



Construction Environmental Management Plan

270 Aldington Road, Kemps Creek

Stockland Development Pty Ltd

DOCUMENT TRACKING

Version No.	Document No.	Description	Prepared By	Approved By	Date
Rev 01	J001937231129.01	Draft issued to client for review	Z. Ahmed	M. Williams	29/11/2023
Rev 02	J001937231205.02	Draft updated to address client comments	Z. Ahmed	M. William	05/12/2023

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Glossary

CAQMP	Construction Air Quality Management Plan
CEMP	Construction Environmental Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CTMP	Construction Traffic Management Plan
CSCS	Community and Stakeholder Communications Strategy
DA	Development application
DCP	Development Control Plan
DDP	Dam Dewatering Plan
Environmental Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
FFMP	Flora and Fauna Management Plan
Material Harm	Harm that involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).
MRP	Mamre Road Precinct
The Project	Subdivision and subdivision works at 270 Aldington Road, Kemos Creek
The Proponent	Stockland Development Pty Ltd
The Site	270 Aldington Road, Kemps Creek
UFP	Unexpected Finds Protocol
WRRMP	Waste and Resource Recovery Management Plan
WMP	Wildlife Management Plan

1 INTRODUCTION

1.1 Background

This Construction Environmental Management Plan (CEMP) has been prepared by Aspect Environmental Pty Ltd, on behalf of Stockland Development Pty Ltd (the Proponent), to support a Development Application (DA) for proposed subdivision and subdivision works (the Project) at 270 Aldington Road, Kemps Creek (the Site) (Figure 1-1).

This CEMP has been prepared with reference to:

- Development Application (Reference Details **TBC**)
- State of Environmental Effects (SEE) (EMM, 2023)
- Mamre Road Precinct Development Control Plan (DPIE) (2021): -
- Environmental Management Guidelines for Construction (Edition 4) (DPE, 1 June 2020).

The CEMP defines the environmental management framework for the proposed subdivision and earthworks and would be implemented by the Proponent and contractors during the construction of the Project.

1.2 Project Description

The Project is located at 270 Aldington Road, Kemps Creek (Lots 16 and 17 in DP 253503 and Part Lot 15 DP253503) within the Penrith local government area, approximately 15km south-east of the Penrith central business district. The Project lies within the Mamre Road Precinct of the Western Sydney Employment Area and in the eastern extent of the Western Sydney Aerotropolis.

Covering a rectangular area of approximately 26.45ha, the Site is currently zoned as IN1 General Industrial under Chapter 2 of the State Environmental Planning Policy (Industry and Employment) 2021. The location of the Project site is generally indicated by the red outline on Figure 1-1.

The Site currently comprises undulating rural land, with foundations of residential dwellings, farm sheds, and miscellaneous agricultural greenhouses and ancillary structures. It is presently rural-residential in nature, with significant areas of land currently undeveloped. The nearest residential suburb is Mount Vernon, approximately 570m to the east of the Site. The established suburban developments at Erskine Park and St Clair are approximately 4.5km to the north of the Site.

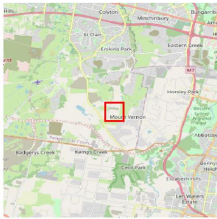
The road network adjacent to the Site includes Aldington Road, an unclassified collector road, which connects with Mamre Road to the west. The M4 Motorway is approximately 6.5km to the north of the Site, whilst the M7 Motorway is approximately 4km to the east.

The Site layout for the Project is shown in Figure 1-2.

Figure 1-1: Site context



LEGEND
Project site



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1.2.1 Staging and Activities

The Project comprises subdivision and associated subdivision works including the construction of access roads, utilities and earthworks. To enable subdivision works, the demolition of two residential dwellings and sundry rural buildings (sheds and outbuildings) is proposed.

Subdivision of the site comprises the consolidation and subdivision of the site into four lots and encompasses boundary realignments to facilitate road dedications.

The Project will be delivered by contractors in several phases as outlined in Table 1-1. The anticipated timing and duration of the stages identified in Table 1-1 remain subject to confirmation of final construction phasing. The proposed construction phases may also overlap.

Table 1-1: Indicative project phases

Project Phase	Construction Activity	Forecast Commencement	Forecast Duration	Forecast Completion
1	Pre-commencement works	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
2	Civil Works (Subdivision Works)	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
3	Road Construction	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
4	Trunk Drainage	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
5	Demolition	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
6	Earthworks	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>
7	Installation of utilities and services	<i>TBA</i>	<i>TBA</i>	<i>TBA</i>

1.2.2 Plant and Equipment

The following plant and equipment will be used during the works:

- (*TBC*).

1.2.3 Construction Hours

The Project will be undertaken in accordance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG) recommendations for standard construction work hours as presented in Table 1-2.

Table 1-2: Construction hours of work

Activity	Day	Time
Subdivision and subdivision works	Monday to Friday	7 am to 6 pm
	Saturday	8 am to 1 pm
	Sunday and Public Holidays	No work

In accordance with the ICNG, works outside these hours may be undertaken in the following circumstances:

- for the delivery of materials by the NSW Police Force or other authorities for safety reasons

- where required in an emergency to avoid the loss of lives, property or to prevent environmental harm
- maintenance and repair of public infrastructure
- public infrastructure works
- works where the Proponent demonstrates and justifies a need to operate outside the recommended standard hours.

Where reasonable and feasible, out-of-hours works would be advised to Penrith City Council (Council) in advance of the proposed works being undertaken.

Additional information regarding out-of-hours works and specific noise and vibration requirements is provided in the Construction Noise and Vibration Management Plan (CNVMP) attached as Appendix D to this CEMP.

1.2.4 Key Personnel Contact Details

The contact details for key project personnel are included in Table 1-3.

Table 1-3: Project contact details

Role	Name	Contact Details
Project Manager	TBC	TBC
Construction Manager	TBC	TBC
Health Safety and Environment Manager	TBC	TBC
Communications and Community Liaison Representative	TBC	TBC
MRP Working Group	TBC	TBC

1.3 CEMP Purpose, Context and Objectives

1.3.1 CEMP Scope

This CEMP has been prepared to support a DA being submitted to Council for subdivision and subdivision works at 270 Aldington Road, Kemps Creek.

Following receipt of development consent, this CEMP will be finalised to address any conditions attached to the Project consent and implemented by the Proponent and its construction contractors.

The CEMP and associated Sub-plans have been prepared in accordance with the relevant requirements of the documents listed above in section 1.1. The Sub-plans associated with this CEMP are listed in Table 1-4.

Table 1-4: CEMP and Sub-plans

Element	CoC	Sub-plan	CEMP Section
All	TBC	-	This CEMP
Traffic		Construction Traffic Management Plan (CTMP)	Appendix A
Soil		Fill Management Plan (FMP)	Appendix B
		Salinity Management Plan (SMP)	Appendix C
		Unexpected Finds Protocol (UFP)	Appendix K

Element	CoC	Sub-plan	CEMP Section
Noise and vibration	TBC	Construction Noise and Vibration Management Plan (CNVMP)	Appendix D
Air Quality	TBC	Construction Air Quality Management Plan (CAQMP)	Appendix E
Dam Dewatering	TBC	Dam Dewatering Plan (DDP)	Appendix F
Ecology	TBC	Flora and Fauna Management is addressed in Sub-plans, comprising; • Weed Eradication Management Plan • Wildlife Management Plan • Vegetation Management Plan	Appendix G Appendix H Appendix I
Waste	TBC	Waste and Resource Recovery Management Plan (WRRMP)	Appendix J

Construction of the Project will not commence until receipt of Development Consent and completion of the CEMP and relevant Sub-plans.

Construction of the Project will be undertaken in accordance with the most recent version of this CEMP and Sub-plans and the DA.

1.3.2 CEMP Objectives

The objectives of this CEMP are to:

- Identify the roles and responsibilities of key personnel.
- Clearly and concisely document the commitments made in the Development Application, including relevant management plans, that are required to be implemented during construction.
- Provide guidance for undertaking the construction works in compliance with the Development Consent and other applicable regulatory requirements.
- Demonstrate how the Proponent proposes to meet its regulatory obligations and outline the controls implemented by contractors to assist with meeting those obligations.
- Identify project-specific mitigation measures that aim to protect human and ecological values and manage the potential impacts of the works on the environment.
- Detail environmental management practices for the management, implementation and monitoring of the Project.

All Proponent personnel and contractors are required to comply with the requirements of this CEMP at all times.

1.4 Environmental Performance Indicators

Objectives and targets have been established as a means of demonstrating environmental performance during construction. The objectives and targets in Table 1-5 have been developed with consideration of the key issues identified through environmental assessment and risk assessment process.

Table 1-5: Objectives and targets

Measurement/Performance Indicator	Target/Criteria	Measurement Tool/ Performance Measure
General		
Comply with all relevant environmental standards, legislation and approvals during the life of the Project	No written warnings or infringement notices	Environmental site Inspection Checklist Daily logbook/ site diary
Harm to people, the environment and property	No reportable environmental incidents	Incident register and reports (if required)
Air Quality		
Comply with relevant legislation, CoC, requirements and guidelines	No written warnings or infringement notices	Environmental site Inspection Checklist Daily logbook/ site diary
Minimise impacts from dust emissions during construction for sensitive receivers	No complaints relating to air quality	Complaints register
Waste		
Waste production and resource recovery	Segregate on-site waste to maximise opportunity for avoidance, reuse and recycling aligned to Penrith City Council's Waste Management Hierarchy	Waste tracking and reporting Waste facility receipt records retained for reference
Managing contaminated and hazardous waste	Remove all contaminated or hazardous materials from site to an appropriate licensed facility	All waste materials classified in accordance with EPA's Waste Classification Guidelines (EPA November 2014). Only qualified and certified contractors engaged for waste removal, transport and disposal.
Noise and Vibration		
Enable compliance with relevant legislation, guidelines and any conditions attached to the DA	No complaints relating to noise and vibration	Environmental site Inspection Checklist Daily logbook/ site diary
Soil and Water		
Adverse water quality and sedimentation impact during construction	Minimum impact on waterbodies surrounding the project	ErSed controls implemented in accordance with the Blue Book (Managing Urban Stormwater: Soils and Construction (Landcom 2004)) Environmental site Inspection Checklist Daily logbook/ site diary
Sediment tracking on public roads	Any sediment tracking on public roads to be actioned immediately with sweeper cart	Environmental site Inspection Checklist Daily logbook/ site diary

Measurement/Performance Indicator	Target/Criteria	Measurement Tool/ Performance Measure
Traffic		
Managing construction vehicles in efficient and safe manner	No accidents	Incident reports
Car parking and traffic disturbances on surrounding road network and public road network users	No complaints relating to car parking and traffic	Complaints register Tracking of traffic numbers / movements
Heritage		
Impact on Aboriginal Heritage	Limit impacts to the scope permitted by the consent for the Project	Results from implementation of Heritage Unexpected Finds Procedure
Wildlife		
Minimise impacts to biodiversity and wildlife during construction	No reportable incidents to wildlife	Incident register Environmental site inspection checklist Daily logbook/ site diary

2 COMMUNITY AND STAKEHOLDER ENGAGEMENT

As required by CoC **TBC**, during development of the CEMP and Sub-plans, consultation occurred with several community members and stakeholders. Consultation occurred as outlined in Table 2-1.

Table 2-1: Consultation completes for the CEMP and Sub-plans

Management Plan	Identified Parties	Outcome
TBC		

2.1 Community Communication During Construction

This section highlights the Community and Stakeholder Communications Strategy (CSCS) for the Project. This CSCS outlines management measures to promote effective communication between the community and the Project throughout the duration of construction works, including:

- regular community notifications
- community updates following changes to construction works
- interactions between workers and the community
- stakeholder and community feedback protocol
- issues management and dispute resolution
- contact register and enquiries management
- complaints management.

A range of communications channels will be utilised including:

- stakeholder (including the Mamre Road Precinct (MRP) Working Group) and resident meetings and briefings via video conferencing, or in person
- the Project website – **TBC**
- the Project hotline – **TBC**
- the Project email – **TBC**
- letterbox notifications
- door knocking
- contact register.

The Proponent will participate in the established MRP Working Group, the purpose of which is to consult and coordinate construction works within the MRP to assist with managing and mitigating potential cumulative environmental impacts.

The MRP Working Group currently includes the developers of the following industrial estates for which development consent has already been received:

- 200 Aldington Road Industrial Estate (SSD 10479)
- Aspect Industrial Estate (SSD 10448)
- Westlink (SSD 9138102).

The implementation of this CSCS will assist the Project to establish and maintain Project communications and engagement with the local community.

2.2 Complaints Management

The Project Manager will be responsible for investigating, recording and closing out any complaints or enquiries. Complaints and enquiries may be received via:

- Project email address that is published on all communications material, including project site signage
- 1300 number that is published on all communications material, including Project site
- face to face interactions with Project personnel.

A complaints register will be maintained on site. The register will be made publicly available through the Project website and will be updated on a monthly basis.

3 ENVIRONMENTAL MANAGEMENT FRAMEWORK

3.1 Project Organisational Structure

The developer of the Project has overall responsibility for compliance with the consent. The developer has engaged **TBC** as the principal contractor for the construction of the Project.

All personnel, including consultants, contractors and sub-contractors, involved with undertaking construction works on the Project, report to **TBC**.

TBC is responsible for monitoring the environmental performance of the Project and demonstrating compliance with the consent, this CEMP and Sub-plans as they relate to the construction of the Project.

3.2 Roles and Responsibilities

All Project personnel are responsible for the implementation of this CEMP and are expected to stop works to avoid a material safety or environmental incident from occurring.

Roles and responsibilities for environmental management of the Project are outlined in Table 3-1.

Table 3-1: Project roles and responsibilities

Role	Responsibility
Project Manager	Environmental reporting responsibility associated with the Project.
	Overall responsibility for environmental management and compliance with the Development Application and relevant legislation.
	Liaise with the Proponent to keep them informed of the Project's environmental performance and progress.
	Record, notify, investigate and respond to any environmental incidents and, where necessary, guide the development and implementation of corrective actions.
	Consult and engage with any contractors or interfacing contractors regarding the environmental management of the Project.
	Provide adequate environmental inductions/training to the Proponent's employees and contractors regarding their requirements under this CEMP.
Construction Manager	Oversee the implementation and maintenance of the CEMP and Sub-plans.
	Check that any licence, permit and/or approval required for the Project has been obtained in the required timeframe.
	Implement the Contamination Unexpected Finds Protocol in the event of contamination being encountered onsite.
	Implement the European and Aboriginal Heritage Unexpected Finds Protocol in the event of heritage items being encountered onsite.
	Monitor and report on overall environmental management performance.
	Review and acknowledge periodic environmental inspection reports.
	Initiate project meetings as required or directed, in which environmental items are discussed as appropriate.
	Identify and allocate Project resources to implement the requirements of the CEMP and Sub-plans.

Role	Responsibility
Health Safety and Environmental Manager (HSE)	Confirm relevant environmental expectations expressed by the client and/or regulatory authorities to the Project team.
	Provide advice where required in relation to environmental issues associated with the Project.
	Inform all personnel including sub-contractors of the requirement to conform with the CEMP and Sub-plans.
	Confirm that all necessary environmental controls are implemented and maintained for the duration of the Project.
	Complete daily site inspections to monitor and verify mitigation measures are implemented and effective.
	Assist with the implementation of the Contamination Unexpected Finds Protocol in the event of contamination being encountered onsite during construction.
	Assist with the implementation of the European and Aboriginal Heritage Unexpected Finds Protocol in the event of heritage items being encountered onsite.
	Monitor weather conditions to prepare the Project for high winds or other extreme weather events.
	Provide regular environmental inspection and progress reports to the Project Manager.
	Monitor environmental compliance with the CEMP.
	Facilitate the environmental induction and training (toolbox talks) of employees and subcontractors (as required).
	Complete and maintain all necessary environmental documentation for the contract (as required).
	Conduct environmental incident investigations and implement corrective action responses in consultation with the Project Manager.
Communications and Community Liaison Representative	Lead and manage the community involvement activities, including liaison with property owners and key stakeholders.
	Be the primary Project contact for the public, handling enquiries and complaints and managing interface issues.
	Maintain the Contact Register and make available the Contact Register to the ER on a daily basis.
	Be available for contact by local residents and the community at all reasonable times to answer any questions.
	Liaise with property owners to co-ordinate access and to deal with specific property related issues arising from the upgrade works.
	Lead the delivery of communication and community engagement strategies and plans.
	Facilitate meetings and forums and arrange interviews to address concerns raised by the community.
	Provide advice and participate with the project teams to improve and enhance the delivery of communication services to the community.
	Build and maintain collaborative and consultative working relationships with internal and external stakeholders.
	Be available for contact by local residents, key stakeholders and community representatives to answer queries and provide more information or feedback.

Role	Responsibility
	Implement and comply with the requirements of this CEMP.
MRP Working Group	Be comprised of at least one representative of the Proponent and relevant development consent holders in the MRP. Meet periodically throughout the year to discuss, formulate and implement measures or strategies to improve monitoring and coordination of the approved industrial developments in the MRP. Inform Council regularly of the outcomes of these meetings and actions to be undertaken by the working group. Review the performance of approved industrial developments in the MRP and identify trends in the data with respect to cumulative construction traffic, erosion and sediment control, noise, stormwater management and waterway health objectives under the MRP Development Control Plan (DCP). Review community concerns or complaints with respect to environmental management. Identify interim traffic safety measures to manage construction traffic and how these measures will be coordinated, communicated, funded and monitored in the MRP.
All personnel	Report all environmental incidents, hazards, non-compliances and near misses to their supervisor or the Project Manager immediately. Attend all required environmental awareness, induction and training sessions. Stop work or otherwise mitigate the effects of an activity that is causing significant, uncontrolled or unexpected environmental harm. A daily pre-start inspection of plant and equipment will be undertaken by plant and equipment operators and any leaks or excessive emissions reported to the HSE Manager.

3.3 Legal and Compliance Requirements

3.3.1 Regulatory Framework

The regulatory framework for the Project is outlined in Table 3-2, which identifies relevant legislative instruments, including legislative and voluntary obligations, permits and licences, and their key objectives and relevance to the Project.

Table 3-2: Legislative and related instruments relevant to the Project

Legislation	Legislative Instrument Regulatory Authority	Applicability
NSW		
<i>Biodiversity Conservation Act 2016</i>	Biodiversity Conservation Regulation 2017 Environment, Energy and Science Group within the Department of Planning and Environment, Local Land Services and the NSW Biodiversity Conservation Trust.	Protection of threatened species, populations and communities and their habitats.

Legislation	Legislative Instrument Regulatory Authority	Applicability
<i>Contaminated Land Management Act 1997</i>	Contaminated Land Management Regulation 2013 NSW EPA	Identifies and controls contaminated land and investigation requirements. May be applicable in the event of any unexpected find of soil contamination.
	State Environmental Planning Policy (Resilience and Hazards) 2021 Penrith City Council	May be applicable in the event of any unexpected find of contaminants/contamination.
	Environmental Planning and Assessment Regulation 2000 Department of Planning and Environment (DPE)	Compliance Development Application Changes to the Project scope requiring modification to the Development Approval.
<i>Fisheries Management Act 1994</i>	Fisheries Management (General) Regulation 2019 Department of Primary Industries / DPE	Controls works within waterways.
	Heritage Act 1977 Heritage Regulation 2012 The Heritage Council of NSW	Protection and recording of non-Aboriginal heritage values, relics, artefacts, places and other finds/remains. May be applicable in the event of any unexpected heritage finds.
<i>National Parks and Wildlife Act 1974</i>	National Parks and Wildlife Regulation 2019 DPE	Protection and recording of Aboriginal heritage values, relics, artefacts, places and other finds/remains. May be applicable in the event of any unexpected heritage finds.
	<i>Pesticides Management Act 1999</i> Pesticides Regulation 2017 EPA	Certification, notification and record keeping requirements for application of herbicides.
<i>Protection of the Environment Operations Act 1997</i>	Protection of the Environment Operations (General) Regulation 2022 EPA	Aims to aid the protection, restoration and enhancement of the quality of the NSW environment. Pollution incidents that have caused or give rise to material harm. Identifies activities for which an Environment Protection Licence is required.
	Protection of the Environment Operations (Clean Air) Regulation 2021 EPA	Identifies criteria for air quality objectives and emissions. Management of any dust and air pollution emissions generated during construction.

Legislation	Legislative Instrument Regulatory Authority	Applicability
	Protection of the Environment Operations (Noise Control) Regulation 2017 EPA	Management and mitigation of noise and vibration produced during construction works.
	Protection of the Environment Operations (Waste) Regulation 2014 EPA	The handling, storage and disposal of all construction waste.
<i>Roads Act 1993</i>	Roads Authority (Transport for NSW or Local Council depending upon roads classification)	Section 138 approval requirements for approval from the relevant roads authority for road occupancy licence, road opening permit, and works authorisation deed requirements.
<i>Sydney Water Act 1994</i>	Sydney Water Regulation 1994 Sydney Water Corporation	Relates to the supply of water, the provision of sewerage and stormwater drainage systems and the disposal of waste water.
<i>Waste Avoidance and Resource Recovery Act 2001</i>	Waste exemptions under the POEO administration regulation EPA	Management of construction waste on site.
<i>Water Management Act 2000</i>	Water Management (General) Regulation 2018 Department of Industry - Water	For the protection, conservation and ecologically sustainable development of the water sources of the State, and for other purposes. Issue of controlled activity permits for works on waterfront land and permits for surface and groundwater intersection and abstraction.
<i>Work Health and Safety Act 2011</i>	Work Health and Safety Regulation 2017 SafeWork NSW	Controls safety requirements for work sites in NSW. Includes notification requirements for removal and disposal of hazardous materials (e.g. asbestos).

3.3.2 Standards, Codes and Guidelines

The following standards, codes and guidelines are applicable to the construction of the Project:

- Australian Standards:
 - Australian Standard AS 2601-2001 The Demolition of Structures
 - Australian Standard AS1940-2004 The Storage and Handling of Flammable and Combustible Liquids
 - Australian Standard AS 1055:2018 Acoustics – Description and Measurement of Environmental Noise
 - AS-NZS_3580.10.1-2016 - Methods for sampling and analysis of ambient air
- NSW EPA Waste Classification Guidelines (November 2014)

- Interim Construction Noise Guideline (DECC 2009)
- Technical guidance for achieving Wianamatta-South Creek stormwater management targets (DPE, September 2022)
- Managing Urban Stormwater: Soils and Construction – Volume 1: Blue Book (Landcom, 2004)
- Mamre Road Stormwater Scheme Plan (Sydney Water, December 2022)
- Stormwater Scheme Infrastructure Design Guideline (Sydney Water, December 2022)
- Guidelines for Controlled Activities on Waterfront Land (DPI – Water))
- National Airports Safeguarding Framework, Managing the Risk of Wildlife Strikes in the Vicinity of Airports (NASAG, 2012)
- Planning for Bushfire Protection (NSW RFS, 2019).

Other standards, codes and guidelines are listed within the relevant Sub-plans.

Where updated, revised or replaced versions of guidelines, protocols, standards or policies, become available, the most recent version should be implemented.

3.4 Training and Awareness

All Project personnel will be made aware of the site-specific environmental controls through site inductions, and prestart meetings/toolbox talks prior to the commencement of construction.

The copy of the approved version of the CEMP will be maintained onsite during construction.

3.4.1 Site Specific Induction

The site induction will cover the following key aspects:

- Requirements of the consent
- purpose and objectives of the CEMP
- roles and responsibilities, including due diligence and duty of care
- overview of key environmental risks and specific locations of environmental significance
- an overview of requirements of legislative and other licences and approvals
- communication and notification requirements e.g. procedures for notifying and reporting incidents and complaints or prior to commencing any out of hours works
- project-specific environmental management requirements and responsibilities as specified in this CEMP and the Sub-plans
- traffic management and Drivers' Code of Conduct (also provided to all contractors and suppliers at the time of contract/order to provide to their drivers prior to visiting the site)
- workplace health and safety issues, including high-risk activities and associated safeguards
- emergency preparedness and response

Site inductions will be recorded, with copies stored in a register and signed attendance sheets filed.

Short-term visitors to the Project site will be required to undertake a visitor's induction and be accompanied on site by inducted personnel.

3.4.2 Toolbox Talks

Toolbox talks will be held weekly and tailored to specific environmental issues relevant to the upcoming works.

Topics for discussion will include, but not be limited to:

- erosion and sediment control
- traffic issues
- weed management and site hygiene protocols (land zoned E2 Environmental Conservation)
- tree felling protocol
- pollution management
- hours of work.

A record of topics covered in daily toolbox meetings will be maintained onsite.

3.4.3 Pre-start Meetings

Pre-start meetings will be conducted daily prior to commencement of works. Topics for discussion will include, but not be limited to:

- daily work activities
- safe work practices
- environmental controls
- no-go zones/restricted work areas
- hazards
- other information which may be relevant to the day's work.

4 IMPLEMENTATION

This section outlines the measures to be implemented for managing impacts on the environment which may occur during construction activities. Elements covered comprise:

- general environmental management
- traffic and access management
- erosion and sediment control
- salinity management
- noise and vibration management
- air quality management
- dam and water management
- ecology management
- contamination management
- community management
- waste management.

Environmental management measures are detailed in the following sub-sections. Environmental management Sub-plans have been prepared and are attached as appendices to this CEMP as detailed in Table 4-1.

Table 4-1: Environmental management Sub-plans

Element	Sub-plan	CEMP Section
Traffic and access	CTMP	Appendix A
Soil, water and hydrology	FMP	Appendix B
	SMP	Appendix C
	UFP	Appendix K
Noise and vibration	CNVMP	Appendix D
Air quality	CAQMP	Appendix E
Dam dewatering	DDP	Appendix F
Ecology	Flora and Fauna Management, including:	
	• Weed Eradication Management Plan	Appendix G
	• Wildlife Management Plan	Appendix H
	• Vegetation Management Plan	Appendix I
Waste	WRRMP	Appendix J

The applicable controls required in the MRP Development Control Plan (DCP) have been incorporated into the relevant Sub-plans as required.

4.1 General Environmental Management

General construction and environmental management controls are provided in

Table 4-2.

Table 4-2: General environmental management measures

Management Measure	Responsibility	Timing/ Frequency	Reference/ Notes
General			
All employees, contractors (and sub-contractors) must attend a site induction where they will be made aware of and instructed to comply with the conditions of consent and the requirements of this CEMP.	Project Manager	Prior to working onsite	CoC TBC
Lighting			
The lighting associated with the development will be screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.	Project Manager	Construction	CoC TBC

4.2 Traffic and Access Management

The CTMP (Appendix A) has been prepared in accordance with CoC **TBC**. Implementation of the CTMP will promote the safe and efficient movement of vehicles and pedestrians on, to, from and around the site, whilst minimising disruptions/impacts to local traffic flows and maintaining a safe environment for both vehicular and pedestrian traffic.

Table 4-3 outlines where each relevant CoC has been addressed within the CTMP.

Table 4-3: Traffic and access CoC

CoC	Where Addressed
[TBC]	

4.3 Soil, Water and Hydrology Management

Where imported soils are required, only engineered fill materials, Virgin Excavated Natural Material (VENM) or Excavated Natural Material (ENM) will be used. All other materials must be assessed and approved in writing by the EPA before being brought onto site.

The FMP (Appendix B) has been prepared in accordance with CoC **TBC**. The FMP will set out the requirements for imported materials with respect to contamination. Application of this FMP to all soil/ rock materials will provide a consistent approach to the management of materials with respect to their suitability for use as part of the construction and upgrade works.

The SMP (Appendix C) has been prepared to provide salinity, aggressivity, and acidity assessment and management of the in-situ soil and imported fill material present within the site.

The UFP (Appendix K) has been prepared to manage the response to any unexpected contamination identified during the construction of the Project.

Table 4-4 indicates where relevant CoC relating to soil, water and hydrology have been addressed.

Table 4-4: Soil, water and hydrology CoC

CoC	Where Addressed
[TBC]	

4.4 Noise and Vibration Management

The CNVMP (Appendix D) has been prepared in accordance with CoC **TBC**. The CNVMP will be implemented to manage the potential noise and vibration impacts from the construction of the Project.

Table 4-5 indicates where each relevant CoC has been addressed.

Table 4-5: Noise and vibration CoC

CoC	Where Addressed
[TBC]	

4.5 Air Quality Management

The CAQMP (Appendix E) has been prepared in accordance with CoC **TBC**. The CAQMP will be implemented to manage the potential air quality impacts of the construction of the Project.

Table 4-6 indicates where each relevant CoC has been addressed.

Table 4-6: Air quality CoC

CoC	Where Addressed
[TBC]	

4.6 Dam Dewatering Management

The DDP has been prepared in accordance with CoC **TBC**. Table 4-8 indicates where each relevant CoC has been addressed.

Table 4-7: Dam dewatering CoC

CoC	Where Addressed
[TBC]	

4.7 Flora and Fauna

Flora and fauna management is undertaken in accordance with three CEMP Sub-plans:

- Weed Eradication Management Plan (Appendix G)
- Wildlife Management Plan (Appendix H)
- Vegetation Management Plan (Appendix I).

Each Sub-plan has been prepared in accordance with CoC TBC. The plans will be implemented to manage the potential impacts on flora and fauna resulting from the construction of the Project.

Table 4-8 indicates where each relevant CoC has been addressed.

Table 4-8: Flora and fauna CoC

CoC	Where Addressed
[TBC]	

4.8 Waste Management

The WRRMP (Appendix J) has been prepared in accordance with CoC TBC. The WRRMP will be implemented to manage waste during the construction of the Project.

Table 4-9 indicates where each relevant CoC has been addressed.

Table 4-9: Waste and resource recovery CoC

CoC	Where Addressed
[TBC]	

5 MONITORING AND REVIEW

5.1 Environmental Inspections

The HSE Manager will complete weekly environmental inspections of the Project. The purpose of these inspections is to:

- review the performance and effectiveness of environmental controls
- identify any non-conformances or potential non-conformances against the mitigation measures and other requirements of this CEMP and the Sub-plans
- document observations and track performance.

These inspections will be documented in the Site Inspection Checklist.

Any corrective actions will be documented and their implementation will be recorded onsite to verify that they have been being actioned and closed out.

A daily pre-start inspection of plant and equipment will be undertaken by plant and equipment operators and any leaks or excessive emissions reported to the HSE Manager.

5.2 Environmental Monitoring

Environmental monitoring will be undertaken to verify:

- construction of the Project is in accordance with environmental approvals
- compliance with all relevant legislative requirements
- effectiveness of environmental controls
- implementation of this CEMP and the Sub-plans.

Monitoring requirements are included in the relevant Sub-plans. Where relevant, the Sub-plan provides detail on the following:

- responsibility for monitoring, review and reporting
- relevant standards applicable to the monitoring
- monitoring technique and location
- frequency of monitoring
- data management, review and distribution.

5.3 Non-compliance and Actions

Potential non-compliances with the consent, this CEMP and Sub-plans can be identified by anyone. Potential non-compliances are to be reported to the Project Manager. The Project Manager must report potential non-compliances to the Proponent immediately to enable a determination on compliance or non-compliance to be made.

Non-compliances will be investigated to determine the root cause and to identify any corrective and/or preventative actions. The investigation report will be provided to the Project Manager and any corrective and/or preventative actions will be recorded.

The Project Manager will apply appropriate resources to give effect to the corrective and preventative actions and document the effected closeout actions.

5.4 Environmental Incidents and Emergency Response

5.4.1 Environmental Incidents

Environmental incidents can be identified by anyone and are to be reported to the Project Manager immediately. The Project Manager will report environmental incidents to the Proponent immediately.

Where a pollution incident causes or threatens material harm to the environment or human health, the following authorities must also be notified immediately under the *POEO Act*:

- Penrith City Council
- SafeWork NSW (formerly WorkCover)
- Fire and Rescue NSW.

The Project Manager is the appropriate Project representative with authority to contact the nominated agencies.

5.4.2 Environmental Emergencies

An environmental emergency is any event that causes, or has the potential to cause, material harm to the environment.

The Proponent will nominate an emergency contact and an alternate contact that will be available 24-hours a day, seven days a week.

For reference, emergency contact details are included in Table 5-1.

Table 5-1: Emergency contact details

Contact	Phone Number/Email	Address
Ambulance	000	N/A
Fire Brigade	000	N/A
Police	000	N/A
NSW EPA Pollution Hotline	131 555	N/A
NSW Department of Health	(02) 9391 9000	N/A
SafeWork NSW	13 10 50	N/A
Penrith City Council	(02) 4732 7777	601 High St, Penrith NSW 2750
Project Manager	Mobile – TBC Email – TBC	N/A
Construction Manager	Mobile: TBC Email – TBC	N/A
Environmental Manager	Mobile – TBC Email – TBC	N/A

5.5 Environmental Reporting

Environmental reporting requirements for the Project are summarised in Table 5-2.

Table 5-2: Environmental reporting

Report	Timing/Frequency	Responsibility
Design noise verification report	Within 2 months of the commencement of earthworks	HSE Manager
Pre-construction dilapidation reports for adjoining properties	Prior to the commencement of earthworks, if offer accepted by property owners	Project Manager
Incident report	Within 30 days of the date on which the incident occurred	Project Manager
Non-compliance report	As required, following identification of a non-compliance	Project Manager
Environmental inspection and progress reports	Ongoing to the Project Manager	HSE Manager
Report on dust generation from site	As required, based on daily visual inspection	HSE Manager
Monthly project report (including overall environmental performance of the Project)	Monthly to the Proponent	Project Manager
Pre-start checks on plant and equipment and reports to HSE Manager	Daily/ weekly	Plant and Equipment Operators
Internal health, safety, security and environment audit report	Annually	HSE Manager

5.6 CEMP Review and Revision Program

This CEMP is a live document and will undergo reviews and amendments as necessary. A review program will be implemented to monitor and report on the:

- environmental performance of the Project
- effectiveness of the management measures included in the CEMP and Sub-plans.

This review will consider the broader management context of the CEMP and Sub-plans including:

- complaints received
- issues raised by stakeholders
- non-compliances identified and reported
- incidents and the Project team response
- Project team structure and resourcing
- recommendations of environmental inspections, audits and previous review (after the initial review).

The review will be completed by the HSE Manager, in consultation with the Project Manager. An Environmental Review Report recommending measures to improve the environmental performance of the Project will be produced by the review.

All employees and contractors will be informed of any revisions to the CEMP during toolbox talks.

REFERENCES

Appendix A Construction Traffic Management Plan

A CTMP for Abbots Road and Aldington Road has been prepared and is in use by developers accessing sites off these roads. This CEMP will be modified over time depending on the stage of external Road upgrade works and adjustments made to provide access to this site.

Appendix B Fill Management Plan

Provided as Appendix J of the SEE

Appendix C Salinity Management Plan

Provided as Appendix CC of the SEE

Appendix D Construction Noise and Vibration Management Plan



Construction Noise and Vibration Management Plan

270 Aldington Road, Kemps Creek

Stockland Development Pty Ltd

DOCUMENT TRACKING

Version No.	Document No.	Description	Prepared By	Approved By	Date
Rev 01	J001937231129.01	Draft issued to client for review	D. McKone / Z. Ahmed	M. Williams	29/11/2023
Rev 02	J001937231205.02	Draft updated to address client comments	Z. Ahmed	M. Williams	05/12/2023
Rev 03	J001937231213.03	Draft updated to address client comments	Z. Ahmed	M. Williams	13/12/2023

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- a) the consequences of this document being used for any purpose or project other than for which it was commissioned; and*
- b) this document to any third party with whom an agreement has not been formally executed.*

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.

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Glossary

AS	Australian standard
BAPS	Bochasanwasi Akshar Purushottam Sanstha Hindu Mandir
CEMP	Construction Environmental Management Plan
CNVMP	Construction Noise and Vibration Management Plan
DA	Development Application
EPA	NSW Environment Protection Authority
POEO Act	NSW Protection of the Environment Operations Act 1997
Project	Subdivision and subdivision works for 270 Aldington Road, Kemps Creek

1. INTRODUCTION

1.1. Background

This Construction Noise and Vibration Management Plan (CNVMP) has been prepared by Aspect Environmental Pty Ltd (Aspect), on behalf of Stockland Development Pty Ltd) (the Proponent), to support a Development Application (DA) for proposed subdivision and subdivision works (Project) at 270 Aldington Road, Kemps Creek (the Site).

This CNVMP is a Sub-plan of the Construction Environmental Management Plan (CEMP) and has been prepared with reference to:

- Mamre Road Precinct Development Control Plan (DPIE, 2021)
- Development Application (Reference Details **TBC**)
- Statement of Environmental Effects (SEE) (EMM, 2023)
- Interim Construction Noise Guideline (DECC, 2009).

1.2. Project Description

The Project is located at 270 Aldington Road, Kemps Creek (Lots 16 and 17 in Deposited Plan (DP) 253503 and part Lot 15 DP253503) within the Penrith local government area, approximately 15km south-east of the Penrith central business district. The Project lies within the Mamre Road Precinct of the Western Sydney Employment Area and in the eastern extent of the Western Sydney Aerotropolis.

Covering a rectangular area of approximately 26.45ha, the Site is currently zoned IN1 General Industrial under Chapter 2 of the State Environmental Planning Policy (Industry and Employment) 2021. The location of the Project is generally indicated by the red outline on Figure 1-1.

The Site currently comprises undulating rural land, with foundations of residential dwellings, farm sheds, and miscellaneous agricultural greenhouses and ancillary structures. It is rural-residential in nature, with significant areas of land currently remaining undeveloped. The nearest residential suburb is Mount Vernon, approximately 570m to the east of the Site (at the nearest point). The established suburban developments at Erskine Park and St Clair are approximately 4.5km to the north of the Site.

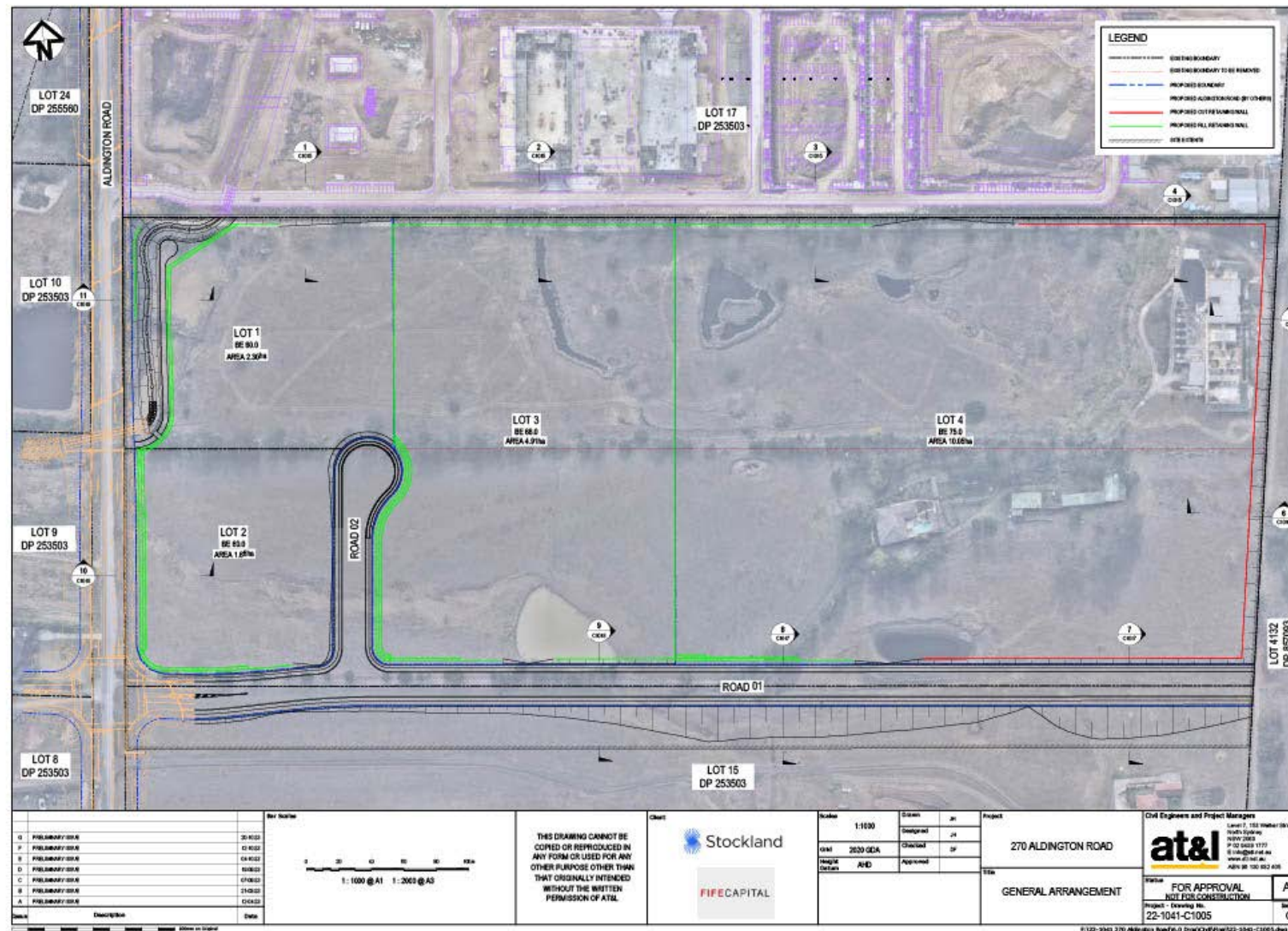
The road network adjacent to the Site includes Aldington Road, an unclassified collector road, which connects with Mamre Road to the west. The M4 Motorway is approximately 6.5km to the north of the Site, whilst the M7 Motorway is approximately 4km to the east of the Site.

The Site layout for the Project is shown in Figure 1-2.

Figure 1-1: Site location



Figure 1-2: General arrangement (22-1041-C1005, AT&L, Nov 2023)



1.3. Purpose of this Plan

This CNVMP has been prepared to identify the management measures which will be implemented to monitor and manage the noise and vibration during the construction phase of the Project.

Construction of the Project will be undertaken in accordance with the most recent version of this CNVMP.

All Project personnel are responsible for the implementation of this CNVMP and have the responsibility to stop works to avoid a material safety or environmental incident from occurring.

Roles and responsibilities for environmental management of the Project are outlined in Table 3-2 of the CEMP.

1.4. Construction Activities and Equipment

The plant and equipment anticipated to be required during construction works are detailed in Table 1-1.

Table 1-1: Construction activities and equipment

Construction Stage	Description	Equipment Requirements
1	Site clearing	Large excavators, dozers, loaders and trucks
2	Bulk earthworks	Large excavators, dozers, loaders and trucks
3	Road construction	Road and hardstand construction equipment including loaders, graders, backhoes, rollers and asphalt pavers may be used. Piling rigs may be used during this phase.

1.5. Construction Hours

The Project will be constructed during standard construction hours as identified in the Interim Construction Noise Guideline (DECC, 2009) (ICNG) which have been reproduced in Table 1-2.

Table 1-2: Construction hours

Activity	Day	Time
Subdivision and subdivision works	Monday to Friday	7 am to 6 pm
	Saturday	8 am to 1 pm
	Sunday and Public Holidays	No work

In accordance with the INCG, works outside these hours may be undertaken in the following circumstances:

- for the delivery of materials by the NSW Police Force or other authorities for safety reasons
- where required in an emergency to avoid the loss of lives, property or to prevent environmental harm
- maintenance and repair of public infrastructure
- public infrastructure works

- works where the Proponent demonstrates and justifies a need to operate outside the recommended standard hours.

Where reasonable and feasible to do so, notification to Council would be provided in advance of commencement of out-of-hours works.

2. PROJECT APPROVAL

The Project will be constructed in accordance with the conditions attached to the approved DA. Conditions of the DA which apply to noise and vibration management are identified in Table 2-1.

Table 2-1: DA conditions and where addressed in this CNVMP

DA Reference #	Section
<i>TBC</i>	<i>TBC</i>

3. MANAGEMENT MEASURES

3.1. Sensitive Receivers

The Project is located within a rural setting that is being progressively developed for industrial/light industrial activities.

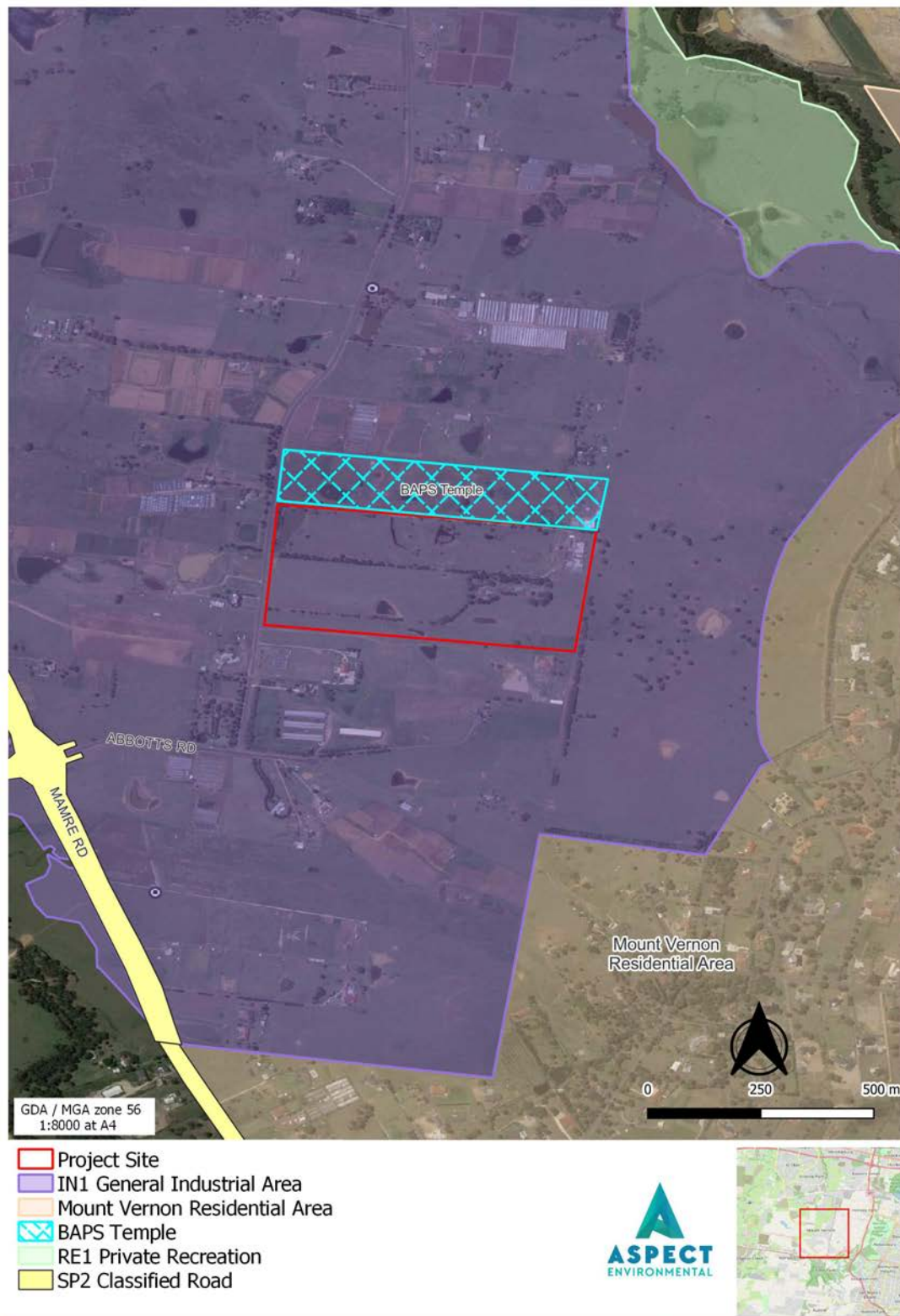
The Oakdale South industrial area is located approximately 1.6km to the north-east.

The Westlink Kemps Creek project is located approximately 175m south of the Project and the Mount Vernon rural residential area is located between 600m and 700m to the east and south-east, depending on site location.

Currently under construction to the north of the Site is the Bochasanwasi Akshar Purushottam Sanstha (BAPS) Hindu Mandir, located on Lot 18 DP 253503. The BAPS is due to commence operations in March 2024. The Project understands that the BAPS will generally operate on Sundays' outside of normal construction hours. Prior to BAPS commencing operations, the Project will consult with BAPS to manage any potential impacts to BAPS operations.

Sensitive receivers are identified on Figure 3-1.

Figure 3-1: Sensitive receivers



The noise and vibration management measures to be implemented for the Project are identified in Table 3-1.

Table 3-1: Noise and vibration management measures

ID	Management Measure	Timing	Responsibility
NV 1	Penrith City Council to be notified of commencement of construction at least 7 days prior to commencement.	Prior to construction	Project Manager
NV 2	Include the DA approved construction hours of work and 24-hour contact phone number for any inquiries, including noise complaints on site entrance signage.	During Construction	Project Manager
NV 3	Investigate any noise or vibration complaints. Where feasible and reasonable, implement remedial actions.	At all times	Project Manager
NV 4	Where feasible, select, operate and maintain plant and equipment to minimise noise and vibration, including: • select plant and equipment based on least noise and vibration emission levels • use noise source controls, such as the use of residential class mufflers, to reduce noise from all plant and equipment • maintain, repair or replace plant and equipment if it is suspected that predicted sound power levels are exceeded • use silenced generators and compressors • use non-tonal movement alarms in place of reversing beepers, or alternatives such as reversing cameras and proximity alarms, unless tonal alarms are mandated by legislation • maintain plant and equipment in good working condition • operated plant with engine covers and hatches closed as instructed by the manufacturer.	Construction	All personnel
NV 5	Where feasible and reasonable, adopt the following work practices to minimise noise and vibration: • throttle down or switch off plant when not in use • adhere to speed limits and other signposted instructions • noise-emitting plant to be directed away from sensitive receivers.	Pre-Construction and Construction	Contactor
NV 6	Construction, including the delivery of plant, equipment and any materials to and from the site, may only be carried out between the following hours: • between 7 am and 6 pm, Mondays to Fridays inclusive • between 8 am and 1 pm, Saturdays	Construction	All personnel

ID	Management Measure	Timing	Responsibility
NV 7	no work may be carried out on Sundays or public holidays.	Construction	All personnel
	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:		
	9am to 12pm, Monday to Friday		
	2pm to 5pm Monday to Friday		
	9am to 12pm, Saturday.		

4. MONITORING AND REVIEW

In addition to the monitoring outlined in Table 3-1, ongoing environmental inspections, monitoring and reporting for the Project are detailed in Section 5 of the CEMP. The monitoring and review actions relevant to this CNVMP are provided below.

4.1. Environmental Inspections

Environmental inspections relevant to the implementation of this CNVMP are:

- HSE Manager daily inspection to monitor and verify implementation of mitigations measures in this CNVMP
- Daily pre-start checks on vehicles, plant and equipment.

4.2. Environmental Monitoring

Given the distance to sensitive receivers, the significant road network and other industrial uses in the area, attended noise monitoring will only be conducted following the receipt of a noise or vibration complaint. Monitoring would occur at the site boundary proximate to the direction of where the complaint originated and calculated back to the origin of the complaint.

If noise generating works are shown to exceed noise criteria, or if repeated noise complaints are received, additional mitigation measures will be reviewed for feasibility of implementation for these activities to reduce overall noise emissions, such as:

- alternate work methodologies
- alternative plant with lower noise
- plant and machinery will be checked and verified for noise levels and appropriate exhaust / fittings / noise attenuators will be considered and
- acoustic screenings.

If vibration complaints are received, management measures will be implemented to meet vibration criteria. Management measures may include modification of construction methodologies, including the use of smaller equipment, enhancing safe working distances and, if necessary, time restrictions for the most excessive vibration activities.

4.3. Non-compliance and Actions

Section 5.4 of the CEMP details the Project team's response following the identification of a non-compliance with the consent, the CEMP and Sub-plans. This includes the reporting, investigation and notification of non-compliances within the scope of this CNVMP.

4.4. Environmental Incident and Emergency Response

Section 5.5 of the CEMP details environmental incidents and the response to environmental emergencies for the Project. This includes the reporting, notification and investigation of environmental incidents.

In the event of an environmental incident or emergency related to the implementation of this CNVMP, the processes detailed in the CEMP will be implemented.

4.5. Environmental Reporting

Environmental reporting requirements for the Project is documented in Section 5.6 of the CEMP. Reports relevant to this CNVMP are listed in Table 4-1.

Table 4-1: Summary of environmental reporting for the CNVMP

Report	Timing/ Frequency	Responsibility
Incident report	Within 30 days of the date on which the incident occurred	Project Manager
Non-compliance Report	As required, following identification of a non-compliance	Project Manager
Environmental inspection and progress reports	Ongoing to the Project Manager	HSE Manager
Report on excessive noise being generated at source	When occurs, based on daily visual inspection	HSE Manager
Pre-start checks on plant and equipment and reports to HSE Manager	Daily	Plant and Equipment Operators
Internal health, safety, security and environment audit report	Annually	HSE Manager

4.6. CNVMP Review and Revision Process

This CNVMP will be reviewed in accordance with Section 5.7 of the CEMP.

The Project will review the adequacy of the environmental management measures within this CNVMP as well as the effectiveness of their implementation to determine whether they are still applicable to the activities being carried out on site. This review will be undertaken by the HSE Manager in consultation with the Project Manager.

All employees and contractors will be informed of any revisions to the CNVMP during toolbox talks.



Construction Air Quality Management Plan

270 Aldington Road, Kemps Creek

Stockland Development Pty Ltd

DOCUMENT TRACKING

Version No.	Document No.	Description	Prepared By	Approved By	Date
Rev 01	J001937231129.01	Draft issued to client for review	Z. Ahmed	M. Williams	29/11/2023
Rev 02	J001937231205.02	Draft updated to address client comments	Z. Ahmed	M. William	05/12/2023
Rev 03	J001937231213.03	Updated to address client comments	Z. Ahmed	M. William	13/12/2023

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APPROVER DETAILS

Approver Details	Qualifications and Experience
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Table 5-1: Summary of environmental reporting for the CAQMP

Glossary

AS	Australian standard
BAPS	Bochasanwasi Akshar Purushottam Sanstha Hindu Mandir
CAQMP	Construction Air Quality Management Plan
CEMP	Construction Environmental Management Plan
CO	Carbon monoxide
DA	Development Application
DP	Deposited Plan
EPA	NSW Environment Protection Authority
HSE Manager	Health Safety and Environmental Manager
NO ₂	Nitrogen dioxide
NO _x	Oxides of nitrogen
OU	Odour unit
PM	Particulate Matter
POEO Act	NSW Protection of the Environment Operations Act 1997
pphm	Parts per hundred million
ppm	Parts per million
SO ₂	Sulphur dioxide
the Project	Subdivision and subdivision works for 270 Aldington Road, Kemps Creek
TSP	Total suspended particulates

1. INTRODUCTION

1.1. Background

This Construction Air Quality Management Plan (CAQMP) has been prepared by Aspect Environmental Pty Ltd (Aspect), on behalf of Stockland Development Pty Ltd (the proponent), to support a development application (DA) for proposed subdivision and subdivision works (Project) at 270 Aldington Road, Kemps Creek (the Site).

This CAQMP is a Sub-plan of the Construction Environmental Management Plan (CEMP) and has been prepared with reference to:

- Mamre Road Precinct Development Control Plan (DPIE, 2021)
- Development Application (Reference Details **TBC**)
- Statement of Environmental Effects (SEE) (EMM, 2023).

1.2. Project Description

The Project is located at 270 Aldington Road, Kemps Creek (Lots 16 and 17 in DP 253503 and part Lot 15 DP253503) within the Penrith local government area (LGA), approximately 15km south-east of the Penrith CBD. The Project lies within the Mamre Road Precinct of the Western Sydney Employment Area and in the eastern extent of the Western Sydney Aerotropolis.

Covering a rectangular area of approximately 26.45ha, the Site is currently zoned IN1 General Industrial under Chapter 2 of the State Environmental Planning Policy (Industry and Employment) 2021. The location of the Project site is generally indicated by the red outline on Figure 1-1.

The Site currently comprises undulating rural land, with foundations of residential dwellings, farm sheds, and miscellaneous agricultural greenhouses and ancillary structures. It is rural-residential in nature, with significant areas of land currently remaining undeveloped. The nearest residential suburb is Mount Vernon, approximately 570m to the east of the Site (at the nearest point). The established suburban development at Erskine Park and St Clair are approximately 4.5km to the north of the Site.

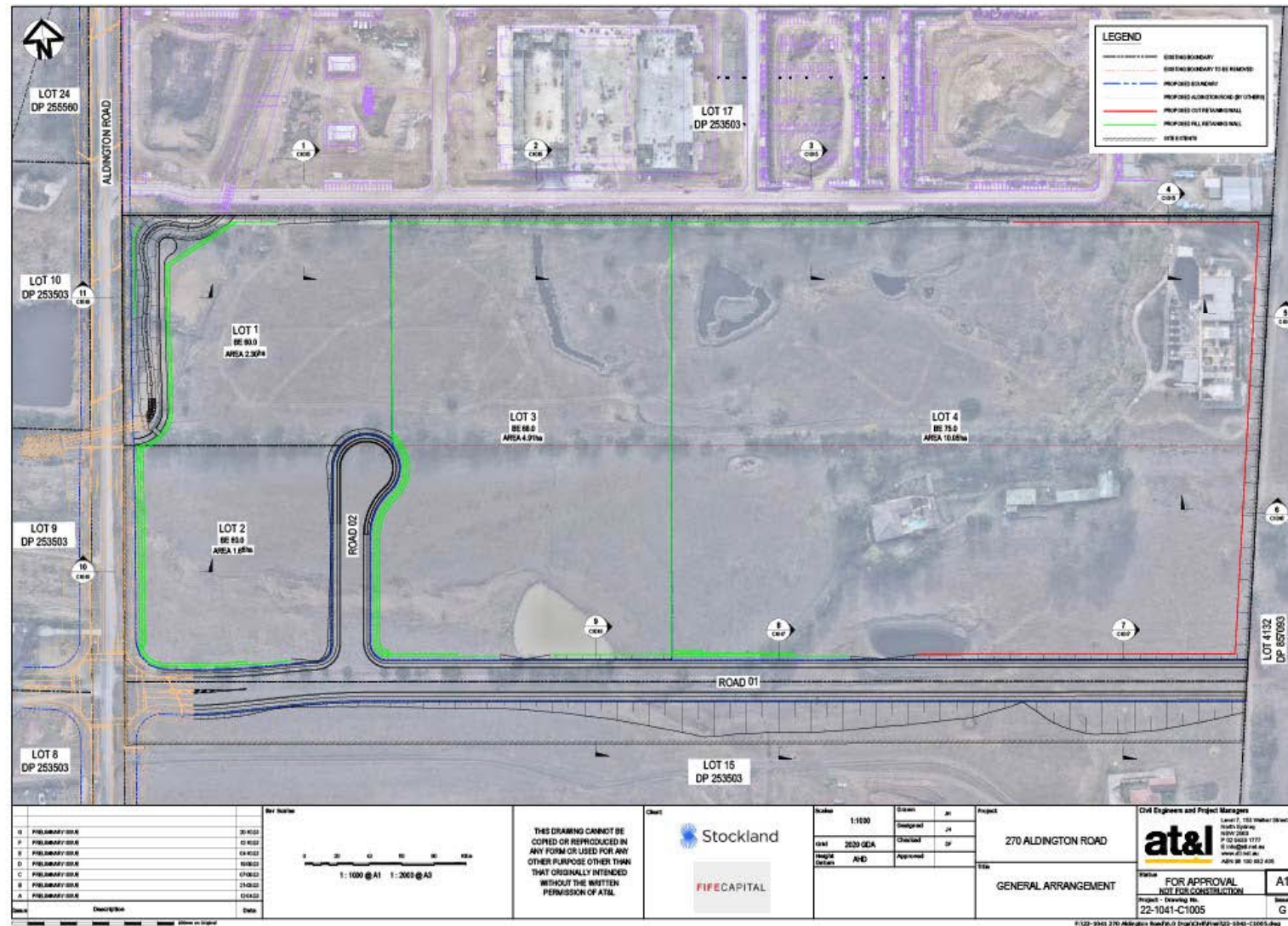
The road network adjacent to the Site includes Aldington Road, an unclassified collector road, which connects with Mamre Road to the west. The M4 Motorway is approximately 6.5km to the north of the Site, whilst the M7 Motorway is approximately 4km to the east.

The Site layout for the Project is shown in Figure 1-2.

Figure 1-1: Site context



Figure 1-2: General arrangement (22-1041-C1005, AT&L, Nov 2023)



1.3.Purpose of this Plan

This CAQMP has been prepared to identify the measures which will be implemented to monitor and manage the air quality impacts occurring during the construction phase of the Project.

Construction will be undertaken in accordance with the most recent version of this CAQMP.

All Project personnel are responsible for the implementation of this CAQMP and have the responsibility to stop works to avoid a material safety or environmental incident from occurring.

Roles and responsibilities for environmental management of the Project are outlined in Table 3-2 of the CEMP.

2. PROJECT APPROVAL AND LEGAL REQUIREMENTS

2.1. Project Approval

The Project will be constructed in accordance with any conditions attached to the approved DA. Conditions of the DA which apply to air quality management are identified in Table 2-1.

Table 2-1: DA conditions and where addressed in this CAQMP

DA Reference #	Section
<i>TBC TBC</i>	<i>TBC</i>

2.2. Legal Requirements

The Project is to be constructed in accordance with applicable legislative instruments, permits, licences and guidelines as required. The instruments relevant to the management of air quality across the Project are outlined in Table 2-2.

Table 2-2: Legislative and related instruments relevant to the Project

Instrument	Key Project Requirements	Activity/Aspect
<i>Environment Planning and Assessment Act 1979</i>	Establishes a system of environmental planning and assessment of proposed developments in NSW. The Project must comply with the requirements of the consent.	All
<i>Protection of the Environment Operations Act 1997 (POEO Act)</i>	Part 5.4 of the POEO Act requires operators to: (a) maintain plant in an efficient condition, or (b) operate plant in a proper and efficient manner. The Act also creates obligations for dealing with raw materials and emissions of particulates and odours which cause air pollution outside the premises.	Bulk earthworks. Materials management Stockpile management Operation and maintenance of plant and equipment
<i>Protection of the Environment Operations (Clean Air) Regulation 2022</i>	Part 5 deals with air impurities emitted from activities and plant including for non-scheduled premises.	Operation and maintenance of plant and equipment
<i>National Environment Protection (Ambient Air Quality) Measure 2021</i>	Establishes air quality criteria for chemical and particulate emissions.	Bulk earthworks Materials management Stockpile management Operation and maintenance of plant and equipment

Instrument	Key Project Requirements	Activity/Aspect
Approved Methods for Modelling and Assessment of Air Pollutants in NSW (NSW Environmental Protection Authority (EPA), 2016)	Establishes air quality monitoring and assessment methods for chemical and particulate emissions.	Operation and maintenance of plant and equipment
Guidance on the Assessment of Dust from Demolition and Construction (EPA, 2016)	Dust emissions beyond site boundary	Bulk earthworks. Materials management Stockpile management
Technical framework: Assessment and management of odour from stationary sources in NSW (EPA, 2006).	Odour emissions from plant or materials beyond site boundary.	Operation and maintenance of plant and equipment Site amenities Waste disposal areas

3. EXISTING ENVIRONMENT

3.1. Meteorological Conditions

Meteorological conditions can have a large impact on air quality. In periods of high wind and dry weather there is a greater potential for dust and volatiles to be generated and transported offsite.

Wind data obtained from nearby St Marys air quality monitoring station (AQMS) show similar patterns of wind speed and wind direction over a 5-year period, with south-westerly and north-westerly winds prevailing (Figure 3-1).

3.2. Local Ambient Air Quality

Air quality monitoring is conducted at the nearby St Marys AQMS. The St Marys AQMS is operated by the NSW Department of Planning and Environment (DPE) and is located approximately 6km north-north-west from the Project. A summary of air quality monitoring data over a seven-year period from 2014-2020 against the NSW EPA air quality criteria (Table 3-3) is provided in Table 3-1 for particulate matter (PM₁₀ and PM_{2.5}) and NO₂. The results indicate local ambient air quality is generally below the relevant NSW EPA air quality criteria, noting that elevated levels were recorded during 2019 due to bushfires and dust storms in the region.

Table 3-1: Ambient air quality monitoring concentrations in proximity to the Project

Pollutant	Average Annual Concentration (µg/m ³) 2014-2020	Average Annual NSW EPA Air Quality Criteria (µg/m ³)
PM ₁₀	17.9	25
PM _{2.5}	8.1	8
NO ₂	8.3	62

3.3. Sensitive Receivers

The Project is located within a rural setting that is being progressively developed for industrial/light industrial activities.

The Oakdale South industrial area is located approximately 1.6km to the north-east.

The Westlink Kemps Creek project is located approximately 175m south of the Project and the Mount Vernon rural residential area is located between 600m and 700m to the east and south-east, depending on site location.

Currently under construction to the north of the Site is the Bocharanwasi Akshar Purushottam Sanstha (BAPS) Hindu Mandir, located on Lot 18 DP 253503. The BAPS is due to commence operations in March 2024. The Project understands that the BAPS will generally operate on Sundays' outside of normal construction hours. Prior to BAPS commencing operations, the Project will consult with BAPS to manage any potential impacts to BAPS operations.

Sensitive receivers are identified in Figure 3-2.

Figure 3-1: St Marys wind roses, 2015-2019 (RWDI, 2021)

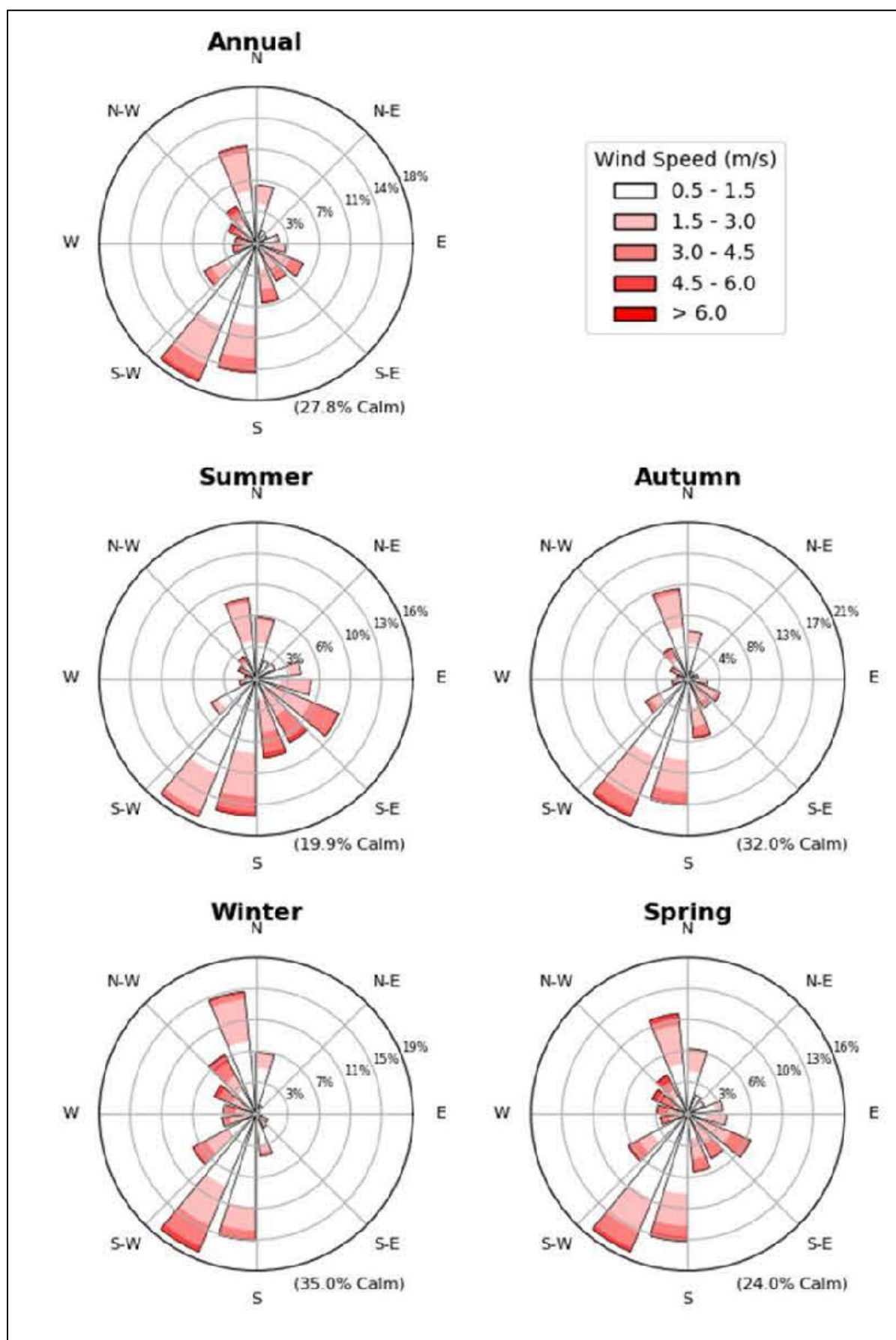
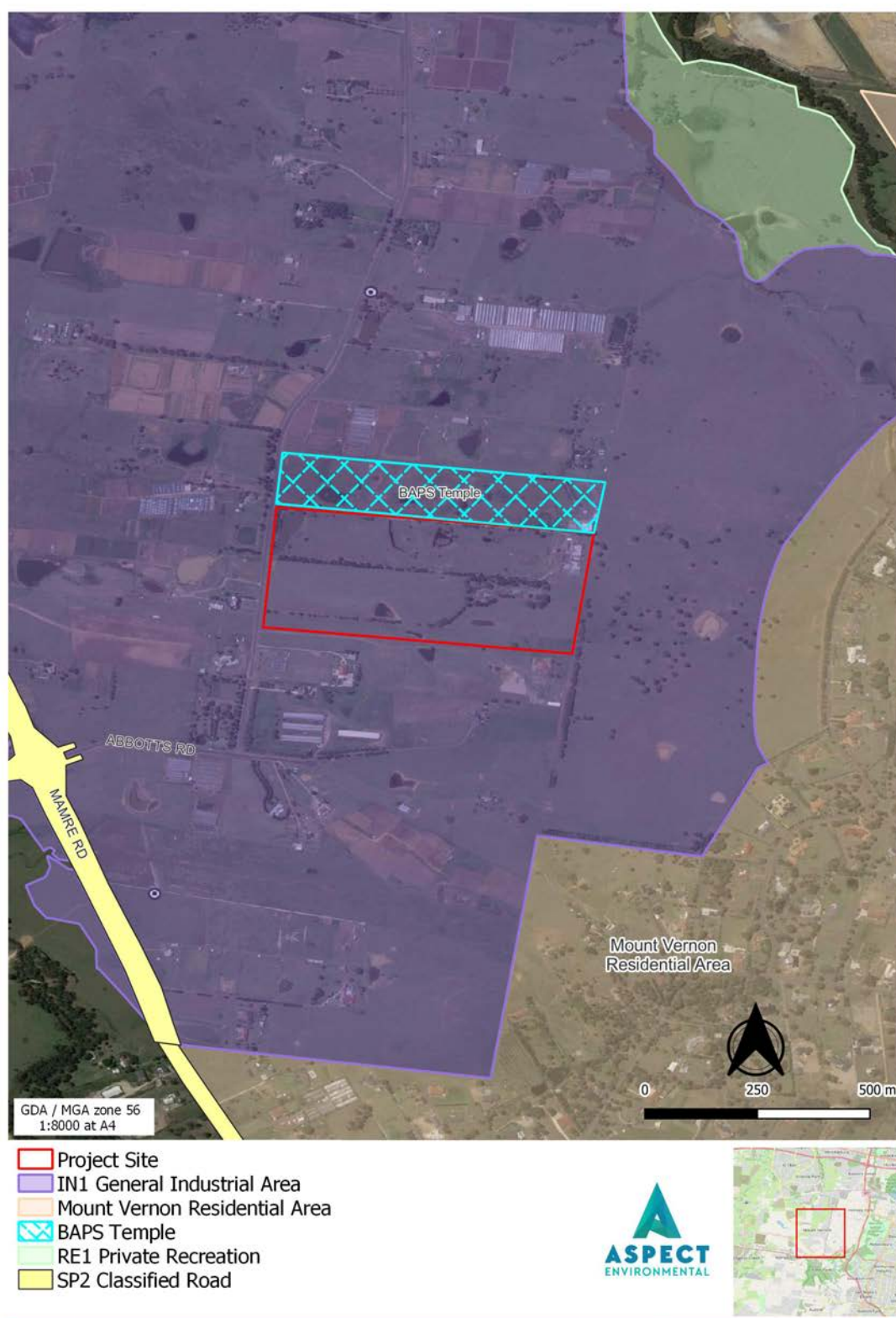


Figure 3-2: Sensitive receivers



3.4. Air Emission Sources

The primary sources of air emissions during construction of the Project are likely to relate to:

- demolition:
 - likely to be the shortest and of least impact
 - small number of structures to be removed using trucks, excavators and hand tools
- earthworks:
 - likely to be the longest stage of works and of most impact
 - earthworks will involve a large number of trucks, excavators, dozers, graders and associated equipment.

The Project activities are subject to the implementation of the management measures identified in Section 4.

The potential sources of air emissions during subdivision and earthworks are identified and ranked in additional detail in Table 3-2.

Table 3-2: Potential sources of air emissions

Source	Description	Potential Emissions	Potential Impact
Demolition	Removal of existing buildings and other structures on site using trucks, excavators and hand tools	Dust generation	Low
		Vehicle, plant and equipment exhaust	Low
Earthworks	Active working of unsealed areas, including construction of internal roads, with excavators, bulldozers, scrapers, graders and other plant and equipment	Dust generation	High
		Vehicle, plant and equipment exhaust	Medium
	Vehicle and equipment movements across unsealed areas	Dust generation	High
		Vehicle, plant and equipment exhaust	Medium
	Screening, crushing or other processing of excavated material	Dust generation	Medium
		Plant and equipment exhaust	Low
	Loading and unloading of excavated material to and from trucks	Dust generation	High
		Vehicle, plant and equipment exhaust	Medium
	Exhaust from generators and other plant	Plant and equipment exhaust	Low
	Stockpiling of excavated and other material	Dust generation	High
		Odour generation	Low
Services/ utilities works	Site wide services and utilities installation using a variety of vehicles, plant and equipment	Dust generation	Low
		Vehicle, plant and equipment exhaust	Low
Roads and other sealed surfaces	Sediment deposited on roads and other sealed surfaces	Dust generation	Medium

Source	Description	Potential Emissions	Potential Impact
Site compound	Light vehicle movements	Dust generation	Low
		Vehicle exhaust	Low
	Site ablutions facilities	Odours	Low

3.5. Air Emissions and Air Quality Criteria

Based on the potential sources of air emissions identified in Table 3-2, the following pollutants will require management during construction:

- Particulate matter – measured as total suspended particulates (TSP), PM₁₀ and PM_{2.5} – for management of potential health impacts.
- Products of combustion of fuels in vehicles, plant and equipment – carbon monoxide (CO), oxides of nitrogen (NO_x) and in particular Nitrogen Dioxide (NO₂) and sulphur dioxide (SO₂) – for management of potential health impacts.

Air quality guidelines for these pollutants are specified in the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (NSW EPA, 2017) and the Technical framework: Assessment and management of odour from stationary sources in NSW (NSW EPA, 2006). Relevant air quality criteria from these documents are provided in Table 3-3.

Table 3-3: Construction air quality criteria

Pollutant	Averaging Period	Air Quality Criteria	Application
Deposited dust	Annual	4g/m ² /month total	Off-site receiver
Total suspended particulates	Annual	90µg/m ³	Receiver
PM ₁₀	Annual	25µg/m ³	Receiver
	24-hour	50µg/m ³	Receiver
PM _{2.5}	Annual	8µg/m ³	Receiver
	24-hour	25µg/m ³	Receiver
CO	8 hours	9ppm	Receiver
	1 hour	25ppm	Receiver
	15 minutes	87ppm	Receiver
NO ₂	Annual	3pphm	Receiver
	1-hour	12pphm	Receiver
SO ₂	Annual	2pphm	Receiver
	24 hours	8pphm	Receiver
	1 hour	20pphm	Receiver
	10 minutes	25pphm	Receiver
Odours	-	2OU	Site boundary

Subsequent to the publication of the NSW EPA documents, the National Environment Protection Council varied the National Environment Protection (Ambient

Air Quality) Measure standards for NO₂, PM_{2.5} and SO₂ in 2021. Updated criteria apply from 2025. The updated criteria are:

- PM_{2.5}:
 - annual average of 7µg/m³
 - 1-hour average of 20µg/m³
- NO₂:
 - annual average of 1.5pphm
 - 1-hour average of 8pphm
- SO₂:
 - 1-hour average of 10pphm.

These criteria may be considered from a benchmarking perspective, however, the NSW EPA documentation should be referenced in the first instance for State agency expectations of performance.

4. MANAGEMENT MEASURES

The air quality management measures to be implemented for the Project are identified in Table 4-1. Table 4-1 identifies the emission sources (described in Table 3-2) which are addressed by each management measure, as well as the timing and responsibility for the implementation of each measure. The air quality criteria and details of air quality monitoring are included in Section 3.5 and Section 5.2 respectively.

Table 4-1: Air quality management measures

ID	Management Measure	Timing	Responsibility
AQ 1	Undertake daily site inspections to monitor visible dust generation, dust suppression effectiveness, weather conditions and act if necessary.	During construction	HSE Manager
AQ 2	Where possible, locate high dust generating activities away from sensitive receivers and supervise these activities to allow immediate action to be taken should excessive dust generation occur.	During construction	Construction Manager
AQ 3	Signpost and impose 25km/h maximum speed limits on surfaced and 15km/h on unsurfaced haul routes and work areas to minimise dust generated from vehicle movements.	During construction	Construction Manager
AQ 4	Utilise water cart(s) on site for dust suppression of haul roads, stockpiles and dust generating activities.	During construction	Construction Manager
AQ 5	Install a shaker grid and wheel wash bay on site to manage and minimise tracking of sediment onto public road network.	During construction	Construction Manager
AQ 6	Monitor weather conditions and stop works if dust generation is excessive.	Daily	Construction Manager
AQ 7	During periods of unsuitable weather (high winds and high temperatures), avoid or minimise dust generating activities where possible, or increase frequency of dust suppression activities.	When required	Construction Manager
AQ 8	Avoid unnecessary idling and switch off engines during periods of inactivity.	During construction	All workers
AQ 9	Maintain vehicles, plant and equipment in a proper and efficient condition and operate them in a proper and efficient manner. Replace, repair or service vehicles, plant and equipment observed to have excessively smoky exhausts.	When required	Construction Manager
AQ 10	Use dust sweeper(s) on the access and local roads, as necessary.	When required	Construction Manager
AQ 11	Vehicles and trucks entering and exiting site are to be covered to prevent escape of materials during transport.	During construction	All workers
AQ 12	Progressive disturbance of the site to optimise ground cover.	During construction	Project Manager
AQ 13	Where possible, prioritise land stabilisation works to minimise exposed surfaces.	During construction	Project Manager
AQ 14	Stockpiles to be stabilised in accordance with Blue Book requirements including: - stockpiles to be located away from sensitive receptors where feasible	Where required	Construction Manager

ID	Management Measure	Timing	Responsibility
	- stockpiles to be trimmed with slopes - use soil binding agents on exposed surfaces – these can form a crust that minimises wind erosion.		
AQ 16	Inspect site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	Where required	Construction Manager
AQ 17	Locate access gates at least 10m from sediment receptors where possible.	During construction	Construction Manager
AQ 18	Maintain paved surfaces (where feasible) on site to avoid accumulation of dust and mud and tracking of sediment.	During construction	Construction Manager

5. MONITORING AND REVIEW

In addition to the management outlined in Table 4-1, ongoing environmental inspections, monitoring and reporting for the Project are detailed in Section 5 of the CEMP. The monitoring and review actions relevant to this CAQMP are provided below.

5.1. Environmental Inspections

Environmental inspections relevant to the implementation of this CAQMP include:

- Daily and weekly inspections by the HSE Manager to monitor and verify implementation of management measures including:
 - observation of dust generation on site and of dust leaving the site on a daily basis and during high wind events
 - observation of exhaust emissions from vehicles, plant and equipment
 - observation of the effectiveness of air quality mitigation measures
- daily pre-start checks on vehicles, plant and equipment.

5.2. Environmental Monitoring

Environmental monitoring is summarised in Section 5.2 of the CEMP and will be undertaken to assist in the management of the following:

- construction of the Project in accordance with environmental approvals
- compliance with all relevant legislative requirements
- the minimisation of potential environmental incidents
- effectiveness of environmental controls
- implementation of this CAQMP.

5.3. Non-compliance and Actions

Section 5.4 of the CEMP details the Project team's response following the identification of a non-compliance with the DA, the CEMP and Sub-Plans. This includes the reporting, investigation and notification of non-compliances within the scope of this CAQMP.

5.4. Environmental Incident and Emergency Response

Section 5.5 of the CEMP details environmental incidents and the response to environmental emergencies for the Project. This includes the reporting, notification and investigation of environmental incidents.

In the event of an environmental incident or emergency related to the implementation of this CAQMP, the processes detailed in the CEMP will be implemented.

5.5. Environmental Reporting

Environmental reporting requirements for the Project is documented in Section 5.6 of the CEMP. Reports relevant to this CAQMP are listed in Table 5-1.

Table 5-1: Summary of environmental reporting for the CAQMP

Report	Timing/ Frequency	Responsibility
Incident Report	Within 30 days of the date on which the incident occurred	Project Manager
Non-Compliance Report	As required, following identification of a non-compliance	Project Manager
Environmental inspection and progress reports	Ongoing to the Project Manager	HSE Manager
Report on excessive dust being generated at source and dust leaving the site	When occurs, based on daily visual inspection	HSE Manager
Pre-start checks on plant and equipment and reports to Environmental Manager	Daily	Plant and Equipment Operators
Internal Health, Safety, Security and Environment Audit Report	Annually	HSE Manager

5.6.CAQMP Review and Revision Process

This CAQMP will be reviewed in accordance with Section 5.7 of the CEMP.

The Project will review the adequacy of the environmental mitigation measures within this CAQMP as well as the effectiveness of their implementation to determine whether they are still applicable to the activities being carried out on site. This review will be undertaken by the HSE Manager in consultation with the Project Manager.

All employees and contractors will be informed of any revisions to the CAQMP during toolbox talks.

Appendix F Dam Dewatering Plan

Provided as Appendix R of the SEE

Appendix G Weed Eradication Management Plan

Provided as Appendix P of the SEE



Wildlife Management Plan

270 Aldington Road, Kemps Creek

Stockland Development Pty Ltd

DOCUMENT TRACKING

Version No.	Document No.	Description	Prepared By	Approved By	Date
Rev 01	J001937231129.01	Draft to Client	C. Johnson	R. Johnson	29/11/2023
Rev 02	J001937231205.02	Final	C. Johnson	R. Johnson	05/12/2023

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Glossary

BC Act	Biodiversity Conservation Act 2016 (BC Act)
CEMP	Construction Environmental Management Plan
CPCP	Cumberland Plain Conservation Plan
DPIE	Department of Primary Industries and Environment (now Department of Environment (DPE))
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Cwlth)
Flora and Fauna Assessment Report	270 Aldington Road, Kemps Creek Flora and Fauna Assessment (Eco Logical Australia Pty Ltd, Rev 2, 3 November 2023)
Mamre Road DCP	NSW Department of Planning, Industry and Environment (DPIE) Development Control Plan: Mamre Road Precinct - Western Sydney Employment Area, (November 2021)
MNES	Matters of National Environmental Significance
Stockland	Stockland Development Pty Ltd
The Project	Subdivision works and bulk earthworks at 270 Aldington Road, Kemps Creek
WMP	Wildlife Management Plan

1. INTRODUCTION

1.1. Background

This Wildlife Management Plan (WMP) has been prepared by Aspect Environmental Pty Ltd (Aspect), who have been engaged by AT&L on behalf of Stockland Development Pty Ltd (the Proponent), to support a development application (DA) being submitted to Penrith City Council for subdivision and subdivision works at 270 Aldington Road, Kemps Creek ('the Project').

This WMP is a sub-plan of the Construction Environmental Management Plan (CEMP) and has been prepared with reference to the following documentation:

- Mamre Road Precinct Development Control Plan: - (November 2021) (Mamre Road DCP)
- The Cumberland Plain Conservation Plan (DPIE, 2022) (CPCP)
- 270 Aldington Road, Kemps Creek Flora and Fauna Assessment (Eco Logical Australia Pty Ltd, Rev 2, 3 November 2023) (Flora and Fauna Assessment Report).

1.2. Project Description

The Project is located at 270 Aldington Road, Kemps Creek (Lots 16 and 17 in DP 253503 and part Lot 15 DP253503) within the Penrith local government area approximately 15km south-east of the Penrith central business district. The Project lies within the Mamre Road Precinct of the Western Sydney Employment Area and in the eastern extent of the Western Sydney Aerotropolis.

Covering an area of approximately 26.45ha, the Project site is currently zoned as IN1 General Industrial under Chapter 2 of the State Environmental Planning Policy (Industry and Employment) 2021. The location of the Project site is generally indicated by the red outline in Figure 1-1.

The site currently comprises undulating rural land, with foundations of residential dwellings, farm sheds, and miscellaneous agricultural greenhouses and ancillary structures. It is rural-residential in nature, with significant areas of land currently remaining undeveloped.

The Project will comprise subdivision and associated subdivision works including the construction of access roads, utilities and earthworks. To enable subdivision works, the demolition of two residential dwellings and sundry rural buildings (sheds and outbuildings) is proposed.

Figure 1-1 Site context



1.3.Purpose of this Plan

This WMP has been prepared to identify the measures which will be implemented to monitor and manage biodiversity and wildlife impacts occurring the construction phase of the Project. Construction of the Project will be undertaken in accordance with the most recent version of this WMP.

All Project personnel are responsible for the implementation of this WMP and have the responsibility to stop works to avoid a material safety or environmental incident from occurring.

Roles and responsibilities for environmental management of the Project are outlined in Table 3-2 of the CEMP.

2. Project Approval and Legal requirements

2.1. Project Approval

The Project will be constructed in accordance with the consent. Conditions of the consent which apply to wildlife management and where they have been addressed are identified in Table 2-1.

Table 2-1: DA conditions and where addressed in this WMP

DA Reference #	WMP Section
<i>TBC TBC</i>	<i>TBC</i>

2.2. Legal Requirements

The Project is to be constructed in accordance with applicable legislative instruments, permits, licences and guidelines as required. The instruments relevant to the management of wildlife across the Project are outlined in Table 2-2.

Table 2-2: Legislative and related instruments relevant to the Project

Instrument	Key Project Requirements	Activity/Aspect
<i>Environment Planning and Assessment Act 1979</i>	Establishes a system of environmental planning and assessment of proposed developments in NSW. The Project must comply with the requirements of the consent.	All
<i>Environment Protection and Biodiversity Conservation Act 1999 (Cwlth) (EPBC Act)</i>	Requirements in relation to protection and management of nationally and internationally important flora, fauna, ecological communities, and heritage places. Order conferring strategic biodiversity certification – Cumberland Plain Conservation Plan (CPCP) (22 July 2022) applies. No significant impact on Matters of National Environmental Significance (MNES)	Threatened species and ecological environments
<i>Biodiversity Conservation Act 2016 (BC Act)</i>	Comply with conservation requirements for any identified threatened species.	Threatened species and ecological environments
<i>State Environmental Planning Policy (Biodiversity and Conservation) 2021</i>	Development controls triggered under Part 13.5 due to project land being mapped as 'certified-urban capable land' under the CPCP.	Biodiversity and ecological environments
<i>State Environmental Planning Policy (Precincts-Western Parkland City) 2021</i>	Under cl 4.3 the Project site is not land to which the Western Sydney Aerotropolis Precinct Plan 2022 applies.	NA

Instrument	Key Project Requirements	Activity/Aspect
Mamre Road DCP	Comply with precinct-wide planning controls for industrial development relating to the protection of biodiversity and vegetation.	Biodiversity and ecological environments
CPCP	Project location mapped as certified-urban capable land suitable for development. Consistency with the CPCP removes the requirement for further biodiversity approvals under the <i>BC Act</i> .	Biodiversity and ecological environments

3. MANAGEMENT MEASURES

The wildlife management measures to be implemented during construction of the Project are detailed in Table 3-1. These management measures have been sourced and developed from the Flora and Fauna Assessment Report prepared by Eco Logical (2023) to mitigate and manage impacts of the Project on the environment, including MNES, and to enable compliance with the requirements of both the CPCP and Mamre Road DCP.

Table 3-1: Management measures

ID	Management Measure	Timing	Responsibility
WL 1	Pre-Clearance surveys of trees to be removed and identification/ location of active nests if present by a suitably qualified ecologist. Relocation, if required, of native animals from Project sites in accordance with the former Office of Environment and Heritage's <i>Policy on the Translocation of Threatened Fauna in NSW</i> .	Pre-Construction	Project Manager Ecologist
WL 2	If any native fauna are detected on site during construction, works in the immediate vicinity are to stop. Workers should not attempt to move fauna- wait for it to leave site.	At all times	Project Manager in consultation with Ecologist
WL 3	In the case of injured fauna, notify the Project Manager and call WIRES (1300 094 737).	At all times	Project Manager in consultation with Ecologist
WL 4	Work boundaries are to be clearly delineated with retained areas to be marked with "No Go" signage and fencing as appropriate.	At all times	Project Manager in consultation with Ecologist
WL 5	Site contractors and delivery vehicles are to enter the site slowly, particularly in periods of reduced visibility including heavy rain or fog.	At all times	Project Manager Contractors
WL 6	Accidental clearing or other impacts to vegetation in non-approved areas are to be reported to the Project Manager. Works in the area are to stop until further approval or instruction is received.	At all times	Project Manager in consultation with Ecologist
WL 7	Any unexpected, threatened flora species identified within the Project area before or during construction are to be reported to the Project Manager and Ecologist. Works in the area must stop until further instruction or approval is received.	At all times	Project Manager Ecologist
WL 8	Weekly site inspections to be undertaken to confirm controls are maintained throughout construction, with additional inspections following heavy rainfall events.	Construction	Project Manager
WL 9	Workers will complete an environmental induction as part of their site familiarisation. The induction will include measures relevant to wildlife management. Briefings will be updated based on the current phase of work.	Prior to works onsite	Project Manager

ID	Management Measure	Timing	Responsibility
WL 10	The procedures and mitigation measures outlined by the Dam Dewatering Plan (Eco Logical, 2023) will be implemented as appropriate during the removal of on-site dams. A suitably qualified ecologist will be present where relocation of fauna is required.	Construction	Project Manager Ecologist
WL 11	Vegetation on-site is to be reinstated following the completion of construction works in accordance with the Vegetation Management Plan (Eco Logical, 2023) and relevant Landscape Plan(s) (document reference details TBC).	Post-Construction	Project Manager Ecologist

4. MONITORING AND REVIEW

In addition to the management measures outlined in Table 3-1, ongoing environmental inspections, monitoring and reporting for the Project are discussed in Section 5 of the CEMP. The monitoring and review actions relevant to this WMP are provided below.

4.1. Environmental Inspections

Environmental inspections relevant to the implementation of this WMP are:

- Daily and weekly inspections conducted by the HSE Manager to monitor and verify implementation of management measures.

4.2. Environmental Monitoring

Environmental monitoring is summarised in Section 5.2 of the CEMP and will be undertaken to assist in the management of the following:

- construction of the Project in accordance with environmental approvals
- compliance with all relevant legislative requirements
- the minimisation of potential environmental incidents
- effectiveness of environmental controls
- implementation of this WMP.

4.3. Non-compliance and Actions

Section 5.4 of the CEMP details the Project team's response following the identification of a non-compliance with the consent, the CEMP and Sub-plans. This includes the reporting, investigation and notification of non-compliances within the scope of this WMP.

4.4. Environmental Incident and Emergency Response

Section 5.5 of the CEMP details environmental incidents and the response to environmental emergencies for the Project. This includes the reporting, notification and investigation of environmental incidents.

In the event of an environmental incident or emergency related to the implementation of this WMP, the processes detailed in the CEMP will be implemented.

4.5. Environmental Reporting

Environmental reporting requirements for the Project is documented in Section 5.6 of the CEMP. Reports relevant to this WMP are listed in Table 4-1.

Table 4-1: Summary of environmental reporting for the WMP

Report	Timing/ Frequency	Responsibility
Incident report	Within 30 days of the date on which the incident occurred	Project Manager
Non-compliance Report	As required, following identification of a non-compliance	Project Manager
Environmental inspection and	Ongoing to the Project Manager	HSE Manager

Report	Timing/ Frequency	Responsibility
progress reports		
Internal health, safety, security and environment audit report	Annually	HSE Manager

4.6.WMP Review and Revision Process

This WMP will be reviewed in accordance with Section 5.7 of the CEMP.

The Project will review the adequacy of the environmental management measures within this WMP as well as the effectiveness of their implementation to determine whether they are still applicable to the activities being carried out on site. This review will be undertaken by the HSE Manager in consultation with the Project Manager.

All employees and contractors will be informed of any revisions to the WMP during toolbox talks.

Appendix I Vegetation Management Plan

Provided as Appendix O of the SEE

Appendix J Waste and Resource Recovery Management Plan

Provided as Appendix DD of the SEE

Appendix K Unexpected Finds Protocol

Provided as Appendix Z of the SEE