviewed and, where necessary, updated every six (6) months or as otherwise required by the Project management Requirements or requested by IRPL. The processes described in Section 3.10 of the CEMP may result in the need to update or revise this Plan. Only the Environment Manager, or delegate, has the authority to change any of the environmental management documentation. Likewise with regards to activities that are required to be undertaken for the duration of the Project (i.e. survey, testing, salvage etc.) the findings of these works will be incorporated into future updates of this Plan.

12 Appendices

Appendix A – Consultation Records

Junee Council and Cootamundra- Gundagai Regional Council

Date	Details of Engagement / Attempted Engagement
15/04/2025	Two presentations to Junee Council and Cootamundra- Gundagai Regional Council undertaken as face to face sessions that captured SIMP and environmental management plans for council review (including the Heritage Management Plan).
22/04/2025	Provision of the presentation meeting minutes from the 15/04 to both councils for review. The minutes included a slide capturing upcoming management plans being prepared for council consultation as per Condition C17 of the CoA.
26/06/2025	Submission of the Heritage Management Plan to both councils via Aconex. This submission was made by IRPL.
26/06/2025	Monthly meeting held with Junee Council via Teams. Discussion and agreement made in this meeting to undertake a face-to-face workshop on the C17 management plans (including the Heritage Management Plan).
17/06/2025	Weekly meeting held with Cootamundra Gundagai Council via Teams. Discussion and agreement made in this meeting to undertake a face-to-face workshop on the C17 management plans (including the Heritage Management Plan).
1/07/2025	Face to face workshop held with Junee Council, IRPL and JHG staff. Comments and questions made on the Heritage Management Plan (see attached meeting minutes).
1/07/2025	Face to face workshop held with Cootamundra Gundagai Council, IRPL and JHG staff. Comments and questions made on the Heritage Management Plan (see attached meeting minutes).
7/07/2025	Provision of meeting slides to Junee Council with a follow up request to confirm if the Council would be providing any further comments on the Plan.
8/07/2025	Confirmation from Cootamundra Gundagai Council that no further comments on the Heritage Management Plan.
10/07/2025	Provision of meeting minutes to Junee Council with a follow up request to confirm if the Council would be providing any further comments on the Plan.
21/07/2025	Email from JHG to Junee Council requesting confirmation that the comments had been closed out and that no further comments anticipated. Meeting minutes from the face-to-face workshop were provided on 10/07/2025 with follow up meeting minutes with close out of actions on the Heritage Management Plan included and submitted via email on 21/07/2025

Comment Raised	Project Response	Where addressed	Status
Cootamundra- Gundagai Council- no further comments	Nil	NA	NA
Junee Council Note- TfNSW has found artefacts on the southern side of Billabong Bridge after test pitting and surface artefacts. • ST asked if there will be walking trails or wayfinding along there? • DL advised this is TBC as part of the works to complete the Cultural Values Plan (separate CoA requirement) that will feed into the visual landscape design and potentially some signage like viewing markers. • ST has a reserve up there with interpretive signage - offered to include Inland Rail information at Billabong reserve along new walking trail where they are going to be putting signs. **ACTION: JHG said yes that would be great and will note for the designers to contact Junee Council for this opportunity.**	JH can confirm, the Cultural Values Plan (CoA E133) is being finalised with local indigenous groups and knowledge keepers now. JHG can confirm that one option identified during the workshops was to incorporate signage during operations that can capture local & regional cultural history and elements. This information has been passed on to the designers preparing the Visual Landscape and Impact Mitigation Plan (E126) to incorporate these elements into the urban design. Section 9,3 of the HMP describes this process for completion of the Plan under E133 and incorporation of these findings into the design. Further discussions between JHG, IRPL and Junee Council will be developed for opportunities to incorporate signage elements into local roads, landmarks etc.	Cultural Values Plan and Section 9.3	Closed ((In the event that JHG receive further comments from Junee Council, these will be incorporated into the Plan where relevant to Heritage).

Registered Aboriginal Participants (RAPs)

Date	Details of Engagement / Attempted Engagement
17/06/2025	Email from MTS Heritage to all RAPs providing a copy of the Heritage Management Plan and Stakeholder Engagement Strategy for consultation.
17/06/2025	Follow up email from MTS Heritage to RAP (Mark Sadler) providing feedback following a phone call discussion with feedback for inclusion in the Plan (see comment included below).
17/06/2025	Email from RAP (Sonione Rogers) and MTS Heritage requesting and providing appendices that were mentioned in the original email with the Heritage Management Plan attached.
23/06/2025	Email from RAP (Yurwang Gundana) with comments provided to JHG.

Comment Raised	Project Response	Where addressed	Status
As promised, I have noted down your feedback – that you are disappointed that there is no acknowledgement of country on the cover page of the JHG Heritage Management Sub-Plan and the Aboriginal Community and Stakeholder Engagement Strategy. I will discuss this with John Holland and it can hopefully be rectified.	JHG have included an acknowledgement of country on the cover page of this Plan.	Front page of the plan	Closed (response provided to the RAP to confirm that this has been considered)
I'd like to take a look please at the file (appendices referenced in the email)	MTS Heritage provided a copy of the Appendices on the same day 17/06/2025	NA	Closed
1. Need for Genuine Partnership While we acknowledge the commitments set out in the Strategy, it is essential that Aboriginal cultural heritage is not treated as a passive 'consultation' matter, but one requiring ongoing *partnership*. We request that **Yurwang Gundana** be included as an *active cultural partner* in all key phases — including finalisation of management plans, monitoring, salvage, design integration, and ongoing site stewardship.	The Project is committed to ongoing consultation with every RAP throughout the Project. Each RAP has been consulted on the making of the Heritage Management Plan, Aboriginal Community and Stakeholder Consultation Strategy and Excavation and Testing Methodology. Further consultation will be undertaken to support the future salvage methodology, site inspections and potential opportunities for RAPs to be involved in salvage activities.	NA	Closed (response provided to the RAP to confirm that this has been considered)

Comment Raised	Project Response	Where addressed	Status
2. Cultural Monitors for All Ground Disturbance We strongly recommend that qualified Cultural Monitors be present for all **archaeological and ground-disturbing works**, including surveys, test excavation, salvage, construction, and post-construction works. Monitoring must not be limited to 'opportunities for participation' — we seek formal recognition of this role with appropriate cultural authority and decision-making input.	RAPs with a cultural connection with Wiradjuri Country and/or that responded to the questionnaire distributed on 21 March 2025 have been engaged as Cultural Monitors for archaeological fieldwork, including survey, test excavation and salvage excavation,	Table 10-1	Closed (response provided to the RAP to confirm that this has been considered)
3. Role in the Aboriginal Cultural Values Plan Given the importance of embedding Aboriginal cultural values into the design and public-facing elements of this project, **Yurwang Gundana** requests active participation in the finalisation and delivery of the Aboriginal Cultural Values Plan (ACVP). Our team brings cultural knowledge and relationships with the local community that are vital to ensure cultural values are genuinely reflected — beyond symbolic inclusion.	JHG and IRPL understand that Yurwang Gundana identify as Ngunnawal. It is therefore not considered culturally appropriate that Yurwang Gundana play an active role in preparation of the ACVP. Aboriginal Stakeholders who have a connection with Wiradjuri Country have participated in the CVP workshops. A copy of the ACVP will be sent to Yurwang Gundana.	NA	Closed (response provided to the RAP to confirm that this has been considered)
4. Protection of Cultural Knowledge and IP All cultural knowledge or material shared by Traditional Custodians must remain under community control. Prior approval from community representatives must be sought before any use, publication, or dissemination of this material (including through project communications or public materials).	JHG and IRPL note that cultural knowledge shared by Traditional Custodians should remain under local community control and is not the property of JHG or IRPL. Any use of such material will be approved by group who provided the content before being used in any communication or public event.	NA	Closed (response provided to the RAP to confirm that this has been considered)
5. Cultural Landscape Approach The Strategy tends to reference Aboriginal heritage in a site-based manner. We strongly advocate for a Cultural Landscape approach — recognising broader cultural relationships with Country that extend beyond known sites (trees, artefacts) to include Songlines, stories, plants, water, and ceremonial routes.	JHG and IRPL are addressing cultural landscape through cultural heritage workshops with Aboriginal stakeholders that have a cultural connection with Wiradjuri Country. The results of these workshops will be documented in the Aboriginal Cultural Values Plan, which is currently drafted and with Aboriginal Stakeholders for comment.	NA	Closed (response provided to the RAP to confirm that this has been considered)
6. Artefact Handling & Reburial Yurwang Gundana seeks to play an active role in decisions relating to	JHG and IRPL understand that Yurwang Gundana identify as Ngunnawal. It is therefore not considered culturally	NA	Closed (response

Comment Raised	Project Response	Where addressed	Status
handling, conservation, and potential reburial of all artefacts or cultural material. We request that no decisions be made in isolation or purely by archaeological contractors.	appropriate that Yurwang Gundana play an active role in decision-making around artefact handling and reburial. This will be decided with groups with a cultural connection to Wiradjuri Country.		provided to the RAP to confirm that this has been considered)
7. Indigenous Business & Employment Pathways We seek to be part of future discussions regarding Aboriginal employment and Indigenous business procurement under this project. Opportunities must prioritise culturally safe workplaces and long-term capacity-building, not just short-term engagements.	The John Holland Illabo to Stockinbingal Workforce Management Sub Plan, and Industry & Local and Indigenous Industry Participation Sub-Plan guide the projects commitments and engagement for Aboriginal employment and Indigenous business procurement. The plans outline key partners including the Local Aboriginal Land Councils, local Aboriginal groups, Supply Nation, NSW Indigenous Chamber of Commerce, Yarpa Hub and the Industry Capability Network. John Holland will work with these partners to ensure we are engaging in a Culturally safe way and to understand what opportunities are beneficial for the local Aboriginal community. This information on project targets, initiatives and tracking of these commitments are collated in the Project Social Impact Management Plan (SIMP) required by CoA E109. This condition incorporates all of the social considerations including aboriginal employment, business procurement and training opportunities	Social Impact Management Plan	Closed (response provided to the RAP to confirm that this has been considered)
We formally request that **Yurwang Gundana** be included as a core cultural partner moving forward, with clear participation in: • Finalisation of the Aboriginal Cultural Values Plan • Finalisation of the Construction Environmental Heritage Management Sub-Plan • All archaeological programs (survey, test, salvage)	Copies of all heritage reports will be sent to RAPs, including Yurwang Gundana. Please see comments above regarding incorporation of Yurwang Gundana in ACVP, Unexpected Finds Process and archaeological programs.	Section 6.2.3	Closed (response provided to the RAP to confirm that this has

Comment Raised	Project Response	Where addressed	Status
• All construction and post-construction ground disturbance • Interpretation, education, and cultural design components • Review of any Unexpected Heritage Finds processes.			been considered)

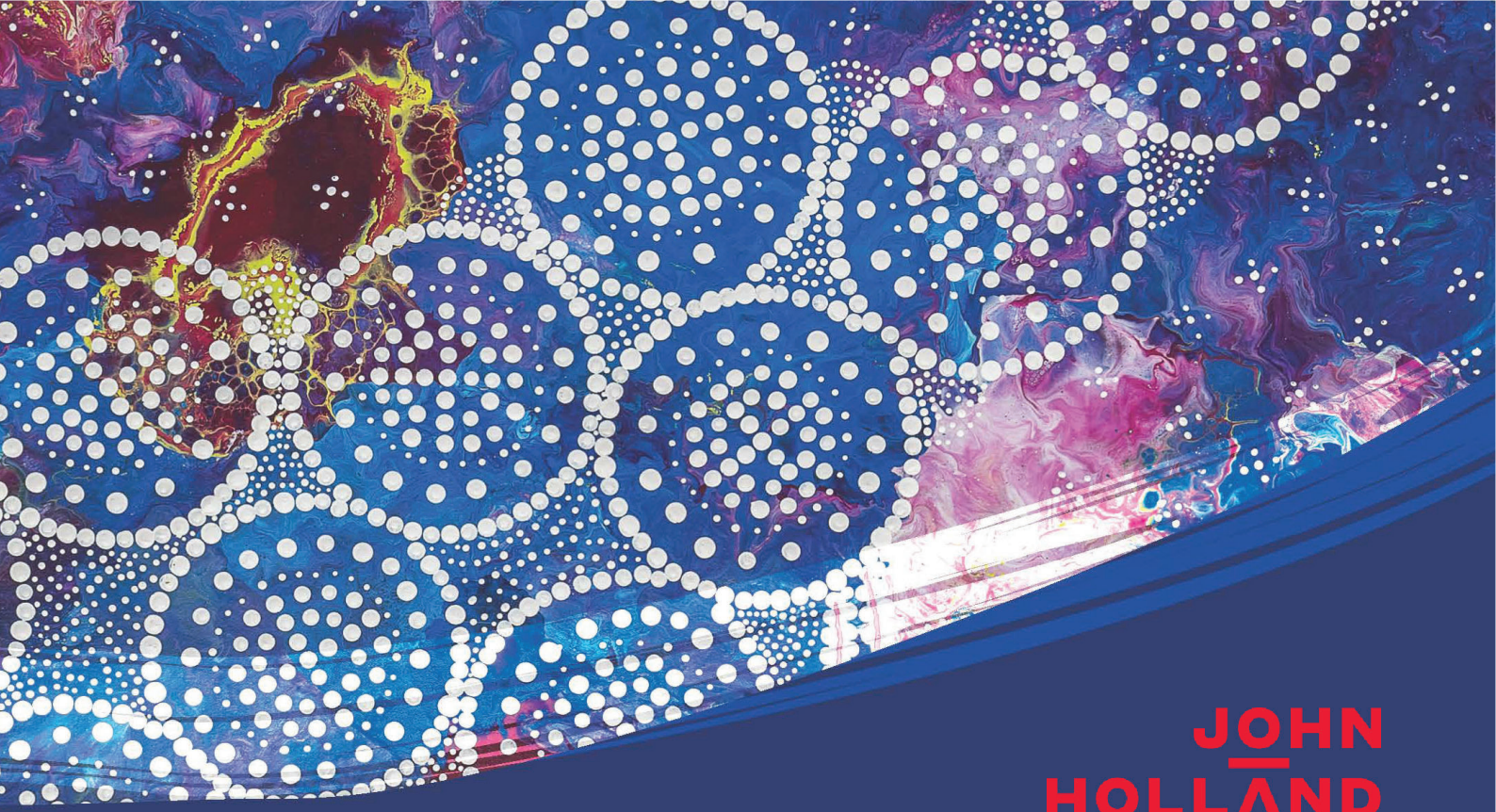
Heritage NSW

Date	Details of Engagement / Attempted Engagement
24/03/2025	Meeting on teams between Heritage NSW (HNSW), IRPL and JHG teams to discuss the upcoming Heritage Management Plan, excavation and salvage methodologies and consultation requirements, time frames and expected content/detail required.
23/06/2025	IRPL submission via email of the Heritage Management Plan to HNSW for consultation.
8/07/2025	Email from HNSW team to IRPL confirming that access to the Heritage Management Plan was causing IT issues. HNSW request another copy.
15/07/2025	Email to HNSW team from JHG with a new link and word, pdf and separate attachments for HNSW review.
16/07/2025	Email from HNSW to JHG team confirming that no further issues with accessing the Plan.
16/07/2025	Official comments provided by HNSW to JHG team for consideration in the Heritage Management Plan (see comments below).

Comment Raised	Project Response	Where addressed	Status
Heritage NSW notes that due to the length of time since preparation of the Environmental Impact Statement (EIS), consultation was restarted for the project in early 2025 to ensure a thorough and inclusive process. Please clarify if Registered Aboriginal Parties registered	Previously registered RAPs were automatically included in consultation in line with the contact details provided by GML. An introductory letter was sent to all previously registered RAPs on 7 Jan 2025 and they were included in consultation from the point of sending out the Additional Survey and Test Excavation Methodology onwards.	Section 6.2.3	Closed

Comment Raised	Project Response	Where addressed	Status
previously for the project were invited to re-register in the secondary process.			
Please provide documentation relating to the ongoing consultation for the project including evidence that the RAPs were consulted during development of the management plan and a consultation log showing details of all consultation to date.	Consultation with RAPs during development of this management plan are detailed in Appendix A. A standalone Consultation Log has been developed and is being updated for the Project and can be provided to Heritage NSW, if further details are required.	Appendix A	Closed

Appendix B – Unexpected and Incidental Finds Protocol



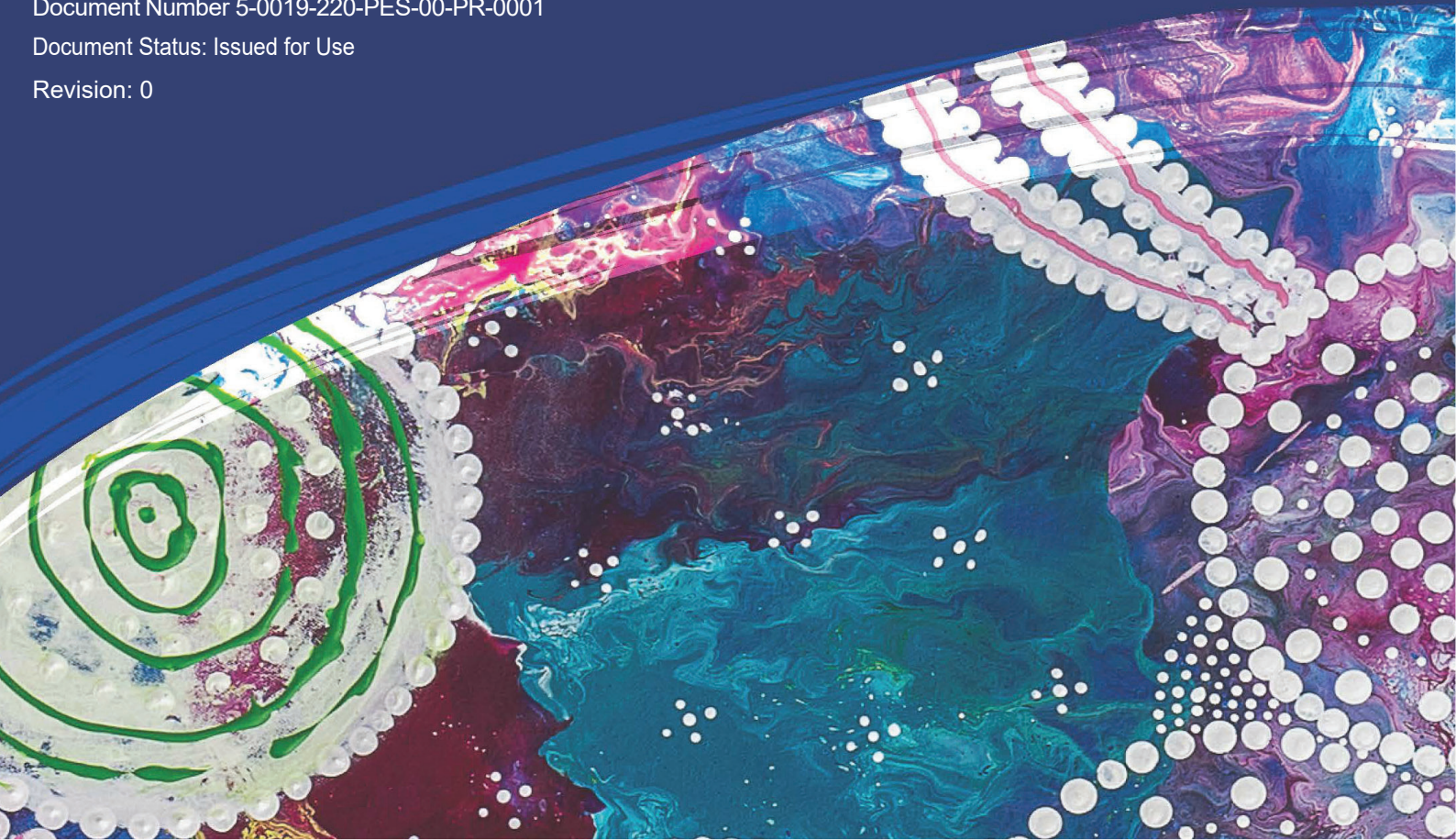
JOHN HOLLAND

INLAND RAIL

ILLABO TO STOCKINBINGAL PROJECT

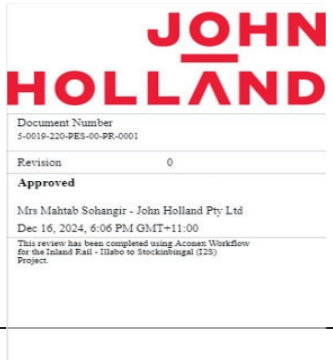
Unexpected and Incidental Finds Protocol

Document Number 5-0019-220-PES-00-PR-0001
Document Status: Issued for Use
Revision: 0



Document Control

Document Tite	Unexpected and Incidental Finds Protocols and Procedure
IRPL Document No.	5-0019-220-PES-00-PR-0001
Document Owner	Hugh Goymour

Revision status		
Revision A		
Company name	Apical Environmental Consultants	
Specialists	Scott Grunsell, Planning Approval Specialist	
Revision B		
Company name(s)	Intiapac and NGH Consulting	
Approvals Specialist	Lahnie Cooper, Environment and Compliance Specialist	
Heritage Specialist	Matthew Barber, Technical Director	
Contamination Specialist	Nicola Smith, Technical Lead Environmental Management	
Ecology Specialist	Jane Love, Technical Lead Environmental Management	
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	REVIEWED BY	**APPROVED BY**
Name	Mahtab Sohangir	Andy Buchanan
Title	Environment & Sustainability Manager	Project Manager
Signature **Date**		

Review and endorsement by site auditor	
Endorsed By	Julie Evans
Date	3/12/2024

Revision History

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1.0 Revisions and Distribution

1.1 Revisions

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

1.2 Distribution

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

Distributions

Client’s Representative	Conrad Strachan - IRPL
Project Director	Rob Pitt - JHG
Project Manager	Andy Buchanan - JHG
Quality & Completions Manager (Project Quality Representative)	Shane Aberdeen - JHG
Environmental Manager	Hugh Goymour - JHG
Environmental Representative	Ricardo Prieto-Curiel – Wolfpeak
Environmental Representative	Derek Low– Wolfpeak
Environmental Representative	Steven Fermio– Wolfpeak

Disclaimer

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

2.0 Definitions / Abbreviations

Table 2-1: Definitions and Abbreviations

Term/Abbreviation	Definition
Aboriginal object	Any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction and includes Aboriginal remains as per the *National Parks and Wildlife Act 1974* Examples: - Stone tool artefacts - Axe grinding grooves - Pigment or engraved rock art - Burial sites - Scarred trees
ACM	Asbestos Containing Material
ARTC	Australian Rail Track Corporation
ASS	Acid Sulphate Soils
BAM	Biodiversity Assessment Method
BC Act	*Biodiversity Conservation Act 2016*
CEMP	Construction Environmental Management Plan
CA Act	*Coroner's Act 2009*
CoA	Conditions of Approval
CSSI	Critical State Significant Infrastructure
DPHI	Department of Planning Housing and Infrastructure
Environmental Assessment Documentation	• Inland Rail – Illabo to Stockinbingal Environmental Impact Statement (ARTC 2022) • Illabo to Stockinbingal Project Response to Submissions (ARTC 2023) • Response to Submissions – Appendix E - Biodiversity Development Assessment Report version 12 (IRDJV, June 2024) • I2S – Mitigation Measures (Inland Rail, April 2024) • Illabo to Stockinbingal (SSI-9604) Additional and Appropriate Measures for Box Gum Woodland Impacts (Inland Rail, June 2024) • Technical and Approvals Consultancy Services: Illabo to Stockinbingal – Box Gum Woodland Gum Flat Rehabilitation Opportunity (IRDJV, June 2024)
EPA	NSW Environment Protection Authority
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999*
ER	Environmental Representative
Heritage Act	*Heritage Act 1977*
HNSW	Heritage NSW
Human remains	Human remains may be identified as either Aboriginal objects or non-Aboriginal relics, depending on the individual's ancestry and the burial context. Remains are considered to be archaeological when it is suspected that they date back 100 years or more.
IRPL	Inland Rail Pty Ltd
I2S	Illabo to Stockinbingal
JH	John Holland
LALC	Local Aboriginal Land Council

Term/Abbreviation	Definition
LGA	Local Government Area
LIW	Low Impact Works Work defined as low impact includes: (a) survey works including carrying out general alignment surveys, installing survey controls (including installation of global positioning system (GPS)), installing repeater stations, carrying out surveys of existing and future utilities and building and road dilapidation surveys; (b) investigations including investigative drilling, contamination investigations and excavation; (c) installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments; (d) property acquisition adjustment work including installation of property fencing; (e) archaeological testing under the Code of practice for archaeological investigation of Aboriginal objects in NSW (Department of Environment Climate Change and Water, 2010) or archaeological monitoring undertaken in association with Low Impact work to ensure that there is no impact on heritage items; (f) archaeological and cultural salvage undertaken in accordance with a strategy or salvage operation required by the conditions of this approval; (g) maintenance work to existing buildings and structures as required to facilitate the carrying out of the CSSI; and (h) other activities determined by the ER to have minimal environmental impact which may include relocation and connection of utilities, establishment of minor ancillary facilities in accordance with Condition C9 construction of minor access roads (other than access roads' connection to the road network), temporary relocation of pedestrian paths and the provision of property access. (i) Site establishment work approved under a Site Establishment Management Plan in accordance with Condition C5. Despite the above, the following works are not Low Impact Work: (i) where heritage items, or threatened species or their habitat, or threatened ecological communities (within the meaning of the Biodiversity Conservation Act 2016), are adversely affected or potentially adversely affected by any low impact work as defined in (a) to (n) above, that work is construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, EHG BCS or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation); and (ii) any Work undertaken outside the hours specified in Condition E1 that exceeds noise management and vibration levels as identified in Condition E3 (b). *Notes:* *1. Early stages of Work are not necessarily low impact work.* *2. Low Impact work is not Construction as defined by this approval.* *3. The low impact work described in this definition becomes Construction with the approval of a CEMP. Where low impact work has already commenced, this is considered to remain as low impact work and is managed in accordance with the framework under which it commenced.*
Non-Aboriginal heritage items	"Any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance" as defined by the *Heritage Act*. Items may include: - Archaeological relics - Other historic items (i.e., works, structures, buildings, or movable objects).
NPW Act	*National Parks and Wildlife Act 1974*

Term/Abbreviation	Definition
NSW	New South Wales
PCBs	Polychlorinated biphenyls
POEO Act	*Protection of the Environment Operations Act 1997*
Protocol	This Unexpected and Incidental Finds Protocol
RAP	Registered Aboriginal Party
Relics	Relics are archaeological items of local or state significance in NSW, reflecting past domestic, industrial, or agricultural activities. Examples include bottles, pottery, and building materials.
TEC	Threatened Ecological Communities
UEMM	Updated Environmental Management Measures
Unexpected Heritage Find	An Aboriginal or non-Aboriginal object, relic, feature, or place discovered (or suspected to be present) during the carrying out of the CSSI of heritage significance which was not identified in the documents listed in CoA A1. An unexpected heritage find can include human remains if they are deemed to be historical.
Work	Any physical work for the purpose of the CSSI including construction and low impact work, but not including operational maintenance work.

3.0 Introduction

3.1 Background

Inland Rail is an approximate 1,600 kilometres (km) freight rail network that will connect Melbourne and Brisbane via regional Victoria, New South Wales (NSW) and Queensland. Comprising 12 sections, a staged approach is being undertaken to deliver Inland Rail.

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

The Project is located in south-western New South Wales (NSW) in the Riverina region (Figure 1.1). Illabo is a small town of approximately 132 people (Australian Bureau of Statistics, 2021) located at the southern end of the alignment, 16 kilometres (km) north-east of Junee in the Junee Local Government Area (LGA). Stockinbingal is a town of approximately 347 people (Australian Bureau of Statistics, 2021) is situated at the northern end of the project, approximately 20 km north-west of Cootamundra in the Cootamundra–Gundagai Regional LGA. The major towns surrounding the project are Wagga Wagga, about 50 km to the south, Young to the north-east and Cootamundra to the east.

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

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

- Connection to other rail lines, including Stockinbingal to Parkes line, Lake Cargelligo line, and Main Southern Railway
- One crossing loop and maintenance siding
- Level crossings and stock crossings
- Bridges over rivers and other watercourses, floodplains, and roads
- Upgrades of around 3.5 km of existing track for the tie-in works to the existing Main South Line at Illabo
- New track to maintain Lake Cargelligo line connection either side of the proposal
- Realignment and road-over rail bridge for a section of the Burley Griffin Way at Stockinbingal

- Realignment of Ironbong Road to allow for safe sight lines at the new active level crossing
- Ancillary infrastructure to support the proposal, inclusive of signalling and communications, drainage, drainage control areas, signage and fencing, and services and utilities
- Construction infrastructure, including ancillary facilities, and a temporary workforce accommodation facility.

The Project will also include upgrades to approximately 3 km of existing track associated with tie-in works and construction of an additional 1.7 km of new track to maintain the existing rail network connections. Road upgrade works will also be undertaken to re-align approximately 1.4 km of Burley Griffin Way to provide a road-over-rail bridge at Stockinbingal. Re-alignment of Ironbong Road will also be completed to allow for safe sight lines. A temporary workforce accommodation camp will also be constructed to house the workforce for the duration of works. Key features of the Project are shown on Figure 1.2.

This Unexpected and Incidental Finds Protocol (Protocol) details the actions to be taken should any unexpected or incidental finds occur relating to:

- Threatened species or threatened ecological communities (TEC)
- Contamination hazards or contaminated land
- Aboriginal Cultural Heritage and non-Aboriginal Heritage and human remains.

The Protocol also details the response procedures, reporting and notification requirements in the case of unexpected and incidental finds.

This Unexpected and Incidental Finds Protocol (Protocol) applies to all works, including low impact works (LIW).

3.2 Scope

This Protocol is applicable to any physical work for the purpose of the Critical State Significant Infrastructure (CSSI), including construction and LIW, but not including operational maintenance work. This Protocol should be read in conjunction with the Construction Environmental Management Plan (CEMP) and relevant Sub-Plans. This Protocol outlines how John Holland (JH) proposes to manage unexpected and incidental finds, related to the following aspects, during works associated with the I2S Project:

- Threatened species and threatened ecological communities
- Contamination, hazards and contaminated land
- Aboriginal cultural heritage
- Non-Aboriginal heritage
- Human remains.

The Protocol outlines procedures for stopping work near unexpected or incidental finds to prevent further impact, along with steps for notifying relevant stakeholders and state agencies in writing through an established notification pathway.

The existence of this Protocol does not replace the need to prepare Environmental Work Method Statements and/or Safe Work Method Statements where required in accordance with other documents e.g. CEMP. This document is not intended to provide management controls required to protect human safety or meet health and safety industry requirements.

This document has been prepared by suitably qualified persons (in each discipline associated with the Unexpected Finds Protocol). These suitably qualified persons (SQE's) have over 5 years' experience in each field for similar projects to that of I2S (contamination, ecology, non-Aboriginal Heritage and Aboriginal Heritage) and hold the relevant qualifications required to act as SQE's in the preparation and endorsement of this document.

3.3 Purpose

This Protocol has been developed in accordance with Condition of Approval (CoA) A17, the Unexpected Heritage Finds and Human Remains Procedure prepared under CoA E143 (Appendix B) and the Unexpected Finds Procedure for Contamination under CoA E161 (Appendix C). This Protocol will be implemented in the event of an unexpected find relating to biodiversity, heritage (both Aboriginal and non-Aboriginal), human remains and contamination. An unexpected find is considered when an item relating to any of these aspects is uncovered that has not been previously identified within site investigations undertaken as part of the Environmental Assessment Documentation listed under CoA A1.

In the event of an unexpected or incidental find, specialist consultants, and relevant technical specialists, will be engaged to advise on the management and potential assessment of the unexpected find identified during work. Response procedures for unexpected finds are provided in Appendix A, B and C.

This Protocol and associated procedures will be implemented for the duration of all LIW and construction work associated with the I2S Project.

3.4 Objectives

The key objective of this Protocol is to provide a framework outlining appropriate environmental response procedures to be implemented during LIW and construction activities. These procedures will be implemented to minimise risks associated with unexpected and incidental finds relating to threatened species or threatened ecological communities (TEC), contamination, hazards or contaminated land, Aboriginal Cultural Heritage, non-Aboriginal Heritage and suspected human remains.

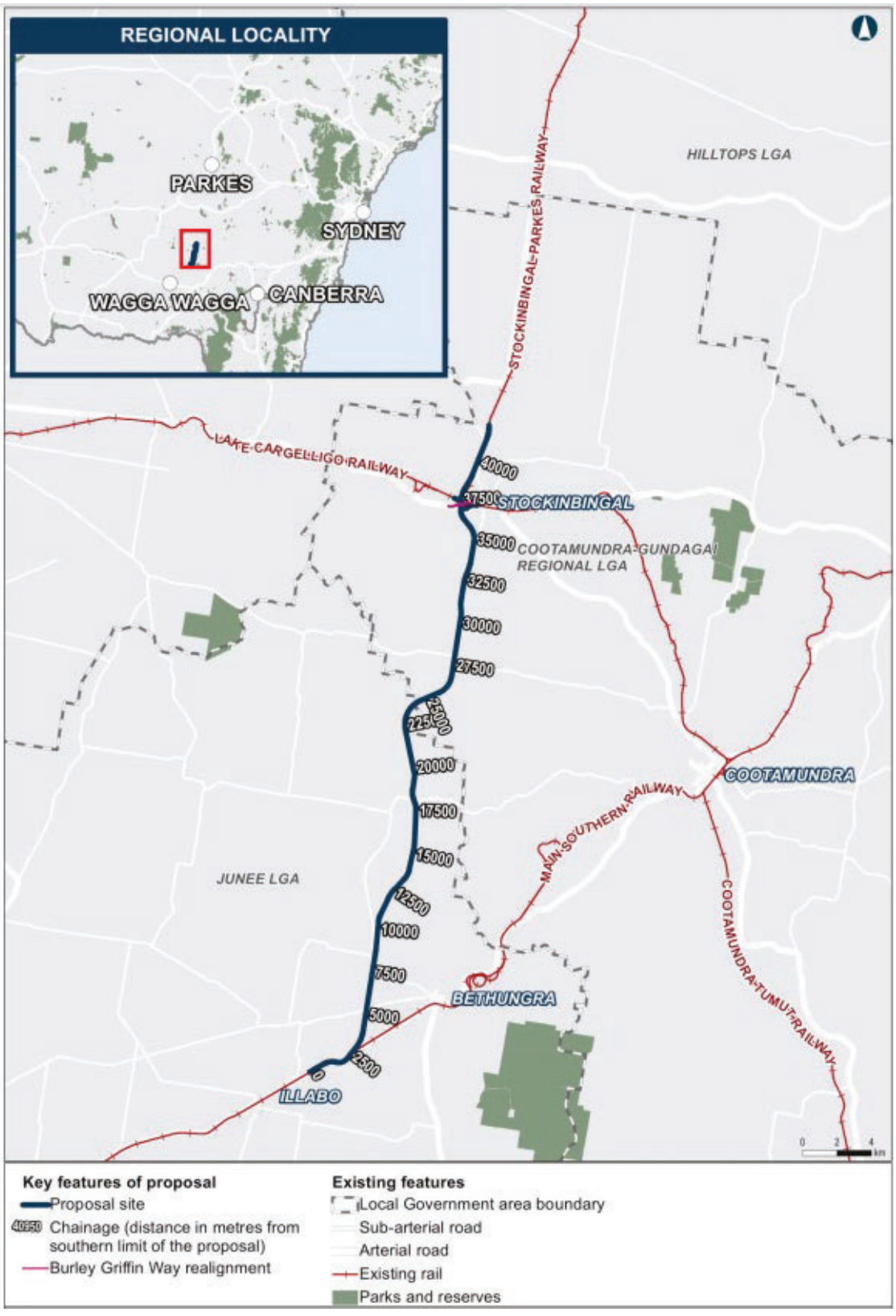


Figure 1.1 Project Locality. ***From Illabo to Stockinbingal EIS, Chapter 1***

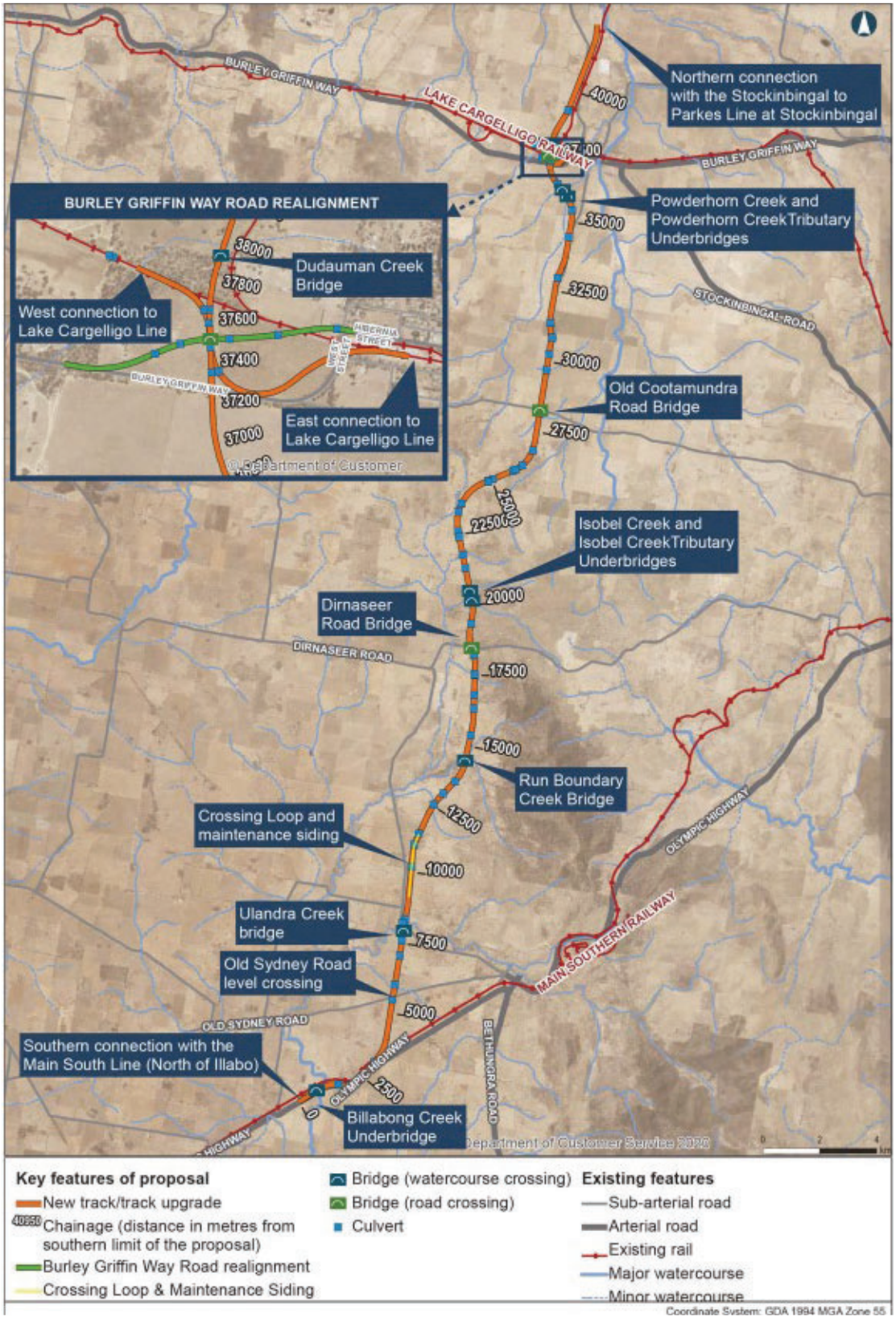


Figure 1.2 Key features of proposal. From Illabo to Stockinbingal EIS, Chapter 1

3.5 Relevant Legislation and Guidelines

Table 3-1 lists the principal legislation, regulation, plans, policies, guidelines, specifications, and Australian Standards that apply to this Protocol for the I2S Project.

Table 3-1: Relevant Legislation and Guidelines

Legislation	***Commonwealth Legislation*** • *Environment Protection and Biodiversity Conservation Act 1999* ***NSW Legislation*** • *Biodiversity Conservation Act 2016* • *Fisheries Management Act 1994* • *National Parks and Wildlife Act 1974* • *Biosecurity Act 2015* • *Protection of the Environment Operations Act 1997* • Protection of the Environment Operations (General) Regulation 2022 • Protection of the Environment Operations (Waste) Regulation 2014 • *State Environmental Planning Policy (Resilience and Hazards) 2021* • *Contaminated Land Management Act 1997* • Contaminated Land Management Regulation 2022 • *Heritage Act 1977* • Heritage Regulation 2012
Guidelines and Specifications	• Due Diligence Code of Practice (DECCW 2010) • Biodiversity Guidelines (Protecting and Managing Biodiversity on RTA Projects) • National Environmental Protection Measure (Assessment of Site Contamination) 1999 (as amended 2013) (National Environment Protection Council 2013) • Waste Classification Guidelines (NSW EPA 2014) • Guidelines for Consultants Reporting on Contaminated Land (NSW EPA, 2020) • Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997 (NSW EPA 2015) • Guidelines for the NSW Site Auditor Scheme, 3rd Edition (NSW EPA 2017) • Guideline for the Management of Contamination (Roads and Maritime Services 2013c) • Environment Protection Authority: Sampling design part 1 - application, Contaminated Land Guidelines (NSW EPA, 2022) • Environment Protection Authority: Sampling design part 2 - interpretation, Contaminated Land Guidelines (NSW EPA, 2022) • Preparing Environmental Management Plans for Contaminated Land (NSW EPA, 2022) • Guidelines for biological survey and mapped data (Commonwealth of Australia, 2018) • Biodiversity Assessment Method (BAM) (DPE 2020) • Skeletal Remains Guidelines for the Management of Human Skeletal Remains under the *Heritage Act 1977* (NSW Heritage Office, 1997) • Assessing Significance for Historical Archaeological Sites and 'Relics' (Heritage Branch of the Department of Planning, 2009) • *Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (OEH 2011)* • *Code of Practice for Archaeological Investigations of Aboriginal Objects in New South Wales (DECCW 2010)* • *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW 2010)*

3.6 Conditions of Approval

Table 3-2: Relevant CoAs (SSI-9406)

CoA No.	Commitment	Section Reference
A17	Prior to the commencement of low impact work, an Unexpected and Incidental Finds Protocol must be developed for: a) threatened species and threatened ecological communities; b) contamination, hazards and contaminated land; c) Aboriginal Cultural Heritage; and d) non-Aboriginal Heritage. The Unexpected and Incidental Finds Protocol must include procedures for: (i) all Work in the associated location to stop to prevent further impact; and (ii) notifying the Planning Secretary and relevant state agencies in writing. Work must not recommence until the relevant state agencies have been consulted and any required approvals have been obtained. The Unexpected and Incidental Finds Protocol must be made publicly available prior to low impact work commencing and must be implemented during low impact work	This Protocol Appendix A Appendix B Appendix C
E143	An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by Heritage NSW and submitted to the Planning Secretary for information before the commencement of Work.	Appendix B
E144	The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of Work. *Note: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.*	Appendix B
E161	An Unexpected Finds Procedure for Contamination must: a) be prepared prior to the commencement of Work and must be followed should unexpected contamination or asbestos (or suspected contamination) be excavated or otherwise discovered b) include details of who will be responsible for implementing the unexpected finds procedure and the roles and responsibilities of all parties involved c) be reviewed by the Site Auditor and interim audit advice or a Section B Site Audit Statement provided certifying that the Unexpected Finds Procedure is appropriate d) be provided to the Planning Secretary and the EPA upon request with a copy of the interim audit advice or Section B Site Audit Statement attached e) be implemented throughout work.	Appendix C

3.7 Updated Environmental Mitigation Measures

Table 3-3: Relevant Updated Environmental Mitigation Measures

UEMM No.	Issue	Mitigation Measure	Section Reference
AH-11	Unexpected Finds	An unexpected finds procedure would be developed and included in the Aboriginal cultural heritage management plan to provide a consistent method for managing any unexpected Aboriginal heritage items discovered during construction, including potential heritage items or objects and a flow chart of the procedure on the findings of skeletal remains.	Appendix B
NAH-4	Unexpected finds including human skeletal remains	An unexpected finds procedure would be developed as part of the CEMP to provide a consistent method for managing any unexpected heritage or archaeological items and unexpected human skeletal remains. Non-Aboriginal awareness training (mitigation measure NAH-3) is to include a flow chart of the procedure on the findings of skeletal remains.	Appendix B
SC-7	Contamination Management	A contaminated land and hazardous materials management plan would be prepared and implemented as part of the CEMP. The plan would include but not be limited to: - procedures for incident management and managing unexpected contamination finds (an unexpected finds protocol).	Appendix C

4.0 Implementation

4.1 Training and Inductions

All site personnel (including sub-contractors) will be inducted on the potential for unexpected and incidental finds occurring, or likelihood of occurrence, within the project area and the required process under this Protocol. Training will include inductions, toolbox talks, pre-starts and targeted awareness training as required.

The project induction will include the following mandatory topics:

- How to identify suspected heritage relics and objects, including both Aboriginal and non-Aboriginal materials
- How to identify potential contamination
- How to identify threatened biodiversity
- Provide guidance on how to appropriately respond to unexpected finds
- Guidance on how personnel are to apply the Protocol on how to appropriately manage human remains, including notification and response procedures.

4.2 Roles and Responsibilities

An outline of responsibilities for site personnel relating to unexpected and incidental finds is included in Table 4-1.

Table 4-1: Roles and Responsibilities

Role	Responsibility
Project Manager (JHG)	• Manage project construction and site activities in line with this Protocol • Report environmental matters to the Project Director • Allocate appropriate contractor resources to meet environmental requirements • Plan and schedule construction while ensuring compliance with regulatory legislation and Protocol • Ensure site personnel are informed of changes to this Protocol e.g. via toolboxes and pre-starts • Notify ARTC/IRPL of incidents that have occurred including near misses • Notify the relevant regulatory agencies where JHG has hold the licence and permit
Environmental and Sustainability Manager	• Assisting Site Supervisor with the implementation of this Protocol • Liaise with specialist consultants and ARTC/IRPL (as directed by Project Manager) • Notify Site Supervisor and or Project Manager of incidents as required

	• Complete incident investigation and reporting (where required) • Updates to this Protocol and management plans (where required) and any changes are communicated to the Project Team.
Site Supervisors (JHG)	• Oversee on-site project management and control • Ensure that the Protocol and procedures are communicated to all site personnel under their management and are being fully implemented on site e.g. via attendance to site inductions, toolboxes and pre-starts • Ensure site personnel are informed of changes to this Protocol e.g. via toolboxes and pre-starts • Stop work as required • Delineate the area • Contact Environmental Manager and Project Manager • Manage access into and out of the site
Environmental Representative (ER)	• Provide environmental advice to the Project management team to assist them with achieving compliance with this Protocol • Undertake regular site inspections to ensure activities are adhering to this Protocol • As considered necessary, recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impacts to the environment and to the community • Monitor the implementation of the Unexpected Finds Protocol to ensure implementation is undertaken in accordance with the terms of the approval
Specialist consultants – Ecologist, Archaeologist, Contaminated Land Expert.	• Advise on the nature of any find, including whether it should be considered “unexpected” in terms of the Planning Approval • Indicate the required exclusion area or “no-go” zone for any nearby works • Advise on any controls that should be put in place to manage the find and the likely impact from the proposed work • Develop any required management plan (or equivalent) for the management of any unexpected find. • Call on other technical specialists as required to assist in any identification and management of the unexpected find. • Assist in the completion of any required notifications in consultation with the Project Environment Team

	• Notify RAPs and LALC's in the event of an unexpected find associated with Aboriginal Heritage or suspected Aboriginal remains.
Site Auditor (Contamination)	• A Site Auditor(s) is to oversee the management of contamination issues. • The Site Auditor is to review all documentation relevant to contamination, including previous site audits, and provide a written opinion on the contamination risk and the appropriateness of the reports and any proposed management measures of the site, including (but not limited to): • the management and monitoring plans in Conditions C12 and C17, where relevant, including any updates or amendments to those plans; • Sampling and Analysis Quality Plan in Condition E154; • Detailed Site Investigation Report(s) in Condition E155; • Remedial Action Plans in Condition E156; • Unexpected Finds Procedure for Contamination in Condition E161; and • Post-remediation validation reports.
Construction Personnel	• Complete an environmental induction before accessing the site • Comply with legislative requirements • Stop work in the event of an unexpected find • Report all unexpected finds or human remains, environmental incidents or potential hazards to area supervisor • Follow environmental plans, protocols and procedures
ARTC / IRPL	• Make notifications to the Planning Secretary under the terms of the MCoA A34 and A35. • Notify and liaise between relevant government agencies in the event that an impact has occurred or is likely to occur in relation to the unexpected find. • Provide written approval to recommence work (as required) • IRPL will need to report any unexpected find identified in accordance with ARTC /IRPL Approvals. • Where an event occurs within the ARTC rail corridor and JHG is operating under the ARTC EPL the event must be reported to both ARTC and IRPL
UGL Regional Link (CRN)	• Where an event occurs within the UGL Regional Link rail corridor and JHG is operating under the UGL Regional Link EPL the event must be reported to both UGL Regional Link and IRPL

4.3 Emergency Contacts

A list of key emergency contacts is provided in Table 4-2.

Table 4-2: Emergency Contacts

Emergency Contact	Contact Details	When to contact
Environment Protection Authority (EPA)	131 555	In the event of confirmed contamination
Department of Planning, Housing and Infrastructure	1300 305 695	In the event of an environmental incident resulting in environmental contamination or harm
Department of Climate Change, Energy, the Environment and Water (Cth)	1800 920 528	In the event of a discovery of actual or potential impacts to Commonwealth listed threatened communities or species.
Biodiversity Conservation Science Division	1300 992 688	In the event of confirmed threatened species and/or TEC
SafeWork NSW	131 050	In the event of confirmed contamination
RSPCA / WIRES	1300 094 737	To report injury to wildlife
Heritage NSW	(02) 9873 8500	In the event of confirmed heritage item or suspected human remains
NSW Enviro Line	131 555	In the event of unexpected finds or suspected heritage finds or human remains
NSW Police	(02) 6922 2599 (Wagga Wagga District Command) 000 (emergency only)	In the event of suspected human remains

4.4 Review

This Protocol will be reviewed as needed in response to an unexpected find, audit finding, incident or near miss.

Appendix A - Unexpected Finds Procedure - Biodiversity

Introduction

This procedure describes how to manage unexpected finds associated with threatened flora species, fauna species and/or Threatened Ecological Community (TEC) during works. This procedure has been prepared to meet the requirements of the Conditions of Approval, particularly CoA A17.

This Procedure is applicable to any physical work for the purpose of the CSSI including construction and low impact work (LIW) but not including operational maintenance work, and will support the Construction Environmental Management Plan (CEMP) and relevant Sub-Plan.

Relevant Legislation and Guidelines

Legislation and guidelines relevant to this procedure are detailed in Section 3.5.

Reporting

A record of the unexpected finds will be maintained by the Contractor and will include the following details as a minimum:

- Date, time, and location of unexpected find
- Details of discovery site (GPS points, description of vegetation, soil types, microhabitat and/or any other features present)
- Photographs of items observed
- Details regarding assessment by the Environmental and Sustainability Manager (and advice from suitably qualified ecologist or specialist)
- Actions undertaken before work recommenced
- Relevant sign off on approval to recommence works.

If an Unexpected Find is also an incident as defined the MCoA, all Incident Notification and Reporting must follow SSI -9406 CoA A34 & A35 and EPBC 2018/8233 CoA 35 & 36 (where required) including the requirements set out in Appendix A of the Infrastructure Approval SSI-9406.

Unexpected Finds Procedure- Biodiversity

In the event an unexpected, threatened flora or fauna species or TEC is encountered during works, the procedure outlined below must be followed.

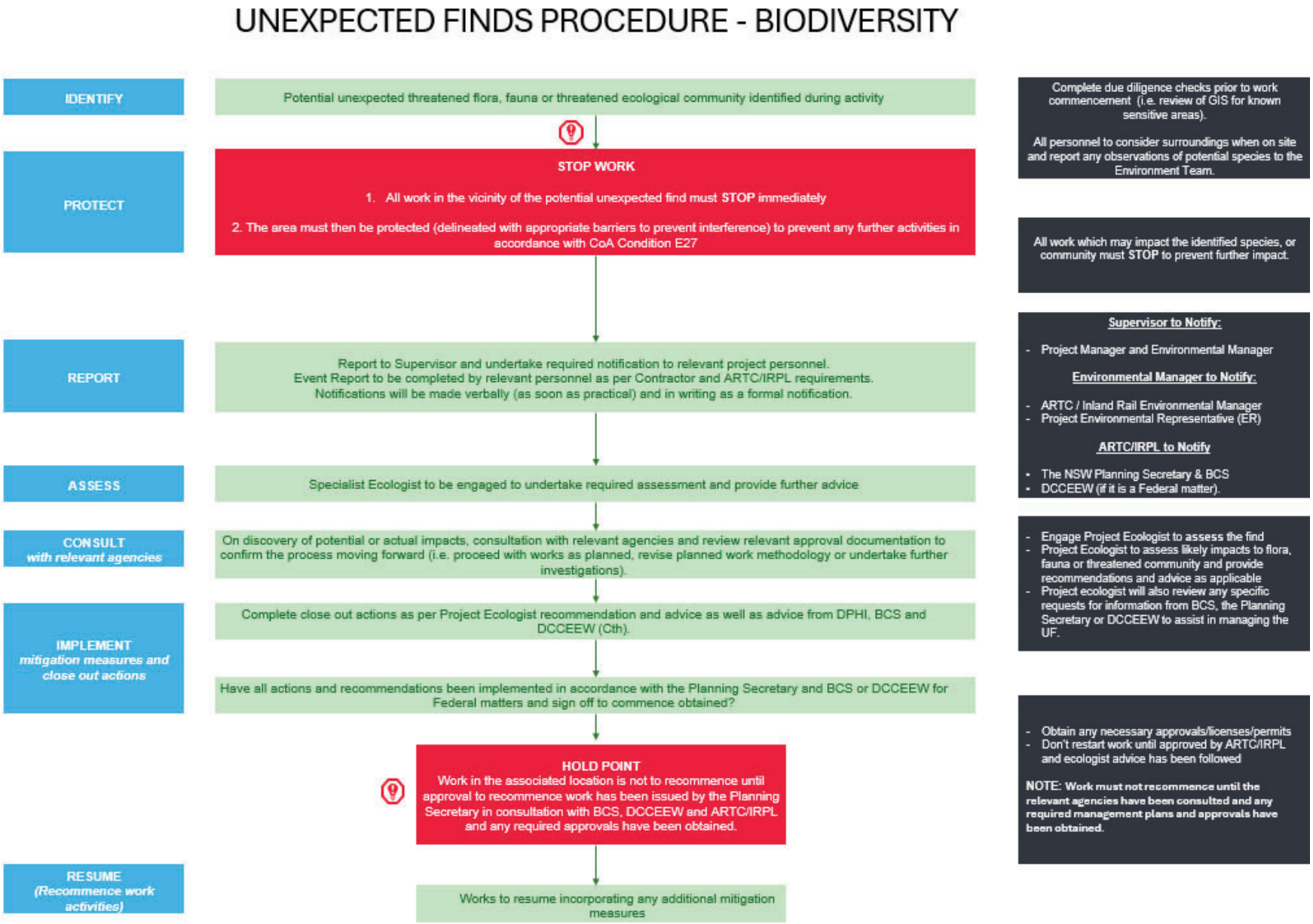


Figure A1: Unexpected Finds Procedure, Biodiversity

JOHN HOLLAND

UNEXPECTED FINDS

Behind the Dunny Door Series

WHAT IS IT

An unexpected find is the discovery of any previously unidentified or otherwise unforeseen item during planning such as threatened flora, fauna or Threatened Ecological Communities, whilst completing activities.

WHY ARE THEY IMPORTANT



IF YOU MAKE AN UNEXPECTED FIND



IF YOU BELIEVE YOU HAVE MADE AN UNEXPECTED FIND, PLEASE TELL YOUR SUPERVISOR/LEADING HAND IMMEDIATELY

EXAMPLES OF THREATENED SPECIES THAT MAY BE ENCOUNTERED:

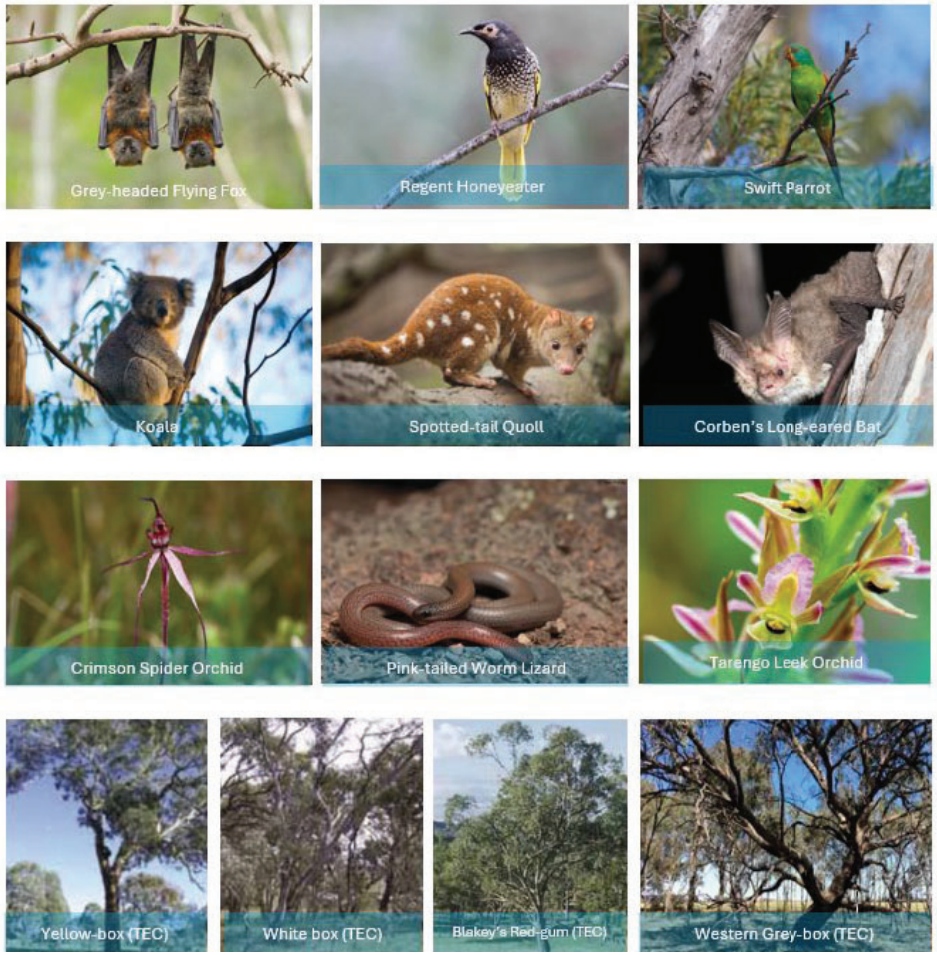


Figure A2: Unexpected Finds, Biodiversity

Appendix B - Unexpected Finds Procedure – Heritage and Human Remains

Introduction

This procedure describes how to manage unexpected encounters associated with both Aboriginal and non-Aboriginal heritage items, as well as suspected human remains, during works. This procedure has been prepared to meet the requirements of the CoA, specifically CoA A17, E143 and E144 and environmental mitigation measures AH-11 and NAH-4.

This Procedure is applicable to any physical work for the purpose of the CSSI including construction and low impact work (LIW) but not including operational maintenance work and will support the Construction Environmental Management Plan (CEMP) and relevant Sub-Plan.

In accordance with section 3.2 and CoA C23(f), this document has been prepared by suitably qualified person with over 20 years' experience in the field of Aboriginal and Non-Aboriginal Heritage. These person/s have experience on similar projects to that of I2S and hold the relevant qualifications (Bachelor of Archaeology and Pre-History, with Honours) required to act as SQE's in the making and endorsement of this document.

Relevant Legislation and Guidelines

Legislation and guidelines relevant to this procedure are detailed in Section 3.5.

Reporting

A record of the unexpected finds will be maintained by the Contractor (in accordance with Appendix A of the SSI- 9406) and will include the following details:

- Date, time, location, written description and photographic evidence of the unexpected find
- Details regarding assessment by the Environment and Sustainability Manager (and advice from suitably qualified heritage specialist and/or archaeologist)
- Actions undertaken before work recommenced
- Relevant sign off on approval to recommence works.

If an Unexpected Find is also an incident as defined the MCoA, all Incident Notification and Reporting must follow CoA A34 and A35 including the requirements set out in Appendix A of the Infrastructure Approval SSI-9406.

Unexpected Finds Procedure – Heritage and Human Remains

Figure B1 below provides an overview of the procedure to be implemented in the event that any newly observed cultural material or suspected human remains are identified during the LIW and construction phases of the project. Figures B2 and B3 provide a detailed breakdown of steps to be undertaken in the event a potential Heritage items or suspected human remains are uncovered during work.

The recording of the item(s) and any proposed mitigation measures must be completed by a heritage specialist with participation of the Registered Aboriginal Party (RAP) and/or Local Aboriginal Land Council (LALC) representatives and Heritage NSW (where appropriate). Avoidance of newly identified Aboriginal objects is always the preferred heritage outcome where feasible. Mitigation measures will be employed to ensure that impacts are avoided or where it can be reasonably demonstrated that avoidance is not possible that mitigation measures will be put in place to reduce impacts as much as possible. All sites that cannot be avoided must be assessed for their archaeological significance prior to impacts in accordance with best practice heritage guidelines.

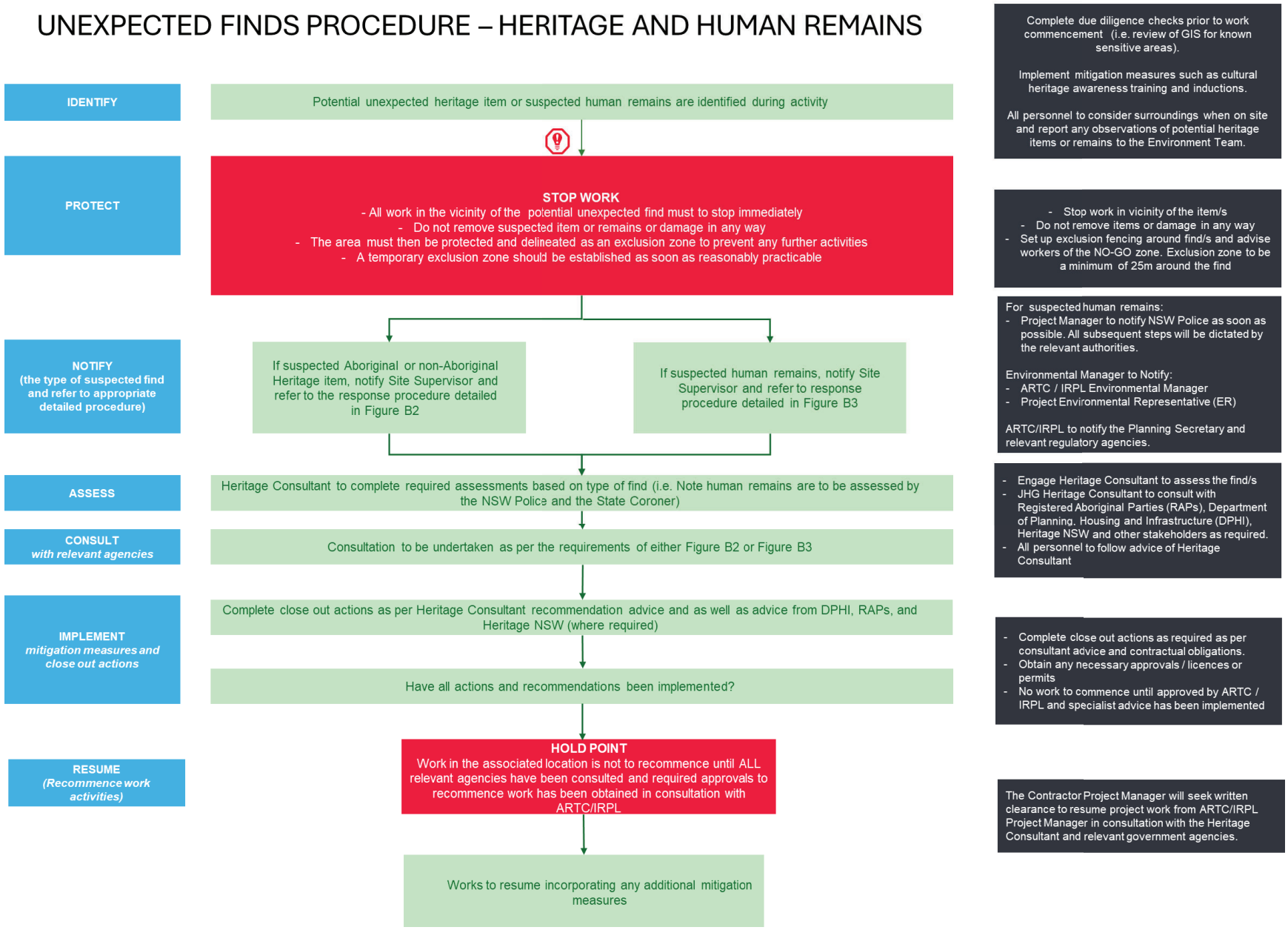


Figure B1 Unexpected Finds Procedure – Heritage and Human Remains

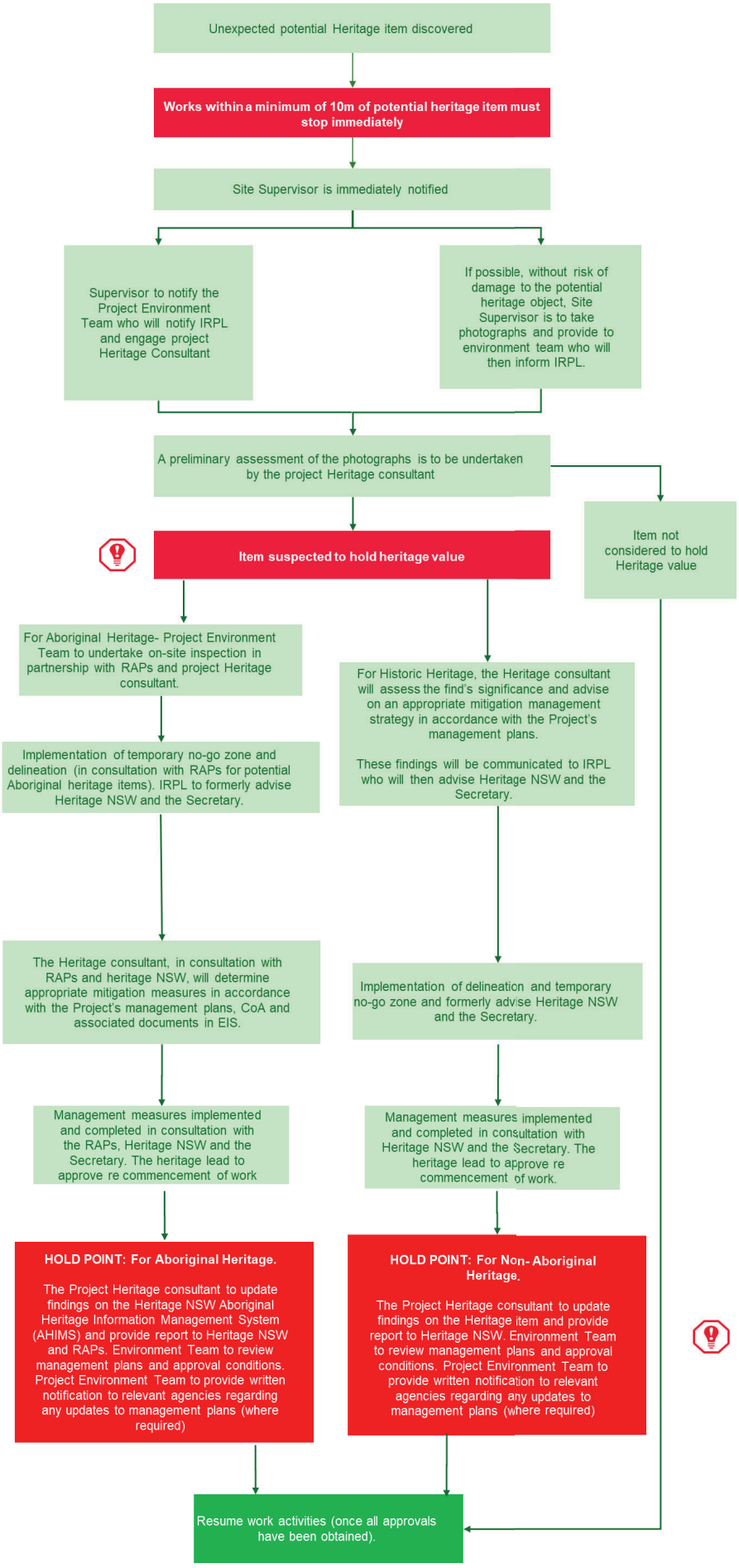


Figure B2 Unexpected Finds Procedure – Heritage Item

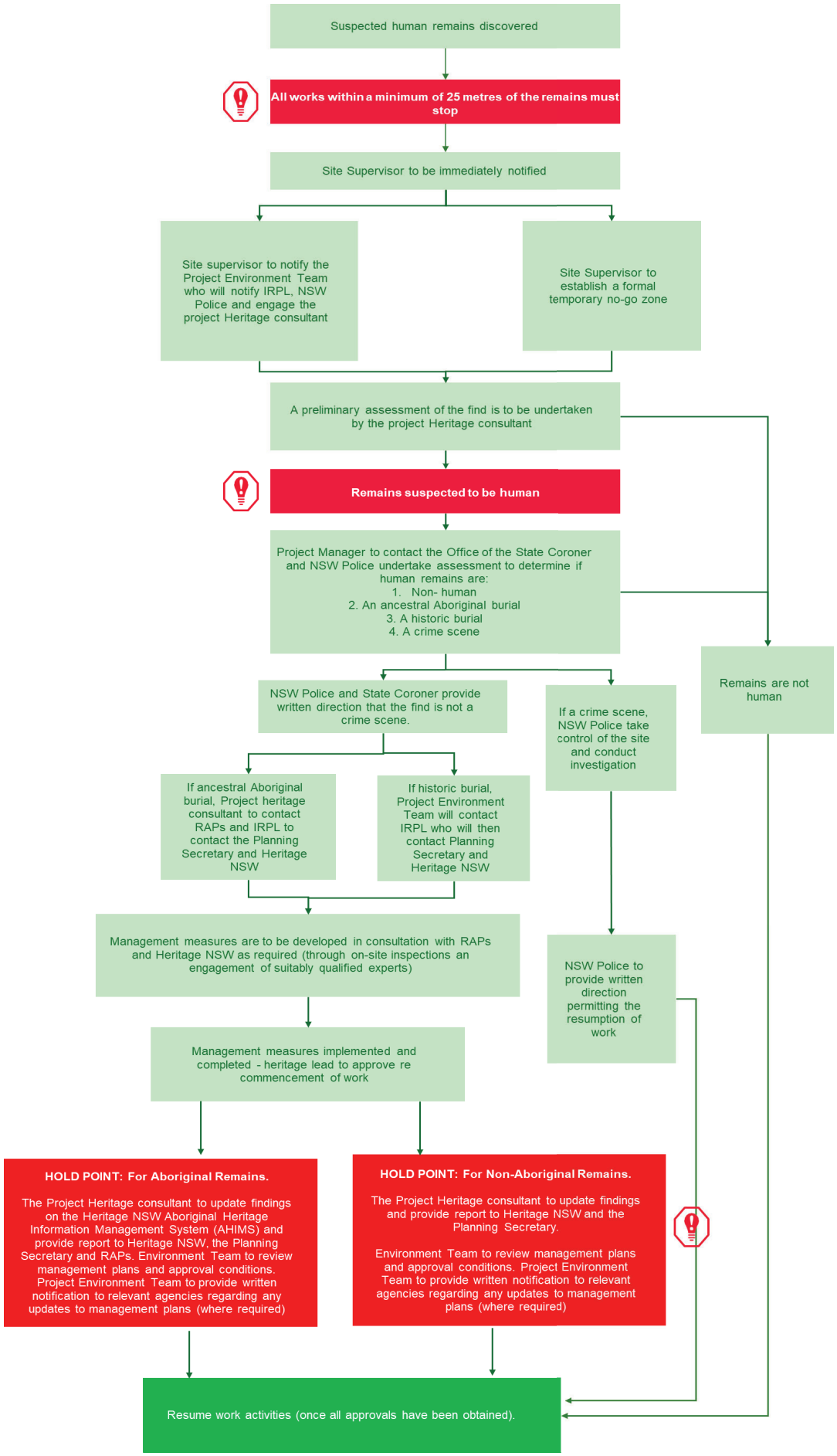


Figure B3 Unexpected Finds Procedure – Human Remains



Figure B4: Unexpected Finds, Heritage

Appendix C - Unexpected Finds Procedure – Contamination

Introduction

This procedure describes how to manage unexpected encounters of land that contains (or is suspected of containing) substances that are actually (or potentially) hazardous to health or the environment.

Contaminants may include:

- Hydrocarbons
- Per- and polyfluoroalkyl substances (PFAS)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polychlorinated biphenyls (PCBs)
- Pesticides
- Heavy metals such as lead, arsenic, cadmium and mercury
- Asbestos containing material (ACM)
- Biologically pathogenic materials and waste
- Acid sulphate soils (ASS).

This procedure has been prepared to meet the requirements of the CoA, specifically CoA A17 and E161 and environmental mitigation measure SC-7.

This Procedure is applicable to any physical work for the purpose of the CSSI including construction and low impact work (LIW) but not including operational maintenance work, and will support the Construction Environmental Management Plan (CEMP) and relevant Sub-Plan.

Relevant Legislation and Guidelines

Legislation and guidelines relevant to this procedure are detailed in Section 3.5.

Reporting

A record of the unexpected contamination finds will be maintained by the Contractor and will include the following details as a minimum:

- Date, time, location and photographic evidence of unexpected find, including depth
- Details regarding assessment by Environment Manager (and advice from suitably qualified contamination specialist)
- Where remediation of the contamination is recommended by the contamination specialist and supported by the contaminated site auditor, details on the remediation will be captured and reported in accordance with the *Contaminated Land management Act* and Conditions E151-160.
- All waste will be tracked in accordance with the *Protection of the Environment Operations Act 1997 (POEO Act)* and Condition E165-166. Transport and disposal undertaken in accordance with the Protection of the Environment Operations (Waste) Regulation 2005

and the Waste Classification Guidelines (EPA 2014). All contractors transporting waste from the site must be licenced to transport the identified type of waste and must only dispose of the waste at a facility that is licenced to accept the waste classification and volume.

If an Unexpected Find is also an incident as defined the MCoA, all Unexpected Find is also an incident as defined the MCoA, all Incident Notification and Reporting must follow CoA A34 and A35 including the requirements set out in Appendix A of the Infrastructure Approval SSI-9406.

Unexpected Finds Procedure – Contamination, Hazards and Contaminated Land

In the event an unexpected contamination find is encountered during works, the procedure outlined below must be followed. The Unexpected Finds Procedure for Contamination, Hazards and Contaminated Land (see Appendix C) must be included and implemented throughout works and construction.

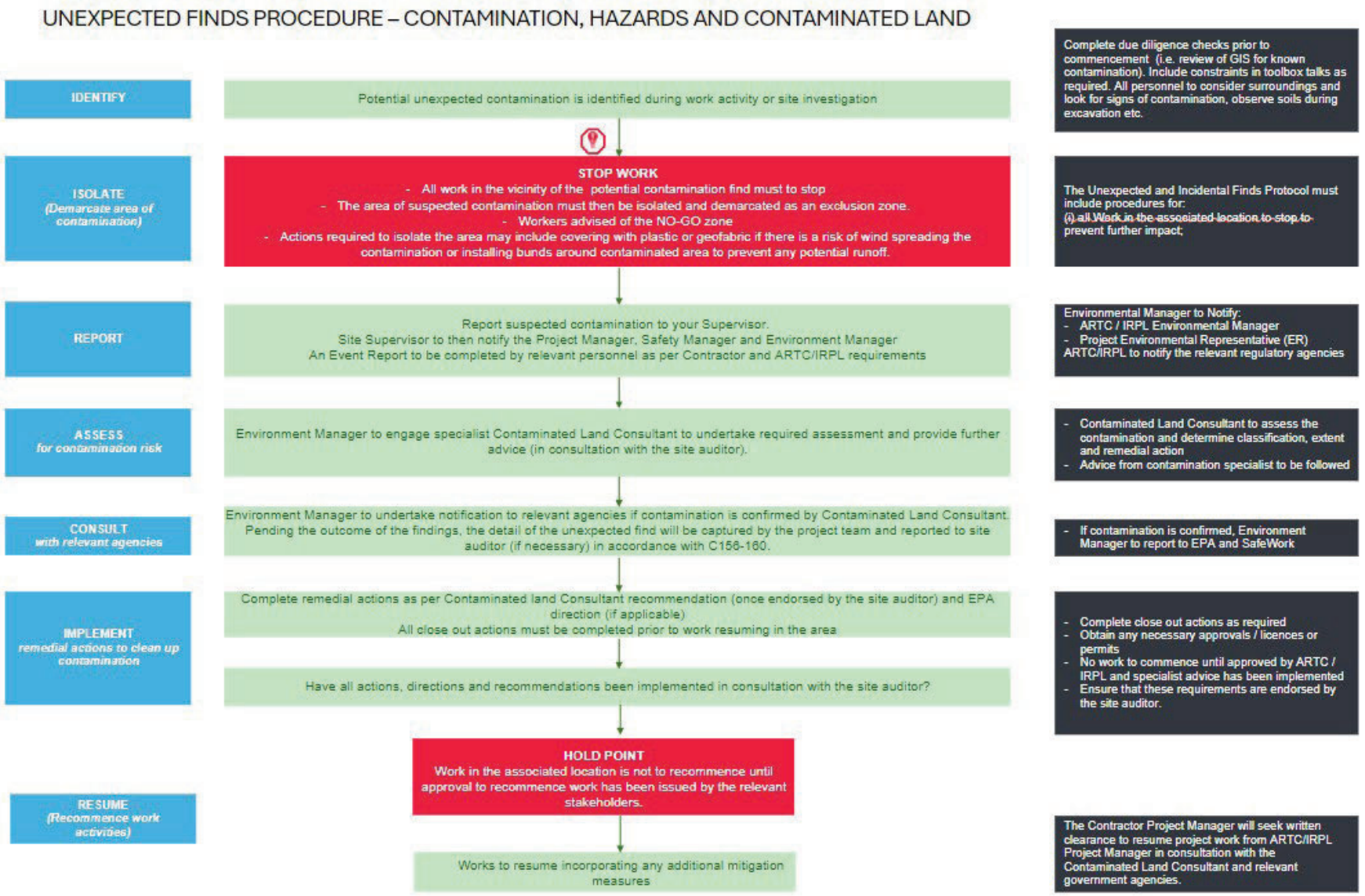


Figure C1: Unexpected Finds Procedure, Contaminated Land

JOHN HOLLAND

UNEXPECTED FINDS

Behind the Dunny Door Series

WHAT IS IT

An unexpected find is the discovery of any previously unidentified or otherwise unforeseen item during planning, such as contamination

WHY ARE THEY IMPORTANT



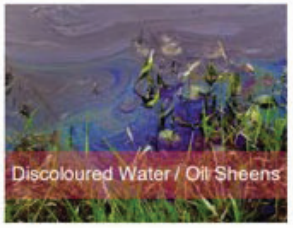
IF YOU MAKE AN UNEXPECTED FIND



IF YOU BELIEVE YOU HAVE MADE AN UNEXPECTED FIND, PLEASE TELL YOUR SUPERVISOR/LEADING HAND IMMEDIATELY

EXAMPLES OF CONTAMINATION THAT MAY BE ENCOUNTERED:



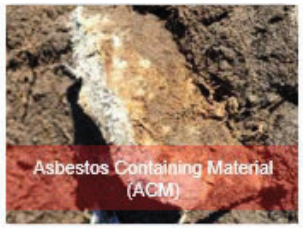












Unexpected finds can include but not limited to as being:

- Distinctively different to other soils on-site – both in texture, colour, smell and moisture content
- Underground tanks and structures (e.g. former fuel tanks)
- Appear to be concentrated to a localised area (i.e. waste burial pits)
- Stained, oil soaked or containing a petroleum sheen.
- Includes other products such as batteries etc.
- May contain offensive odours, including sulphur-based leachate impacts or sewerage, including acid sulfate soils
- Buried building products and debris/waste or other anthropogenic materials
- May contain potential asbestos containing materials
- May contain buried animal carcasses or evidence of decomposition including potential remains.

Figure C2: Unexpected Finds, Contamination

Appendix D - Interim Audit Advice

3 December 2024

John Holland Pty Ltd
Level 5, 15 Bourke Road
Mascot, NSW, 2020

Ref: E081

Attention: Hugh Goymour

Sent via Email: Hugh.Goymour@jhg.com.au

Dear Hugh,

Re: Interim Audit Advice – Illabo to Stockinbingal (I2S) Inland Rail Unexpected Finds Procedure for Contamination

Introduction

I have been engaged by John Holland Pty Ltd to conduct a site audit of the above site in accordance with the NSW Contaminated Land Management Act 1997.

The Illabo to Stockinbingal Inland Rail Project (I2S) is a new section of rail corridor (42.5km) connecting Illabo to Stockinbingal in NSW. The project forms part of the national Inland Rail program to deliver a direct interstate freight rail corridor between Melbourne and Brisbane via central -west NSW and Toowoomba Qld.

The I2S includes installation of 39km of new single track, removal of redundant sections of track and upgrade of existing track for tie-in points to the existing rail at Illabo and Stockinbingal, a crossing loop and maintenance siding of around 2.2 km long and track turn-outs at eight locations.

The project is state significant infrastructure (SSI-9406) and has been assessed under section 5.13 of the Environmental Planning and Assessment Act 1979 (EP&A Act), requiring an environmental impact statement[1] (EIS). Approval was issued by the Minister for Planning and Public Spaces on 4 September 2024 subject to conditions of which Conditions E151-161 relate to contamination.

The conditions of approval (E161) require an unexpected finds procedure for contamination (UFPfC) to be prepared and implemented prior to commencement of work. The condition also states that the UFPfC must be reviewed and approved by a site auditor.

This interim audit advice letter (IAA) has been prepared to provide my written opinion on the appropriateness of an unexpected finds procedure for contamination (UFPfC).

Scope

I have been provided with the following document:

- I2S | Unexpected and Incidental Finds Protocols and Procedures. Environmental Management Document 5-0019-220-PES-00-PR-0001. Inland Rail I2S Project/John Holland.

The Unexpected and Incidental Finds Protocol has been developed to detail actions to be taken should unexpected or incidental finds occur in relation to (1) threatened species or threatened ecological communities, (2) contaminated hazards or contaminated land, and (3) aboriginal cultural heritage and non-aboriginal heritage and human remains.

[1] Illabo to Stockinbingal Environmental Impact Statement (EIS) (ARTC/Inland Rail). Dated 29 August 2022.

It is reasonable and practical to combine the various unexpected finds procedures into one document, however, my review and conclusions documented in this IAA apply only to aspects of the document relating to contamination, referred to as the UFPfC, included as Appendix C to the above document.

The UFPfC was reviewed in conjunction with the following:

- EIS Technical Paper 14 – Contaminated Land Assessment. Ref: 2-0001-220-EEC-00-RP-0003.
- EIS Chapter 20: Soils and Contamination.
- I2S Mitigation Measures (April 2024)
- Conditions of Approval for Inland Rail – Illabo to Stockinbingal SSI-9406.

Summary of the UFPfC

The UFPfC provides examples of indicators of contamination that may typically be encountered that may not have been identified during the contaminated land assessment. These include:

- Distinctively different to other soils on-site – both in texture, colour, smell and moisture content
- Underground tanks and structures (e.g. former fuel tanks)
- Appear to be concentrated to a localised area (i.e. waste burial pits)
- Stained, oil soaked or containing a petroleum sheen.
- Other products such as batteries etc.
- May contain offensive odours, including sulphur-based leachate impacts or sewage, including acid sulfate soils
- Buried building products and debris/waste or other anthropogenic materials
- May contain potential asbestos containing materials
- May contain buried animal carcasses or evidence of decomposition including potential remains.

The UFPfC instructions are to

1. Stop work.
2. Cordon off the area.
3. Engage contaminated land consultant to deal with the relevant issue (in consultation with the site auditor).
4. Complete remedial actions as recommended by environmental consultant (and as endorsed by site auditor).

The UFPfC also lists requirements for managing waste encountered during unexpected finds management.

The overarching *Unexpected and Incidental Finds Protocols and Procedures* identifies roles and responsibilities for implementation of the UFPfC and of particular note is the requirement for site supervisors to "*ensure that the Protocol and procedures are communicated to all site personnel under their management and are being fully implemented on site e.g. via attendance to site inductions, toolboxes and pre-starts*."

The UFPfC will be implemented for the duration of the low impact works and by inclusion in the CEMP for construction.

Auditor Opinion

An unexpected finds protocol is a relatively straightforward set of instructions that set out the actions to be undertaken under certain circumstances. In this case, the UFPfC forms an integral part of both the low impact work and the construction (by inclusion in the CEMP), and is based on observations of contamination such as visible ACM, underground tanks, staining/odours etc.. If properly executed, it should lead to the appropriate management of unexpected finds of contamination. The key to successful implementation is ensuring on-site staff are trained in identifying these issues and are aware of the UFPfC.

The project site is predominantly greenfield although some low to moderate potential areas of environmental concern (AEC) have been identified along the project site. These areas will be subject to investigation (Item SC-4 of the Mitigation Measures) and the UFPfC does not supersede the requirement for site investigations within these AEC, rather it will complement the site investigation process and once investigations are complete, will continue to be implemented during construction by inclusion in the CEMP.

Conclusion

I confirm that I have reviewed the UFPfC and in the context of the I2S project, find this to be appropriate.

* * *

Consistent with the NSW EPA requirement for staged 'signoff' of sites that are the subject of progressive assessment, remediation, and validation, I advise that:

- This advice letter does not constitute a Site Audit Report or Site Audit Statement and does not pre-empt the conclusions that will be made at the conclusion of the site audit process.
- At the completion of the audit, I will provide a Site Audit Statement and supporting documentation.
- This interim audit advice will be documented in the Site Audit Report.

Yours faithfully,
Envirocene Pty Ltd



Julie Evans
NSW EPA Accredited Site Auditor 1003

Appendix C Aboriginal Heritage detailed mapping



INLAND RAIL

Heritage

Illabo to Stockinbingal

MAP 1 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density



Coordinate System: GDA2020 MGA Zone 55

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Date: 6/05/2025
Author: JH GIS (PH)
Approver: ###
Paper: A3
Scale: 1:3,000
Rev: A

Data Sources: IRPL, JH



INLAND RAIL

Heritage

Illabo to Stockinbingal

MAP 2 OF 28

Legend

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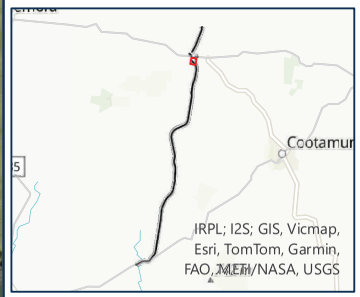
Heritage

Illabo to Stockinbingal

MAP 3 OF 28

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INLAND RAIL

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Illabo to Stockinbingal

MAP 4 OF 28

Legend

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INLAND RAIL

Heritage

Illabo to Stockinbingal

MAP 5 OF 28

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INLAND RAIL

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Illabo to Stockinbingal

MAP 6 OF 28

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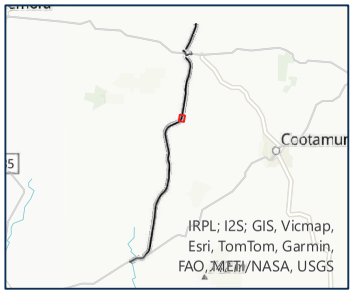
Heritage

Illabo to Stockinbingal

MAP 7 OF 28

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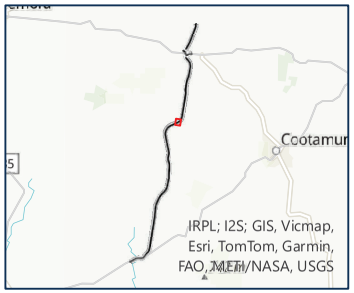
Heritage

Illabo to Stockinbingal

MAP 8 OF 28

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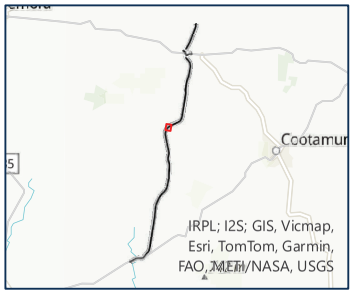
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Illabo to Stockinbingal

MAP 9 OF 28

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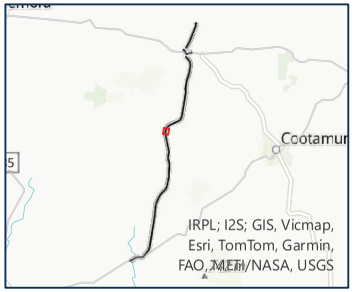
Heritage

Illabo to Stockinbingal

MAP 10 OF 28

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INLAND RAIL

Heritage

Illabo to Stockinbingal

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Date: 6/05/2025
Author: JH GIS (PH)
Approver: ###
Paper: A3
Scale: 1:3,000
Rev: A

Data Sources: IRPL, JH



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Heritage

Illabo to Stockinbingal

MAP 12 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density



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Rev: A



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Illabo to Stockinbingal

MAP 13 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
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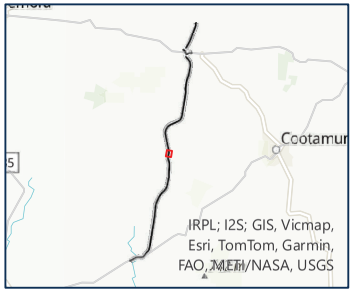
Heritage

Illabo to Stockinbingal

MAP 14 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density

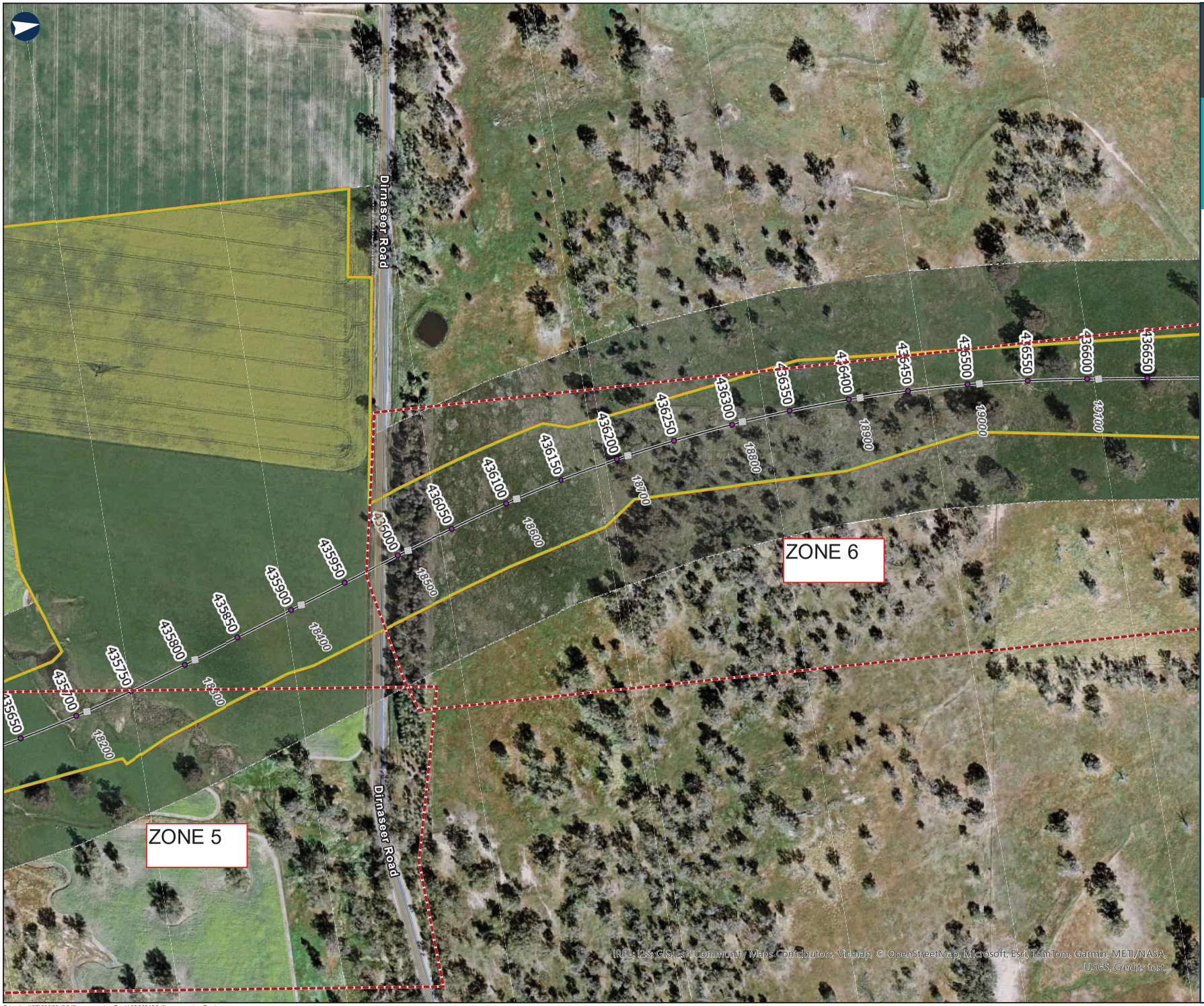


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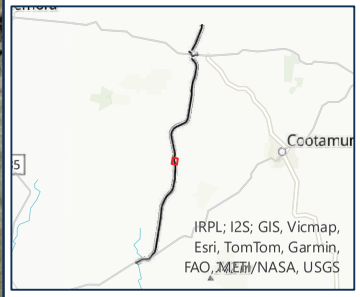
Heritage

Illabo to Stockinbingal

MAP 15 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density

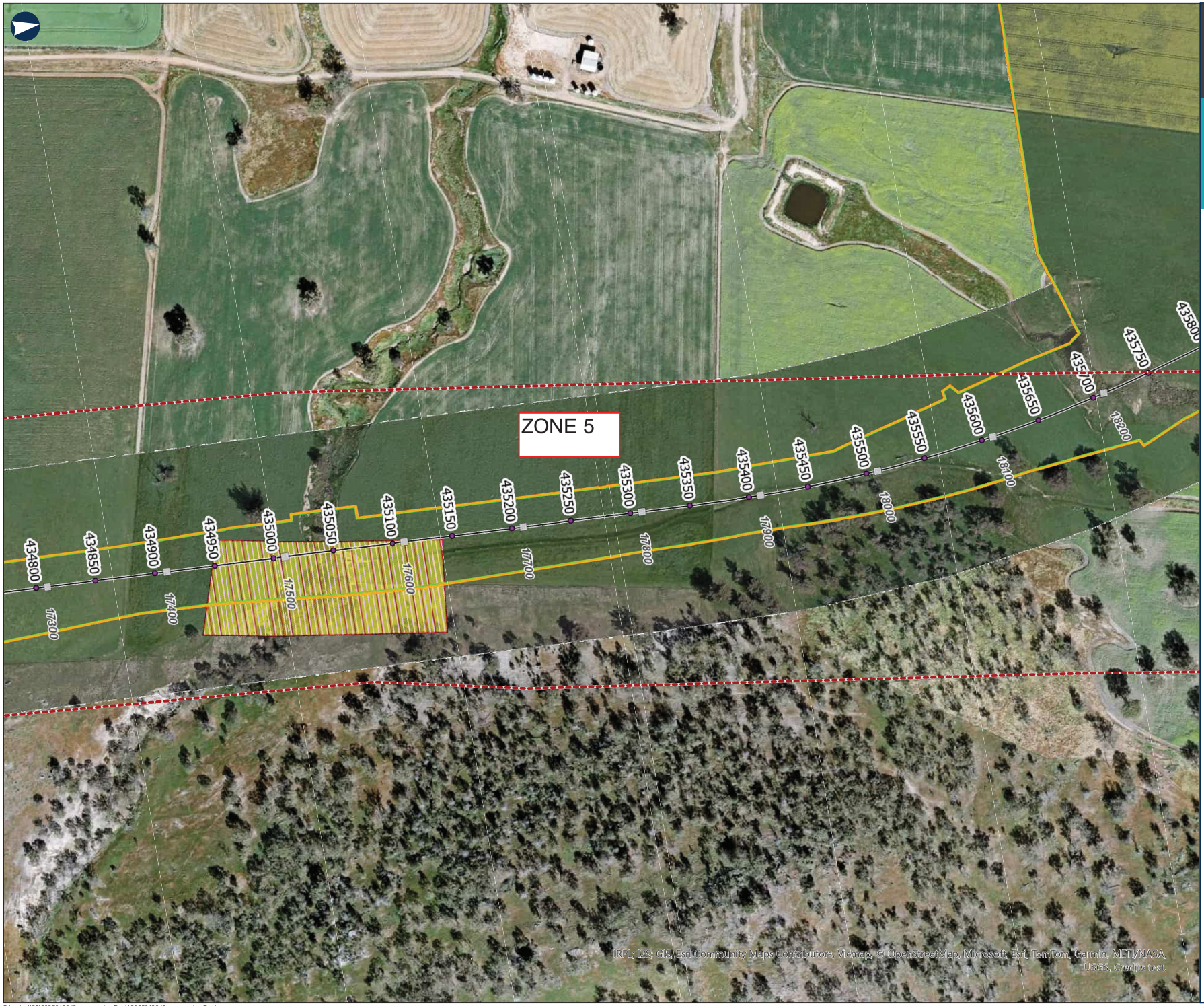


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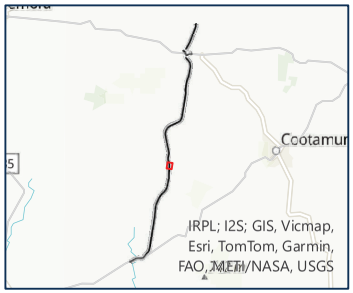
Heritage

Illabo to Stockinbingal

MAP 16 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density

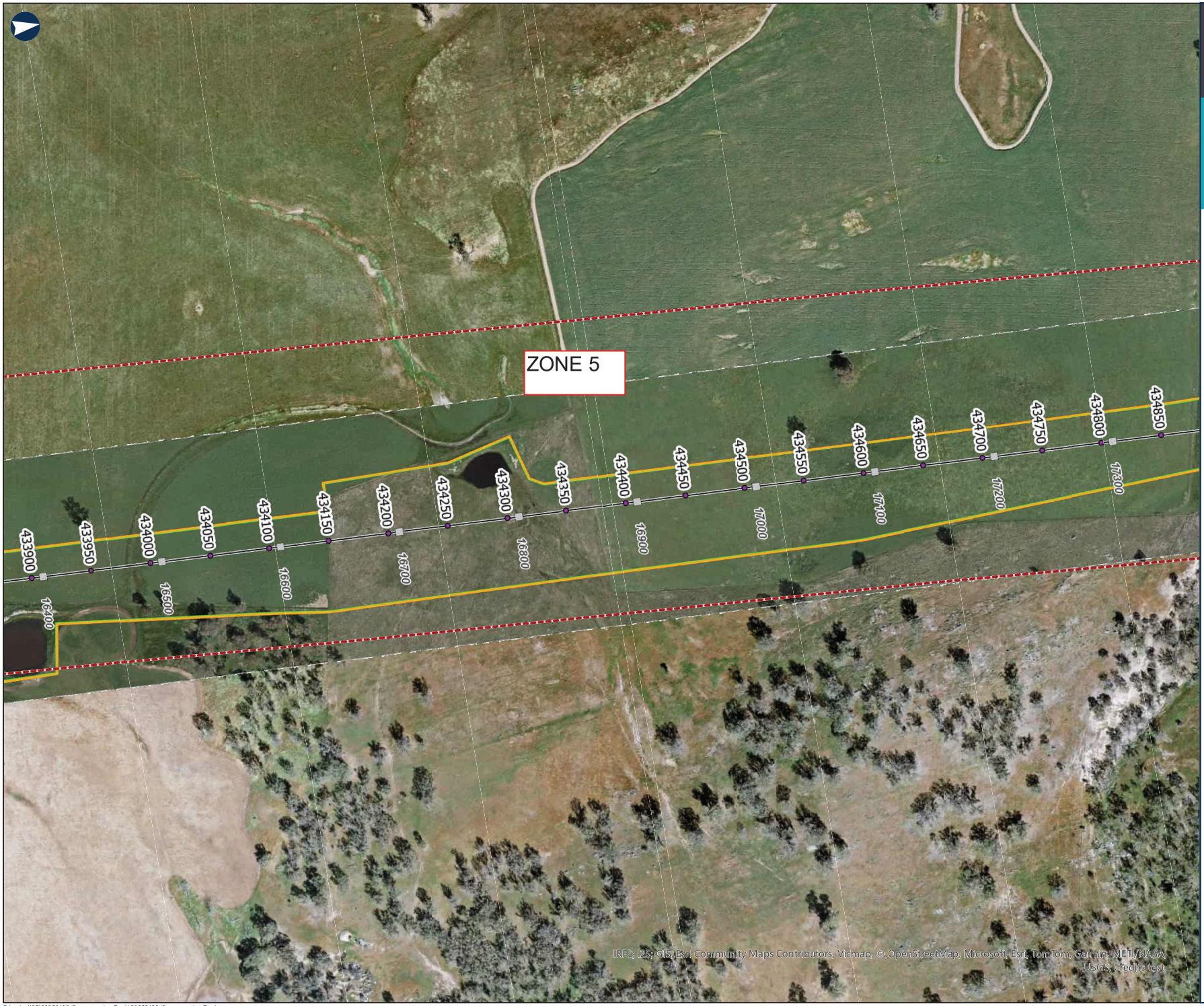


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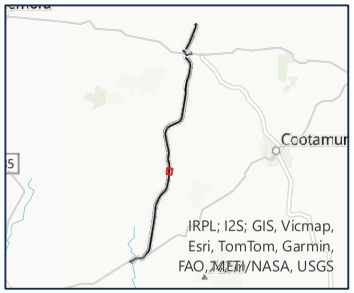
Heritage

Illabo to Stockinbingal

MAP 17 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
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- Areas of Predicted Sensitivity
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- PAD Low Density

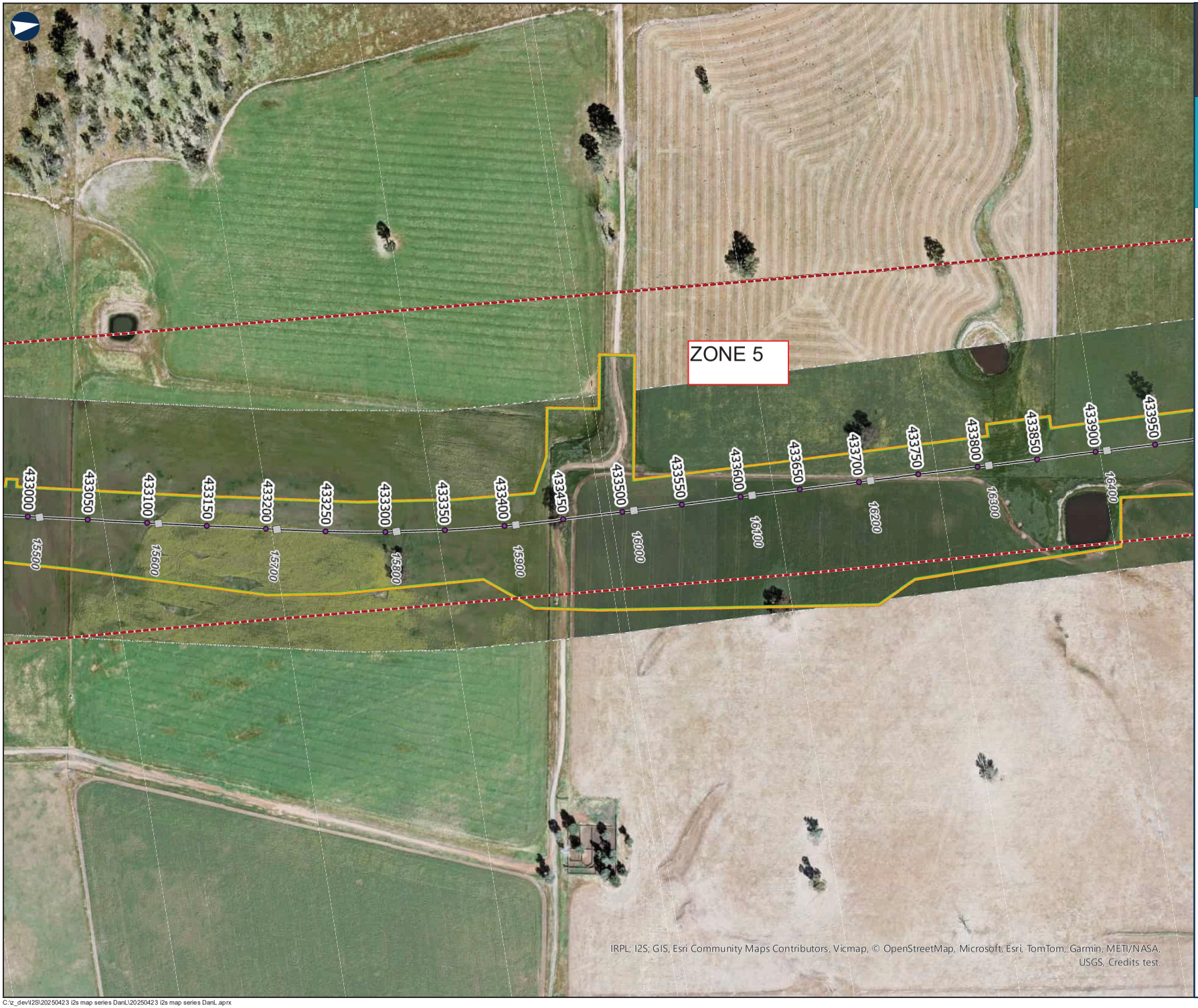


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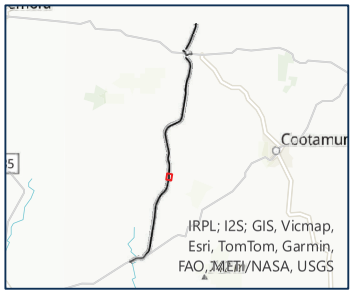
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Illabo to Stockinbingal

MAP 18 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
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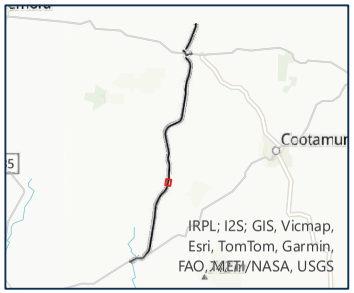
Heritage

Illabo to Stockinbingal

MAP 19 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
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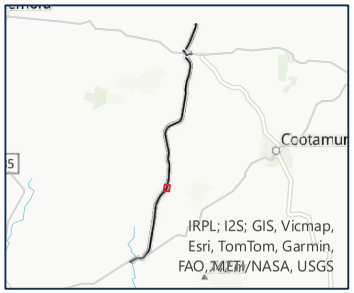
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Illabo to Stockinbingal

MAP 20 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
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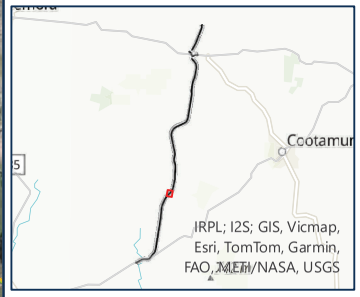
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Illabo to Stockinbingal

MAP 21 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
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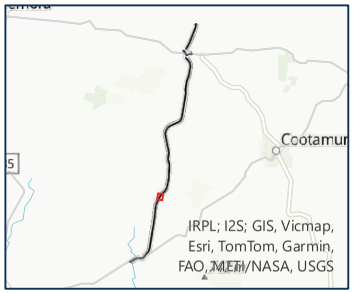
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Illabo to Stockinbingal

MAP 22 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
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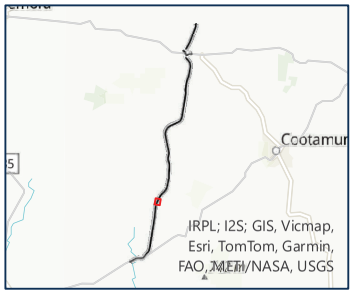
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Illabo to Stockinbingal

MAP 23 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
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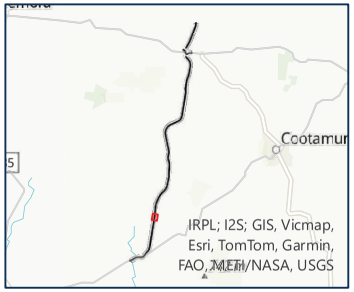
Heritage

Illabo to Stockinbingal

MAP 24 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
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- PAD Highdensity
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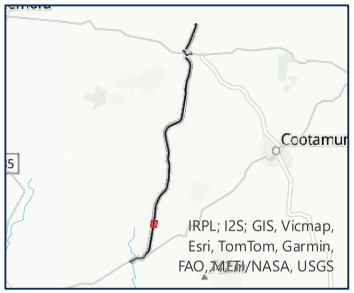
Heritage

Illabo to Stockinbingal

MAP 25 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
- Ring Tree
- Historical Sites
- Indigenous Sites
- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
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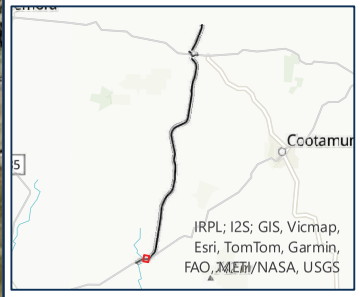
Heritage

Illabo to Stockinbingal

MAP 26 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
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INLAND RAIL

Heritage

Illabo to Stockinbingal

MAP 27 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
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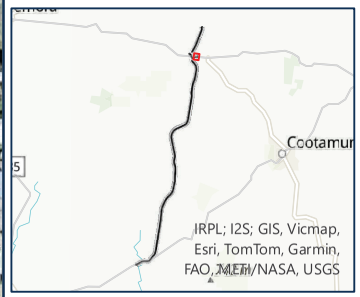
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Illabo to Stockinbingal

MAP 28 OF 28

Legend

- Indigenous Survey Zones
- CIZ - Project WIP - Utility
- CIZ - Project WIP - Construction
- CIZ - Project WIP - Outer Extents
- Chainage
- Rail Alignment
- AHIMS Sites Modified
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- Indigenous Survey Zones
- Areas of Aboriginal Archaeological Potential
- Areas of Predicted Sensitivity
- PAD Highdensity
- PAD Low Density



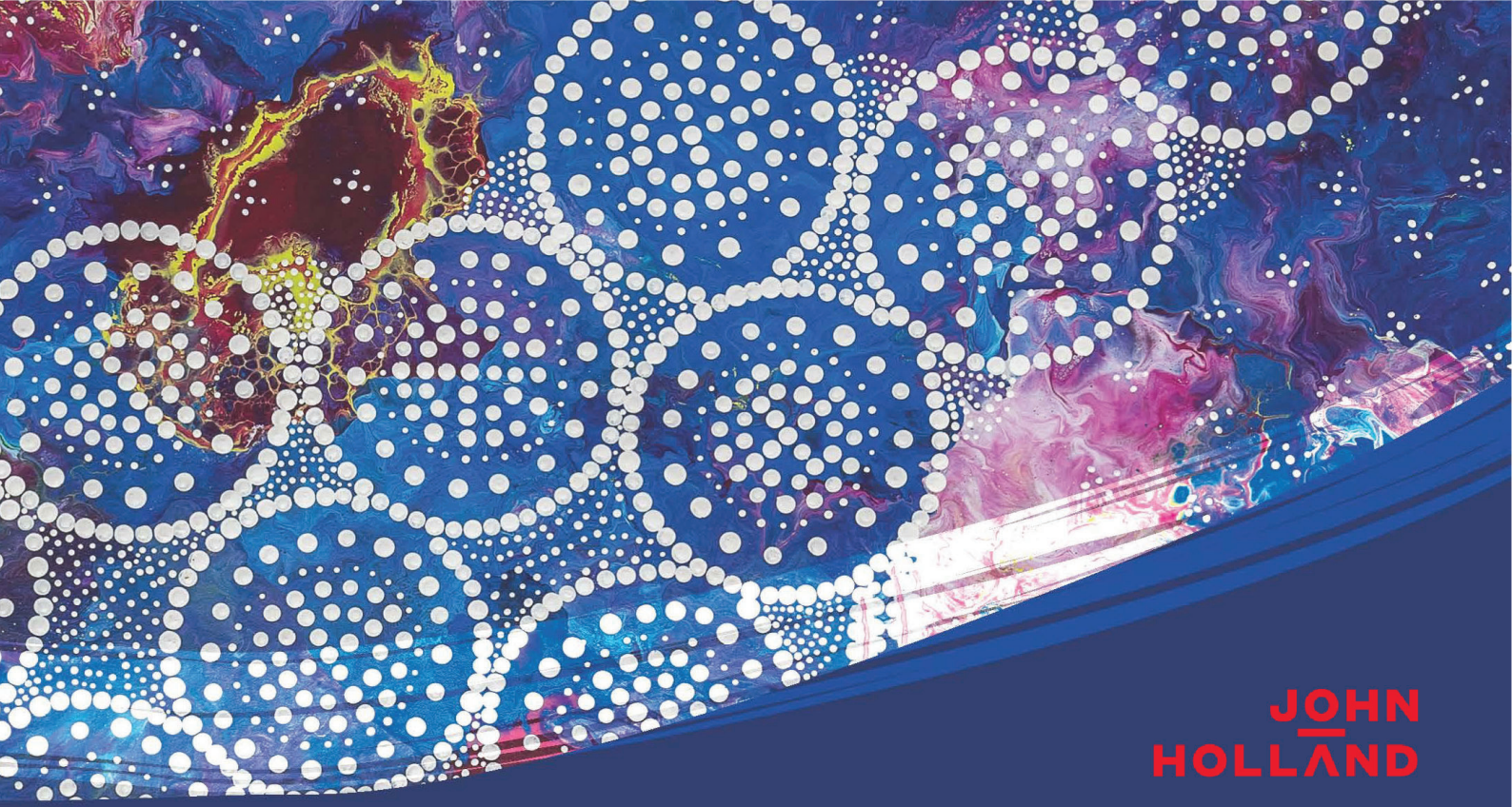
Coordinate System: GDA2020 MGA Zone 55

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Date: 6/05/2025
Author: JH GIS (PH)
Approver: ###
Data Sources: IRPL, JH

Paper: A3
Scale: 1:3,000
Rev: A

Appendix D Copy of the approved Aboriginal survey and test excavation methodology



JOHN HOLLAND

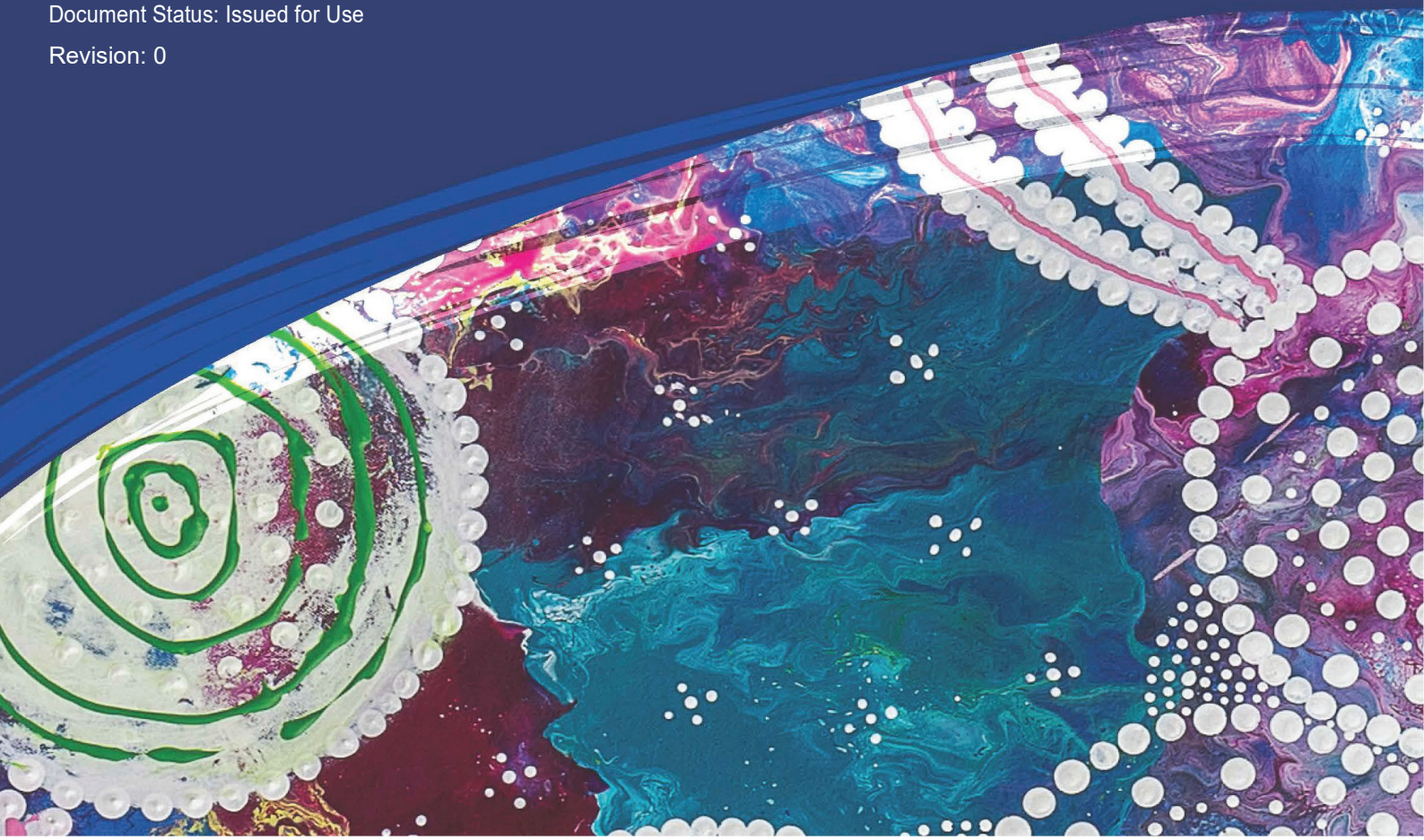
INLAND RAIL
ILLABO TO STOCKINBINGAL PROJECT

Additional Survey and Test Excavation Methodology

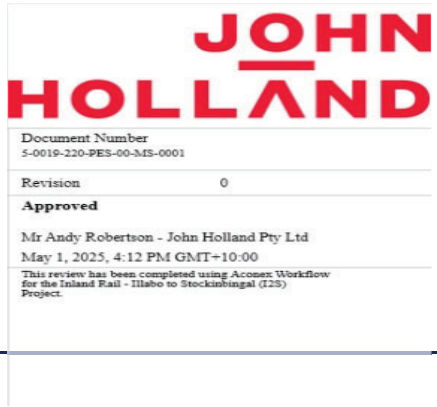
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Document Owner	Andy Robertson
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Name	Andy Robertson
Title	Environment and Sustainability Manager
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ILLABO TO STOCKINBINGAL RAIL CORRIDOR PROJECT

Additional Survey and Test Excavation Methodology

LGAs: Cootamundra-Gundagai and Junee

April 2025

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Apex Archaeology would like to acknowledge the Aboriginal people who are the traditional custodians of the land in which this project is located. Apex Archaeology would also like to pay respect to Elders both past and present.

Document Control

The following register documents the development and issue of the document entitled 'Inland Rail, Illabo to Stockinbingal: Draft Additional Survey and Test Excavation Methodology', prepared by Apex Archaeology in accordance with its quality management system.

Revision	Prepared	Reviewed	Comment	Issue Date
1 – Draft	Jenni Bate	Leigh Bate and Fiona Leslie, Mountains Heritage	Issue for client review	20 Dec 2024
2 – Draft	Jenni Bate	IRPL	Issue for client review	25 Feb 2025
3 – Draft	Jenni Bate	IRPL	Issue for RAP review	21 Mar 2025
4 – Final	Jenni Bate	RAPs	Issue of final	28 April 2025

GLOSSARY OF TERMS

Aboriginal Object	An object relating to the Aboriginal habitation of NSW (as defined in the NPW Act), which may comprise a deposit, object or material evidence, including Aboriginal human remains.
ACHA	Aboriginal Cultural Heritage Assessment
ACHAR	Aboriginal Cultural Heritage Assessment Report
ACHCRs	The DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010*
ACVP	Aboriginal Cultural Values Plan
AHIMS	Aboriginal Heritage Information Management System maintained by Heritage NSW, detailing known and registered Aboriginal archaeological sites and Aboriginal Places within NSW
BP	Before Present, defined as before 1 January 1950.
Code of Practice	The DECCW September 2010 *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*
Consultation	Aboriginal community consultation in accordance with the DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010.*
CoA	Conditions of Approval
CSSI	Critical State Significant Infrastructure
DCCEEW	Department of Climate Change, Energy, the Environment, and Water
EIS	Environmental Impact Statement
GSV	Ground Surface Visibility
Heritage NSW	Heritage NSW in the Department of Climate Change, Energy, the Environment, and Water, responsible for heritage matters within NSW
Harm	To destroy, deface or damage an Aboriginal object; to move an object from land on which it is situated, or to cause or permit an object to be harmed
I2S	Illabo to Stockinbingal Project area
LALC	Local Aboriginal Land Council
LGA	Local Government Area
NPW Act	NSW *National Parks and Wildlife Act* 1974
OEH	Office of Environment and Heritage – now Heritage NSW
PAD	Potential Archaeological Deposit
RAP	Registered Aboriginal Party
RAPs	Registered Aboriginal Parties

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1.0 Introduction

Inland Rail Pty Ltd (IRPL - the Proponent) has engaged John Holland Group to undertake construction works for the Illabo to Stockinbingal (I2S) section of the Inland Rail Project (the project). Mountains Heritage and Apex Archaeology have joined together to assist John Holland Group in the additional archaeological work required for the project prior to construction commencing. This work builds on the work undertaken previously by GML Heritage Pty Ltd (GML) and is required to meet the conditions of consent for the project.

The I2S Rail Corridor is located between Illabo in the south and Stockinbingal in the north, and falls within two Local Government Areas (LGAs), being Junee LGA in the south and Cootamundra-Gundagai LGA in the north. It is located within the Wagga Wagga Local Aboriginal Land Council (LALC) boundaries to the south, and Young LALC to the north. The study area varies in width for operational reasons such as construction compounds and stockpiles.

Key features of the proposal include:

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

1.1 Project Background

GML prepared an Aboriginal Cultural Heritage Assessment Report (ACHAR) to inform the Environmental Impact Statement (EIS) for the project in August 2022. As part of their assessment, they undertook consultation with the Aboriginal community, as well as surveying accessible portions of the study area, and completing test excavations

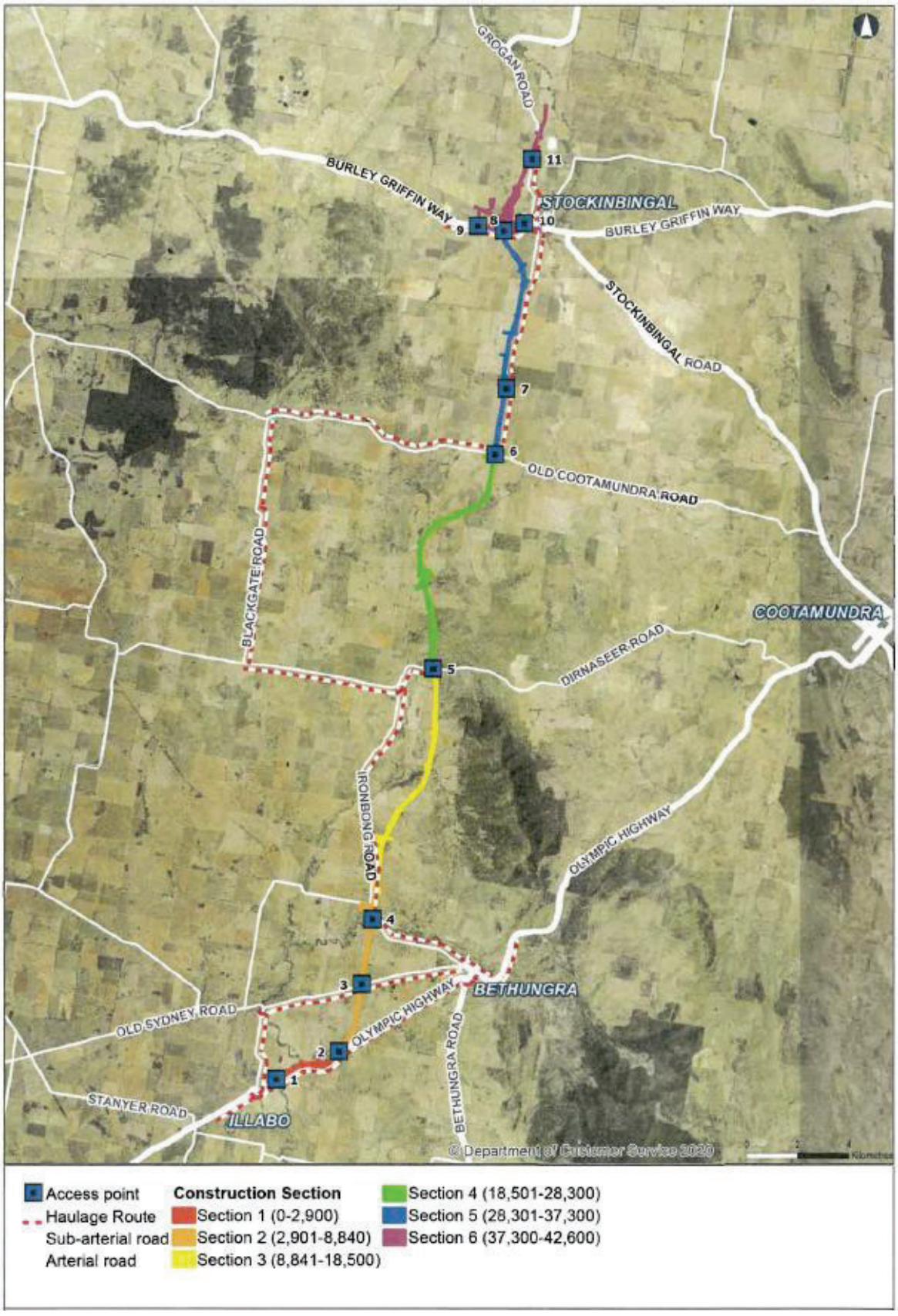


Figure 1: Study Area (Source: I2S EIS)

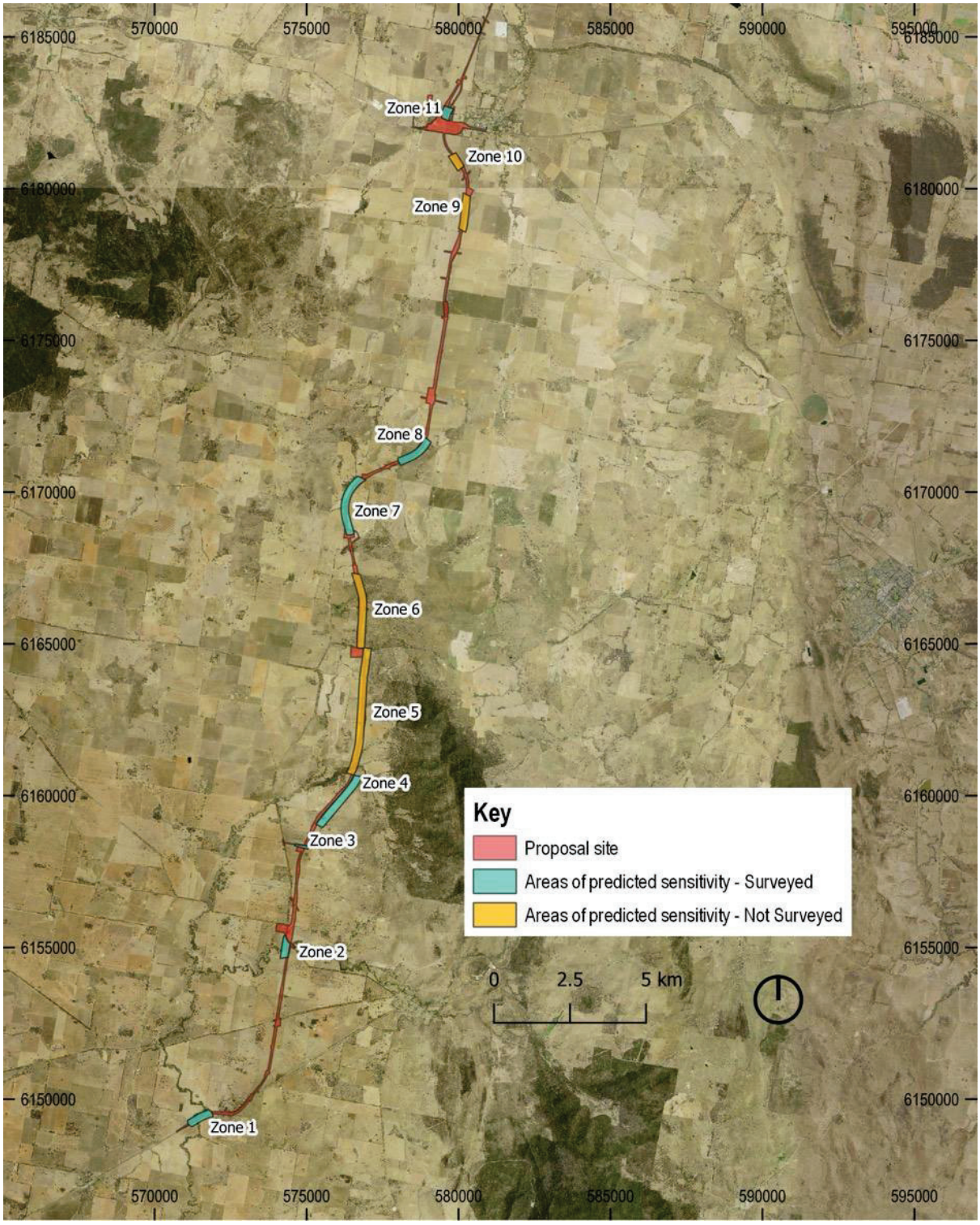


Figure 2: Survey Zones established by GML in 2022 (Source: Figure 5.1 of GML, 2022: 57). Note Zone 11 East is not shown on this figure and is located just west of Zone 11.

within areas that were considered likely to have subsurface potential archaeological deposits (PAD).

The study area has been separated into zones for assessment purposes, and GML undertook test excavations within Zones 1, 2, 4, 7 South, 7 North, 8, 11 and 11 East. Some parts of these zones and test excavation areas are located outside the formal EIS boundaries defined for the project as the ACHA considered a wider corridor that was later reduced to form the EIS curtilage.

Areas of sensitivity were predicted to be located within Zones 5 and 6 but were not tested due to lack of access.

A total of 231 test excavation units were excavated by GML within those zones, with 133 stone artefacts recovered from subsurface deposits during the test excavations. Zones 7 and 8 did not contain artefacts within the test excavation units excavated.

GML then finalised their ACHAR which detailed the assessment they had completed for the project. Subsequent to the submission of the ACHAR as a part of the EIS for the project, Heritage NSW reviewed the ACHAR and issued a letter of advice on 22 October 2022 with a number of concerns regarding the test excavation and surface collection that were undertaken.

During preparation of the ACHAR, the zones of sensitivity/PAD initially identified within Zones 5 and 6 were refined following completion of the GML test excavations in other zones, based on the results obtained within the other zones which allowed refinement of the predictive modelling within the entire area. Additionally, GML did not consider that Zones 9 and 10 were likely to contain areas of potential and this also contributed to this area not being subject to archaeological survey during preparation of the ACHAR as part of the EIS process.

Subsequent to completion and approval of the EIS, the NSW Department of Planning, Housing and Infrastructure issued Conditions of Approval (CoA) for the project on 6 September 2024. CoA E135 requires these zones to be archaeologically surveyed and test excavation undertaken as necessary within the zones to determine the nature and extent of any archaeological sites present within the areas.

Additional Survey and Test Excavation within Zones 5, 6, 9 and 10, which were not completed by GML due to access restrictions along with predictive modelling, will now need to be undertaken in order to completely assess the potential impact of the proposed works on the Aboriginal heritage values of the study area.

The following document provides information about the project, and outlines the detailed methodology for field survey and test excavation that Apex Archaeology are proposing to undertake with the support of Mountains Heritage, along with the proposed heritage management activities. Apex Archaeology and Mountains Heritage will also be preparing a Heritage Management Sub-Plan to provide

guidance prior to, during, and after construction of the new rail line, in order to meet CoA C12.

1.2 Conditions of Approval

As part of the project approval, a number of CoA relating to Aboriginal heritage were included, with these required to be met prior to construction works commencing within specific zones. The CoAs relevant to Aboriginal cultural heritage are outlined below.

CoA #	CoA Requirement
E133	An Aboriginal Cultural Values Plan must be prepared to inform how Aboriginal Cultural Values will be integrated into the broader design of the SSI including design elements (form and fabric), landscaping (the collection, propagation and replanting of traditional plant resources), language; and cultural design principles. The Plan must identify how interpretive themes and cultural values will be implemented and provide a timeframe for their provision during construction. The Plan must recognise the spiritual, intangible, linguistic and cultural values of the sites to Aboriginal people and address the full story of the place (s) (i.e. landscape through the eyes of Aboriginal people); Aboriginal design and story elements, patterns and motifs or other appropriate visual interpretations. The Plan will be developed in conjunction with the Aboriginal Community and Stakeholder Engagement Strategy. The Strategy will detail the consultation process with Aboriginal stakeholders and identify the Aboriginal Cultural Values to be incorporated into the design of the CSSI. The Aboriginal Cultural Values Plan shall be submitted for the approval of the Planning Secretary one (1) month prior to commencing construction. The Aboriginal Cultural Values Plan must be implemented.
E134	Aboriginal cultural heritage artefacts and culturally modified trees that are to be retained within the rail corridor are to be protected during routine maintenance and repair activities during operation in accordance with ARTC's standard operational environmental management procedures.
E135	Prior to the commencement of any ground disturbance work within areas identified as requiring archaeological investigation or salvage identified in documents listed in Condition A1, the Proponent must prepare and implement an Additional Aboriginal Archaeological Survey Methodology and an Aboriginal Archaeological Test Excavation Methodology. The methodology must include procedures for additional archaeological survey of Zones 5, 6, 9, and 10, and management protocols including consultation with the Registered Aboriginal Parties, for any Aboriginal objects and sites identified during the survey.
E136	Following analysis of the test excavation results, the Proponent must prepare and implement an Aboriginal Archaeological Salvage Excavation Methodology.
E137	Following additional survey, test and salvage excavation, if sites are identified that exceed the expected level of significance identified in the Aboriginal Cultural Heritage Assessment Report, further consultation with Heritage NSW and the RAPs must be undertaken and consideration given, where feasible, for avoidance by the project.
E138	The Additional Aboriginal Archaeological Survey Methodology, Aboriginal Archaeological Test Excavation Methodology and Aboriginal Archaeological Salvage Methodology must be prepared by a suitably qualified expert in consultation with Heritage NSW and RAPs, and provided to the Planning Secretary for information at least one month prior to test or salvage excavation.

E139	At the completion of Aboriginal cultural heritage survey and test and salvage excavations, an Aboriginal Cultural Heritage Excavation Report(s) must be prepared by a suitably qualified expert. The Aboriginal Cultural Heritage Excavation Report(s) must: a) Be prepared in accordance with the Guide to Investigating, assessing and reporting on Aboriginal cultural heritage in NSW, OEH 2011 and the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales, DECCW 2010a; and b) Document the results of the archaeological survey and test excavations and any subsequent salvage excavations (with artefact analysis and identification of a final repository for finds). The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised. The final report must be provided to the Planning Secretary, Heritage NSW, the relevant Councils, relevant LALCs and the RAPs within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).
E140	Ground disturbance works and construction work may not commence in those areas where archaeological excavation and surface collection of Aboriginal objects is required (including areas identified as requiring further assessment) until the archaeological works described int eh Aboriginal Cultural Heritage Assessment reports listed in Condition A1 have been completed.
E141	At the completion of surface collection, test excavations, and salvage excavations, Aboriginal Site Impact Recording Forms (ASIRF) must be submitted to the Aboriginal Heritage Information Management System (AHIMS) and evidence provided of submission to the AHIMS Registrar.
E142	Where previously unidentified Aboriginal objects or Aboriginal Places are discovered, all work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects or places must not recommence until Heritage NSW has been informed. The measures to consider and manage this process must be specified in the Unexpected Heritage Finds and Human Remains Procedure required by Condition E143 and include registration int eh Aboriginal Heritage Information Management System.
E143	An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by Heritage NSW and submitted to the Planning Secretary for information before the commencement of Work.
E144	The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of Work.

This methodology has been prepared in accordance with Conditions of Approval E135, E139, E140, and E141, and CoAs E136, E137 and E138 are also relevant to this methodology as well as future works.

2.0 ADDITIONAL ARCHAEOLOGICAL METHODOLOGIES

In accordance with the Critical State Significant Infrastructure (CSSI) CoA for the project, both an additional Aboriginal Archaeological Survey Methodology and Aboriginal Archaeological Test Excavation Methodology is required for Zones 5, 6, 9 and 10, as they have not yet been subject to detailed Aboriginal archaeological assessment. This section outlines the proposed methodologies for both aspects of the project, along with methodologies for recording various other site types if encountered.

2.1 SURVEY METHODOLOGY

As required by the CoA for the project, additional archaeological survey of Zones 5, 6, 9 and 10 is required. These zones are shown in Figure 2 above. The survey of these areas would cover the entirety of the EIS disturbance footprint so as to inform management recommendations for the project, and to provide recommendations as to the requirement for test excavation within the area. None of these four zones have been surveyed during the original ACHA process, although areas of predicted archaeological sensitivity have been identified based on predictive modelling for the area (GML 2022). As these zones have not yet been surveyed, the entirety of the zones would be surveyed to identify any Aboriginal objects or places within these zones.

Survey of the four separate zones would be undertaken in accordance with *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (the Code of Practice – DECCW 2010a); and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (April 2011). The field survey is not necessarily intended to be an opportunity for gathering information regarding the cultural significance of the area, but rather is a scientific inspection of the area to determine the current state and archaeological potential of the site. However, should any RAPs in attendance choose to share cultural knowledge they wish recorded and incorporated into the assessment, this will occur in line with the RAP's wishes.

There will be subsequent site visits with RAPs to visit sites within the study area to discuss their cultural heritage values. This forms part of a separate Aboriginal Cultural Values Plan (ACVP) being undertaken by Mountains Heritage and Navin Officer. This report will be prepared for JHG on behalf of IRPL. A methodology for the ACVP will be sent in due course, for review and comment. Preparation of this plan is in accordance with CoA E133.

The archaeological survey will be undertaken in accordance with the following methodology:

- The start and end points of survey transects, along with their length, will be recorded by handheld GPS;
- Each zone will be visually inspected by pedestrian survey;
- Appropriate metric scales will be used for all photography in line with the Code of Practice requirements;
- If stone artefacts are identified on the ground each item will have a flag placed at its location;
- The archaeologist and RAPs will record each item as per the lithic site recording form and lithic item recording form detailed below;
- The study area will be recorded using survey recording forms. The following is a list of attributes that will be recorded for each area surveyed:
    - Survey area;
    - Recorder name;
    - Date;
    - Landform element;
    - Slope;
    - Soils;
    - Distance to watercourse;
    - Vegetation;
    - Land surface;
    - Rock outcrops;
    - Detection limiting factors; and
    - Ground disturbance.
- The zones will be divided into survey units based on landform and given ratings in the following categories:
    - Survey area (as defined by the length of area surveyed multiplied by two. A participant in this instance can only see 1m either side at a time. Survey area covered increases when more participants are added);
    - Total area surveyed;
    - Percentage of sample inspected;
    - Archaeological visibility (this is a percentage of potential within the landform);
    - Surface visibility;
    - Exposure type; and
    - Effective survey coverage
- Photos of each survey unit will be taken.
- Aboriginal lithic site recording forms will be used to record artefact scatters and isolated finds. The following list of attributes will be recorded for each site:
    - Site Number;
    - Survey Area;
    - Date;
    - Recorder name;
    - Total number of artefacts recorded;
    - Visible extent of artefacts;
    - Extent of surface exposure;
    - GPS reading;
    - Sub-surface potential;

- Research potential;
- Raw stone material available;
- Ground Disturbance;
- Vegetation;
- Photographs of site; and
- Site plan.

- Each artefact will be recorded using a lithic item recording form with the following attributes recorded:
  - Artefact number;
  - Locus;
  - Colour;
  - Stone material;
  - Lithic item type;
  - Length, Width & Thickness (mm);
  - Cortex Percentage;
  - Cortex type; and
  - Comments.
- Artefacts will be retained on site and no surface artefacts will be moved or relocated from their original location; and
- Relevant site recording forms will be utilised for any other site type identified during the survey (modified tree, stone arrangement, etc) in accordance with the below methodologies.

2.2 Modified Tree Methodology

During the survey, or as appropriate at any point while on site, mature trees will be assessed for the presence of potential cultural modification. Any trees considered to exhibit cultural modification (or potential to be culturally modified) will have their attributes recorded on a Modified Tree Recording Form, including the following information:

- GPS coordinate location of the tree will be taken;
- Photographs of the tree in context and of the modification, utilising an appropriate scale;
- The number of visible scars;
- The condition of the tree, including its status (standing/felled etc);
- Estimated age of the tree or circumference of the tree at chest height to assist in determining age;
- The context of the tree including:
  - Land form;
  - Distance to water;
  - Surrounding vegetation;
  - Approximate slope
- The visible height, width and depth of the scar;
- The estimated original height width and depth of the scar;
- The shape of the scar;

- The height of the scar from the ground;
- Whether axe marks are visible on scars;
- The species of the tree;
- Scale drawings of the modification as appropriate.

This will be recorded in line with the AHIMS site card requirements.

It is noted that previous research has identified the following:

> *Based on a failure by most people to understand both the rate of tree and wound growth and also the many natural causes that can lead to scarring, the age and cause of scarring are often frequently misinterpreted. As a result, both trees and scars present in live trees today are most likely much younger than most people consider. This make the likelihood of scarring being [cultural] related unlikely.*
>
> *In addition, it should be noted that a tree would initially have had to have been of a reasonable size to have been used (scarred) for Aboriginal purpose. Hence, scar age is normally much younger than tree age which makes the probability of scarring being of Aboriginal origin even lower (Burns 2014).*

Criteria for assessing trees for cultural modification in the form of scars is based on the criteria developed by Kamminga and Grist (2000), Irish (2004), and Long (2005) as follows:

- Culturally modified scars do not generally reach the ground;
- Culturally modified scars which do reach the ground generally have roughly parallel sides;
- Culturally modified scars are usually symmetrical, and have parallel sides or are concave in form;
- Regrowth is generally regular around all edges of the scar;
- The ends of the scar are usually squared or tapered;
- The presence of axe or adze marks shows the scar is likely to be of human origin;
- The age of the scar must be appropriate for the area – for example, trees needed to be a certain age for modification to occur; the original age must be considered when assessing the current age and potential for the modification to be cultural in origin;
- The tree exhibiting the scar must be endemic to the area in which it is located;
- The heartwood (ie xylem) of the tree is generally exposed and flat, but it is noted that older scars can be completely occluded by regrowth;
- The grain pattern visible on the xylem is usually parallel to the trunk or branch on which it is located;
- Association with other Aboriginal cultural objects such as artefacts or hearths generally increases the likelihood of a scar being of cultural origin;

- Consideration of the form of scars on nearby trees may assist in determining whether a scar is natural or cultural in origin;
- Consider whether the scar may have been a surveyor's mark or similar and whether it was formed by European actions rather than Aboriginal.

Consideration of the above will guide assessment of whether a tree is likely to have been culturally modified or if scars may be natural in origin.

Questions that would also assist in identifying Aboriginal culturally modified trees compared to naturally occurring scars include the following (Long 2005):

- What has happened in the local environment?
- What impacts have occurred in the vicinity of the scar?
- How old is the tree on which the scar occurs, and how long has the scar been there?
- What impacts have occurred to the tree, and can you work out the order in which they occurred?
- Can you identify the form and size of the original scar on the tree?
- Is the tree providing enough opportunity to determine the origin of the scar from a surface inspection only?

Specialist advice from an arborist may be sought as appropriate to provide additional advice and guidance.

2.3 Stone Arrangement Methodology

Stone arrangements may identify culturally significant areas, such as bora or corroboree grounds, or other special places. Where identified, the following will be recorded:

- GPS coordinate location will be taken, generally in the centre of the arrangement when entry does not cause damage to the arrangement;
- Extent of the arrangement (ie length x width);
- Type of stone used to create the arrangement;
- Landscape context;
- Distance to water;
- Photographs of the context of the arrangement and the arrangement itself will be taken with an appropriate scale;
- Measured drawings will be produced as appropriate.

2.4 Burial Methodology

In the event that suspected or identified human remains are identified during the survey, test excavations, or salvage works, John Holland Group's Unexpected Finds and Human Remains Procedure will be followed. The NSW Police and the Coroner's Office will be notified. If the finds are confirmed to be human and of Aboriginal

origin, further assessment by an archaeologist experienced in the assessment of human remains, including engagement of a bioarchaeologist or forensic archaeologist if necessary. Avoidance and protection of the remains would be the highest priority; although the nature of this protection would be guided by the Aboriginal community, Heritage NSW, John Holland Group and Inland Rail.

2.5 Defining Site Boundaries

In accordance with Requirement 6 of the Code of Practice, any identified sites will be described as follows:

- The spatial extend of the visible objects will be recorded;
- Obvious physical boundaries will be described;
- Cultural information provided by the RAPs regarding the extent of sites will be recorded where appropriate and where RAPs are comfortable sharing such.
- All identified sites will be recorded utilising appropriate recording forms which consider the attributes listed on the AHIMS recording form for new sites.

2.6 Test Excavation

In accordance with CoA E135, it is necessary to undertake test excavation **as appropriate and necessary** within Zones 5, 6, 9, and 10. As such, we are proposing to undertake the necessary test excavations within these zones to determine the nature and extent of any identified areas of sensitivity within each of these zones, subsequent to completion of survey. GML (2022) identified areas of sensitivity within Zones 5 & 6 (Figure 3) but were unable to undertake test excavation within these areas due to access restrictions.

It is noted that GML predict that Zones 9 and 10 are unlikely to contain areas of sensitivity, sites or artefacts; and the need for test excavation within these two zones will be determined following completion of the site survey. However, indicated zones of sensitivity were identified by GML within Zones 5 and 6 and these will be investigated as part of the test excavation proposed, with the areas refined as appropriate following completion of the site survey. Indicative test pit maps based on the GML sensitivity assessment are shown on Figures 6 to 8. However, it is not possible to provide indicative test pit locations within Zones 9 and 10 as no areas of sensitivity have yet been identified within those areas. Test pit locations would be determined on completion of the site survey, and would only be located within areas considered to have archaeological potential.

Excavation Permits

As the project is an approved SSI project, with CoA issued, no permits from Heritage NSW are required for undertaking archaeological test excavation. This document, once reviewed by the RAPs, forms the basis of undertaking these works in accordance with the CoA.

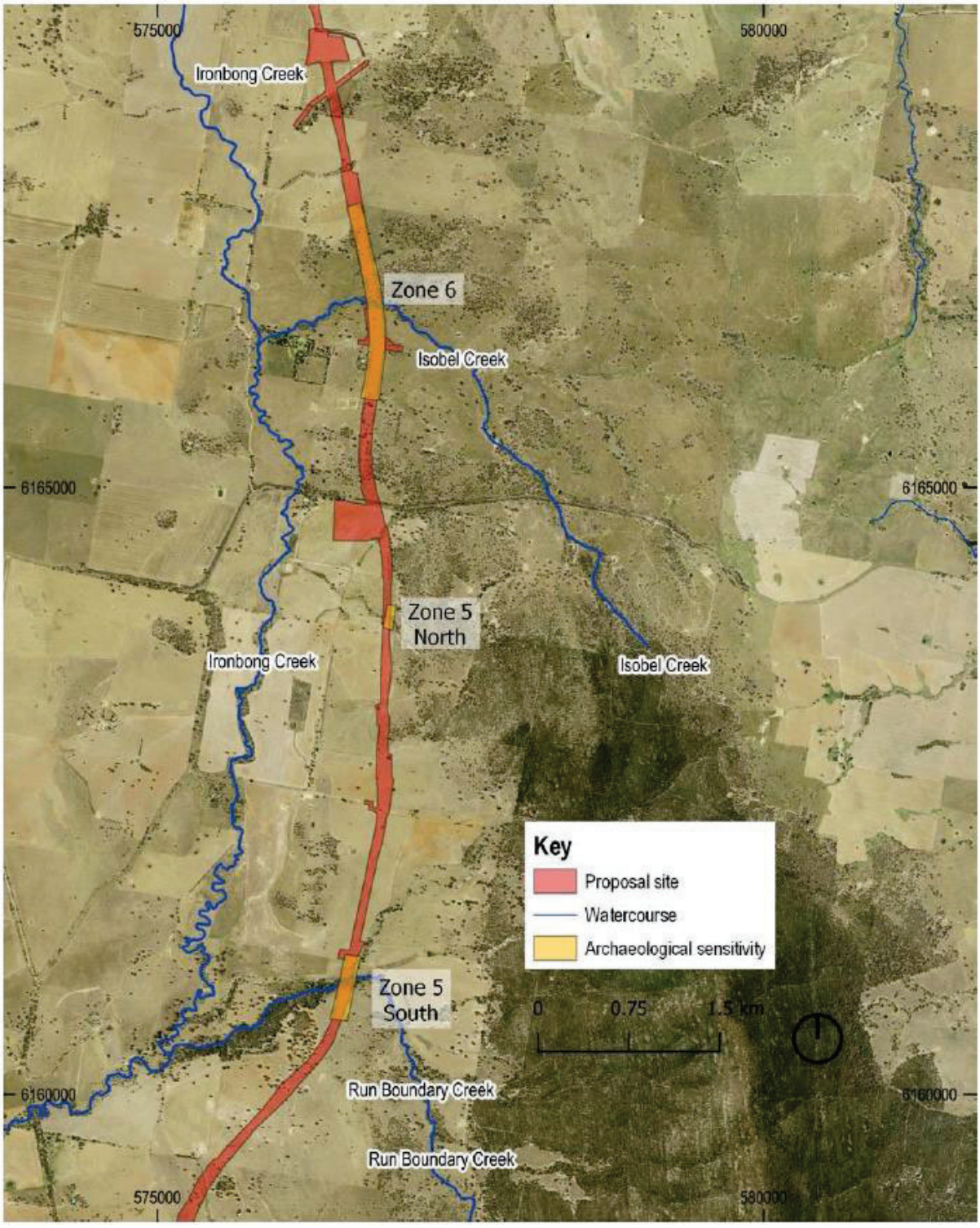


Figure 3: Revised, indicative areas of sensitivity within Zones 5 & 6, based on results of GML (2022) assessment (Source: Figure 6.2 of GML 2022)



PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 190 380
metres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Bing Aerial
Image Date: 2024
Final - Version 1

Figure 4: Indicative test pit locations within Zone 5 south.

N
W E
S



PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 95 190

metres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Bing Aerial
Image Date: 2024
Final - Version 1

Figure 5: Indicative test pit locations within Zone 5 north.

N
W E
S



PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 450 900
metres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Bing Aerial
Image Date: 2024
Final - Version 1

Figure 6: Indicative test pit locations within Zone 6.

N
W E
S

Undertaking a Dial Before You Dig (DBYD) assessment is the responsibility of the proponent as archaeological test and salvage excavations are undertaken in areas considered to have archaeological integrity. Areas clearly disturbed or with evidence of subsurface services would be avoided as these are unlikely to have archaeological potential. Further, archaeological excavation is undertaken by hand and as such, is able to rapidly identify subsurface disturbance such as that created by construction of subsurface services, and excavation can cease prior to any potential impact occurring.

RESEARCH QUESTIONS

The purpose of undertaking archaeological test excavations is to define the nature and extent of any potential archaeological deposits identified within the area of interest. In order to allow analyses to be comparable between different stages of the assessment process (ie the original GML 2022 assessment and the current additional works), the research questions posited by GML to assist in defining the nature and extent of the areas of sensitivity will also guide the test excavations undertaken as part of the current assessment. These questions are as follows and are reproduced verbatim from the GML 2022 ACHAR:

1) *What are the characteristics of soil horizons across the study area?*
   a) *How has the land use history impacted the study area and survival of soils and thus archaeological material?*
   b) *At each location, is the deposit consistent? Or does it possess characteristics that tell of different depositional or formation events?*
2) *Are there archaeological deposits present?*
   a) *Are the deposits stratified?*
   b) *Is there archaeological evidence which can be dated (both through scientific methods, carbon dating, OSL and/or relative dating)?*
   c) *Do the deposits have different degrees of archaeological potential with depth?*
   d) *What evidence—if any—other than stone artefacts is present for Aboriginal occupation and/or use of the study area?*
   e) *How do the archaeological deposits relate to the predictive modelling?*
   f) *Is there variation in the nature of the archaeological deposits across different areas of the study corridor?*
3) *What is the general nature of stone artefacts recovered from the study area? How can the stone artefact assemblage be characterised?*
   a) *What raw materials are represented in the stone artefact assemblage?*
   b) *Can any information be ascertained from the stone artefact assemblage regarding the intensity of stone artefact reduction and discard?*
   c) *Can a difference between stone artefact deposits be identified by different strata in the assemblage over time? If so, what is the nature of that difference?*
   d) *Can a difference between stone artefact deposits be identified across different areas of the study corridor?*
4) *How can the deposit be interpreted?*
   a) *Is there any evidence for variation in landscape use and selection strategies?*
   b) *Can deposits or features be dated? What is the antiquity of the evidence?*

c) *Does the archaeological deposit vary spatially within one location/site? How?*
d) *What does the archaeological deposit tell us about Aboriginal use of this landscape?*

5) *Can the archaeology be interpreted in a regional context?*
   a) *What is the source of the artefactual stone? How does this correlate with current regional research and knowledge of stone resources?*
      i) *Is raw stone material for artefact manufacture readily present within or near the study corridor?*
      ii) *Has stone been brought into the study corridor? From how far away has the stone been brought?*
      iii) *What is the main discard and reduction strategy pattern that can be observed for different raw materials across the study corridor?*
   b) *Do the archaeological deposits within this study corridor conform to the distance from water regional predictive model and theories or not?*
6) *Is the archaeological deposit culturally significant?*
   a) *What is the heritage value of the deposit, both scientifically and culturally?*
   b) *How does the Aboriginal community view and value the deposit identified?*
7) *Is there a deposit worthy of conservation or of future research?*
   a) *Where and what deposits should be conserved for future generations?*
   b) *Which deposits should be subject to more extensive investigations?*

TEST PIT LAYOUT

Test pits will be placed in relation to the identified PAD extent. The exact locations of the test pits will be determined on completion of the field survey and will take into account existing disturbance or obstacles within the site, which will be avoided. At this stage, 71 test pits are proposed within Zone 5 south; 33 within Zone 5 north and approximately 190 within Zone 6. It is not yet possible to estimate where test excavation may be required within Zones 9 and 10.

The following methodology would be implemented during the completion of test excavations within the areas of sensitivity within each zone:

- Transects will be spaced at 20m intervals, in a 'checkerboard' arrangement, in accordance with the method described in Orton (2000:90) whereby a staggered square grid is considered more efficient than a square grid for undertaking subsurface sampling;
- Notwithstanding the nominated appropriate spacing outlined above, test pits will be separated by at least 5m where altered spacing is required;
- Test pits will be oriented north – south using a handheld compass for accuracy;
- Test pits will avoid clearly disturbed areas, with transects avoiding disturbance in the first instance, and individual test pits moved no more than 2m in any direction from their original location to avoid discrete disturbance;
- If moving the test pit 2m in any direction from its original location does not avoid the disturbance, that test pit location will be abandoned and the next pit in the transect excavated as appropriate;
- Test pits will not exceed a maximum surface area of more than 0.5% of the entire PAD area identified;

- The location of the north west corner of the first test pit will be recorded by GPS (or alternative accurate system as available and appropriate), and following pits will be tied into the transect using the distance and bearing technique. This method requires a 60m or 100m tape measure and compass to measure from the initial test pit. The tape is run out from the first pit and subsequent pits laid out at 20m intervals; and
- Each test pit will have a flag placed in the north-west corner with the test square number in sequence and Easting and Northing of its location written on it, taken from the GPS coordinate for the initial pit and extrapolated based on the location of the pit in relation to the initial pit.

Excavation Methodology

- Test pits will be 50 x 50cm;
- All test pits will be excavated in 5cm spits by hand using a shovel, mattock and trowel. Spit depths will be consistently checked with a hand tape measure to ensure accuracy of excavation depth. Once the first test pit has been excavated and an understanding of the stratigraphy has been obtained, following test pits for that transect may be excavated stratigraphically or in 10cm spits, as considered appropriate for the site;
- Notwithstanding the above, 5cm spits are considered appropriate to assist in obtaining as much stratigraphical information as possible from a site which may assist in answering research questions, including assessment of site integrity and distribution of archaeological material;
- Test pit excavation will cease on reaching basal clay, bedrock or a culturally sterile layer, or at the discretion of the archaeologist;
- Test pits may be combined to form 1m² squares by digging four contiguous 50 x 50 cm test pits to determine if artefact concentrations continue (ie 5 or more artefacts in a single 50x50 test pit; identification of a hearth, heat treatment pit, knapping floor, etc);
- If artefact concentrations warrant further expansion (ie 20 or more artefacts in a single 1m^2 pit; identification of a hearth, heat treatment pit, knapping floor, etc), continuation of 1m² test pits into a 3m² open area may also be necessary. This is the maximum open area allowed for under the Code of Practice and assumes this is not more than 0.5% of the total PAD area. If artefact concentrations are still high once a 3m² area has been excavated then this area would be prioritised for salvage during a subsequent stage of the project;
- If cultural features (e.g. hearths, heat treatment pits, knapping floors) are identified during excavation, excavation with hand tools (e.g. mattock and shovel) will cease and continue with trowel and small hand tools only, with these pits expanded as outlined above;
- Charcoal samples may be taken from half sectioned hearths, leaving at least half of the hearth intact and in situ, with the charcoal sent for carbon dating as appropriate;
- Locations of identified features will be planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors will be recorded prior to removal (where possible) and continuation of excavation;
- Under no circumstances will artefacts be deliberately removed from the section of a test pit;

- The soil from each spit will be placed in 10L plastic buckets and transported to the sieving station;
- To ensure sufficient control of each spit excavated, a bag and tag will be written to accompany the buckets from each spit. The following information will be recorded on each bag and tag: site name, date, pit location (easting & northing) and name of excavator;
- All material from each test pit will be dry sieved where possible however should the soil matrix preclude dry sieving (high clay content/moist or wet from rain fall) then wet sieving will be required. All soil will be sieved through table sieves (1 x 1m) with a wire mesh aperture gauge of 5mm and depending on the soil matrix and recovery of micro debitage we may switch to 3mm gauge;
- All material recovered from the sieving process will be checked by a qualified archaeologist with experience in artefact identification prior to being placed into the spit bag; and
- Artefact counts will be recorded for each spit.

RECORDING

- Each test pit will be recorded on a pit sheet with the following information:
  - site name;
  - date;
  - excavator name;
  - spit number;
  - spit depth;
  - pit location (easting & northing)/pit number;
  - start levels & end levels;
  - section drawing and/or photographs of sections clearly demonstrating stratigraphy/the soil profile;
  - bucket count and end total bucket count;
  - soil description;
  - description of disturbance;
  - description of artefacts (material type & artefact type if in situ);
  - in situ recording of artefacts where possible (xyz coordinates); and
  - photograph details (from surface and of each section).
- A record of Aboriginal objects will be kept to allow an up to date comparison between areas subject to test excavation.

ARTEFACTS AND CHAIN OF CUSTODY

Any artefacts that are recovered from the test excavation will be analysed by an archaeologist experienced in artefact analysis and interpretation. Artefacts will be temporarily held at Apex Archaeology's office during the analysis and stored in a lockable safe. Artefacts may be analysed by Dr Beth White or another suitably qualified lithics expert, and would be securely transported to their office for analysis if required. The temporary location of the artefacts must be notified to AHIMS as soon as practicable on completion of works, through submission of a site card or ASIRF. At the conclusion of the project all artefacts will be reburied on site in accordance with Requirement 26 of the Code of Practice. In the event salvage

excavation is required, all artefacts will be reburied at the same time. Once the artefacts are reburied, the location will be recorded and provided to AHIMS. It is likely that reburial cannot occur until the development has been completed and a suitable location identified. The final location of the artefacts may be determined in consultation with the RAPs and could include an alternative Keeping Place. The final location would be recorded and provided to AHIMS.

Cessation of Excavation

Excavations will cease upon reaching basal clay, bedrock or a culturally sterile layer, or at the discretion of the archaeologist (for example, if it becomes unsafe to continue excavation due to depth).

Backfill

At the conclusion of the testing program, all test pits will either be backfilled (by collapsing the sides of the test pit in with a shovel or mattock where pits are very shallow, and/or filling with spoil or clean fill to return the pit to original ground level). Back fill may also take place by sieving back into the test pits if possible. If a test pit has yielded a significant artefact deposit requiring further salvage, then the pit will be lined with geofab or similar material, and backfilled until salvage can be completed, so that expansion (open area excavation) can be undertaken more easily.

Post Archaeological Assessment Works

On completion of test excavations, an Aboriginal Site Impact Recording Form (ASIRF) must be submitted to AHIMS for each AHIMS site subject to test excavation. Additionally, site cards must be submitted to AHIMS for any newly identified sites from the survey or test excavation process. These forms must be submitted as soon as practicable following completion of the relevant activity.

2.7 Works in Remaining Zones

It is necessary to undertake some works within the project area prior to undertaking additional survey and subsequent archaeological works, as outlined below.

Geotechnical Activities

Within certain parts of the Project area, geotechnical activities are required to be completed, including undertaking the following:

- Bore holes
- Test pits
- Auger holes
- Survey
- Geophysics
- Pot holing
- Slot trenching
- Pavement cores

At present, ground disturbing geotechnical activities are only planned outside the Zones of Aboriginal Sensitivity as identified by GML (2022), and will not occur within Zones 5, 6, 9 and 10 prior to survey and further archaeological investigation (as appropriate) of these areas. Geotech works will also avoid known Aboriginal sites located outside of the Zones of Aboriginal Sensitivity. Furthermore, mitigation measures have been proposed for activities outside of Zones of Aboriginal Sensitivity, as outlined below:

- The Zones of Aboriginal Sensitivity will be identified on the ground with a 25m buffer. Bollards will be placed to temporarily delineate these no-ground disturbance zones. This will be defined by accurate geospatial data to ensure accurate identification and marking of no-go zones.
- All site personnel will be inducted to the Project before the commencement of geotechnical activities. This induction will include a visual depiction of the no-ground disturbance zones and their restrictions.
- On-site personnel will be regularly briefed on the exact locations of the no-ground disturbance zones.
- Har-copies of maps showing the no-ground disturbance zones will be placed in site utes and provided to all JHG and subcontractor site personnel via email.
- Site personnel will be provided access to geospatial data which show the no-ground disturbance zones (including the 25m buffer).
- The Unexpected and Incidental Fines Procedures for Heritage are available in all site utes and provided to all JHG and subcontractor site personnel via email.

It is noted that vehicular and pedestrian access will be required within Zones of Aboriginal Sensitivity to validate and visually assess these areas for future geotechnical investigations. As these will not result in any ground disturbance, these works are permissible within all Zones. Existing vehicle tracks should be used wherever possible to reduce any potential ground disturbance.

Works outside of Zones of Aboriginal Sensitivity will likely occur prior to the commencement of survey works in accordance with this methodology. Within Zones 4, 8 and 11 East, ground disturbing geotechnical works will be undertaken concurrently with survey and test excavation works, as these zones were assessed by GML (2022) to have low potential for PAD or archaeological sensitivity, with no further archaeological assessment recommended for those three zones.

Surface Artefact Collection

Within Zones 7 and 11, four isolated artefacts were identified but could not be relocated by GML during their assessment. It is proposed to collect these artefacts during the survey if they can be relocated. This will occur prior to the commencement of ground disturbing geotechnical works in these zones. No further archaeological work is recommended for those zones. All collected artefacts would be recorded

using GPS (or appropriate alternative) and placed into robust ziplock bags with their site name, AHIMS number, and project name recorded on the bag in indelible pen. The attributes of each item would be recorded in line with the requirements of AHIMS and ASIRFs would be submitted for each site. The items would be safely stored at the temporary storage location until they can be safely returned to site, likely on completion of salvage excavation works and/or construction works for the Project.

Tree Protection

Protection measures for registered scarred trees or suspected culturally modified trees must be established prior to any geotechnical activities or other works occurring in the vicinity of the tree. This would include identification of the tree and placement of bollards with a 5m radius buffer around the tree trunk to ensure no ground disturbing works occur in the immediate vicinity of the tree.

2.8 Subsequent Salvage Excavation and Ongoing Management

On completion of the additional survey and test excavation, a separate Aboriginal Archaeological Salvage Methodology will be prepared and distributed to RAPs for review and comment. This report will:

- detail the results of the survey and testing program;
- outline the scope and methodology for subsequent archaeological salvage within all zones that have been identified as requiring mitigation; and
- provide management strategies to be implemented prior to, during, and after construction works, as appropriate. These strategies will include avoidance or conservation of sites, along with the surface collection of objects on the ground surface. These strategies will be developed in consultation with all RAPs for the project, the proponent, and Heritage NSW.

On completion of the salvage excavation, an Aboriginal Cultural Heritage Excavation Report will be prepared to detail the results. All RAPs would be provided with a copy of the draft report and would have an opportunity to comment on the results, prior to its finalisation. A copy of the final Aboriginal Cultural Heritage Excavation Report will be sent to all RAPs within 24 months of completing the salvage excavation and all RAPs would have 28 days to comment on the report prior to its finalisation. The final report would also be provided to the Planning Secretary, Heritage NSW, AHIMS, relevant Councils, and IRPL within 24 months of completion of archaeological excavation works.

3.0 FEEDBACK REQUESTED

This methodology was provided to all RAPs for their review and comment on 21 March 2025, with comments initially accepted until 18 April 2025. When it was noted that 18 April 2025 was a public holiday, the comment period was extended to 23 April 2025.

The following feedback was requested: We would like to respectfully request that you provide any questions or comments you may have on the methodology so that it can be incorporated into the final methodology. Please let us know if there are any alternative policies or procedures you wish to see incorporated into the methodology.

In addition to the archaeological investigations, an Aboriginal Cultural Values Plan (ACVP) is being prepared. RAPs are asked to consider the answer to the following questions:

If you have lived or worked on this country:

- *What do you think are the cultural values associated with the archaeological sites in the project area?*
- *Do any particular sites stand out as having cultural values, other than their archaeological or scientific value?*
- *Do you know of any important places that are not also archaeological sites in the project area? If so, can you describe those places?*
- *What cultural values (apart from archaeological ones) in the project area do you think are important to maintain for future generations?*
- *Can you suggest local people/ Elders from this area that you believe would be able to provide information relating to the cultural values of the project area?*

We look forward to working with you on this project.

3.1 COMMENTS RECEIVED

Comments were received from two RAPs, being Young LALC and Yurwang Gundana.

Young LALC provided feedback on representatives able to assist with fieldwork. No formal comments on the methodology were provided.

Yurwang Gundana advised that they had “read the report and agree with how this project is being handled”. They also advised that they wish to be part of the fieldwork.

No other comments were received. Copies of all correspondence are attached to this methodology.

4.0 BIBLIOGRAPHY

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OEH 2011. *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW.* OEH, Sydney South.

Orton, C, 2000. *Cambridge Manuals in Archaeology: Sampling in Archaeology.* Cambridge University Press, Cambridge.

RAP CORRESPONDENCE

From:	jenni@apexarchaeology.com.au
To:	"Undisclosed Recipients"
Cc:	"Fiona Leslie"; "Lisa Goodman"
Bcc:	barkingowlcorp@gmail.com; btlalc@bigpond.net.au; Cherylpenrith84@gmail.com; Colinameadows2014@gmail.com; corroboreecorp@bigpond.com; gulgunyaNHAC@hotmail.com; Ingram.james1959@gmail.com; jennybeath@bigpond.com; marksad@live.com.au; Paulam@intereach.com.au; Pd.ngunawalconsultancy@gmail.com; prbeath@yahoo.com.au; Robert.carroll1971@gmail.com; sonionerogers@yahoo.com; thunderstonemg@gmail.com; wingarrawilay@yahoo.com; wiradjuriengineeringservices@outlook.com; Younglalc62@gmail.com; Yurwang.gundana.c.h.s@outlook.com
Subject:	Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology
Date:	Friday, 21 March 2025 4:05:58 PM
Attachments:	Questionnaire.docx 23093 I2S Draft Methodology .pdf

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Good afternoon,

Thank you again for your registration of interest in the Illabo to Stockinbingal (I2S) section of the Inland Rail Project. Please find attached further information regarding the project and the draft methodology for the further archaeological assessment that is required for the project.

We welcome your thoughts and comments on the methodology and if there are any changes you would like to see made to the document. Could you please send through any comments by CoB Friday 18 April 2025?

You will also find a questionnaire attached for you to fill in if you would like, asking how you might like to be involved as this project progresses. I look forward to receiving your responses.

Please don't hesitate to get in touch if you have any questions about the project, the methodology or the questionnaire.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

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From:	jenni@apexarchaeology.com.au
To:	"Undisclosed Recipients"
Cc:	"Fiona Leslie"; "Lisa Goodman"
Bcc:	barkingowlcorp@gmail.com; btlalc@bigpond.net.au; Cherylpenrith84@gmail.com; Colinameadows2014@gmail.com; corroboreecorp@bigpond.com; gulgunyaNHAC@hotmail.com; Ingram.james1959@gmail.com; jennybeath@bigpond.com; marksad@live.com.au; Paulam@intereach.com.au; Pd.ngunawalconsultancy@gmail.com; prbeath@yahoo.com.au; Robert.carroll1971@gmail.com; sonionerogers@yahoo.com; thunderstonemg@gmail.com; wingarrawilay@yahoo.com; wiradjuriengineeringservices@outlook.com; Younglalc62@gmail.com; Yurwang.gundana.c.h.s@outlook.com
Subject:	FW: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology
Date:	Tuesday, 15 April 2025 4:35:32 PM
Attachments:	Questionnaire.docx 23093 I2S Draft Methodology .pdf

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Thank you again for your registration of interest in the I2S project. This email is a gentle reminder to send through any comments you may have on the methodology (attached for your reference) and the questionnaire about your involvement in the project (also attached).

I note the original closing date for the comments falls on Good Friday. We have extended the date for comments to Wednesday 23 April 2025 to allow additional time over the Easter long weekend. I look forward to receiving any comments you may have.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
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From: jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
Sent: Friday, 21 March 2025 4:06 PM
To: 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
Cc: 'Fiona Leslie' <fiona.leslie@mtsheritage.com.au>; 'Lisa Goodman' <lgoodman@inlandrail.com.au>
Subject: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology

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Kind regards,

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From: jenni@apexarchaeology.com.au
To: "yurwang gundana"
Subject: RE: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology
Date: Tuesday, 8 April 2025 11:54:20 AM
Attachments: image003.png
Questionnaire.docx

Thanks so much for getting back to me, Merekai.

There was a questionnaire attached to the methodology email which I have reattached for your reference. Could you please complete that and send it back? That will assist us in scheduling participants in the fieldwork for the project.

Kind regards,

APEX ARCHAEOLOGY
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From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Tuesday, 8 April 2025 10:50 AM
To: jenni@apexarchaeology.com.au
Subject: Re: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology

Yumalindi, I hope you're doing well.

Yurwang Gundana strongly supports the methodology being used and is very eager to be involved in this fieldwork. We believe our experience and deep knowledge in this area could contribute significantly to the project.

Please let me know when you receive this, that would be much appreciated.

Merekai Bell
CEO & Head Consultant
I am a Proud Ngunawal Man with Wiradjuri & Gamilaraay Connections
Yurwang.Gundana.C.H.S@outlook.com
0499020045
YURWANG GUNDANA C.H.S

From: jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
Sent: 21 March 2025 16:32
To: 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
Cc: 'Fiona Leslie' <fiona.leslie@mtsheritage.com.au>; 'Lisa Goodman' <lgoodman@inlandrail.com.au>
Subject: RE: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology

My apologies, I have just noted some missing figures. These are now included in the attached document.

Have a lovely weekend.

Kind regards,

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From: jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
Sent: Friday, 21 March 2025 4:06 PM
To: 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
Cc: 'Fiona Leslie' <fiona.leslie@mtsheritage.com.au>; 'Lisa Goodman' <lgoodman@inlandrail.com.au>
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From: yurwang gundana
To: jenni@apexarchaeology.com.au
Cc: "Fiona Leslie"; "Lisa Goodman"
Subject: Re: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology
Date: Wednesday, 23 April 2025 11:49:20 AM
Attachments: Outlook-kccoebcqi.png
Questionnaire - FILLED IN.docx

Yumalindi, I hope this finds you well today

Yurwang Gundana has read the report and agrees with how this project is being handled and wishes to be apart of the fieldwork that is happening soon, I have also filled out the questionnaire, please let me know if there is anything else you would like from us

Thanks so much



From: jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
Sent: 15 April 2025 16:35
To: 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
Cc: 'Fiona Leslie' <fiona.leslie@mtsheritage.com.au>; 'Lisa Goodman' <lgoodman@inlandrail.com.au>
Subject: FW: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology

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Good afternoon,

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We welcome your thoughts and comments on the methodology and if there are any changes you would like to see made to the document. Could you please send through any comments by CoB Friday 18 April 2025?

You will also find a questionnaire attached for you to fill in if you would like, asking how you might like to be involved as this project progresses. I look forward to receiving your responses.

Please don't hesitate to get in touch if you have any questions about the project, the methodology or the questionnaire.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

From:	Norma Freeman
To:	jenni@apexarchaeology.com.au
Cc:	Fiona Leslie; Lisa Goodman
Subject:	Re: FW: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology
Date:	Sunday, 20 April 2025 12:42:30 PM
Attachments:	Alona.docx Alona Apps experience.docx Enid.docx Jirrah Freeman experience.docx Gail.docx Jahnayah Freeman experience.docx Jahnayah .docx Keith Freeman experience.docx Norma Freeman experience.docx Marnie Freeman experience.docx Keith.docx Marnie.docx Norma.docx Questionnaire Brodie.docx Questionnaire Jirrah.docx Questionnaire Tori.docx Enid Clarke - experience.docx

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Hi Jenni

Hope all is well,

Please see attached the questionnaire and Experience.

Cheers

On Tue, Apr 15, 2025 at 4:35 PM <jenni@apexarchaeology.com.au> wrote:

> Good afternoon,
>
> Thank you again for your registration of interest in the I2S project. This email is a gentle reminder to send through any comments you may have on the methodology (attached for your reference) and the questionnaire about your involvement in the project (also attached).
>
> I note the original closing date for the comments falls on Good Friday. We have extended the date for comments to Wednesday 23 April 2025 to allow additional time over the Easter long weekend. I look forward to receiving any comments you may have.
>
> Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

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JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

From: jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
Sent: Friday, 21 March 2025 4:06 PM
To: 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
Cc: 'Fiona Leslie' <fiona.leslie@mtsheritage.com.au>; 'Lisa Goodman' <lgoodman@inlandrail.com.au>
Subject: Illabo to Stockinbingal section of the Inland Rail Project - Archaeological Methodology

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Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

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JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

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Norma Freeman
Chief Executive Officer
Young Local Aboriginal Land Council
247 Boorowa Street
Young NSW 2594

Ph: 02 63825669
Mob: 0439 649 443
Fax: 02 63822522
I acknowledge that Young LALC stands on Aboriginal Land in Wiradjuri Country. I acknowledge the Traditional Custodians of the lands on which I Live, Walk & Work, & pay my respects to all Elders Past and Present.