

BUSHFIRE EMERGENCY AND EVACUATION PLAN

Moorebank Precinct East Stage 2 -
SSD 7628

Moorebank Intermodal Precinct – Precinct East Stage 2

SSD 7628

Bushfire Emergency and Evacuation Plan

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Revisions

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002	3/04/2018	Update with ER comments	█	█
003	14/06/2018	Update with minor ER comments	█	█
004	27/09/2018	Updated to reflect issue of Moorebank Precinct EPL and RfMA 002	█	█
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008	20/12/2019	Updated to address ER comments, and the approved CTAMP-B	█	█
009	16/01/2020	Updated to address ER comments	█	█
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10a	27/08/2020	<ul style="list-style-type: none"> Updated to include contact details as requested by DPIE 	█	█
11	19/03/2021	Updates associated with:		

Revision	Date	Description	Prepared by	Approved by
		<ul style="list-style-type: none"> RfMA-039 – Corrections and update to Extended Hours Works Plan, and revision to construction program RfMA-040 – Additional compound for light vehicle parking and break facilities SSD 7268 – MOD3 SSD 7628 – MOD4 		
12	17/07/2022	Updates associated with: <ul style="list-style-type: none"> SSD 7628 MOD1 WH 6&7 amended layout 	■	■
013	03/12/2024	Updates associated with: <ul style="list-style-type: none"> SSD 7628 MOD5 RfMA-042 - Figure 3-2 of Moorebank Precinct East (LOGOS compound) RfMA-043 – Early works for MARW on MPE S2 Site RfMA-044 - Figure 3-2 of Moorebank Precinct East (MAUW compound) RfMA-045 - Figure 3-2 of Moorebank Precinct East (Temporary Storage Compound) Administrative updates to reflect development status 	■	■

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The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client).

Should additional information become available which may affect the opinions expressed in this report, Aspect Environmental Pty Ltd reserves the right to review such information and, if warranted, to modify the opinions accordingly.

Acronyms and Definitions

Acronym / Term	Meaning
APZ	Asset Protection Zone
BEEP	Bushfire Emergency and Evacuation Plan
CBMP	Construction Bushfire Management Plan
CEMP	Construction Environmental Management Plan
CMM	Commonwealth Mitigation Measures
CoCs	Conditions of Consent
Contractor's CM	Contractor's Construction Manager
Contractor's EM	Contractor's Environmental Manager
Contractor's WM	Contractor's Works package Manager
Development, the	Stage 2 of the MPE Concept Approval (MP 10_0193) approved as the MPE Stage 2 Development (SSD 7628) as consolidated. It involves the construction and operation of warehousing and distribution facilities on the MPE Site and upgrades to approximately 1.5 kilometres of Moorebank Avenue.
Development site	The subject of the MPE Stage 2 EIS, the part of the MPE Site which includes all areas to be disturbed by the Development (including the operational area and construction area).
DP&E	Department of Planning & Environment (now DPIE)
DPIE	Department of Planning, Industry and Environment (formerly DP&E)
DPHI	Department of Planning, Housing and Infrastructure (formerly DPIE)
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
EPBC Act	Environmental Protection and Biodiversity Conservation Act 1999
EPL	Environment Protection Licence
ER	Environmental Representative
ESR	the Developer
EWEMP	Early Works Environmental Management Plan
IPA	Inner Protection Area
MARW	Moorebank Avenue Realignment Works

Acronym / Term	Meaning
MPE	Moorebank Precinct East
MPW	Moorebank Precinct West
Non-compliance	An occurrence, set of circumstances, or development that results in a non-compliance or is non-compliant with Development Consent SSD 7628 Conditions of Consent or EPBC Act Approval (EPBC 2011/6229) Conditions of Approval but is not an incident.
Non-conformance	Observations or actions that are not in strict accordance with the CEMP and the aspect specific sub-plan.
RDO	Rostered Day Off
RtS	Response to Submissions
SSD	State significant development

Table of Contents

1.	Background	10
1.1.	Development Ownership	10
1.2.	Introduction	10
1.3.	Development Consent	13
1.4.	Development Delivery Phase	13
1.5.	Purpose and Application	14
1.6.	Objectives and Targets	14
2.	Environmental Management	15
2.1.	Legal and Other Requirements	15
2.2.	Development Consent Compliance Matrices	16
2.3.	Roles and Responsibilities	17
2.4.	Training	19
2.5.	Incident Response	19
3.	Implementation	20
3.1.	Bushfire Risk	20
3.2.	Facility Details	22
3.3.	Emergency Planning Committee	22
3.4.	Emergency Contacts	25
3.4.1.	Sheltering (Primary)	26
3.4.2.	Procedure	28
3.5.	Evacuation	29
3.5.1.	Refuge	29
3.5.2.	Transportation Arrangements	29
3.5.3.	Procedures	31
3.6.	Management Measures	32
4.	Monitor and Review	36
4.1.	Environmental Monitoring	36
4.2.	Environmental Auditing and Reporting	36
4.3.	Non-compliances, Non-conformance and Actions	36
4.4.	Review and Improvement	36

List of Tables

Table 1-1 Development Delivery Phase Terminology	13
Table 1-2 Objectives and Targets	14
Table 2-1 Legislation, Planning Instruments and Guidelines	15
Table 2-2 Roles and Responsibilities	17
Table 3-1 Emergency Planning Committee	23

Table 3-2 Emergency Contacts	25
Table 3-3 Sheltering Procedure.....	28
Table 3-4 Evacuation Procedure	31
Table 3-4 Management Measures.....	33
Table 4-1 Conditions of Consent	38
Table 4-2 Final Compilation of Mitigation Measures	42

List of Figures

Figure 1-1 Site Location.....	12
Figure 3-1 Certified Liverpool Bushfire Prone Land Map	21
Figure 3-2 Assembly Points and Evacuation Route	27
Figure 3-3 Regional Context of the Development	30

1. Background

Approval for the construction and operation of Stage 2 of the Moorebank Precinct East (MPE) Development, operated by ESR Australia & NZ (formerly LOGOS), which comprises the second stage of development under the MPE Concept Approval (MP10_0193) was received 31 January 2018 (State significant development (SSD) 7628)), as consolidated.

This Bushfire Emergency and Evacuation Plan (BEEP) has been developed to manage bushfire risks during the construction phase of the MPE Stage 2 Development (hereafter, 'the Development').

Within this plan, a strategy has been established to demonstrate the Construction Contractor's approach to the management of bushfire risk. This BEEP addresses the relevant requirements of the Development Approvals, including the Environmental Impact Statement (EIS), Response to Submissions (RtS) and Minister's Conditions of Consent (CoCs), and all applicable guidelines and standards specific to the management of bushfires during construction of the Development.

1.1. Development Ownership

In 2022, LOGOS joined the ESR group of companies and since August 2024, the LOGOS and ESR operations have been integrated to now operate under the name ESR Australia & NZ (ESR). The applicant/ approval holder entity remains unchanged at this stage until further notice and references to LOGOS and LOGOS authored documents and/or plans may continue and remains relevant where LOGOS and ESR are used interchangeably.

1.2. Introduction

The MPE Site, including the Development site, is located approximately 27km south-west of the Sydney Central Business District and approximately 26km west of Port Botany and includes the former Defence National Storage and Distribution Centre site. The MPE Site is situated within the Liverpool Local Government Area, in Sydney's south-west subregion, approximately 2.5km from the Liverpool City Centre.

The MPE Development involves the development of an intermodal facility including warehouse and distribution facilities, freight village (ancillary site and operational services), stormwater, landscaping, servicing and associated works on the eastern side of Moorebank Avenue, Moorebank.

Stage 2 of the MPE Development (the Development) involves the construction and operation of warehousing and distribution facilities on the MPE Site and upgrades to approximately 2.1km of Moorebank Avenue.

Key components of the Development include:

- Earthworks including the importation of 600,000m³ of fill and vegetation clearing
- Importation, stockpiling and placement of up to 250,000m³ of suitable spoil (separate to the 600,000m³ of imported clean general fill permitted for bulk earthworks)
- Approximately 300,000m² gross floor area gross floor area of warehousing and ancillary offices
- Warehouse fit-out

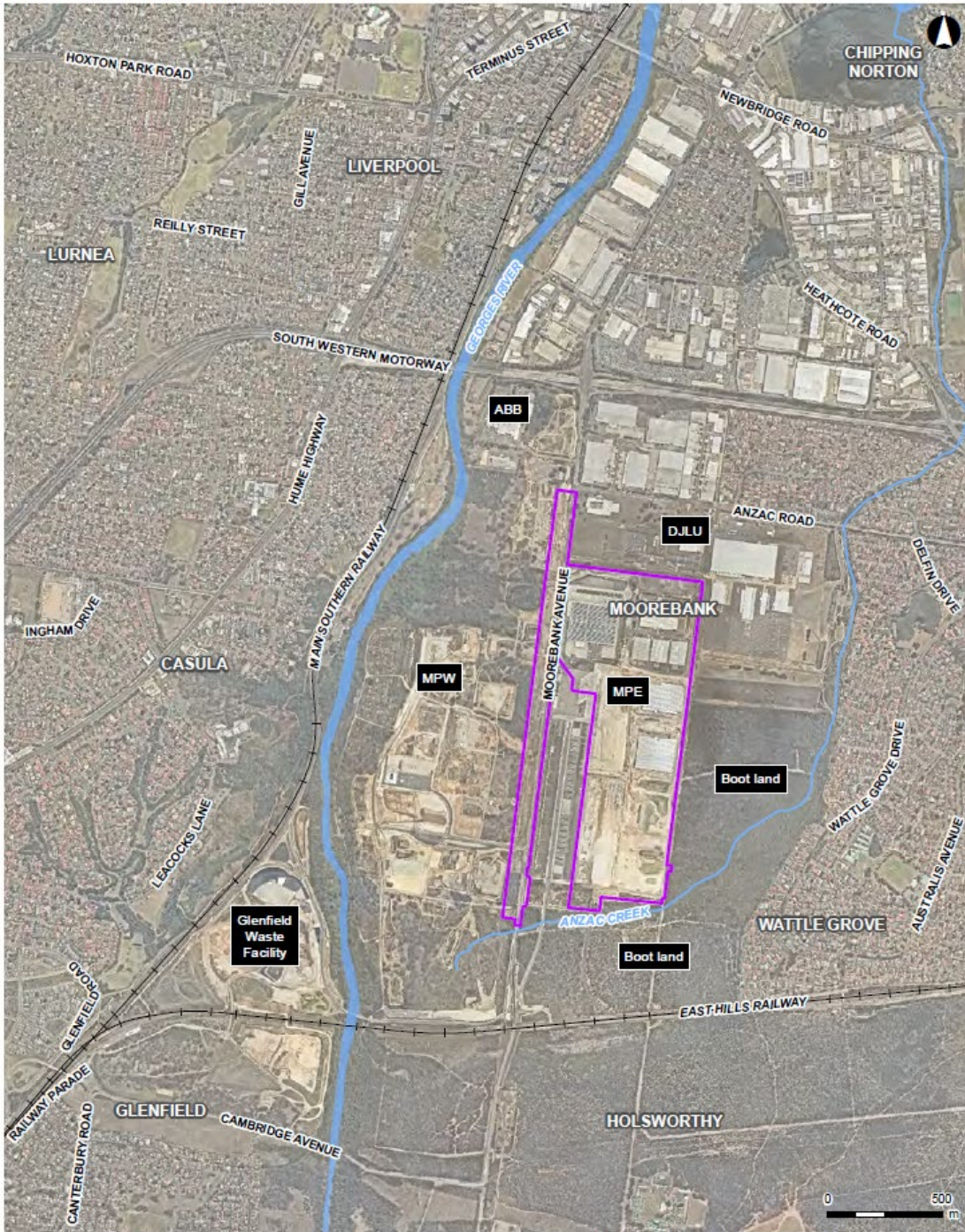
- Freight village, 8,000m² gross floor area of ancillary retail, commercial and light industrial land uses
- Internal road network and hardstand across the site
- Ancillary supporting infrastructure within the site, including:
 - Stormwater, drainage and flooding infrastructure
 - Utilities relocation/installation
 - Fencing, signage, lighting, remediation and landscaping
- Moorebank Avenue upgrade including:
 - Raising by about two metres and some widening
 - Embankments and tie-ins to existing Moorebank Avenue road levels
 - Signalling and intersection works
- Intersection upgrades along Moorebank Avenue including:
 - Moorebank Avenue/MPE Stage 2 access
 - Moorebank Avenue/MPE Stage 1 northern access
 - Moorebank Avenue/MPE Stage 2 central access
 - Moorebank Precinct West (MPW) Southern Access/MPE Stage 2 southern emergency access.

The location of the Development site is shown in Figure 1-1.

Moorebank Avenue Realignment Works (MARW) was approved by the NSW Minister for Planning on 14 October 2021 as State Significant Infrastructure (SSI-10053) (Infrastructure Approval) under Division 5.2 of the Environmental Planning and Assessment Act 1979 (EP&A Act). It is also a controlled action under Section 130(1) and 133(1) of the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and was approved by the Minister for the Environment on 7 December 2021 (EPBC Approval 2020-8839).

The footprint of MARW, which generally runs along the northern and eastern boundary of the MPE Site, interfaces and encroaches on the MPE Site. In order to allow for progression of construction works for MARW (in particular, the northern carriageway), some early preparatory works are required that are located within the MPE Site (where the project boundaries overlap). These works are undertaken under the MPE CEMP, with the MARW CEMP not being relevant to these works.

Bushfire Emergency Evacuation Plan



- LEGEND**
- Current MPE Stage 2 construction area
 - Existing railway
 - Watercourse

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 P: +61 (0) 2 8907 9000 | F: +61 (0) 2 8907 9001
 Coordinate System: GDA 1984 MGA Zone 56
 Aerial Imagery supplied by newmap (Jan, 2020)

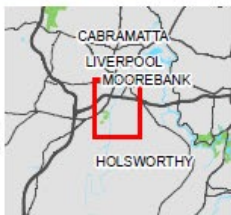


Figure 1-1: Site Location

Date: 4/03/2020 Path: h:\h-aus-ns-b-01\jobs\A0087551\GIS\A_Current\B_Maps\MPE\2\MPE\2_CEMP\SIMTA_MPE\2_CEMP_008_SiteOverview_AAP_v5.mxd
 Created by: TT
 QA by: RM

Figure 1-1 Site Location

1.3. Development Consent

The Development was assessed by the Department of Planning and Environment (DP&E) under Part 4.1 (now Division 4.7 as of 1 March 2018) of the EP&A Act as SSD. The Planning Assessment Commission granted approval for the Development on 31 January 2018 and is subject to the Minister’s CoCs (SSD 7628) as consolidated. The Development has been subsequently modified. The Development, including its potential impacts, consultation and proposed mitigation and management, is documented in the following suite of documents:

- SSD consent SSD 7628, as consolidated
- SSD partial consent (subdivision) SSD 7628, as consolidated
- Moorebank Precinct East – Stage 2 – Environmental Impact Statement (Arcadis Australia Pacific Pty Limited, December 2016)
- Moorebank Precinct East – Stage 2 – Response to Submissions (Arcadis Australia Pacific Pty Limited, July 2017).

1.4. Development Delivery Phase

The Development construction period is anticipated to be approximately five years, which will be generally divided into three works phases.

The terminology for the Development phases was developed from the EIS and RtS documentation in response to the language of the CoCs and the need to stage the delivery of the environmental management documentation required by the CoCs. Current terminology, and the equivalent terminology from the CoCs and RtS are included in Table 1-1.

Table 1-1 Development Delivery Phase Terminology

Development Delivery Phase	CoC A18 Phase Equivalent	MPE Stage 2 RtS Works Period Equivalent
Early Works	Early works	Works Period A: Pre-construction
	Fill importation (to 60,000m ³)	Works Period B: Site preparation
Construction Phase A	Fill importation Construction	Works Period B: Site preparation
		Works Period E: Bulk Earthworks, drainage and utilities
		Works Period F: Construction and internal fit out of warehousing
Construction Phase B	Fill importation Construction	Works Period G: Miscellaneous construction works
		Works Period C: Construction of Moorebank Avenue Diversion Road
		Works Period D: Pavement and intersection works along Moorebank Avenue

Development Delivery Phase **CoC A18 Phase Equivalent** **MPE Stage 2 RtS Works Period Equivalent**

Works Period E: Bulk Earthworks, drainage and utilities

Additional detail of the Development delivery phases is included in the CEMP.

1.5. Purpose and Application

This BEEP has been developed for the construction period of the Development, to address the CoCs and the FCMMs, and forms part of the CEMP required by CoC C1 and C3. A BEEP will be prepared for the operational phase of the Development and submitted to the Secretary, NSW Rural Fire Service, Council and the Certifying Authority prior to occupation.

This plan outlines procedures for both sheltering (remaining on-site) and evacuation to enhance the protection of employees from the threat of a bush fire during construction activities. This BEEP has been prepared in accordance with *Development Planning – A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan*, December 2014 and Australian Standard AS3745 2010 *Planning for Emergencies in Facilities*.

Construction is to be undertaken in accordance with the most recent version of this BEEP.

Refer to the Construction Bushfire Management Plan (CBMP) for additional information on how bushfire risk is to be managed during the construction phase of the Development.

1.6. Objectives and Targets

The following objectives and targets are set for the Development for the management of bushfire risks (refer to Table 1-2). These objectives and targets were developed by the Principal's Representative in consultation with technical specialists based on collective industry experience and best practice.

Table 1-2 Objectives and Targets

Objective	Target	Timeframe	Accountability
Afford personnel onsite adequate protection from exposure to bushfire and minimise adverse impacts of bushfire	<ul style="list-style-type: none"> No death or injury to personnel during bushfire event 	Duration of construction	Contractor's WM
Minimise adverse environmental consequences of bushfire Mitigate on-site landscaping contributing to precinct bushfire via installation of appropriate flora species and management devices (as per approved Landscape Plan)	<ul style="list-style-type: none"> No avoidable contribution to fire via landscaping fuel loads during bushfire event 	Duration of construction	Contractor's EM

Compliance with all conditions of relevant approval conditions	<ul style="list-style-type: none"> No avoidable breach of management measures in Section 3.6 	Duration of the construction	Contractor's EM
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2. Environmental Management

2.1. Legal and Other Requirements

Table 2-1 below details the legislation, planning instruments and guidelines considered during development of this plan. Further details concerning the legislation, planning instruments and guidelines identified below are provided in the Legislation Register within the CEMP (Appendix B).

Table 2-1 Legislation, Planning Instruments and Guidelines

Legislation	Description	Relevance to this BEEP
Development Planning – A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan, December 2014	Provides a six-step guide and template to develop a site specific BEEP for at risk developments.	Guides the development and implementation of this plan.
Australian Standard AS3745 2010 Planning for Emergencies in Facilities	Covers the requirements for the establishment, validation and implementation of an emergency plan for a facility to provide for the safety of occupants of that facility leading up to, and during an evacuation.	Guides the development and implementation of this plan.
<i>Environmental Planning and Assessment Act 1979</i>	This Act establishes a system of environmental planning and assessment of development proposals for the State.	Key sections of this Act that are relevant to this plan include, but are not limited to: <ul style="list-style-type: none"> Section 4.15 - General matters for consideration (previously Section 79C (1) prior to 1 March 2018) Section 4.14 - Consultation and development consent steps to be taken for development on bush fire prone land (previously Section 79BA prior to 1 March 2018).
<i>Rural Fires Act 1997</i>	Describes the specific requirements for development on land that has been declared as bush fire prone.	Key sections of this Act that are relevant to this plan include, but are not limited to: <ul style="list-style-type: none"> Section 63 - Duty of public authorities and owners and occupiers of land to prevent bushfires

Legislation	Description	Relevance to this BEEP
		<ul style="list-style-type: none"> • Section 64 - Occupiers to extinguish fires or notify firefighting authorities • Division 4 - Bushfire Danger Periods: Applicability to the performance of hot works in open areas • Division 6 - Total Fire Bans; Applicability to performance of hot works in open areas • Division 7 - Offences for starting fires.
<p>Planning for Bush Fire Protection 2006 – NSW RFS</p>	<p>Provides aims and objectives for development on bush fire prone land.</p>	<p>Development applications on bush fire prone land must be accompanied by a Bush Fire Assessment Report demonstrating compliance with the aim and objectives of Planning for Bush Fire Protection 2006. In particular:</p> <ul style="list-style-type: none"> • The provision of Asset Protection Zones/Defendable Spaces to buildings located in bushfire prone areas • Section 4.1.3(1) - Public road access compliance, with the exception of through-access • Section 4.1.4 - Water, electricity and gas compliance.
<p>Standards for Asset Protection Zones – NSW RFS</p>	<p>Provides a six-step guide to create and maintain an Asset Protection Zones (APZs) on the site.</p>	<p>Guides the establishment and maintenance of APZs under the CBMP.</p>
<p>Australian Standard AS3959-2009 – Construction in Bushfire Prone Areas</p>	<p>Covers the bushfire safety requirements of building in a bushfire prone area, as well as providing the methodology for calculating your bushfire attack level.</p>	<p>Identifies levels of bushfire attack and construction standards to buildings located in bushfire prone areas.</p>

2.2. Development Consent Compliance Matrices

Development consent compliance matrices are included in Appendix A.

2.3. Roles and Responsibilities

Roles and responsibilities associated with this BEEP are presented in Table 2-2.

Table 2-2 Roles and Responsibilities

Role	Responsibilities
Contractor's Works package Manager (Contractor's WM)	<ul style="list-style-type: none"> • Attend audit meetings and action results of any audit findings • Allocate resources to manage bushfire environmental issues • Oversee the implementation and maintenance of this BEEP • Endorse the BEEP • Provide support for the Contractor's EM • Undergo induction and training in environmental awareness specific to bushfire evacuation and evacuation • Enforce environmental requirements for suppliers and sub-contractors • Review audit corrective actions and take action as necessary to close out of issues • Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm
Contractor's Construction Manager (Contractor's CM)	<ul style="list-style-type: none"> • Communicate with all personnel and sub-contractors regarding compliance with the BEEP • Check and monitor the implementation of this BEEP • Undergo induction and training in environmental awareness specific to bushfire evacuation and evacuation • Identify resources required for implementation of the BEEP • Provide emergency services/personnel safe access and egress to bushfire prone land • Clearly sign and communicate emergency assembly point and evacuation routes to site personnel • Organise and manage site plant, labour and temporary materials for bushfire evacuation and emergency • Provide support for the Contractor's EM • Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm • Manage response actions to RFS fire danger rating and actual fire emergency
Contractor's Environment Manager (Contractor's EM)	<ul style="list-style-type: none"> • Oversee the overall implementation of this BEEP • Provide sufficient resources for the implementation of this BEEP • Assist and guide the respective workers to meet their responsibilities for bushfire evacuation and emergency response

Role	Responsibilities
	<ul style="list-style-type: none"> • Develop environmental site induction and maintain a register of attendance • Present and participate in toolbox meetings specific to bushfire evacuation and emergency • Manage environmental document control, reporting, inductions and training relating to bushfire emergency and evacuation • Oversee site monitoring, inspections and internal audits • Manage all sub-contractors and consultants with regards to environmental matters • Undergo induction and training in environmental awareness specific to bushfire emergency and evacuation • Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm • All relevant personnel have access to the most up-to-date copy of this BEEP and understand the plans requirement's • Monitor weather conditions and fire alerts • Provide and maintain firefighting equipment • Co-ordinate bushfire emergency response
<p>Site Supervisor</p>	<ul style="list-style-type: none"> • Provide site induction for personnel including fire safety measures • Assist with implementation of bushfire emergency response • Implement environmental controls on-site required for bushfire emergency and evacuation • Undergo induction and training in environmental awareness specific to bushfire evacuation and emergency • Maintain emergency service access to bushfire prone land • Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm
<p>All Personnel</p>	<ul style="list-style-type: none"> • Comply with the relevant Acts, Regulations and Standards relevant to the BEEP • Comply with the Development policies and procedures relevant to the BEEP • Take all feasible and reasonable steps to be compliant with the requirements of this BEEP • Undergo induction and training in environmental awareness specific to bushfire evacuation and emergency

2.4. Training

Training is to be undertaken in accordance with Section 2.8 of the CEMP. The Construction Contractor is to provide all employees with environmental induction / training relevant to this BEEP to inform them of their responsibilities and verify that they are competent to carry out the work.

As a minimum the induction is to include the following:

- Familiarisation with this plan and the CBMP
- Location of firefighting equipment
- Fire safety such as fire management practices, emergency responses and procedures
- Potential ignition sources and subsequent risks.

Toolbox meetings are to be undertaken, as and when required.

Competency training is to be provided by the Construction Contractor as required and may include a certification, vocational qualification or a competency assessment.

Records of all training are to be filed in accordance with the document control system outlined in the CEMP.

2.5. Incident Response

Incidents are to be classified and notified in accordance with Section 2.9 of the CEMP.

3. Implementation

3.1. Bushfire Risk

The MPE Stage 2 EIS identified construction of the Development as a having a low bushfire risk, with the Development more likely to be at risk from a bushfire rather than presenting as a potential ignition source for a bushfire. Bushfire risk is most likely to arise from the large area of native vegetation contained on the Commonwealth land adjoining the Development to the east and south. Small pockets of bushland on the MPW Site have been mapped as having bushfire risk. This vegetation is mapped as 'Vegetation Category 1' bushfire prone land (Liverpool City Council 2014) (see Figure 3-1). The only vegetation remaining on MPW is within the riparian corridor along the Georges River and Amiens wetlands (Part Lot 5 north of Bapaume Road).

The statutory Bush Fire Danger Period runs from 1 October to 31 March and is the period when bushfire risk is greatest.

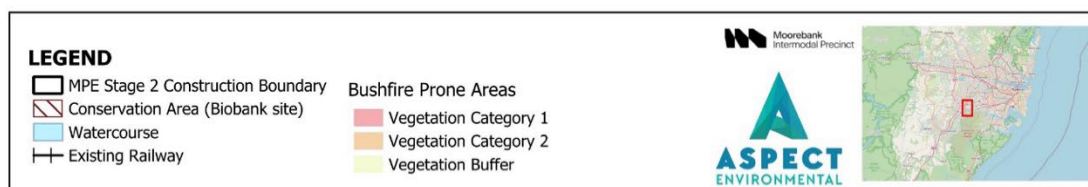
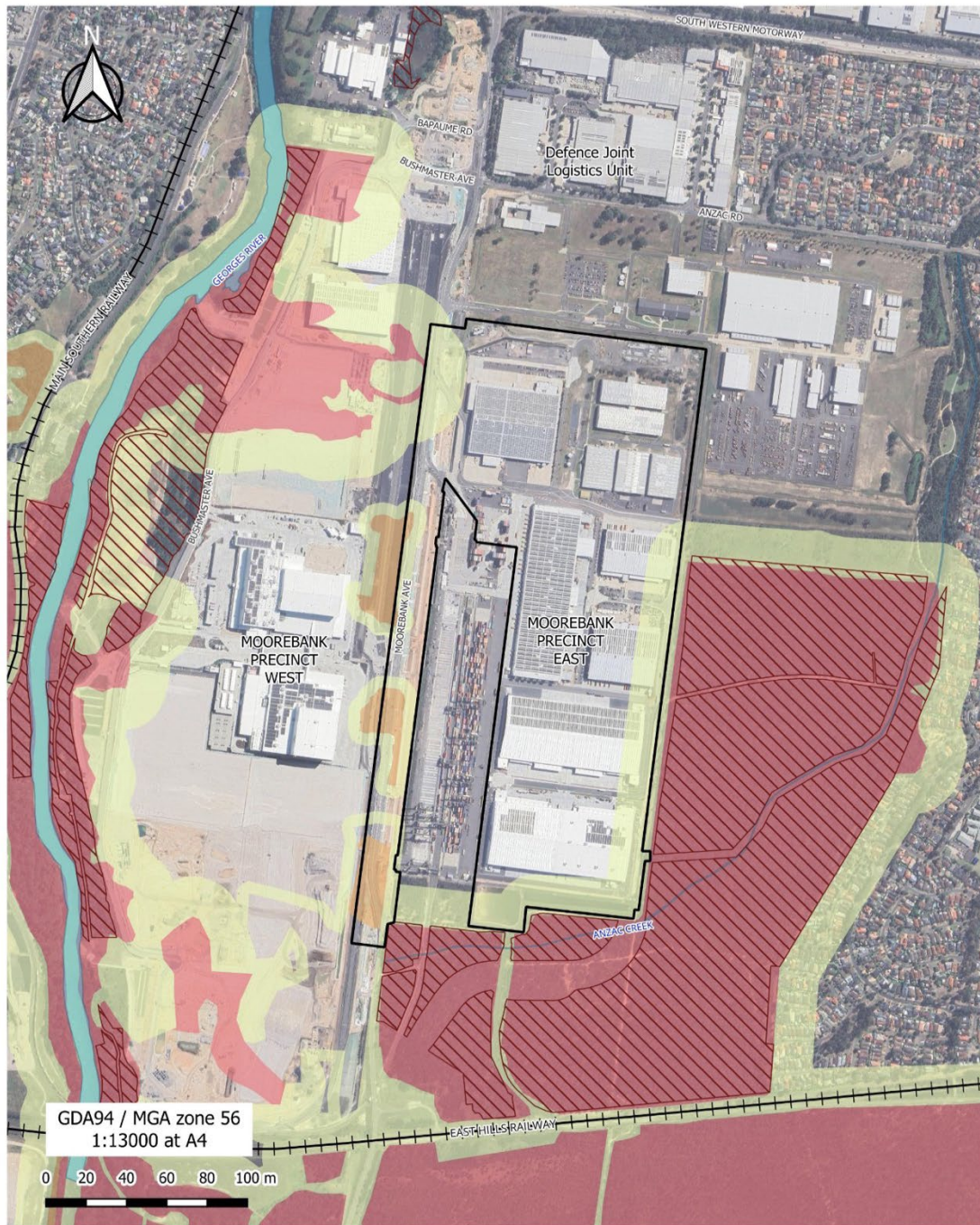


Figure 3-1 Certified Liverpool Bushfire Prone Land Map

3.2. Facility Details

This plan outlines procedures for both sheltering (remaining on-site) and evacuation to enhance the protection of employees from the threat of a bush fire. The contact details have been confirmed following the appointment of a Construction Contractor prior to the commencement of construction.

The Primary Action to follow under normal bush fire conditions is to **SHELTER**.

Contact Person: Wael Ismail

Position/role: BMD Health and Safety Advisor

Phone number (BH): 0459846532

Type of facility: Intermodal Facility and Warehousing (under construction)

Number of buildings: Ten temporary construction compounds. Existing structures to be demolished with new warehousing developed over a staged period.

Number of employees: The total construction workforce is approximately 600 construction personnel during the duration of the construction program. During peak construction, 200 construction personnel are on-site per day including tradesmen, construction personnel, subcontractor construction personnel and engineering, functional and administrative staff. Cumulative Impacts

Assessment of potential cumulative stormwater and flooding impacts was undertaken as part of the preparation of the EIS (Refer to Section 19 of the EIS).

The assessment concluded that the cumulative impacts to stormwater and flooding are negligible, as it is unlikely that the Development would significantly alter overall erosion and sedimentation, as the site is located on already developed land. The Development is also required to maintain flooding and stormwater controls during construction and operation in accordance with local, State and Federal Regulations.

Management measures (see Section 3.6) are to be implemented prior to, during and after construction to minimise any impacts to the safety and wellbeing of any personnel on the Development site. Appropriate implementation of these controls reduces the risk of stormwater and flooding impacts during construction of the Development.

3.3. Emergency Planning Committee

Each Construction Contractor at the site is to have a representative on the Emergency Planning Committee (EPC). Table 3-1 below outlines the contact information and responsibility of each position for the EPC.

Table 3-1 Emergency Planning Committee

Position	Name or Person	Phone Number	Everyday Roles / Responsibility	Emergency Roles / Responsibility
Chief Warden	Michael Beresford (Knight Frank) Email: Michael.Beresford@au.knightfrank.com	0404 608 790	<ul style="list-style-type: none"> • Maintain a current register of EPC members • Replace EPC when position becomes vacant • Conduct regular exercises • Provide up to date emergency response procedures • Attend meeting of the EPC as appropriate. 	<ul style="list-style-type: none"> • Primary emergency contact • Contactable at all times • Liaising with emergency services • Take control of situation • Prepare buildings to limit the impact of bushfire • Coordinate personnel and their relocation • Coordinate response procedures • Verify all persons accounted for • Monitor bushfire situation • Debrief wardens following an event.
Safe Refuge Wardens	Wael Ismail (MAUW) – BMD, Health & Safety Advisor	0459 846 532	<ul style="list-style-type: none"> • Maintain the Employee Listing during the Bushfire Danger Period • Confirm sufficient wardens for area of responsibility • Report on deficiencies of emergency equipment • Verify that wardens have communicated the emergency response procedures to all 	<ul style="list-style-type: none"> • Assist and implement emergency procedures within an assigned area of control • Report to the Chief and Deputy Wardens • Respond as instructed by the Deputy and Chief Warden.

Position	Name or Person	Phone Number	Everyday Roles / Responsibility	Emergency Roles / Responsibility
			<p>employees within their nominated areas</p> <ul style="list-style-type: none"> • Coordinate safety practices • Attend training and emergency exercises. 	
Additional Senior Management / Staff	Mark Renshaw (MAUW) – BMD, Senior Development Manager	0407 689 115	<ul style="list-style-type: none"> • Attend regular meetings and training • Assist with the understanding of emergency response procedures. 	<ul style="list-style-type: none"> • Assist the Chief, Deputy Chief and Safe Refuge Wardens where possible

The EPC is responsible for the carriage of emergency management at the Development site, including but not limited to:

- Establishing and implementing emergency plans and procedures
- Identifying duties and responsibilities of positions
- Formulating and refining emergency procedures
- Ensuring employees and other occupants are educated and trained on emergency procedures
- Ensuring all occupants are aware of the emergency procedures for the development
- Regularly meeting and reviewing the plan to verify it remains practical and current.

3.4. Emergency Contacts

Table 3-2 below outlines the emergency contacts for the Development.

Table 3-2 Emergency Contacts

Name of Organisation	Office / Contact	Phone Number
NSW Rural Fire Service	Local Fire Control Centre (Liverpool LGA)	02 9603 7077
	Address	Cnr Alderney St and Townson Ave, Minto 2566
	Bushfire Information Line	1800 679 737 1800 NSW RFS
	Rural Fire Service Headquarters	02 8741 5555
	Website	www.rfs.nsw.gov.au
NSW Police Force Fire & Rescue NSW NSW Ambulance	Fire and Rescue Ambulance Police Emergency Services General	000
	Website	https://www.police.nsw.gov.au/
NSW State Emergency Service	General enquiries	02 4251 6111
Liverpool City Council	Customer Contact Centre	1300 36 2170
	National Relay Service (NRS) for hearing and speech impaired customers	133 677
	Address	Ground Floor, 33 Moore St, Liverpool NSW 2170
Liverpool Hospital	Contact	8738 30000
	Address	Corner of Elizabeth and Goulburn Streets, Liverpool, NSW 2170
Site Contacts	Chief Warden	Phone: [REDACTED]
	Contractor's WM	Phone: [REDACTED]
	Contractor's CM	Phone: [REDACTED]

Name of Organisation	Office / Contact	Phone Number
	Contractor's EM	[Redacted] Phone: [Redacted]
	Contractor's Health and Safety Advisor	[Redacted] Phone: [Redacted]
	Site Supervisor	[Redacted] Phone: [Redacted]
LOGOS	Development Manager – Communications	[Redacted] Phone: [Redacted]

3.4.1. Sheltering (Primary)

Relocation of employees on the Development site (otherwise known as sheltering) is to be implemented in the first instance unless it is deemed unsafe to remain on site. Each construction compound is to have its own designated assembly point that all personnel are to relocate to in the event of a bushfire.

Each of the suggested assembly points have been identified with consideration to the extent of bush areas surrounding the Development site. The assembly points are to be adequately signed to clearly identify the location to evacuees. The assembly points are shown below in Figure 3-2. In the event that an assembly point is deemed unsafe by the Chief Warden, the Chief Warden is to arrange an alternative assembly point (i.e. an assembly point at another construction compound) as identified in Figure 3-2.

Figure 3-2 Assembly Points and Evacuation Route



LEGEND	
	MPE Stage 2 construction area
	MPE Stage 2 operational area
	Moorebank Avenue Upgrade Works
	Construction compound
	Site Access
	Assembly point
	Primary evacuation route
	Secondary evacuation route
	Watercourse

Moorebank Intermodal Precinct

3.4.2. Procedure

Prior to the commencement of the Bushfire Danger Period, the following is to occur:

- An Employee Listing Register is to be maintained on site, see Appendix A, to identify employees present on site each day
- All personnel are trained in accordance with this plan
- All personnel are informed of the sheltering procedures
- Compounds and areas around compounds are maintained and visibly signed
- Conduct practice fire sheltering drills
- Firefighting equipment (fire extinguishers, hoses etc.) is serviceable and available
- Update contact details of all personnel
- Contact and update emergency services with the premises' contact details
- Monitor Fire Danger Ratings for the area
- Stay alert for warnings and watch for signs of fire.

Procedures for sheltering in the event of a bushfire are outlined below in Table 3-3.

Table 3-3 Sheltering Procedure

Trigger	Action
Bushfire in the surrounding area	<ul style="list-style-type: none"> • Consult the NSW RFS website, 1800 NSW RFS, smart phone applications and local firefighting resources for fire situation and updates • Inform personnel of the fire situation • Verify that the Chief Warden has a mobile phone and is contactable • Consult with the local emergency services advising that the Development is both under construction and operations and that the Development will need to be advised early in the event of an evacuation being necessary.
Approaching bushfire threatening the premises	<ul style="list-style-type: none"> • After consultation with emergency services, temporarily cease construction works and 'shelter in place' • Alert all personnel of 'shelter in place' • All personnel to move to assembly points • Conduct a check of all personnel using the Employee Listing sheet (Appendix A) • Keep personnel hydrated • Assemble persons away from part of the building which will be initially exposed to fire • Monitor bushfire situation and the Chief Warden is to stay contactable at all times • When the fire or threat has passed, all personnel are to remain at assembly points until further directed.

After the bushfire event:

- Chief Warden is to determine when the construction works will re-commence and advise all persons
- Update Employee Listing Sheet (Appendix B)
- Confirm with Fire and Rescue NSW that utilities (water, gas and electricity) are safe to use
- Review the Development site
- Undertake a debrief with key personnel
- Review this plan and amend if required.

3.5. Evacuation

Evacuation will be required if upon evaluation of the safety of personnel, it is determined that it would be safer for all persons to evacuate to their own personal refuge.

Personnel are to move to the identified assembly points as shown in Figure 3-2. Each of the suggested assembly points have been identified with consideration to the extent of bush areas surrounding the site. The assembly points are to be adequately signed to clearly identify the location to evacuees.

Should bushfire occur in the vicinity of the nominated assembly point(s) the Safe Refuge Wardens are responsible for identifying and moving personnel to a safe evacuation point.

3.5.1. Refuge

Following the assembly of all construction personnel at assembly points, personnel are to be instructed to individually relocate to their own personal refuge (personal residences).

3.5.2. Transportation Arrangements

Personnel are responsible for their own transport and it is advised that personnel travel 800 m (2 minutes) north towards the intersection of Moorebank Avenue and the M5 Motorway (South-West Motorway) when exiting the site from the construction site access point. The evacuation route is shown in Figure 3-2.

Should bushfire occur to the north of the Development site, blocking evacuation to the north, an alternative evacuation route would be southbound on Moorebank Avenue to Cambridge Avenue. The Chief Warden is responsible for confirming the evacuation route from site and is to direct personnel.

The M5 Motorway provides the main road link between the site, and the key employment and industrial areas within Sydney's West and South-Western subregions, the Sydney orbital network and the National Road Network. The M5 connects with the M7 Motorway to the west, providing access to the Greater Metropolitan Region and the NSW road network. Similarly, the M5 is the principal connection to Sydney's north and north-east via the Hume Highway.

The regional context of the Development site is outlined below in Figure 3-3.

3.5.3. Procedures

Prior to the commencement of the Bushfire Danger Period, the following is to occur:

- Personnel to be prepared in accordance with this plan
- All persons are to be informed of the evacuation procedures
- Assembly points are maintained and clearly signed for evacuees
- Firefighting equipment (hoses etc.) are serviceable and available
- Conduct practice fire evacuation drills
- Update contact details of personnel
- Contact and update emergency services with the premises' contact details
- Monitor Fire Danger Ratings for the area
- Stay alert for warnings and watch for signs of fire.

Procedures for evacuation in the event of a bushfire are outlined below in Table 3-4.

Table 3-4 Evacuation Procedure

Trigger	Action
Bushfire in the surrounding area	<ul style="list-style-type: none"> • Consult the NSW RFS website, 1800 NSW RFS, smart phone applications and local firefighting resources for fire situation and updates • Inform personnel of the fire situation • Verify that the Chief Warden has a mobile phone and is contactable • Consult with the local emergency services advising that the Development is both under construction and operations and that the Development will need to be advised early in the event of an evacuation being necessary • Continue to monitor the situation.
Approaching bushfire threatening the premises	<ul style="list-style-type: none"> • After consultation with emergency services, cease works and commence evacuation procedures • Alert personnel of evacuation • Meet at designated assembly point • Designated Chief Warden is to take control of the situation • Verify that all persons are accounted for (using employee register). • The Chief Warden is to advise the local emergency service (02 9603 7077) that the centre is currently sheltering-in-place at assembly point (include how many people and location) • Early departure of all occupants to relocate well before the fire fighting units arrive to avoid site traffic • Maintain situational awareness through radio, NSW RFS website, 1800 NSW RFS, smart phone applications and local firefighting resources.

Trigger	Action
Evacuation	<ul style="list-style-type: none"> • The Chief Warden is to advise the local emergency service (02 9603 7077) that the centre is being evacuated (include how many people and where they are going) • Move all persons to the assembly point for evacuation • Arrange for personnel to evacuate the site in personal vehicles from the site access point. • Verify that all persons are accounted for prior to departure (using employee register) • The Chief Warden to advise the local emergency service (02 9603 7077) that all persons have been evacuated • Maintain situational awareness through radio, NSW RFS website, 1800 NSW RFS, smart phone applications and local firefighting resources.

After the bushfire event:

- No person should re-enter any evacuated site until advised by the emergency service that the area is deemed safe
- Review the Development site
- Chief Warden is to coordinate the movement of personnel back to the Development site
- All personnel are to be accounted for on their return
- Inform the police / emergency service of the return of persons to the premises
- Review this plan.

3.6. Management Measures

This section describes the overall approach to managing bushfire emergency and evacuation plans. The management measures in Table 3-4 in are based on the FCMMs, RtS, CoCs, as well as the requirements and standards of ESR, the Construction Contractor and best practice.

Table 3-5 Management Measures

ID	Management Measure	Timing	Responsibility	Reference
Training				
BEEP1	Bushfire awareness and requirements of bushfire safety is to be included in inductions and in toolbox talks pre-commencement.	During construction	Contractor's EM	Best practice
BEEP2	All personnel are required to undergo inductions and toolbox talks.	During construction	Contractor's EM	Planning for Bushfire Protection 2006 (PBP 2006)
BEEP3	Personnel are informed of the sheltering and evacuation procedures.	During construction	Contractor's EM	Best practice
BEEP4	Conduct practice fire sheltering and evacuation drills.	During construction	Contractor's EM	Best practice
Access and Compounds				
BEEP5	Emergency services/personnel to have safe access and egress to bushfire prone land at all times.	During construction	Contractor's CM	PBP 2006 FCMM 7B
BEEP6	All site offices to be accessible via access roads suitable for firefighting appliances similar to NSW RFS Category 1 Tankers/FRNSW Appliances.	During construction	Contractor's CM	FCMM 13A PBP 2006
BEEP7	Access roads to be well maintained and inspected to verify adequate firefighting access.	During construction	Contractor's CM	PBP 2006

ID	Management Measure	Timing	Responsibility	Reference
BEEP8	The emergency assembly point and evacuation routes to be clearly signposted and communicated.	During construction	Contractor's CM	PBP 2006
BEEP9	Assembly points, compounds and areas around compounds are maintained and visibly signed.	During construction	Contractor's CM Site Supervisor	PBP 2006
Bushfire Emergency and Evaluation				
BEEP10	Bushfire emergency and evacuation to be conducted in accordance with Development Planning – A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan, December 2014 and Australian Standard AS3745 2010 Planning for Emergencies.	During construction	Contractor's WM Contractor's EM Contractor's CM Site Supervisor	CoC B143
BEEP11	Each Construction Contractor at the site is to have a representative on the Emergency Planning Committee.	During construction	Contractor's CM	CoC B143
BEEP12	Firefighting equipment (hoses etc.) is serviceable and available.	During construction	Contractor's EM	CoC B143
BEEP13	Update contact details of personnel.	During construction	Contractor's CM ECP	CoC B143
BEEP14	Contact and update emergency services with the premises' contact details.	During construction	Contractor's CM ECP	CoC B143
BEEP15	Monitor Fire Danger Ratings for the area.	During construction	Contractor's CM ECP	CoC B143

ID	Management Measure	Timing	Responsibility	Reference
BEEP16	Stay alert for warnings and watch for signs of fire.	During construction	Contractor's EM Contractor's CM	CoC B143
BEEP17	<p>Primary Action to follow under normal bush fire conditions is to SHELTER. Personnel will relocate to the following designated refuges located within the premises:</p> <ul style="list-style-type: none"> • Main warehousing compound – for personnel working on construction works (excluding Moorebank Avenue Upgrade works) • Moorebank Avenue compound – for personnel working on the Moorebank Avenue Upgrade works. <p>Follow Sheltering Procedure, as stated in this plan.</p>	During construction	Site personnel	CoC B143
BEEP18	<p>Evacuation is required if upon evaluation of the safety of employees, it is determined by the Chief Warden that it would be safer for all persons to evacuate to their own personal refuge. Personnel to move to their identified emergency assembly points shown in Figure 3-2.</p> <p>Follow Evacuation Procedure, as stated in this plan.</p>	During construction	Site personnel	CoC B143

4. Monitor and Review

4.1. Environmental Monitoring

Monitoring under this plan is to be undertaken by the Contractor's EM during weekly inspections of construction activities to monitor compliance with the requirements of the CoCs and this plan. Weekly inspections are to focus on the following key issues:

- Presence and maintenance of firefighting equipment
- Maintenance of plant and vehicles to minimise sparks and accidental ignition
- Maintenance of buffer zones.

An Environmental Inspection Checklist is to be used to maintain compliance and effectiveness of controls. Items that require action are to be documented during environmental inspection and notified to the relevant Site Supervisor. The Site Supervisor is responsible for providing appropriate resources in terms of labour, plant and equipment to enable the items to be rectified in the nominated timeframes.

Daily inspections and maintenance of controls is to be made by the Site Supervisor and maintenance activities recorded in site diaries during active site works.

4.2. Environmental Auditing and Reporting

Auditing and reporting is to be undertaken in accordance with Section 4.3 of the CEMP.

4.3. Non-compliances, Non-conformance and Actions

It is the responsibility of all site personnel to report non-compliances and non-conformances to the Site Supervisor and/or the Contractor's EM.

Non-compliances, non-conformances and corrective and preventative actions will be managed / addressed in accordance with Section 4.4 of the CEMP.

4.4. Review and Improvement

Review and improvement of this plan is to be undertaken in accordance with the CoCs and Section 1.2.7 of the CEMP. Continuous improvement is achieved by the ongoing evaluation of environmental management performance and effectiveness of this plan against environmental policies, objectives, and targets.

A copy of the updated plan and changes is to be distributed to all relevant stakeholders in accordance with the approved document control procedure.

The most recent approved version of the BEEP is to be implemented for the duration of the Development.

APPENDIX A DEVELOPMENT CONSENT COMPLIANCE MATRICES

The Development is being delivered under Part 4, Division 4.7 of the EP&A Act. The CoCs include requirements to be addressed in this plan and delivered during the Development. These requirements and how they are addressed are provided within and are prepared in accordance with CoC C21.

Table 4-1 Conditions of Consent

CoC	Requirement	Document Reference	How Addressed
A1	In addition to meeting the specific performance measures and criteria established under this consent all reasonable measures must be implemented to prevent, and if prevention is not reasonable, minimise, any harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	Section 3. Section 4.	<p>Section 3 of this plan identifies the management measures to be implemented to prevent and minimise environmental harm.</p> <p>Section 4 sets out the processes for monitoring and reviewing the effectiveness of these management measures.</p> <p>Opportunities to further minimise environmental harm are to be identified through the ongoing evaluation of environmental management performance and effectiveness of this plan.</p>
A2	<p>The development may only be carried out:</p> <p>(a) in compliance with the conditions of this consent;</p> <p>(b) in accordance with all written directions of the Secretary in relation to this consent;</p> <p>(c) in accordance with the EIS, Submissions Report, Consolidated assessment clarification responses and updated Biodiversity Assessment Report;</p> <p>(d) in accordance with the amended Development Layout Plans and Design Plans, amended WSUD plans and amended architectural plans to be submitted for the Secretary's approval as part of this consent; and</p> <p>(e) in accordance with the management and mitigation measures at APPENDIX B of this consent.</p>	This plan	This plan has been developed to comply with the CoCs, written directions of the Secretary, amended development layout and management and mitigation measures outlined in Appendix B of the CoCs.
A20	All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes the obligation for the Applicant to obtain, renew or comply with such licences, permits, approvals and consents.	CEMP	<p>All applicable licences, permits and approvals must be obtained as required.</p> <p>Approvals, permits and licences required for the Development are discussed in Appendix B and C of the CEMP.</p>

CoC	Requirement	Document Reference	How Addressed
			An Environmental Protection Licence (EPL) (No. 21054) was issued by the EPA on 4 June 2018. The Licence applies to the Moorebank Precinct areas identified in condition A2.2. Scheduled activities include crushing, grinding or separating, and contaminated soil treatment. The licence enables the importation of material classified under a Resource Recovery Order where the onsite use (approved land use) is consistent with the applicable Resource Recovery Exemption.
B1	<p>The Applicant must:</p> <p>(a) prepare each plan, program and other documents in consultation with the specified stakeholders;</p> <p>(b) not commence each phase of the project until the plans, programs and other documents required under this consent are approved by or, where not required to be approved, submitted to the Secretary specified within the timeframes; and</p> <p>(c) implement the most recent version of the required plans and programs approved by the Secretary for the duration of the development</p>	Section 4.4	<p>No consultation requirements are prescribed within the CoCs for the construction phase of the BEEP.</p> <p>Section 4.4 confirms that the most recent version of the BEEP must be implemented for the duration of construction.</p>
B143	<p>Before the commencement of construction, the Applicant must ensure that a Bushfire Emergency and Evacuation Plan is prepared. The Plan must form part of the CEMP and OEMP required by conditions C1 and C3 and must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s);</p> <p>(b) be consistent with the <i>Development Planning – A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan</i>, December 2014 and <i>Australian Standard AS3745 2010 Planning for Emergencies in Facilities</i>; and</p>	This plan	<p>(a) This plan has been prepared by a suitably qualified person (refer to author details are the start of this plan).</p> <p>(b) This plan is consistent with the <i>Development Planning – A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan</i>, December 2014 and <i>Australian Standard AS3745 2010 Planning for Emergencies in Facilities</i>, as identified in Section 2.1.</p>

CoC	Requirement	Document Reference	How Addressed
	(c) a copy of the plan must be submitted to the Secretary, NSW Rural Fire Service, Council and the Certifying Authority prior to occupation.		(c) A copy of the BEEP will be submitted to the Secretary, NSW Rural Fire Service and Council, and the Certifying Authority prior to occupation.
B145	Public road access must comply with section 4.1.3(1) of <i>Planning for Bush Fire Protection 2006</i> except for the requirement for through-access.	Figure 3-2	Primarily operational requirement. During construction, suitable access for emergency vehicles is available via the alignment of the future internal road network which runs east/west and connects to a north/south road extending along the eastern side of the site.
C1	Before the commencement of construction, a Construction Environmental Management Plan (CEMP) must be prepared to the satisfaction of the Secretary. The CEMP must: (f) include the management plans required under this approval, including: (xi) Bushfire Emergency and Evacuation Plan	This plan	This plan has been prepared to satisfy this requirement and forms part of the CEMP.
C2	The Applicant must: (a) not commence construction until the CEMP is approved by the Secretary; and (b) carry out the construction of the development in accordance with the most recent version of the CEMP approved by the Secretary, unless otherwise agreed by the Secretary	Section 4.4	This plan was submitted as a sub-plan to the CEMP and approved by the Secretary prior to the commencement of construction. Construction must be carried out in accordance with the most recent version of this BEEP.
C7	The Applicant must ensure that the environmental management plans required under this consent are prepared in accordance with any relevant guidelines, and include: (a) detailed baseline data;	N / A	Detailed baseline data is not directly relevant to this plan.
	(b) a description of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures/criteria; and	Section 2.1 Section 1.5	(i) Section 2.1 lists the environmental obligations for the Development site.

CoC	Requirement	Document Reference	How Addressed
	(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Table 1-2	(ii)(iii) Section 1.5 and Table 1-2 details the performance measures/ criteria (objectives) and performance indicators (targets).
	(c) a description of the management measures to be implemented to comply with the relevant statutory requirements, limits or performance measures/criteria;	Section 3.6.	Section 3.6 sets out the management measures required to be implemented under this plan.
	(d) a program to monitor and report on the: (i) impacts and environmental performance of the development; and (ii) effectiveness of any management measures (see (c) above);	Section 4	(i) Program for monitoring and reporting of impacts and environmental performance is discussed in Section 4. (ii) Section 4 states ongoing evaluation on performance and effectiveness will be undertaken against policies, objectives and targets.
	(e) a contingency plan to manage any unpredicted impacts and their consequences;	This plan	The plan includes measures to address emergencies resulting from bushfires.
	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 4.4	Improvement measures are discussed under Section 4.4 through ongoing evaluation and effectiveness of this plan.
	(g) a protocol for managing and reporting any: (i) incidents and non-compliances; (ii) complaints; (iii) non-compliances with statutory requirements; and	CEMP	The CEMP outlines a protocol for addressing any incidents, non-compliances and complaints.
	(h) a protocol for periodic review of the plan. <i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for a particular management plan.</i>	Section 4.4	A protocol for periodic review is outlined in Section 4.4. and discussed in further detail in the CEMP.

The FCMMs were prepared as part of the MPE Stage 2 Submissions Report (Arcadis 2017). A list of the FCMMs as relevant to the Development and how they have been complied with in this plan are provided in and the Compliance Tracking Program, prepared in accordance with CoC C21.

Table 4-2 Final Compilation of Mitigation Measures

FCMM	Requirement	Document Reference
7B	<p>The following measures would be included in the CEMP (or equivalent) to minimise hazards and risks:</p> <ul style="list-style-type: none"> • Safe operational access and egress for emergency service personnel and workers will be provided at all times, and specified in the CEMP. 	<p>This condition is addressed in the management measures in Section 3.6.</p>
13A	<p>A bushfire management strategy, or equivalent, will be prepared as part of the CEMP for the Amended Proposal. The strategy will include:</p> <ul style="list-style-type: none"> • Emergency response plans and procedures <p>All construction site offices will be accessible via access roads suitable for firefighting appliances similar to NSW Rural Fire Service category 1 tankers.</p>	<p>This plan has been prepared to include emergency response plans and procedures. These conditions are addressed in Section 3.5.</p> <p>Further detail for a bushfire management strategy is provided in the CBMP.</p>

No Commonwealth Conditions of Approval (CCoA) are applicable to this plan.

APPENDIX B EMPLOYEE LISTING

