



# **Ancillary Facility Establishment Management Plan**

**Shared Path Bridge over Newcastle  
Road, Jesmond**

**1630**

**INTEGRATED MANAGEMENT SYSTEM**

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# 1 INTRODUCTION

## 1.1 PURPOSE

This Ancillary Facilities Establishment Plan has been developed to describe how impacts of ancillary facilities for the Shared Path Bridge (SPB) project will be effectively managed. This plan has been developed taking into consideration the Integrated Project Management Plan, Daracons Legal and Other Requirements including but not limited to relevant Acts, Regulations, Codes of Practice and Industry Standards / Guidelines.

In addition, the framework for this plan has been prepared to align with the Daracon Management System (DMS), AS/NZS & ISO Standards and Client requirements where applicable.

## 1.2 SCOPE

The project involves the construction of a new shared path bridge over Newcastle Road and associated works at Jesmond, within the City of Newcastle Local Government Area (LGA).

The scope of work required for the project involves the following specific activities:

- Site Establishment
- Vegetation clearing, including riparian vegetation, and topsoil stripping
- Earthworks, including excavation or filling
- Transportation of cut or fill materials
- Site access
- Drainage works
- Stockpiling of topsoil, vegetation and other construction materials
- Movement of heavy vehicles across exposed ground
- Demolition works to remove a redundant retaining wall and ramps structures
- Piling works to facilitate the construction of the SPB
- Construction of a new shared path bridge over Newcastle Road west of Steel Street;
- Concrete Ramps, stairs and retaining structures providing access to the new shared path bridge;
- Relocation of existing utilities including overhead electricity and underground water mains;
- Roadworks in Coles Street and Jesmond park to connect the new bridge to existing facilities;
- Roadworks for minor widening on the northern side of Newcastle road west of Steel Street;
- Removal of the existing mid-block pedestrian crossing and removal of the existing bus shelter and
- Miscellaneous works including erosion and sedimentation control, utility adjustments, the construction of earthworks, drainage, kerbs and/or gutters, pavement, safety barriers, concrete paving for the shared path, footpaths and driveways, pavement markings and vegetation works.

Other operations will be undertaken by Daracon that are considered normal in delivery of the above activities. Additional activities may also be realised at the request of the Client throughout the duration of the project.

See [Figure 1](#) outlining the Shared Path Bridge (SPB) Project Location on the following page.

**FIGURE 1 – SHARED PATH BRIDGE PROJECT LOCATION FROM SPIR**





## 1.3 CONSULTATION

### 1.3.1 CONSULTATION FOR PREPARATION OF THE AFEMP

This AFEMP was developed in consultation with the City of Newcastle (CoN) council in accordance with CoAs A5, A9 and A15 and revised EMM BD24. In accordance with CoA A5, the evidence of the consultation undertaken for the preparation of this AFEMP, this documented in the following table.

### 1.3.2 CONSULTATION LOG

**TABLE 1 – CONSULTATION LOG**

Stakeholder	Contact	Date	Correspondence Type	Description
CoN	[REDACTED]	13 June 2019	Email	Nil comments
Environmental Representative	[REDACTED]	16 August 2019	Email	Draft plan submitted 13/8/19 and found to satisfy requirements. Updated by Daracon and resubmitted 8/11/19.
CoN	[REDACTED] [REDACTED] [REDACTED]	17 September to 18 November 2019	Email	Tree protection plan and property licence agreement put in place

### 1.3.3 ONGOING CONSULTATION DURING CONSTRUCTION

Ongoing consultation between Roads and Maritime and Daracon, stakeholders, the community and CoN regarding the management of ancillary facilities will be undertaken during the construction of the SPB as required. The process for consultation is documented in the Construction Community Liaison Management Plan (CCLMP), which includes the key principals contained within the RP2J Community Communication Strategy (CCS) developed by Roads and Maritime.

## 2 OBJECTIVES AND TARGETS

### 2.1 OBJECTIVES

The objective of this plan is to ensure that Ancillary Facility Establishment impacts are minimised and managed during mobilisation and construction of the SPB Project.

### 2.2 TARGETS

Targets for the management of the ancillary facility sites during the construction of SPB are to;

- Undertake appropriate consultation with impacted residents, businesses and stakeholders
- Minimise impacts on, and complaints from, the community and stakeholders

### 3 SUB-PLAN REFERENCE DOCUMENTS

Daracon will comply with all legislation, standards and guidelines, client documents and project approvals, as nominated within the [Section 3](#) of this AFEMP.

#### 3.1 LEGISLATION

- Environmental Planning and Assessment Act 1979 (EP&A Act)
- Protection of the Environment Operations Act 1997 (POEO Act)
- Protection of the Environment Operations (General) Regulation 2009.

#### 3.2 STANDARDS, CODES OR GUIDELINES

- Stockpile Site Management Guideline, Roads and Maritime 2015

#### 3.3 CLIENT DOCUMENTS

**TABLE 2 – CLIENT DOCUMENTS**

Client Document Number and Name	
Document Number	Document Name
	Newcastle Inner City Bypass – Rankin Park to Jesmond Environmental Impact Statement (GHD, November 2016)
	Submissions and Preferred Infrastructure Report – Newcastle Inner City Bypass, Rankin Park to Jesmond (GHD, March 2018)
	NSW Department of Planning & Environment Minister’s Conditions of Approval (Feb 2019)
	Department of the Environment and Energy (DoEE) - Commonwealth Controlled Action Approval (April 2019)
QA Specification G1	Job Specific Requirements
QA Specification G36	Environmental Protection
QA Specification G38	Soil and Water Management
QA Specification G40	Clearing and Grubbing
QA Specification G10	Traffic Management
QA Specification G22	Work Health and Safety (Construction and Maintenance Works)
QA Specification Q6	Quality Management System (Type 6)

Where there are changes to the above document references, communication of changes that are applicable to this project will be communicated to all workers using a suitable means of communication as prescribed within this Sub-Plan.

### 3.4 PROJECT APPROVALS AND/OR LICENSING

The following approvals have been obtained by Roads and Maritime:

- EPBC Decision Notice dated October 2015 (confirming the RP2J project is a controlled action).
- Project Approval under Part 5.2 of the EP&A Act – SSI 6888 granted by the minister for planning on 15 February 2019.

All necessary licences, permits and approvals required for Daracon’s contracted works will be obtained and maintained as required throughout the life of the Project. Inspection and monitoring programs completed as part of this plan will ensure the control measures outlined in any of the above approvals, licenses or permits are complied with at all times.

### 3.5 HOLDPOINTS

Roads and Maritime specifications are a key source of environmental protection management processes relevant to this AFEMP. The specifications set out environmental protection requirements, including Hold Points, that will be complied with during construction of the SPB. A Hold Point is a point beyond which a work process must not proceed without express written authorisation from Roads and Maritime. Hold points applicable to soil ancillary facilities and management are provided in [Table 3](#).

**TABLE 3 – HOLDPOINTS APPLICABLE TO ANCILLARY FACILITIES MANAGEMENT**

Clause no.	Description
<b>Specification G01 – Job Specific Requirements</b>	
5.1	Use of portion of land leased by the Principal
5.2	Establishment of Site Facilities
14.1	Establishment of Site Facilities
<b>Specification G36 – Environmental Protection</b>	
4.13	Working in or near environmentally sensitive areas
4.15.2	Submission of pre-construction land condition assessment report for each area to be occupied for site facilities
<b>Specification G38 – Soil and Water Management</b>	
3.1	Submission of an ESCP(s) and, where required, WQMP for a section of the Work Under the Contract
3.1	Submission of written notice that measures set out in the ESCP for a section of the work have been installed
3.9	Commencement of any activities adjacent to Dark Creek

## 4 CONDITIONS OF APPROVAL

The Rankin Park to Jesmond Project proposal was subject to assessment and approval under the EP&A Act. The EPBC Act conditions directly reflect the EP&A Act conditions of approval. Subsequently, the NSW infrastructure Conditions of Approval (CoA) listed below in Table 4, detail the Commonwealth and State CoA's relevant to the AFEMP;

**TABLE 4 – COA RELEVANT TO THE AFEMP**

CoA	Requirement	Reference
A5	<p>Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary with the document. The evidence must include:</p> <ul style="list-style-type: none"> <li>(a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;</li> <li>(b) a log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them;</li> <li>(c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations;</li> <li>(d) outline of the issues raised by the identified party and how they have been addressed; and</li> <li>(e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.</li> </ul>	Clause 1.3
A14	<p>Ancillary facilities that are not identified in the documents listed in <b>Condition A1</b> can only be established and used in each case if:</p> <ul style="list-style-type: none"> <li>(a) they are located within or immediately adjacent to the construction boundary; and</li> <li>(b) they are not located next to a sensitive receiver (including where an access road is between the facility and the receiver), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and</li> <li>(c) they have no impacts on heritage items (including areas of archaeological sensitivity), and threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and</li> <li>(d) the establishment and use of the facility can be carried out and managed within the outcomes set out in the terms of this approval, including in relation to environmental, social and economic impacts.</li> </ul>	Clause 6.1

A15	<p>Before the establishment of any construction ancillary facilities (excluding minor construction ancillary facilities determined by the ER to have minimal environmental impact and those established under <b>Condition A19</b>), the Proponent must prepare an <b>Ancillary Facility Establishment Management Plan</b> which outlines the environmental management practices and procedures to be implemented for the establishment of construction ancillary facilities.</p>	This AEFMP
	<p>The <b>Ancillary Facility Establishment Management Plan</b> must be prepared in consultation with the City of Newcastle and relevant public authorities.</p>	Clause 1.3, 1.4, 1.5
	<p>The <b>Ancillary Facility Establishment Management Plan</b> must be submitted to the Planning Secretary for approval one (1) month before the establishment of any construction ancillary facilities.</p>	Refer CoA A16 ER Approval
	<p>The <b>Ancillary Facility Establishment Management Plan</b> must detail the management of construction ancillary facilities and include:</p>	Clause 5
	<p>(a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site);</p>	Appendix 1 Appendix 2 Appendix 3 (IPMP)
	<p>(b) figures illustrating the proposed operational site layout, including access roads;</p>	
	<p>(c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities, including an initial risk assessment undertaken prior to the commencement of site establishment works;</p>	GRA Environmental Risk Assessment Section 6 IPMP
<p>(d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to:</p> <p>(i) meet the performance outcomes stated in the documents listed in Condition A1, and</p> <p>(ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition;</p> <p>and</p>	Clause 2.2 Clause 8	
<p>(e) a program for monitoring the performance outcomes, including a program for construction noise monitoring.</p>	CNVMP	

	Nothing in this condition prevents the Proponent from preparing individual <b>Ancillary Facility Establishment Management Plans</b> for each construction ancillary facility.	This AFEMP applies to Compound D, E and stockpiling area.
A16	The requirements of <b>Condition A15</b> in relation to Bridge 7 may be addressed by the documents required under <b>Condition A9</b> .	ER Approval
A17	<p><b>Use of Construction Ancillary Facilities</b></p> <p>The use of a construction ancillary facility must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C4 and relevant Construction Monitoring Programs required by Condition C9 have been approved by the Planning Secretary.</p> <p>This condition does not apply to a construction ancillary facility determined by the ER to have minimal environmental impact and those established under Condition A19.</p>	Refer to CoA A18 ER Approval
A18	The requirements of <b>Condition A17</b> in relation to Bridge 7 may be addressed by the documents required under <b>Condition A9</b> .	ER Approval
A19	<p>Lunch sheds, office sheds, portable toilet facilities, material storage, parking and the like, that are not identified as a construction ancillary facility in the documents listed in <b>Condition A1</b>, can be established where they satisfy the following criteria:</p> <p>(a) are located within the construction boundary; and</p> <p>(b) have been assessed by the <b>ER</b> to have:</p> <p>(i) minimal amenity impact to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and</p> <p>(ii) minimal environmental impact with respect to waste management and flooding, and</p> <p>(iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.</p>	Clause 6.2
A20	Boundary screening must be erected around ancillary facilities that are adjacent to sensitive receivers, for the duration of works associated with the SSI, unless otherwise agreed with affected residents, business operators or landowners (including Newcastle City Council where it is the landowner).	Clause 8.1

A21	Boundary screening required under <b>Condition A20</b> of this approval must reduce visual, noise and air quality impacts on adjacent sensitive receivers.	Clause 8.1
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## 5 APPROVED ANCILLARY FACILITIES

### 5.1 KEY FEATURES

Ancillary facilities are defined in the Infrastructure Approval as:

*A temporary facility for construction of the SSI including an office and amenities compound, construction compound, material crushing and screening plant, batch plant, materials storage compound, maintenance workshop, testing laboratory and material stockpile area.*

*Where an approved CEMP contains a stockpile management protocol, a material stockpile area located within the construction boundary is not considered to be an ancillary facility*

The locations of Ancillary Facilities D, E, and the stockpiling area are, shown in [Appendix 1](#). Compound D is the main construction compound and the general arrangement is displayed in [Appendix 2](#). Compounds D and E are located on land leased by RMS from CoN.

Proposed activities to be conducted within the approved Ancillary Facilities are listed in [Table 5](#).

**TABLE 5 – PROPOSED ACTIVITIES**

Compound	Facility Access	Proposed Activities
Compound D	Robinson Avenue	<ul style="list-style-type: none"> <li>• Site offices and amenities</li> <li>• Containers with chemicals, tools etc</li> <li>• Storage of building supplies</li> <li>• Material stockpiles</li> <li>• Construction work for permanent infrastructure</li> <li>• Car parking for light vehicles</li> </ul>
Compound E	Coles Street	<ul style="list-style-type: none"> <li>• Site toilets</li> <li>• Laydown area for building supplies / stockpiles</li> <li>• Chemical storage</li> <li>• Construction work for permanent infrastructure</li> </ul>

### 5.2 PLANT AND EQUIPMENT

Plant, equipment and material required to be used and/or stored within ancillary facilities may include but not limited to items in [Table 6](#);

**TABLE 6 – REQUIRED PROJECT PLANT AND EQUIPMENT**

Item	Description
Plant	<ul style="list-style-type: none"> <li>• heavy vehicles (floats, semi-trailers, tipper/trailer)</li> <li>• light vehicles</li> <li>• excavators / backhoes</li> <li>• crane.</li> <li>• boring rig with associated pumps, containers and pumps</li> </ul>
Equipment	<ul style="list-style-type: none"> <li>• generators</li> <li>• hand tools - plate compactors, drills, shovels, etc</li> </ul>
Materials	<ul style="list-style-type: none"> <li>• re-enforcing steel</li> <li>• formwork (timber and prefabricated shutters)</li> <li>• prefabricated steel components (bridge, handrails, light posts street signs etc)</li> <li>• geofabric rolls</li> <li>• pre cast concrete units (e.g. culverts)</li> <li>• pipe (plastic and concrete)</li> <li>• imported sands and select fill material</li> <li>• topsoil (stockpile)</li> <li>• spoil (stockpile)</li> </ul>
Storage of hazardous and dangerous goods	<ul style="list-style-type: none"> <li>• bunded shipping container secure storage unit</li> <li>• liquid vessels / containers</li> <li>• concrete curing chemicals</li> <li>• paints</li> <li>• adhesives</li> <li>• cleaning products</li> <li>• small quantities of fuel in portable cans.</li> </ul>
Waste Storage	<ul style="list-style-type: none"> <li>• lidded bins for putrescible and office waste to prevent pests and vermin</li> <li>• open skip bins to store construction wastes</li> <li>• recycling bins</li> <li>• waste bulk materials like excavated soils, demolition wastes</li> </ul>

### 5.3 TIMING AND DURATION

The approved ancillary facilities will be established and commence operation following approval of this AFEMP, the CEMPP and prior to commencement of construction of the SPB as per the construction program.

Establishment of the approved ancillary facilities will form part of the pre-commencement works and are expected to take approximately two weeks to complete. These facilities will be temporary and will be removed after construction of the SPB is complete. Decommissioning and rehabilitation of the ancillary facilities will be undertaken as part of the finishing works towards the end of the construction program and will include:

- Fence, signage and temporary structure removal
- Site clean-up and surplus material disposal/removal
- Stabilisation and re-vegetation of the site in accordance with the landscape design.
- Reinstatement of all leased areas to the pre-existing condition unless otherwise agreed by the landholder (CoN).

#### **5.4 WORKING HOURS**

All work activities associated with the establishment and operation of the ancillary facilities shall be completed within the approved construction hours;

- 7:00 am to 6:00 pm Monday to Friday
- 8:00 am to 5:00 pm Saturday
- At no time on Sunday or public holidays

Any works to be undertaken outside of the pre-approved construction hours will be undertaken in accordance with the 'Out of Hours work protocol', detailed in the Construction Noise and Vibration Management Plan (CNVMP).

## 6 ANCILLARY FACILITIES – NOT ASSESSED IN THE EIS OR SPIR

### 6.1 NON-MINOR ANCILLARY FACILITIES

In accordance with the conditions of approval (A14), facilities not identified in the EIS or SPIR will only be established if;

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

If ancillary facilities which have not been identified in the EIS or SPIR are proposed, the facility proposal will be assessed against the above criteria prior to the establishment of the facility.

The plan proposes one non-minor ancillary facility that has not been identified as a construction ancillary facility in the SPIR. This is shown in [Appendix 1 and includes:](#)

- An extension to Compound D, outside the SPIR boundary but located immediately adjacent to the construction boundary and approved Compound D.

The proposed activities to be conducted within the non-minor Ancillary Facilities are listed in [Table 6A](#). The use of Plant and Equipment, the timing and duration of work and working hours in the proposed Minor Ancillary Facilities are outlined in Sections 5.2, 5.3 and 5.4 of this plan respectively.

A consistency assessment has been carried out for the Compound D extension, to assess the environmental impacts associated with this change relative to the Division 5.2 Approval and EPBC Approval. The assessment determined that the utilisation of the proposed ancillary facilities that were not assessed in the SPIR, is consistent with the approved project.

**TABLE 6A – PROPOSED ACTIVITIES IN NON-MINOR ANCILLARY FACILITIES**

Compound	Facility Access	Proposed Activities
Compound D extension	Newcastle Road	<ul style="list-style-type: none"> <li>• Site offices and amenities</li> <li>• Containers with chemicals, tools etc</li> <li>• Storage of building supplies</li> <li>• Parking of construction plant</li> </ul>

## 6.2 MINOR ANCILLARY FACILITIES

In accordance with the conditions of approval (A19) minor ancillary facilities, including lunch and office sheds, staff amenities, material storage, parking; the Environmental Representative (ER) can assess the impacts and approve the use of minor ancillary facilities.

In assessing minor ancillary facilities, the ER will consider the criteria in CoA A19, which can be summarised as follows;

- located within the construction boundary
- have minimal amenity impact to surrounding residences and businesses, after consideration of matters such as compliance with the *Interim Construction Noise Guideline* (DECC, 2009) traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts
- have minimal environmental impact with respect to waste management and flooding
- have no impacts on biodiversity, soil and water, and heritage items beyond those already approved under the RP2J Project Approval.

This plan proposes two minor ancillary facilities that have not been identified as a construction ancillary facility in the SPIR. These are shown in [Appendix 1](#) and include:

- An extension to Compound B, within the SPIR boundary and footprint of the Rankin Park to Jesmond Stage 4 work.
- A stockpiling area located within the existing road corridor at the southern end of the Newcastle Inners City Bypass (Shortland to Jesmond), adjacent to the roundabout adjoining Newcastle Road.

Proposed activities to be conducted within the Minor Ancillary Facilities are listed in [Table 7](#). The use of Plant and Equipment, the timing and duration of work and working hours in the proposed Minor Ancillary Facilities are outlined in Sections 5.2, 5.3 and 5.4 of this plan respectively.

**TABLE 7 – PROPOSED ACTIVITIES IN MINOR ANCILLARY FACILITIES**

Compound	Facility Access	Proposed Activities
Compound B extension	Newcastle Road	<ul style="list-style-type: none"> <li>• Possible site office amenities</li> <li>• Containers with chemicals, tools etc.</li> <li>• Storage of building supplies</li> <li>• </li> </ul>

Stockpile Area	Newcastle Inner City bypass / North of Jesmond Roundabout	<ul style="list-style-type: none"><li>• Stockpile of construction Materials</li><li>• Laydown area for building supplies / stockpiles</li></ul>
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## 7 ENVIRONMENTAL ASPECTS AND IMPACTS

The impacts were assessed as part of the SPIR in accordance with criteria for ancillary facility location set out in the critical SSI standard conditions of approval for linear infrastructure projects.

Additionally, this plan identifies areas not assessed as part of the SPIR. These areas have been considered in the plan as either:

- Minor Construction Ancillary Facilities in accordance with Condition of Approval A19, or
- Non-Minor Construction Ancillary Facilities in accordance with Condition of Approval A14, and Consistency Assessment against the approved project.

Establishment and operation of the ancillary facilities will result in a range of potential construction noise, air (dust), biodiversity, traffic and visual impacts, including those identified in the following [Table 7](#);

**TABLE 7 – ENVIRONMENTAL ASPECTS AND POTENTIAL IMPACTS**

Environmental Aspect	Potential Impact
Biodiversity	<ul style="list-style-type: none"> <li>• Clearing of native and exotic vegetation</li> <li>• Impacts to native vegetation</li> <li>• Impacts to fauna and fauna habitat</li> </ul>
Traffic and transport	<ul style="list-style-type: none"> <li>• Construction traffic impacts</li> <li>• Property access impacts</li> <li>• Public transport impacts</li> <li>• Parking impacts</li> </ul>
Soils, contamination and water quality	<ul style="list-style-type: none"> <li>• Impacts to water quality and soil erosion</li> <li>• Contamination and contaminated soil</li> <li>• Accidental spills during construction</li> <li>• Revegetation</li> </ul>
Noise and Vibration	<ul style="list-style-type: none"> <li>• Construction noise and vibration impacts</li> </ul>
Air Quality	<ul style="list-style-type: none"> <li>• General air quality impacts</li> </ul>
Heritage	<ul style="list-style-type: none"> <li>• Potential finds during construction</li> </ul>
Resource use and waste management	<ul style="list-style-type: none"> <li>• Construction waste</li> <li>• Surplus excavation material</li> <li>• Generation of waste by site personnel using offices and staff amenities</li> <li>• Generation of waste during establishment of ancillary facilities disposed of incorrectly, e.g. recyclable materials being sent to landfill</li> </ul>
Landscape character and visual impact	<ul style="list-style-type: none"> <li>• Landscape and visual impacts</li> <li>• Construction visual impacts</li> </ul>

Socio-economic, land use and property	<ul style="list-style-type: none"> <li>• Community consultation</li> <li>• Property acquisition</li> <li>• Impact to utilities</li> <li>• Impact to residences</li> <li>• Private property access</li> <li>• Pedestrian and cyclist access</li> <li>• Emergency services access</li> </ul>
Flooding and drainage	<ul style="list-style-type: none"> <li>• Flooding and stormwater impacts</li> <li>• Flooding impacts during construction</li> <li>• Drainage impacts during construction</li> </ul>
Groundwater	<ul style="list-style-type: none"> <li>• Groundwater discharge, dewatering and quality</li> </ul>
Greenhouse gas and climate change	<ul style="list-style-type: none"> <li>• Greenhouse gas emissions</li> </ul>

## 7.1 TRAFFIC AND ACCESS

Access to Ancillary Facility D will be via Robinson Avenue for all traffic. Once this Ancillary facility is established limited traffic movements will occur and will be restricted to deliveries and ablution facility maintenance.

Access to Ancillary facility E will be via will be via Steel Street, Robert Street, Hill Street and Coles Street for light vehicles and similarly via Newcastle Road for heavy vehicles and deliveries.

Access to the stockpiling area will be via the inner-city bypass. A detailed vehicle management plan has been developed to demonstrate access and egress for this location. Further information is provided in the Traffic Management Plan (Appendix 3 – IPMP).

## 7.2 FLORA AND FAUNA

Activities associated with the operation of Ancillary Facilities D and E have the potential to impact on flora and fauna. Jesmond Park is situated directly adjacent to Ancillary Facility D and approximately 30 m from Ancillary Facility E.

Activities associated Ancillary Facilities D and E that involve clearing of vegetation, works around watercourses, general earthworks, vehicle movements, storage of waste and use of chemicals have the potential to impact on flora and fauna. Further information is provided in the Construction Flora and Fauna Management Plan (Appendix 5 - CEMPP).

Activities associated with the stockpiling area, are expected to be of low impact on flora and fauna. Stockpiling will be contained to existing hardstand areas and there will be no vegetation clearing required at this location.



### 7.3 NOISE

Noise generated at ancillary facilities may arise due to the use of heavy vehicles and reversing beepers at stockpiles, laydown areas or maintenance facilities and loading operations during night-time work.

The location of noise sensitive receivers near the approved ancillary facilities are shown on the Sensitive Area Maps (Appendix 15 – CEMPP). The approximate distances to the noise sensitive receivers in the vicinity of the ancillary facilities are identified below [\(Table 8\)](#):

**TABLE 8 – DISTANCE TO SENSITIVE RECEIVERS**

Description	Distances to receivers (m)	
	Nearest	Typical
Residences – Coles Street	12	12 - 15
Residences – Kiah Avenue	43	>70
Residences – Steel Street	57	>60
Jesmond Park Uniting Church	19	-
Saint Margaret’s Anglican Church	80	-
Jesmond Park	0	100
Residents – Robert Street	60	>60
Residents – Michael Street	40	>40

Details of noise impacts associated with the operation of the approved ancillary facilities (Compound D and Compound E) are included in the CNVMP and summarised in the tables below.

Numbers of impacted sensitive residential receivers and maximum level of exceedance above the construction criterion for standard construction hours for Ancillary Facilities D and E are presented in [Table 9](#) below;

**TABLE 9 – PREDICTED CONSTRUCTION COMPOUND IMPACTS, STANDARD CONSTRUCTION HOURS, SENSITIVE RESIDENTIAL RECEIVERS**

Ancillary Facility	Number of potentially impacted sensitive residential receivers		Highest exceedance of construction criterion (dB(A))	
	Highly Affected	Standard Hours	Highly Affected	Standard Hours
D (S10d)	1	255	2	13
E (S10e)	8	268	8	18

Operations at Ancillary Facility D (S10d) are predicted to exceed construction NMLs at one sensitive non-residential receiver in NCA5 (Jesmond Uniting Church). Ancillary Facility E operations (S10e)

are predicted to exceed construction management levels at two sensitive non-residential receivers in NCA5 (Jesmond Uniting Church and Zaaras House – Refugee Women and Children’s Centre).

Numbers of impacted sensitive residential receivers and maximum level of exceedance for extended construction hours for Ancillary Facilities D and E are presented in the following [Table 10](#);

**TABLE 10 - PREDICTED CONSTRUCTION COMPOUND IMPACTS, EXTENDED CONSTRUCTION HOURS, SENSITIVE RESIDENTIAL RECEIVERS,**

Ancillary Facility	Number of potentially impacted sensitive residential receivers				Highest exceedance of construction criterion (dB(A))			
	Weekday 6am–7am	Weekday 6pm–7pm	Saturday 7am–8am	Saturday 1pm–5pm	Weekday 6am- 7am	Weekday 6pm–7pm	Saturday 7am–8am	Saturday 1pm–5pm
D (S10d)	604	474	586	789	16	15	19	21
E (S10e)	602	455	556	781	52	51	55	55

Operations of Ancillary Facility D (S10d) are predicted to exceed construction management levels at one sensitive non-residential receiver in NCA5 (Jesmond Uniting Church). Ancillary Facility E operations (S10e) are predicted to exceed construction NMLs at two sensitive non-residential receivers in NCA5 (Jesmond Uniting Church and Zaaras House – Refugee Women and Children’s Centre).

Numbers of impacted sensitive residential receivers and maximum level of exceedance for standard hours for Ancillary Facilities D and E are presented in [Table 11](#);

**TABLE 11 – PREDICTED CONSTRUCTION COMPOUND IMPACTS, OUT OF HOURS WORK, SENSITIVE RECEIVERS**

Construction Assessment Criteria	Number of potentially impacted sensitive receivers			Highest exceedance of construction criterion, dB(A)		
	Day	Evening	Night	Day	Evening	Night
Compound D Operations (S10d)	732	761	1250	18	21	31
Compound E operations (S10e)	714	742	1258	23	27	37

Compound D operations (S10d) are predicted to exceed construction NMLs at one sensitive non-residential receiver in NCA5 (Jesmond Uniting Church). Compound E operations (S10e) are predicted to exceed construction NMLs at two sensitive non-residential receivers in NCA5 (Jesmond Uniting Church and Zaaras House – Refugee Women and Children’s Centre).

There is the potential for sleep disturbance impacts, with consideration of the RNP sleep disturbance levels, if construction activities occur during the night-time period. Construction scenarios with the potential for sleep disturbance impacts in each potentially impacted NCA are presented in [Table 12](#).

**TABLE 12 – CONSTRUCTION SCENARIO POTENTIAL SLEEP DISTURBANCE**

Ancillary Facility	NCA3	NCA5	NCA7	NCA8
D (S10d)	✓	✓	✓	N/A
E (S10e)	✓	✓	✓	N/A

Note; ✓ indicates potential for sleep disturbance impacts

It must be noted the above noise generating scenarios (S10d and S10e) have been based on example scenarios for the establishment and operation of ancillary facilities, using typical plant and equipment. Construction works may utilise different equipment and the location of works will vary, influencing the predicted construction noise impacts.

### 7.3.1 ANCILLARY FACILITY - STOCKPILING AREA

It is anticipated that the establishment and operation of the stockpiling area will be of low impact and will impose no significant noise perception levels on the surrounding sensitive receivers. Receivers in close proximity to the stockpiling area are subject to existing traffic noise and it is anticipated that the operation of this ancillary facility will not generate noise levels above the current background and existing road traffic noise descriptors, refer [table 13](#) and [table 14](#).

The area will be utilised for stockpiling only and works in this area will primarily be restricted to standard working hours. It is anticipated the utilisation of plant will be restricted to the following operation;

- Road trucks
- Posi track
- Light vehicles

Background noise monitoring undertaken as part of the EIS shown in the table below, shows the existing noise levels surveyed at locations closest to the stockpiling location.

**TABLE 13 – EXISTING BACKGROUND NOISE LEVELS AT CLOSEST PROXIMITY TO STOCKPILING AREA L<sub>A90D(A)B</sub>**

Noise Monitoring Location	Distance to Monitoring Location (m)	Day (7am – 6pm)	Evening (6pm – 10pm)	Night (10pm – 7pm)
L04: 53 Roberts Street	110	55	51	41
L05: 4 Crest Road	480	47	46	36
L06: 11 Myall Street	340	46	44	35

Background and existing road traffic noise descriptors are displayed in the following table. The operation of the stockpiling area is expected to be consistent with these levels, and no significant impact to residential receiver is expected.

**TABLE 14 – BACKGROUND AND EXISTING ROAD TRAFFIC NOISE DESCRIPTORS**

Noise Monitoring Location	Distance to Monitoring Location (m)	Day (7am – 6pm)	Evening (6pm – 10pm)	Night (10pm – 7pm)
L04: 53 Roberts Street	110	62	56	63
L05: 4 Crest Road	480	58	54	59
L06: 11 Myall Street	340	53	48	54

In accordance with the Construction Noise and Vibration Management Plan (CNVMP), noise monitoring will be undertaken to verify the specific noise levels and the potential impacts to sensitive receivers whilst this ancillary facility is established and operational.

#### 7.4 WATER QUALITY

Activities associated with the operation of Ancillary Facilities D and E have the potential to cause water quality impacts. Dark Creek, a concrete lined channel, is situated directly adjacent to Ancillary Facility D and is approximately 30 m from Ancillary Facility E.

Activities associated with the stockpiling area are expected to have minimal impact with regards to water quality, as all stockpiling will be contained to existing hardstand areas and there will be no earthworks or clearing undertaken in this location.

Construction activities that involve handling, disturbance and management of materials have the potential to cause water quality impacts during construction. Establishment and operation of ancillary facilities will involve vegetation clearing, the disturbance and exposure of surfaces, operation of plant and machinery and haulage of materials. These activities may generate increased potential for off-site transport of sediments and pollutants. Further information is provided in the Soil and Water Management Plan (Appendix 10 - CEMPP).

#### 7.5 AIR QUALITY

Operation of Ancillary Facilities D, E and the stockpiling area has the potential to generate dust and other emissions. Construction activities that involve handling, disturbance and management of materials have the highest potential to generate air quality impacts during construction.

Establishment and operation of ancillary facilities will involve vegetation clearing, the disturbance and exposure of surfaces, operation of plant and machinery and haulage of materials. These activities may generate increased dust and debris that may settle on nearby properties, causing a

disturbance to residents and business owners located near ancillary facilities. Substantial dust generation could result in health impacts to nearby receivers. Further information is provided in the Air Quality Management Plan (Appendix 3 - CEMPP).

## **7.6 WASTE MANAGEMENT**

Waste generated and stored at Ancillary Facilities D, E and the stockpiling area during construction of the SPB will primarily be from civil works associated with site preparation, construction of bridge and road infrastructure and landscaping. This will create various waste streams that could have the potential to impact the environment if not handled and stored appropriately. Further information is provided in the Resource and Waste Management Plan (Appendix 9 - CEMPP).

## **7.7 FLOOD RISK**

Ancillary Facility D is located immediately to the west of Dark Creek and has the potential to be impacted by flooding due to surcharging of Dark Creek during construction of the SPB. Flood flows are generally contained within Dark Creek during the 20-year ARI event, but overtopping may occur during the 100-year ARI event, which could result in minor encroachment on the western boundary of Ancillary Facility D. Greater impacts would result if floods in excess of the 100-year ARI event occurred.

Ancillary Facility E and the stockpiling area are not predicted to be impacted by flooding, as they are located above the 20-year ARI flooding event. Further information is provided in the Flood Risk Management Plan (Appendix 6 - CEMPP).

## 8 ENVIRONMENTAL MANAGEMENT MEASURES

In accordance with the SPIR / EIS, the following environmental management measures have been developed to minimise potential impacts on Ancillary Facility Establishment Management. Relative management measures applicable to the AFEMP during construction are identified in [Table 15](#).

In addition, revised EMM's identified in the EIS and SPIR, that are relevant to facility are provided in the following CEMPP Subplans;

- Traffic Management Plans – ancillary facility access locations and haulage routes
- Construction Flora and Fauna Management Plan (CFFMP) – procedures for vegetation clearance and retention
- Construction Noise and Vibration Monitoring Plan (CNVMP) – location of sensitive receivers, hours of work, noise and vibration management measures
- Soil and Water Management Plan (SWMP) – Erosion and sediment control planning
- Air Quality Management Plan (AQMP) – dust and emission management
- Resource and Waste Management Plan (RWMP) – waste and resource management procedures
- Construction Flood Risk Management Plan (CFRMP) – flooding and drainage mitigation measures;

**TABLE 15 – ENVIRONMENTAL MANAGEMENT MEASURES**

No.	Environmental Safeguards	Daracon Reference	Responsibility	Timing
NV14	<p>Where reasonable and feasible, measures will be taken to shield sensitive receivers from noise such as:</p> <ul style="list-style-type: none"> <li>• The layout of the construction compound so that primary noise sources are at a maximum distance from residences, with solid structures (sheds, containers, etc.) placed between residences and noise sources (and as close to the noise sources as is practical).</li> <li>• Enclosures to shield fixed noise sources such as pumps, compressors, fans, screens (where practicable).</li> <li>• Taking advantage of site topography when situating plant.</li> </ul>	This AFEMP CNVMP	Daracon	Construction

Specific environmental management measures and requirements to address the management of ancillary facilities, in accordance with the EIS, SPIR and Roads and Maritime specification G36 are detailed below;;

## 8.1 GENERAL

The following general mitigation and management measures for ancillary facilities D and E will be implemented to meet the requirements of the EIS, SPIR and RMS Specification (G36);

- the ancillary facilities and other temporary infrastructure will be located and managed to minimise impacts on the environment and the community
- The City of Newcastle will be consulted in relation to any proposed clearing for Ancillary Facility E, adjacent to Jesmond Park
- potential impacts to areas of significant biodiversity such as areas of native vegetation will be avoided
- the layout of each ancillary facility site will be planned to retain as many existing trees as possible and to minimise plant and vehicle movements
- protective fencing will be placed around trees to be retained
- parking of vehicles and machinery within the drip line of any trees to be retained will not be allowed
- temporary infrastructure will be located outside areas that are subject to flooding where possible
- surrounding residents and sensitive receivers will be notified of proposed access provisions for ancillary facilities, the times of operation and the expected duration of use of these facilities
- site facilities, stockpiles, buildings, plant and equipment storage areas etc. will be located to minimise the visual impact on surrounding residences
- the location and direction of lighting for ancillary facilities and stockpile areas will be considered to minimise the impact and light spillage into adjacent residences
- all chemicals, paints, fuel and liquids will be stored within a bunded impervious area (with waterproof canopy to prevent influx of water into the bund) at the ancillary facilities
- refuelling of all machinery will be undertaken in an appropriately bunded area on an impervious surface
- the Erosion and Sedimentation Control Plan (refer to SWMP) will include Ancillary Facilities D and E, stockpile sites and other storage areas
- the toe of stockpiles will not be any closer than 3 m to a fence, drain or existing trees to be retained, unless otherwise approved by Roads and Maritime
- perimeter fencing around the ancillary facilities will include shade cloth, hessian or similar fabric to screen the site from passers-by and to prevent the overspill of light into adjoining residences at night
- designated parking areas will be identified and marked within each ancillary facility

- any potential noise and vibration impacts generated by the use of the ancillary facilities will be included in the community consultation program for the works if located in close proximity to sensitive receivers
- construction facilities will be located to maximise noise shielding for residential receivers
- noisy activities within the ancillary facilities will be planned for parts of the day when they will have least impact on residential receivers
- unnecessary idling of machinery and plant will not occur
- the ancillary facilities will be maintained in a tidy condition and free of rubbish at the end of each work day
- separate bins will be provided in the ancillary facilities to promote recycling of materials such as paper, cardboard, glass, plastics and metals
- appropriate containers will be provided in a locked storage area to store waste oils, liquids, fuels and chemicals
- signs will be erected in the ancillary facilities to encourage site personnel to minimise waste creation and dispose of waste correctly.

In accordance with CoA A20, boundary screening will be erected around Ancillary Facilities D, E, and the stockpiling area where adjacent to sensitive receivers for the duration of the project unless otherwise agreed with affected residents, business operators or landowners (including CoN where it is the landowner). The boundary screening must reduce visual, noise and air quality impacts on adjacent sensitive receivers, as required by CoA A21.

## 8.2 PRE AND POST CONSTRUCTION LAND CONDITION

### 8.2.1 PRE-CONSTRUCTION LAND CONDITION ASSESSMENT

A pre-construction land condition assessment will be undertaken prior to possession of the land designated for Ancillary Facilities D and E, including areas for construction materials storage and stockpiling.

The pre-construction land condition assessment will be undertaken by an independent environmental consultant, whom is approved by RMS and appropriately qualified to undertake environmental inspections and has experience with construction waste management.

The pre-construction land condition assessment report will include text, photographs and maps to describe any existing waste or stored materials on the site. The report will be prepared in accordance with *Management of Wastes on Roads and Maritime Services Land* (Roads and Maritime, 2014).

A pre-construction land condition assessment will be undertaken for any areas, additional to those nominated, that have been authorised by RMS and the necessary project planning approvals for the intended use of the land will be obtained.

The pre-construction land condition assessment report will be submitted to the Roads and Maritime Environmental Manager (or delegate) for approval, prior to establishment of Ancillary Facilities D, E



and the stockpiling area. The Roads and Maritime Environmental Manager (or delegate) may also undertake an inspection of the ancillary facility sites prior to commencement of establishment activities.

### **8.2.2 POST CONSTRUCTION LAND CONDITION ASSESSMENT**

At the completion of the construction of the SPB, ancillary facilities D, E and the stockpiling area will be decommissioned and any disturbed land rehabilitated and landscaped. Disturbed areas will be restored to a condition similar to that existing before disturbance, unless otherwise authorised by Roads and Maritime.

Restoration will include spill clean-up and soil remediation where applicable, topsoiling of the area, weed control and seeding, planting, watering and maintenance, removal of temporary erosion control devices and of sediment in drainage lines plus removal of unused construction materials.

Following restoration works a post condition land assessment will be conducted by an independent environmental consultant, whom is approved by RMS and appropriately qualified.

The report will be prepared in accordance with *Management of Wastes on Roads and Maritime Services Land* (Roads and Maritime, 2014), and submitted to the RMS environmental representative.

If required by the post-construction land condition assessment report, additional restoration works will be undertaken to ensure all waste is removed and the site returned to pre-construction condition.

The Roads and Maritime Environmental Manager, or delegate, may also undertake an inspection of the ancillary facility sites, prior to approving that they have been restored.

## 9 COMPLIANCE MANAGEMENT

### 9.1 ROLES AND RESPONSIBILITIES

The organisational structure and roles and responsibilities for Daracon personnel are provided within IPMP (refer IPMP – Appendix 2). The roles and responsibilities specific to the construction of the SPB are provided within IPMP, which displays the organisational chart for the project (refer IPMP – Appendix 1).

#### 9.1.1 PROJECT MANAGER

The Project Manager (PM) will be responsible for the implementation and maintenance of Ancillary Facilities for the duration of the SBP.

#### 9.1.2 ENVIRONMENTAL CONSULTANT

An independent environmental consultant will undertake a pre-construction land condition assessment prior to taking possession of land to identify any existing waste or stored materials within the SPB project boundary. Additionally, a post construction land condition assessment will be completed for any disturbed areas, to verify no unauthorised project waste remains within the SPB project boundary prior to returning the land to the principal.

### 9.2 COMMUNICATION

Communication with stakeholders and the community is detailed within the Construction Community Liaison Management Plan (CCLMP), which includes the key aspects identified within the Community Communication Strategy (CCS) developed by RMS.

Ancillary facilities management information will be communicated to the community and stakeholders in accordance with the principles and procedures outlined CCLMP.

### 9.3 COMPLAINTS MANAGEMENT

The management of complaints for the SPB will be in accordance with the Construction Community Liaison Management Plan (CCLMP), which includes the key aspects identified within the Complaints Management System (CMS) developed by RMS.

### 9.4 TRAINING

To ensure the effective implementation of this AFEMP, personnel will undergo training relating to Ancillary facilities management issues. This training will include;

- AFEMP requirements, including ESCP's and PIRMP
- Incident Response
- Site inductions

- Environmentally Safe Work Methods (EWMS)
- Tool Box Talks – focused on environmental aspects
- Soil and water management
- Noise and Vibration Protocol
- Traffic management, access and egress
- Flood warning and evacuation
- Handling and disposal of hazardous goods and materials
- Vegetation clearing sensitive areas and exclusion zones
- Waste and recycling.

For further details on training refer to section 8 of the IPMP, and section 5.5 of the CEMP.

## 9.5 MONITORING AND INSPECTIONS

In accordance section 5.9 of the CEMP, weekly inspections of the SPB site, including Ancillary Facilities D, E and stockpiling areas will occur for the duration of the SPB construction. The ESR or delegate, will undertake these inspections and record findings within an Environmental Inspection Report (refer [Appendix 3](#)).

## 9.6 INCIDENTS

Incidents will be managed in accordance with Section 9 of the IPMP and Section 6.11 of the CEMP.

## 9.7 AUDITING

Audits (both internal and external) will be undertaken to assess the effectiveness of the ancillary facilities management, compliance with this AFEMP, conditions of approval and other relevant approvals, licenses and guidelines. Audit requirements are detailed in Section 11.4 of the IPMP and Section 5.9 of the CEMP.

## 9.8 NON-CONFORMANCES

A non-conformance is the failure or refusal to comply with the requirements of project system documentation, including this AEFMP. Non-conformances may be identified through auditing and review processes (Section 11.4 of the IPMP and section 5.9 of the CEMP), monitoring and inspection processes (Section 11 of the IPMP) or incident management (Section 9 of the IPMP and Section 6.11 of the CEMP).

## 9.9 REPORTING

Reporting requirements and responsibilities are documented in Section 5.11 of the IPMP and section 5.11 of the CEMP.

Records for AFEMP will include, but not limited to;

- Pre-construction land condition assessment reports
- Post-construction land condition assessment reports

In addition to the pre/post land condition assessment reports the following aspects will be reported;

- Environmental Inspection Reports
- Operational noise & vibration monitoring – in accordance with the CNVMP
- Ancillary Facilities to be included within ESCP's

## 10 REVIEW AND IMPROVEMENT

### 10.1 CONTINUOUS IMPROVEMENT

Continuous improvement of this AFEMP 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 will be designed to:

- identify areas of opportunity for improvement of environmental management and performance
- identify environmental risks not already included in the risk register
- 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
- make comparisons with objectives and targets.

### 10.2 AFEMP UPDATE AND AMENDMENT

The processes described in section 11 of the IPMP may result in the need to update or revise this AFEMP. This will occur as needed.

Any revisions and/or changes to the AFEMP will be distributed to all relevant stakeholders in accordance with the approved document control procedure detailed in section 13 of the IPMP.

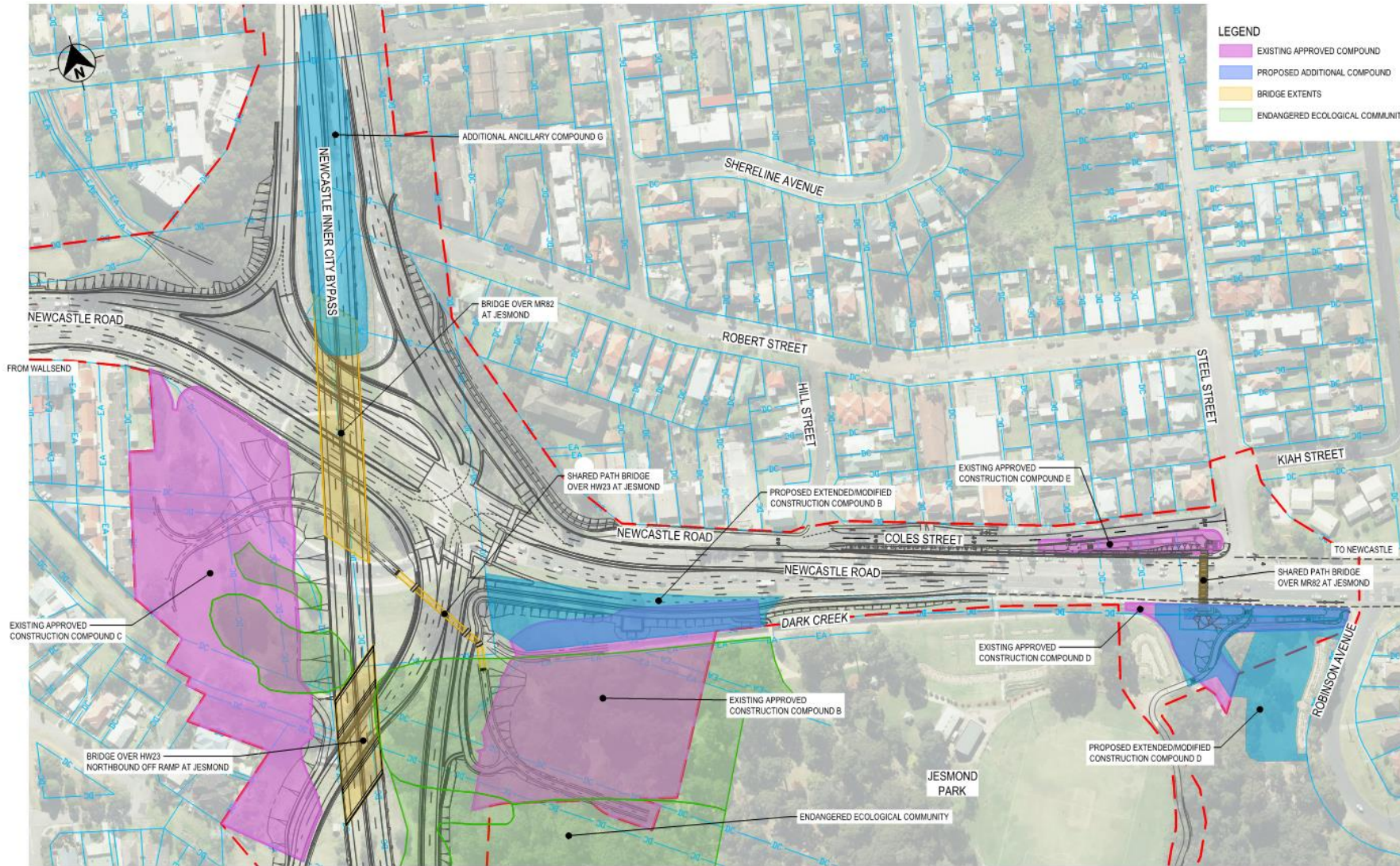
## 11 DEFINITIONS

All terms referenced within this plan are included within [REG.00001](#) *Definitions & Glossary of Terms Register*.

## 12 ASSOCIATED DOCUMENTS AND PROCEDURES

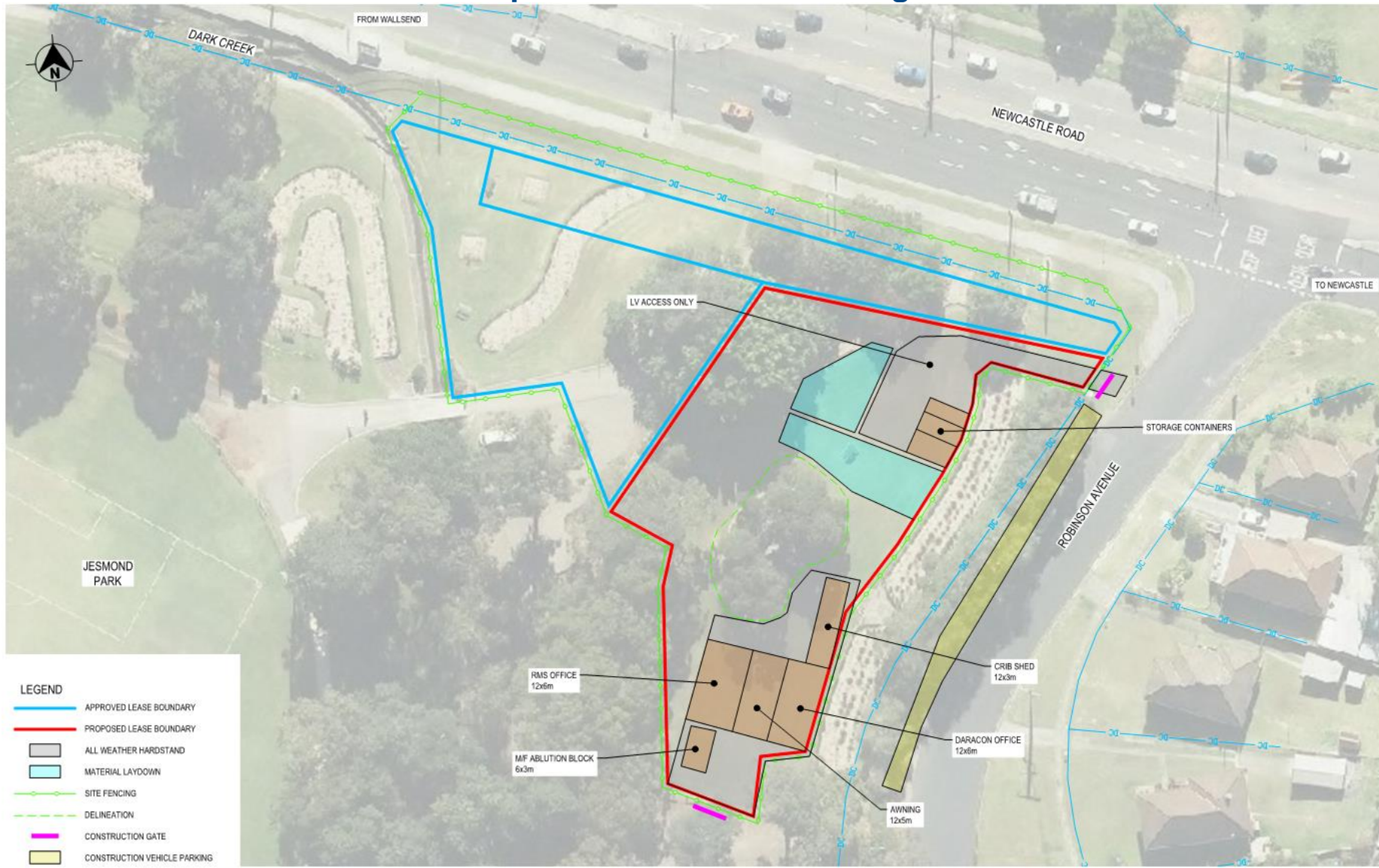
Approved Forms, Process Flowcharts, Registers and/or other documents referenced within the body of, or those that are associated with this plan, are accessible and made available for all Daracon personnel via the following link: <https://dms.daracon.com.au/documents>

## APPENDIX 1 Proposed Ancillary Facilities



**Compound Areas D and E – approved and proposed compound areas**

## APPENDIX 2 Construction Compound D – General Arrangement



## APPENDIX 3 Environmental Inspection report



IM-REP-0503-001  
Environmental Inspe