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Construction Air Quality Management Plan December 2024

CONSTRUCTION AIR QUALITY MANAGEMENT PLAN

Moorebank Precinct East Stage 2 -SSD 7628



Moorebank Intermodal Precinct – Precinct East Stage 2

SSD 7628

Construction Air Quality Management Plan

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		• RfMA 007 – Update to compliance and non-compliance definitions and inclusion of cumulative impacts required by EPBC CoA (2011/6029)	
	25/10/2019	RfMA 008 – MAUW Construction Compound	
010		RfMA 012 – Additional temporary construction access points	
		RfMA 014 – Suitable spoil importation	
		RfMA 015 – Moorebank Precinct EPL	
		 RfMA 019 – Clarification of definitions for Early Works and Construction Phase A activities 	
		RfMA 021 – New parking area	
		 RfMA 024 – MPW EPBC (2011/6086) and MPE EPBC (2011/9229) approval 	



	Precinct	
Revision	Date	Description
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018	03/12/2024	 Updates associated with: SSD 7628 MOD5 RfMA-042 - Figure 1-2 of Moorebank Precinct East (LOGOS compound) RFMA-044 - Figure 1-2 of Moorebank Precinct East (MAUW compound) RfMA-045 - Figure 1-2 of Moorebank Precinct East (Temporary Storage Compound)

Moorebank Intermodal Precinct			Construction Air Qua	ality Management Plan December 2024
Revision	Date	Description	Prepared by	Approved by
		Administrative updates to reflect development status		

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Acronyms and Definitions

Acronym / Term	Meaning
AAQ NEPM National Environment Protection (Ambient Air Quality) Measure	
AQIA	Air Quality Impact Assessment
BOM	Bureau of Meteorology
CAQMP	Construction Air Quality Management Plan
CEMP	Construction Environmental Management Plan
СО	Carbon Monoxide
СоА	Conditions of Approval
CoC	Conditions of Consent
DNSDC	Defence National Storage and Distribution Centre
DotEE	Department of the Environment and Energy
DP&E	Department of Planning and Environment
the Development	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.
EIS	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
ER	Environmental Representative
ESR	the Developer
EWAQMP	Early Works Air Quality Management Plan
EWEMP	Early Works Environmental Management Plan
EWMS	Environmental Work Method Statements
FCMMs	Final Compilation of Mitigation Measures
ICAM	Incident Cause Analysis Method
MAUW	Moorebank Avenue Upgrade Works
MPE	Moorebank Precinct East



Acronym / Term	onym / Term Meaning	
NO2	Nitrogen dioxide	
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 aspect specific sub-plan		
0-3	Ozone	
OEH	Office of Environment and Heritage	
OSD	On-site detention	
PAC	Planning Assessment Commission	
PM	Particulate matter	
PM ₁₀	Particulate matter with aerodynamic diameter of 10 microns or less	
PM _{2.5}	Particulate matter with aerodynamic diameter of 2.5 microns or less	
RSoC	Revised Statement of Commitments	
RtS	Response to Submissions	
SIMTA	Sydney Intermodal Terminal Alliance	
SSD	State significant development	
SSFL	Southern Sydney Freight Line	
TSP	Total suspended particulate matter	



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1. Background

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

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).

This Construction Air Quality Management Plan (CAQMP) has been developed to manage impacts to air quality during the construction of Stage 2 of the Moorebank Precinct East (MPE) Development (hereafter, 'the Development').

This CAQMP 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 specified to the management of air quality during construction of the Development.

1.3. Background and Scope

The MPE Site, including the Development site, is located approximately 27 kilometres 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 (DNSDC) 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 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.

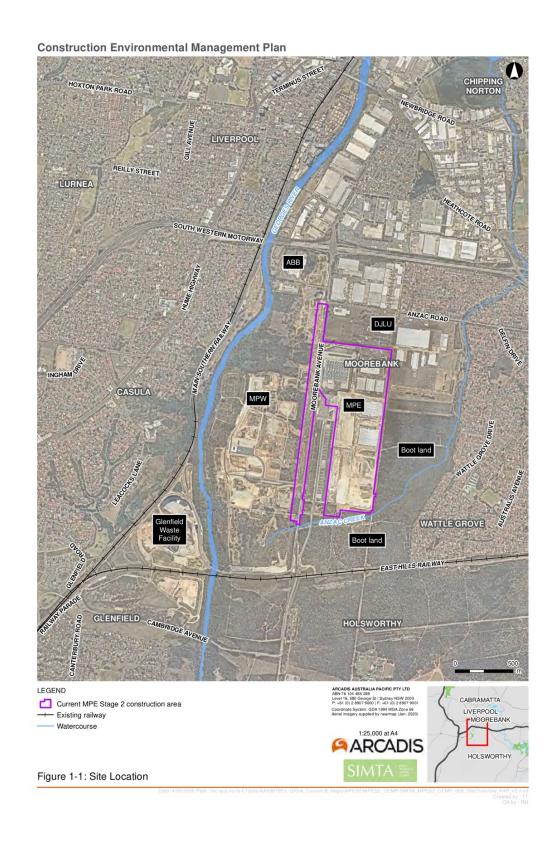
The location of the Development site is shown in Figure 1-1.

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.



Figure 1-1 Site Location



1.4. Development Consent

The Development was assessed by the Department of Planning and Environment (DP&E) under Part 4, Division 4.1 of the EP&A Act as State significant development (SSD). The Planning Assessment Commission (PAC) granted consent for the MPE Stage 2 Development on 31 January 2018 and is subject to the Minister's CoCs (SSD 7628). 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)
- MPE Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Approval (No. 2011/6229) granted in March 2014
- MPW Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Approval (No. 2011/6086) granted in September 2016 (for Moorebank Avenue Upgrade Works only)

1.5. Construction Works Phase

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

1.5.1. Summary of Development Delivery Phases

The terminology for the Development phases was developed from the preparation of 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. Current terminology and the equivalent terminology from the CoCs and RtS are included in Table 1-1.

Development Delivery Phase	CoC A18 Phase Equivalent	MPE Stage 2 RtS Works Period Equivalent
Early Works	Early Works Fill importation (to 60,000m ³)	Works Period A: Pre-construction 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 Works Period G: Miscellaneous construction works

Table 1-1 Development Delivery Phase Terminology



Construction Phase Fill importation B Construction Works Period C: Construction of Moorebank Avenue Diversion Road

Works Period D: Pavement and intersection works along Moorebank Avenue

Works Period E: Bulk Earthworks, drainage and utilities

Additional detail of the Development delivery phases is included in the Construction Environmental Management Plan (CEMP).

1.6. Construction Compound

Temporary construction compounds will be required to support all construction phases of the Development.

Three construction compounds are required:

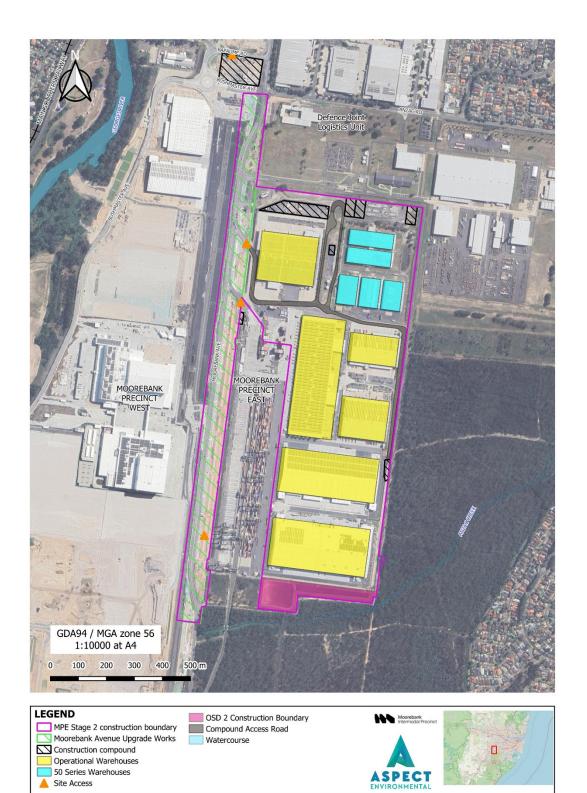
- Warehousing Compound
- Liberty Compound
- Moorebank Avenue Compound.

The location of these compounds is shown in Figure 1-2Figure 1-2.

Moorebank Intermodal Precinct

Figure 1-2 Construction Compounds

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ASPECT



1.7. Purpose and Application

This CAQMP has been developed to address the Minister's CoCs and Final Compilation of Mitigation Measures (FCMMs), and is based upon the MPE Stage 2 Air Quality Impact Assessment (Appendix M of the MPE Stage 2 EIS). This plan details how air quality impacts are to be managed during construction of the Development.

This plan provides methods to measure and reduce the impact to quality by the contractor during the construction activities, including all contractor and consultant partners.

The specific requirements of the CoCs for compilation of the CAQMP, as identified in the CoCs and FCMMs are identified in the Compliance Matrices in Appendix A.

The most recent, approved version of this plan is to be implemented to manage the Development activities.

1.8. Staged Submission of this Plan

Subject to the approval of the Secretary (CoC A14), the Development elected to stage the submission of a number of strategies, plans and programs that were required by the CoCs based on the Delivery Works Phases identified in Table 1-2.

In accordance with CoC A15, Table 1-2 identifies the stage of the Development to which this document applies, and the relationship between any future stage. The trigger for updating the document is also identified in Table 1-2. When a document is updated, the most recent version of the document supersedes the previous version(s).

Delivery Works Phases	General Description of Works	Current Document	Trigger to Update Document
Early Works			
Early Works	Utilities adjustments and relocations, clearing and stripping of topsoil, heritage salvage, fill importation, establishment of site access, temporary fencing and compound establishment, and other activities determined by the ER to have minimal environmental impact	Document prepared to address Early Works only	This document has been updated for this CTAMP
Construction			
Construction Phase A	Early Works activities, bulk earth works, drainage and utilities, construction and internal	Document prepared to address Construction Works Phase A only (does not address	Prior to the commencement of construction

Table 1-2 Staged Documentation and Triggers to satisfy CoC A15



Delivery Works Phases	General Description of Works	Current Document	Trigger to Update Document
	fit-out of warehousing and finishing works	Moorebank Avenue upgrade works)	
Construction Phase B	Construction Phase A activities, construction of the Moorebank Avenue Diversion Road, bulk earthworks, drainage and utilities and pavement works	Document prepared to address all construction works (Phase A + Phase B)	Prior to the commencement of Moorebank Avenue upgrade works



2. Environmental Framework

2.1. Legal and Other Requirements

Table 2-1 details the legislation, planning instruments and guidelines considered during development of this plan.

Table 2-1 Legislation,	Planning	Instrument and	Guidelines
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Legislation	Description	Relevance to this CAQMP
Environmental Planning and Assessment Act 1979	Establishes a system of environmental planning and assessment of development proposals for the State	The CoCs and associated obligations are incorporated into this plan
Protection of the Environment Operations Act 1997	Aims to achieve the protection, restoration and enhancement of the quality of the NSW environment	All plant would be operated in a proper and efficient manner such that risk of air pollution is reduced. Reduce the risk of offensive odour emitted during construction
Protection of the Environment Operations (Clean Air) Regulation 2010	Includes provisions to regulate emissions to air in NSW including standards for air impurities emitted from activities and plant	Relevant requirements of the Regulation have been incorporated into this plan
Australian / New Zealand Standard AS/NZS 3580.1.1:2007 (Methods for Sampling and Analysis of Ambient Air, Part 1.1 Guide to Siting Air Monitoring Equipment)	Provides guidance for siting of air monitoring equipment	Used to inform the locations for proposed monitoring sites outlined in Section 4
Australian / New Zealand Standard AS/NZS 3580.10.1:2016 (Methods for Sampling and Analysis of Ambient Air, Method 10.1 Determination of Particulate Matter – Deposited Matter – Gravimetric Method)	Describes the monitoring and analysis requirements for measuring nuisance dust	Guides the monitoring requirements outlined in Section 4
Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales ("Approved Methods") (NSW Environment Protection Authority (EPA), 2005)	Lists the statutory measures for modelling and assessing air pollution form stationary sources in NSW	Outlines the impact assessment criteria used to assess compliance for this CAQMP
NSW Coal Mining Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining (OEH, 2011)	Provides a review of international best practice management measures to prevent and minimise air quality impacts from Coal Mining	Provides air quality management measures that have been incorporated into this plan



Additional guidelines and standards used in the preparation of this include:

- Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004).
- 2.1.1. Development Consent Compliance Matrices

Development consent compliance matrices are included in Appendix A.

2.2. Roles and Responsibilities

Key roles and responsibilities associated with this air quality management plan are presented in Table 2-2.

Table 2-2 Roles and Responsibilities

Roles	Responsibilities
	 Provision of training in air quality and dust control for personnel directly involved with implementation
	Communicate responsibilities and authorities
	 Attend audit meetings and action results of any audit findings
	Allocate resources to handle environmental issues
	Oversee the implementation and maintenance of the CAQMP
	 Appoint / nominate and provide support for the Contractor's EM
	 Report to senior management and the Principal's Representative on the performance of the system and environmental breaches
	Undergo induction and training in environmental awareness
Contractor's Works package	 Take action to resolve environmental non-conformances and incidents
Manager	 Sign off on all environment and sustainability inspections
(Contractor's WM)	 Enforce environmental requirements for suppliers and sub- contractors
	Report environmental incidents to the Principal's Representative
	 Authorise expenditure to implement environmental management requirements within limits of authority as defined in the Principal's Representatives requirements
	Undertake ICAM investigations
	 Review audit corrective actions and act as necessary for the timely close out of issues
	Be contactable 24 hours a day
	 Direct works to be performed in a more environmental responsible manner that reduces impacts or stop works if there is a risk of environmental harm.



Roles	Responsibilities
	 Communicating with all personnel and sub-contractors regarding compliance with the CEMP and site-specific environmental issues / Environmental Work Method Statement (EWMS)
	 Undergo induction and training in environmental awareness as directed by management
	 Identifying resources required for implementation of the CEMP
	Organise and manage site plant, labour and temporary materials
Contractor's Construction Manager	 Coordinating the implementation and maintenance of site environmental controls and provide support for the Contractor's EM
(Contractor's CM)	 Report all environmental incidents in accordance with the incident reporting protocol
	Undertake ICAM investigations
	 Take action to resolve non-conformances and incidents
	Be contactable 24 hours a day
	 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
	Oversee the overall implementation of this CAQMP
	 Consider and advise senior management on compliance obligations, including demonstrating and reporting achievement of KPIs
	 Evaluate the outcomes of the visual checks/ compliance construction monitoring/ incident reporting as part of ongoing management of construction activities
	 Confirm that visual monitoring and real time boundary monitoring is being undertaken in accordance with Section 4.1
	Inspect and confirm all dust mitigation measures are implemented
Contractor's Environmental Manager (Contractor's EM)	 Where dust mitigation measures are deemed insufficient, undertake reasonable steps to manage adverse impacts
	 Based on the set trigger thresholds (as per Section 4.1.1), authorise cessation of construction activities on-site
	 Maintain construction site records/ monitoring records/ incident reports
	 Assist with audits of construction site records/ monitoring records/ incident reports. As required, findings are shared with relevant site personnel and corrective actions are implemented
	 To assist relevant personnel to understand the relevant requirements, provide them with the most up-to-date copy of this CNVMP



Roles	Responsibilities
	 Inspect site to confirm that all requirements of this CAQMP are effectively implemented
	• Actions arising from incident investigation processes during compliance construction monitoring are reported to the relevant personnel for further action and ensure that the actions are effectively implemented
	 Coordinate the implementation of monitoring requirements and corrective actions
	• Engage experienced, trained and or qualified personnel to conduct the air quality monitoring and laboratory analysis
All Personnel	 Understand and implement mitigation measures as required in the CAQMP (as per Section 3) and any other required measures during construction
	 Undertake relevant training to implement the requirements of this CAQMP
	Undertake relevant training to implement the requirements of this CAQMP
	Undertake all monitoring activities in accordance with this CAQMP
Personnel undertaking Air Quality monitoring	Regularly maintain monitoring equipment
	 Implement all relevant monitoring quality control/ assurance procedures
	Review laboratory results and write monitoring reports

2.3. Training

Training is to be undertaken in accordance with Section 2.7 of the CEMP. The contractor is to provide all employees with suitable environmental induction / training (relevant to this CAQMP) to assist employees to understand their responsibilities to carry out the work.

Site-specific induction training is to include:

- The Environmental Policy and Environment Management System (EMS) requirements
- The requirements of this CAQMP, including environment incident reporting
- Environmental emergency contact details.

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.

Personnel directly involved in implementing dust control measures on site to be given specific training in the various control and mitigation measures to be implemented.





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



3. Implementation

3.1. Existing Environment

3.1.1. Meteorological Conditions

3.1.1.1. Prevailing Wind Conditions

Figure 3-1 shows the seasonal wind rose of recorded wind speed and direction data from the Office of Environment and Heritage (OEH) Liverpool monitoring station (for the years 2011 to 2015), demonstrating prevailing wind conditions in the area.

The recorded wind pattern is dominated by southwest to westerly airflow during autumn and winter, switching to easterly flow during summer months. The highest wind speeds are most frequently experienced from the southwest direction.

Average recorded wind speeds are low (approximately 2m/s in all seasons), with the frequency of calm conditions (wind speeds less than 0.5m/s) ranging from 8.5 to 12 % of the time.

The prevailing wind directions shown in Figure 3-1 has been considered for monitoring site selection.

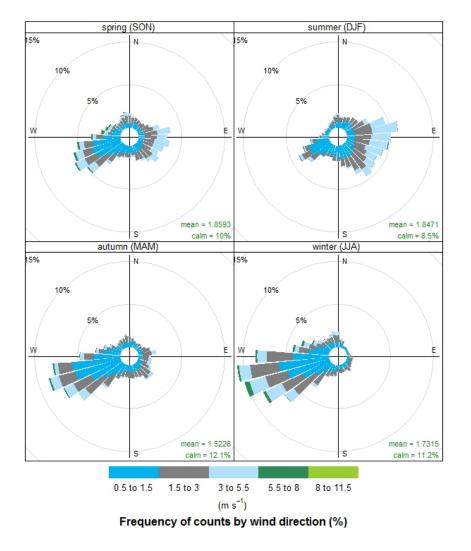


Figure 3-1 Seasonal Wind Rose - Liverpool 2011-2015

Moorebank Intermodal Precinct

3.1.1.2. Ambient Temperature

Monthly mean temperatures range between 5°C to 18°C, with monthly mean maximum temperatures of 17°C to 28°C. The highest temperatures are typically experienced during the summer months, while the lowest are generally experienced between May and September.

Additional mitigation measures are more likely to be required during warmer periods when moisture deficits are more common.

3.1.1.3. Rainfall

Precipitation has the potential to impact on dust generation and removal of atmospheric pollutants and is therefore an important factor in quantifying predicted air emissions. Historical data recorded at Bankstown Airport since 1968 indicates the region is characterised by moderate rainfall, with a mean annual rainfall of 870mm, and an annual rainfall range between 493 and 1398mm. There is typically a significant variation in monthly rainfall within the area, with the wettest periods usually during the summer and autumn months.

There is typically a significant variation in monthly rainfall within the area, with the wettest periods usually during the summer and autumn months. During drier conditions, additional mitigation measures may be required, for example by increasing water application rates or hiring additional water carts.

3.1.2. Existing Ambient Air Quality

Air quality data from the OEH Liverpool monitoring station was analysed over a five-year period. Baseline air quality for particles (PM_{10} and $PM_{2.5}$) can be described as fair to poor, while baseline air quality for NO₂, SO₂ and CO can be described as very good.

In summary:

- Annual mean PM₁₀ concentrations range from 18 µg/m³ to 21 µg/m³ and on average over the past 5 years baseline concentrations are 77% of the National Environment Protection (Ambient Air Quality) Measure (AAQ NEMP) standard
- Annual mean PM2.5 concentrations range from 6 μg/m³ to 9 μg/m³ and on average over the past 5 years baseline concentrations are 103% of the impact assessment criterion
- Exceedances of the 24-hour average impact assessment criteria for both PM₁₀ and PM_{2.5} occurred in three of the past five years and are typically associated with bushfires, backburning and/or dust storms
- There have been no exceedances over the past five years for NO₂, SO₂ and CO and in general the background air quality for these pollutants is considered good to very good.

Background air quality concentrations for the Development site and surrounds for key pollutants is summarised in Table 3-1.

 Table 3-1 Adopted Background Air Quality Concentrations for the Development Site

Pollutant	Averaging Period	Adopted Background Value
PM ₁₀	24-hour average	Daily varying



Pollutant	Averaging Period	Adopted Background Value
	Annual average	19.4 µg/m ³
PM _{2.5}	24-hour average	Daily varying
F IVI2.5	Annual average	8.2 μg/m³
NO ₂	1-hour average	Hourly varying
	Annual average	20.4 µg/m ³
CO	1-hour average	5.0 mg/m ³
	8-hour average	30 mg/m ³
	1-hour average	74.4 µg/m³
SO ₂	24-hour average	13.6 µg/m³
	Annual average	2.6 μg/m ³
TSP	Annual average	48.4 µg/m³
Dust deposition	Annual average	1/gm ² /month

3.2. Aspects, Impacts and Risks

The principal pollutant of concern during Construction would be fugitive dust / particulate matter (PM). The highest potential risk would occur during Construction Phase A (from site preparation and bulk earthworks) and to a lesser extent Construction Phase B (additional bulk earthworks associated with Moorebank Avenue upgrade). Cumulative air quality impacts relating to construction are discussed in Section 3.3.

Potential emission sources for a representative worst case Construction scenario were identified and quantified in the MPE Stage 2 Air Quality Impact Assessment (AQIA) provided in the EIS and are shown in Table 3-2, expressed in terms of TSP, PM₁₀ and PM_{2.5}. Detailed assumptions underlying the emission inventory are listed in the MPE Stage 2 AQIA, however the estimates from bulk earthworks are based on importation, handling and stockpiling of 600,000 m³ of material. An additional 250,000 m³ of suitable spoil will be imported to site separate to the 600,000m³ permitted by CoC A6. An extract from the MPE Stage 2 AQIA is presented in Appendix A to demonstrate compliance with EPBC 2011/6229 Condition 7b).

Table 3-2 presents uncontrolled emissions with controlled emissions, which are estimated based on control efficiencies reported in the literature. To account for the operation of a water cart on travel routes, a control efficiency of 75% is applied for controlled emissions from wheel generated dust. For topsoil striping and material handling, a control efficiency of 50% is applied for controlled emissions, based on the assumption that, where practical, surfaces/material would be dampened using water sprays, prior to handling.



These controls are in accordance with the FCMMs and would result in an overall reduction in emissions of approximately 67% for TSP, 58% for PM₁₀ and approximately 48% for PM_{2.5}. The overall reduction is lower for PM_{2.5} because of the relatively higher contribution of diesel emissions for PM_{2.5}, which are not controlled.

Other dust control measures are proposed, including for wind erosion (as outlined in Section 3.3), however they are not explicitly applied as a reduction factor for the emissions comparison in Table 3-2.

Following controls, the top three emissions sources for each size fraction are hauling (wheel generated dust), dozers (stripping, clearing, handling fill) and wind erosion. Dust management and mitigation measures therefore focus on these main dust sources. The Construction Air Quality Monitoring Program details the measures that will monitor and validate the potential air quality impacts predicted during the construction of the Development (refer to Section 4.1, Section 4.1.3 and Table 18).

Source/Activity	Uncontrolled emissions (kg)			Controlled Emissions (kg)		
	TSP	PM ₁₀	PM2.5	TSP	PM10	PM2.5
Hauling on unsealed roads	149,644	48,064	3,845	22,447	7,210	577
Trucks unloading fill	456	216	32.7	456	216	32.7
Material handling (excavators, front-end loader, stockpiles)	456	863	32.7	456	863	32.7
Dozers (vegetation stripping, topsoil clearing, fill)	20,966	4,421	2,201	10,483	2,211	1,101
Crushing	1,069	475	88	238	107	19.8
Screening	4,950	1,703	115	436	147	9.9
Graders on road construction	9,926	3,468	308	4,963	1,734	154
Wind erosion	29,750	14,875	2,231	29,750	14,875	2,231
Diesel combustion (onsite equipment)	733	733	692	733	733	692
On-road trucks diesel combustion	36	36	35	36	36	35
Total	217,988	74,855	9,582	69,998	28,131	4,885

Table 3-2 Emission Estimates for Construction

3.3. Cumulative Impacts

Assessment of cumulative air quality impacts was undertaken as part of the EIS preparation (refer to Section 19 of the EIS).

Moorebank Intermodal Precinct

The cumulative construction scenario for the Development included emissions generated from the Development's construction presented in Table 3-2, combined with the adopted ambient air quality concentrations presented in Table 3-3 and emissions generated from the construction of the MPE Stage 1 Development and adjacent MPW Stage 2 Development. Air quality goals established for the Development were measured against the cumulative construction scenario, the results of which are included in Table 3-3.

The modelling results indicate that dust, TSP, PM_{10} and $PM_{2.5}$ emissions at sensitive receivers around the Development comply with all relevant impact assessment criteria. The annual average background concentrations of $PM_{2.5}$ already exceeds the AAQ NEPM reporting standard, meaning that cumulative predictions are also above the standard at all receivers. It is noted, however that the incremental increases in $PM_{2.5}$ emissions created from the Development and MPE Stage 1 and MPW Stage 2 would result in relatively minor increases to the annual average when compared to background concentration levels.

Pollutant	Period	Air Quality goal criteria	Adopted Background Value
$DM_{12}(ug/m^3)$	24-hour maximum	50 μg/m³	49.6 μg/m³
PM ₁₀ (µg/m³)	Annual average	30 µg/m³	21.0 μg/m³
PM _{2.5} (µg/m ³)	24-hour maximum	25 μg/m³	24.6 μg/m³
	Annual average	8 µg/m³	8.8 μg/m ³
TSP (µg/m ³)	Annual average	90 µg/m³	50.6 μg/m³
Dust deposition	Annual average	4 g/m²/m	3.1 g/m²/m

Table 3-3 Summary of dust particulate matter modelling predictions at most affected sensitive receivers for the cumulative construction scenario

Management measures outlined in Section 3.4 will be implemented prior during construction to avoid and minimise dust and odour impacts surrounding sensitive receivers. Appropriate implementation of these controls would reduce the risk of dust and odour impacts during construction of the Development.

3.4. Management Measures

In accordance with CoC B54, best practice reactive and proactive management measures must be implemented to minimise dust generated during Construction. Proactive dust management measures are listed in Table 3-4, based on the FCMMs, provided as part of the RtS, and the Minister's CoCs, as well as the requirements and standards of SIMTA, the Contractor and best practice.

Each control measure is assigned a key performance indicator (KPI) and monitoring requirement, as required under CoC B57. Further details on the monitoring requirements are provided in Section 4 including response procedures, corrective action and additional reactive controls in response to a non-compliance or complaint.

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Table 3-4 Proactive Management Measures and Key Performance Indicators for validating environmental performance

Emissions Source	ID	Management Measures	KPI/Target	Monitoring	
	AQ1	The Construction Contractor will deploy water carts during construction to moisten topsoils/subsoil	No visible dust generated	Visual monitoring of dust leaving the Development site during stripping	
Topsoil stripping and	AQ2	Working practices will be modified by limiting clearing, stripping and spoil handling during periods of adverse weather (hot, dry and windy conditions) and when dust is seen leaving the site			
handling	AQ3	Progressive rolling and sealing of stripped areas	_		
	AQ4	Clearing of vegetation and topsoil will be limited to the designated footprint required for Construction	No works outside _Construction	Visual checks	
AC	AQ5	Land stabilisation works will be carried out progressively and as soon as possible	footprint		
A	AQ6	Water carts will be used on all unsealed internal roadways and travel routes			
	AQ7	All vehicles on-site will be confined to a designated route with a speed limit of 20km/h enforced.	_		
		Graders will be limited to a speed of 8km/h.			
Hauling -	AQ8	Trips and trip distances will be controlled and reduced where possible, for example by coordinating delivery and removal of materials to avoid unnecessary trips	Zero community complaints and compliance with dust goals	Complaints line and monitoring detailed in Section 4.1	
	AQ9	Shaker grid and / or wheel cleaning will be used to minimise the potential for dirt tracking. A street sweeper will clean any dirt mud tracking.	_		
	AQ10	All trucks delivering fill or leaving the Development site with spoil material will have their load covered	_		
	AQ11	Each truck entry will be visually checked and documented to confirm	-		



Emissions Source	ID	Management Measures	KPI/Target	Monitoring
		that only approved materials that are consistent with the environmental approvals are allowed to enter the Development site		
	AQ12	Undertake haulage of imported fill in accordance with the Construction Traffic and Access Management Plan (CTAMP) and the Construction Spoil Management Plan (CSMP)	-	
	AQ13	Trucks must keep public roads clean and must not track dirt onto public roads (CSMP)	-	
	AQ14	Importation of fill must not exceed 13,000m ³ per day (CSMP)	-	
	AQ15	Working practices will be modified by limiting spoil handling during periods of adverse weather (hot, dry and windy conditions) and when dust is seen leaving the Development site		
	AQ16	Unloading of dusty material / loads will be minimised by reducing drop heights and using water sprays	-	
	AQ17	Exposed areas and material stockpiles will not exceed an area of 1 ha and will be watered regularly to prevent dust emissions	Zero community	
Fill handling and stockpiling	AQ18	Topsoil stockpiles which are not used for over 6 months will be treated with binder/ hydromulch / hydroseeding with infertile cover crop to prevent dust emissions	 complaints and compliance with dust goals 	Complaints line and monitoring detailed in Section 4.1
			No visible dust leaving the Development site	Visual Monitoring
	AQ19	Visually monitor stockpiles for moisture content to minimise dust generation (CSMP)		
	AQ20	Imported spoil will be suitably moist when delivered to the Development site (CSMP)		
	AQ21	Water carts will apply water to control dust emissions from graders and dozers pushing fill material as well as during fill handling and stockpiling activities	-	



Emissions Source	ID	Management Measures	KPI/Target	Monitoring
	AQ22	Water carts will apply water to grader and bulldozer routes and where vehicles travel on unpaved surfaces to minimise dust		
Wind erosion	AQ23	Vegetation and topsoil clearing will be limited to the minimum footprint required		
	AQ24	Wind erosion from stockpiles will be reduced by minimising the number of workfaces on stockpiles and by temporary stabilisation (compaction of surface, water sprays, seeding, veneering)	Zero community complaints and compliance with dust goals No visible dust leaving the Development site	Complaints line and monitoring detailed in Section 4.1 Visual monitoring
	AQ25	Shade cloth and screens will be installed along boundaries adjacent to sensitive receivers		
Demolition of existing structures	AQ26	Where possible, materials and structures will be dampened using water sprays prior to demolition		
	AQ27	Demolition activities will be modified where excessive levels of dust are observed to be generated during hot, dry and windy conditions	-Zero community complaints and compliance with dust goals No visible dust	Complaints line and monitoring detailed in Section 4.1
	AQ28	Special consideration, including boundary monitoring, will be given to the demolition of buildings containing asbestos in accordance with relevant guidelines and legislation	leaving the Development site	Visual monitoring
		Trucks and plant on-site will be operated and maintained in accordance with the following:		
Diesel exhaust	AQ29	Manufacturer's specification	Zero community complaints	
		 National Environmental Protection Measure (NEPM) (Diesel Vehicle Emissions) 		Complaints line Visible diesel smoke
		• Euro V emission standards		plume
		 US Environmental EPA Tier 3 emissions standards for non-road diesel engines 		
		• Exhaust standards of the NSW Protection of the Environment		



Emissions Source	ID	Management Measures	KPI/Target	Monitoring
		and Operations Act 1997 (POEO Act)		
	AQ30	Registered road vehicles with smoky exhausts (more than 10 seconds) will be excluded from the Development site	-	
	AQ31	Trucks and plant engines will be turned off during periods of inactivity	-	
	AQ32	See Section 4 of the Construction Demolition and Waste Management Plan (CDWMP)		
Odour Emissions	AQ33	Refuelling of plant and equipment will be sited as far from sensitive receivers as practical and limited to diesel to prevent odour impacts.	Zero community complaints	Complaints line Olfactory observations for potentially offensive odours
	AQ34	Temporary sewage collection (i.e. use of portaloos) will be sited to provide an adequate buffer to sensitive receivers (<200m from closest receivers) and would be operated to reduce the risk of offensive odour (cleaned and emptied on a regular basis). Sewage would be disposed at a suitable licensed disposal facility.		
	AQ35	Laying of asphalt pavement will be undertaken infrequently and over short durations. An adequate buffer to sensitive receivers (<200m from closest receivers) and will be operated to reduce the risk of offensive odour impacts		
	AQ36	Excavation works in potentially contaminated soils will not be conducted during windy conditions to minimise odorous emissions.	-	
Dust	AQ37	Daily visual monitoring will be undertaken, focusing on dust generation at sources, water cart activity/effectiveness and dust leaving the Development site	Zero community complaints and compliance with dust goals No visible dust	Complaints line Visual monitoring Monitoring detailed in
	AQ38	Dust deposition will be measured and reported on a monthly basis	leaving the Development site	Section 4.1



Emissions Source	ID	Management Measures	KPI/Target	Monitoring
	AQ39	Implement Action Response Level (ARL) of 50ug/m3 for PM10 (i.e. where the 1-hour average is 50ug/m3 or greater a trigger alert occurs and a proactive management response must be initiated)	Zero community complaints and compliance with dust goals	Monitoring detailed in Section 4.1
		During helicopter assisted installation works the following would be undertaken:		
		 Where possible, use sealed hardstand for landing pad and staging area 	Zero community	
	AQ40	 If not permanent seal on landing pad then water down the loading/lifting zone prior to take off of the helicopter 	complaints and compliance with dust goals No visible dust leaving the	Complaints line Visual monitoring Monitoring detailed in Section 4.1
	 Continuous visual monitoring of the loading/lifting zone and surrounding area throughout the day 	Development site		
		 Regular watering of the loading/lifting zone as required 		

3.4.1. Additional Reactive Management Measures

In accordance with CoC B54, reactive measures are proposed to minimise environmental impact in the event of an incident occurring by instigating an appropriate operational response. Reactive measures instigated in response to a visual inspection or triggered by a non-compliance and/or community complaint are outlined in Table 3-5.

Trigger	Measure		
Visible dust from haulage	Relocate water cart to control dust or increase watering intensity rate		
Excessive dust generation from stockpiles or exposed areas	Apply water to dampen surface or stabilise surface.		
High winds	If dust seen leaving the Development site, relocate or cease dust generating activity.		
	Implement corrective/preventative actions and record actions taken. Notification to External Authorities where incident, environmental harm or community impact has occurred as required by Conditions of Consent.		

Table 3-5 Triggers for Reactive Management Measures



Trigger	Measure	
Excessive/prolonged generation of exhaust fumes	Equipment is to be maintained to manufacturer's specifications, avoid exposure to sensitive receivers by relocating or turning off engines when not required.	
	Where equipment does not operate to manufactures specifications, equipment is to be put out of service or tagged-out and not used until repaired	
Air quality complaints received from the public or non- compliance with goals	Investigation into activities occurring at the time with reference to meteorological conditions and dust levels measured by monitoring equipment. Where the investigation can identify the activity, which results in the complaints, modified or additional mitigation measures will be developed or campaign monitoring instigated.	



4. Monitoring and Review

4.1. Construction Air Quality Monitoring Program

In accordance with CoC B57, a construction air quality monitoring program must be undertaken during construction. As required by CoC B55, deposited dust must not exceed an increase of 2g/m²/month or maximum of 4g/m²/month at the closest off-site sensitive receiver. The Construction Air Quality Monitoring Program will focus on dust deposition monitoring (refer to Section 4.1.2). In addition, daily visual inspections are proposed to confirm dust management measures are effective (refer to Section 4.1.1).

4.1.1. Visual Monitoring

Visual monitoring under this plan is to be undertaken by the Contractor's EM or Site Supervisor during daily inspections of construction activities to monitor compliance with the requirements of the CoCs and this plan. Daily inspections are to focus on the following key issues:

- Inspect and report on excessive dust being generated at source (helicopter generated dust, wheel generated dust, scrapers/graders/dozers, excavators, wind erosion)
- Inspect and report on water cart activity and effectiveness
- Inspect and report on dust leaving the Development site
- Non-conformance (dust leaving the Development site) would be reported immediately to the Contractor's CM or management.

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 items to be rectified in the nominated timeframes.

Daily inspections and maintenance of controls are to be made by the Contractor's EM or Site Supervisors and maintenance will be recorded in site diaries during active site works.

4.1.2. Boundary Monitoring

The amenity impacts from nuisance dust generated during construction is to be assessed at eight locations around the Development site using six dust deposition gauges and two DustTrack real-time boundary monitors installed and operated in accordance with Australian Standard AS/NZS 3580.10.1:2016 "Methods for sampling and analysis of ambient air - Determination of particulate matter - Deposited matter - Gravimetric method".

The siting and locations for the monitors are to be undertaken in accordance with AS/NZS 3580.1.1:2016 "Methods for sampling and analysis of ambient air – Guide to siting air monitoring equipment". The main siting requirements to consider for this monitoring program are:

- Provision of a clear sky angle of 120 degrees for the monitoring inlet.
- Separation distance of greater than 10m to the nearest tree.
- Separation distance of greater than 1m from any all (supporting structure).

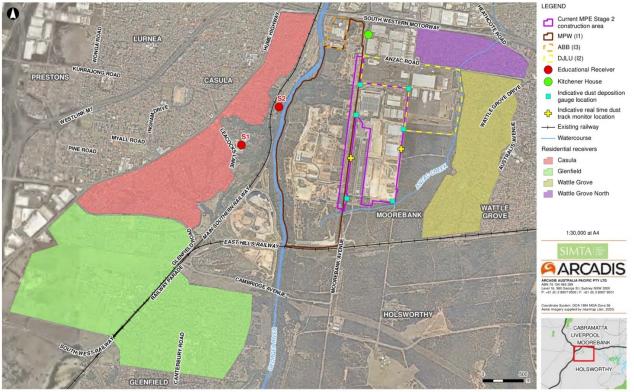


Dust deposition is to be measured and reported on a monthly basis. Exposed gauges will be replaced on a monthly basis with analysis conducted at a NATA accredited laboratory for insoluble solids. Real-time monitors provide continuous air quality data.

The proposed monitoring sites are shown in Figure 4-1. Monitoring locations are selected by taking into account the location of construction activity (earthworks, demolition and haulage) and the prevailing wind directions, which are typically from the west-south-west or east-south-east. The monitoring locations are positioned at or close to the Development site boundary, so that dust levels can be evaluated beyond the Development site boundary. Also, for certain monitoring periods, some monitoring locations will be downwind of the Development site and can be used to provide an indication of background to inform the compliance evaluation.



Figure 4-1 Air Quality Monitoring Sites



Construction Air Quality Management Plan

Figure 4-1: Air Quality Monitoring Sites

Created by : OA by : Compliance will be assessed against the goals outlined in CoC B55, which are consistent with the NSW EPA's impact assessment criteria listed in the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales.

The nuisance-based goals for dust deposition outlined in Table 4-1 are prescribed as a maximum increase or a maximum total dust deposition rate, expressed as insoluble solids. Compliance assessment for the Development will be based on the maximum total dust deposition level (4 g/m²/month), as there are no baseline data available prior to Construction, to evaluate the increase in dust deposition from the Development. However, at certain times, some monitoring locations will be downwind of the Development site and other monitoring locations will be upwind of the Development site, which may enable compliance assessment against the criteria for maximum increase in dust deposition. Table 4-1 outlines the response mechanism (investigation) that would be implemented if exceedances to the dust deposition criteria are identified.

Table 4-1 Dust Deposition Goals

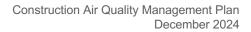
Pollutant	Maximum Increase in Dust Deposition	Maximum Total Dust Deposition Level
Deposited dust (assessed as insoluble solids)	2g/m ² /month	4g/m ² /month

4.1.3. Summary of Construction Air Quality Monitoring Program

Table 4-2 below outlines the details of the Construction Air Quality Monitoring Program.

Table 4-2 Construction Air (Quality Monitoring Program
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Location References	Refer to Figure 4-1		
Types and numbers of Monitors	Dust deposition gauges (Six)		
	Real-time DustTrack Monitors (Two)		
Responsibility	Contractor's EM		
Frequency of Measurements	Monthly (dust deposition)		
	Continuous (DustTrack)		
Criteria	Dust deposition goals (e.g. CoC B55 states deposited dust must not exceed an increase of 2g/m ² /month or maximum of 4g/m ² /month at the closest off site sensitive receiver)		
Action Response Levels	50ug/m ³ for PM ₁₀ (i.e. where the 1-hour average is 50ug/m ³ or greater a trigger alert occurs and a proactive management response must be initiated)		
Guidelines / Legislative Requirements	Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales		





Monitoring of Effectiveness of Controls	Monthly monitoring		
	Visual inspections of dust deposition will be undertaken on a daily and weekly basis		
	Continuous Air Quality monitoring		
Reporting of Monitoring	Monthly reports will be issued to the Principal's Representative		

4.2. Environmental Auditing and Reporting

Environmental auditing and reporting of the Development during construction is to be undertaken in accordance with Section 4.3 and Section 4.6 of the CEMP.

In addition, air quality monitoring results will be included within the monthly environment and sustainability report prepared by the Contractor's PM and issued to the Principal's Representative.

4.3. Review and Improvement

Review and improvement of this plan is to be undertaken in accordance with the CoCs and Section 4.5 of the CEMP. Continuous improvement is to be achieved by the ongoing evaluation of environmental management performance (e.g. from dust deposition adjacent to sensitive receptors) and effectiveness of this plan against environmental policies, objectives and targets (e.g. dust deposition goals, Table 3-5).

The continuous improvement process is designed to identify areas of opportunity for improvement of environmental management and performance. This process includes:

- · Monitoring to detect any non-conformances and deficiencies
- · Make comparisons with objectives and targets
- Determining the cause or causes of non-conformances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any nonconformances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Revisions of this plan will be undertaken in accordance with Section 1.2.7 of the CEMP. Any revisions to this plan may result from:
- Review of the effectiveness of this plan
- Audits (either internal or by external parties)
- Changes to the environmental management system
- Changes to the procedures, scope of works and/or systems after an incident or potential incident
- Design changes



- Changes in the CoCs
- Identification of opportunities for improvement of deficiencies in the Development's system (e.g. through the course of site inspections)
- Following complaints.

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

This plan will be reviewed annually as a minimum but may be updated more regularly depending on process changes, or as a result of an environmental incident.

4.4. Complaint Handling

Complaints handling is to be undertaken in accordance with the CEMP and Construction Community Communication Strategy. A complaints register will be maintained and the following information will be recorded:

- Name of complainant
- Address of complainant
- Form of complaint
- Date and time of complaint
- The nature of the complaint (i.e. fugitive dust, smoky vehicle)
- Allocation of complaint to the relevant Construction Contractor
- · Details of the investigation into the complaint
- Actions taken to address complaint
- Results of action taken to address complaint
- Any follow up contact with complainant or further action undertaken.

4.5. Non-compliance, Non-conformances and Actions

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

Non-compliances, non-conformances and corrective and preventative actions are to be conducted in accordance with Section 4.4 of the CEMP.





APPENDIX A COMPLIANCE MATRICIES

Compliance Matrices

State Approvals

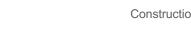
The Development is being delivered under Part 4, Division 4.1 (now Division 4.7 as of 1 March 2018) of the EP&A Act. The CoCs include requirements to be addressed in this plan and delivered during the Development. These requirements and how they are addressed along with division of responsibilities is provided within Table A-1.

Table A-1 Conditions of Consent (CoCs)

CoC	Requirement	Plan Section	How Addressed
	In addition to meeting the specific performance measures and criteria		Section 3.4 of this CAQMP identifies the management measures to be implemented to prevent and minimise environmental harm.
A1	established under this consent all reasonable measures must be implemented to prevent, and if prevention is not reasonable, minimise, any harm to the	Section 3.4 Section 4 Im the ne	Section 4 sets out the processes for monitoring and reviewing the effectiveness of these management measures.
	environment that may result from the construction and operation of the development, and any rehabilitation required under this consent		Opportunities to further minimise environmental harm will be identified through the ongoing evaluation of environmental management performance and effectiveness of this plan.
	The development may only be carried out:		The Compliance Matrices in this plan establish how the CoCs and the FCMMs have been addressed.
	(a) in compliance with the conditions of this consent;		
A2 A2 A2 A2 A2 A2 A2 A2 A2 A2 A2 A2 A2 A	(b) in accordance with all written directions of the Secretary in relation to this consent;		
	(c) in accordance with the EIS, Submissions Report and MPE Stage 2 (SSD-7628) – Consolidated assessment clarification responses and updated Biodiversity Assessment Report;	Compliance Matrices	
	(d) in accordance with all Modification Assessments (if any);		
	(e) in accordance with the amended development layout to be submitted for the Secretary's approval as part of this consent; and in accordance with the management and mitigation measures at APPENDIX B of this consent.		

Construction Air Quality Management Plan December 2024

CoC	Requirement	Plan Section	How Addressed
A15	If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program	Section 1.8	This CAQMP outlines the proposed staged delivery of this plan.
			All applicable licences, permits and approvals will be obtained as required.
			Approvals, permits and licences required for the Development are discussed in the CEMP in Section 2.5.2.
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.	2.5.2	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.
	All plant and equipment used at the site or to monitor the performance of the development must be:		Section 3.3 includes measures regarding the maintenance and the
A32	 (a) maintained in a proper and efficient condition; and 	Section 3.3	operation of trucks and plant to minimise emissions.
	(b) operated in a proper and efficient manner		
B54	Best practice reactive and proactive management measures must be implemented to minimise dust generated during all works authorised by this consent.	Section 3.3	Best practice reactive and proactive management measures are outlined in Section 3.3.
B55	Deposited dust must not exceed an increase of 2g/m ² /month or maximum of 4g/m ² /month at the closest off site sensitive receiver.	Section 4.1.2	Monitoring for dust deposition is proposed at six locations. Figure 4-1 indicates the location of proposed dust monitors.
B56	During construction:	Section 3.3	All construction management measures are outlined in Section 3.3



How Addressed

Plan Section

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Requirement

CoC

nstruction	Air	Quality	Management Plan
			December 2024

	(a) fill importation must not exceed 22,000m ³ per day;			
	(b) exposed areas and stockpiles must be watered regularly to minimise dust emissions;			
	(c) water carts must be used to control dust emissions from vehicles travelling on unpaved surfaces, and graders and dozers pushing fill material;			
	(d) grader and bulldozer travel routes and the fill material being handled must be suitably moist;			
	(e) water must be used as appropriate to maintain moisture in the fill material being bulldozed, such that dust emissions would be halved relative to not applying the water;			
	(f) water may be applied prior to fill being delivered to site, provided that the same effect is achieved as in (e) above;			
	(g) all trucks entering or leaving the site with loads must have their loads covered;			
	(h) trucks associated with the development must not track dirt onto public roads;			
	(i) public roads used by trucks associated with the development must be kept clean; and			
	(j) land stabilisation works must be carried out progressively on site to minimise exposed surfaces.			
	The Applicant must prepare a	a) Section 4.1	This CAQMP has been prepared to	
	Construction Air Quality Management Plan (AQMP) to the satisfaction of the Secretary. The AQMP must be prepared by a suitably qualified and	b) Section 3.2	address all the requirements of this condition.	
		c) Section 3.3 and 4.1	a) Section 4.1 includes the Construction Air Quality Monitoring Program.	
B57	experienced person(s). The Construction AQMP must form part of the CEMP required by condition C1. The AQMP must include:	d) Section 3.4.1 e)(i) Section 3.3 and Table 3-3	b) Section 3.2 identifies the sources of air quality emissions and Table 3-2 quantifies airborne pollutants.	
	(a) a Construction Air Quality Monitoring Program;	(ii) Section 4.1.1 and 4.1.2	c) Section 3.3 identifies best practice proactive mitigation measures that	
	(b) identification of sources (including	(iii) Section 4.1	would be implemented for each emission source.	
	stockpiles and open work areas) and quantify airborne pollutants;	(iv) Section 4.1 and Section 4.2	A combination of real time boundary monitoring and dust deposition gauge	



CoC	Requirement	Plan Section	How Addressed
	(c) best practice reactive and proactive control measures that will be implemented for each emission	(v) Section 4.4 (vi) Section 3.3 and Section 4	monitoring will be undertaken at the Development site, in addition to visual monitoring (Section 4.1).
	source including measures to prevent the emission of visible dust from the site as listed in condition B55;	(vii) Section 4	 d) Section 3.3 identifies additional mitigation measures that would be implemented in response to issues
	(d) provisions for the implementation of additional mitigation measures in response to issues identified during		identified during monitoring and reporting. e) (i) Table 15 identifies key
	monitoring and reporting; (e) for all emission sources at the		performance indicators.
	site:		(ii) Section 4.1.1 and 4.1.2 identifies visual monitoring, real-time boundary
	(i) key performance indicator(s);(ii) monitoring method(s);		monitoring and dust deposition monitoring as monitoring methods.
	(iii) location, frequency and duration of monitoring;		(iii) Section 4.1 indicates the location, frequency and duration of monitoring.
	(iv) record keeping;		(iv) Section 4.1 and 4.2 identify how record keeping will be undertaken.
	(v) complaints register;(vi) response procedures; and		(v) Section 4.4 provides details on the complaints register.
	(vii) compliance monitoring.		(vi) Section 3.3 and 4 provide response procedures that would be implemented if exceedances do occur.
			(vii) Section 4 provides details on compliance monitoring that would be undertaken.
			Monitoring for dust deposition is proposed at six locations. Figure 4-1 shows the location of these sites.
B58	Air quality monitoring must be undertaken during early works, fill importation and construction	Section 4.1 Figure 4-1	Air quality monitoring has been undertaken throughout Early Works and Fill importation with monitors installed at nominated locations as per the Early Works Air Quality Management Plan (EWAQMP) prior to the commencement of Early Works. Monitoring will continue to occur at locations stipulated within this plan throughout construction.
	The Applicant must ensure the development does not cause or	Section 2.1	Section 2.1 indicates that the development would not permit the emission of any offensive odour.
B60	permit the emission of any offensive odour (as defined in the POEO Act).	Section 3.3	Section 3.3, AQ32-36 also includes management measures to reduce the emission risk of offensive odours.
B61	Equipment must be installed and operated in accordance with best practice to ensure that the	Section 3.2	All plant and equipment will be installed and maintained in accordance with



CoC	Requirement	Plan Section	How Addressed
	development complies with all load limits, air quality criteria, air emission limits and air quality monitoring requirements as specified under this consent		manufacturer's specifications (where available).
B151	Boundary screening required under condition B150 must minimise visual, noise and air quality impacts on adjacent sensitive receivers.	Section 3.2	Shade cloth will be implemented along boundary fences adjacent to sensitive receivers
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; (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 (iii) the specific performance of, or guide the implementation of, the development or any management measures; (c) a description of the management measures to be implemented to comply with the relevant statutory requirements, limits or performance measures/criteria; (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); (e) a contingency plan to manage any unpredicted impacts and their consequences; (f) a program to investigate and implement ways to improve the environmental performance of the development over time;	a) Section 3.1 b)(i) Section 2 (ii) Section 1.8 c) Section 3.3 d) Section 4 e) Section 2.1 f) Section 4.3 g)(i) Section 4.3 (ii) Section 4.4 (iii) Section 4.5 h) Section 4.3	 (a) Section 3.1 – Existing Environment (b(i)) Relevant statutory requirements for management of impacts on air quality are listed in Section 2. (b(ii)) and (b(iii)) Section 1.8 and Table 18 outline the performance measures and criteria adopted for air quality during construction (c) Management measures are outlined in Section 3.3 and are to be implemented to comply with relevant statutory requirements, limits or performance measures/criteria. (d) A monitoring and report program is outlined in Section 4 for imported spoil management. (e) Section 3.2 outlines additional reactive measures to be implemented in the event of unpredicted impacts. (f) Programs to investigate and implement ways to improve the environmental performance of the development over time if required, will be conducted in accordance with Section 4.3. (g) The CEMP outlines a protocol for addressing any incidents, noncompliances and complaints. (h) Periodic review of the plan will occur and is outlined in Section 4.3 of this plan and in the CEMP.

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CoC	Requirement	Plan Section	How Addressed
	(g) a protocol for managing and reporting any:		
	(i) incidents and non-compliances;		
	(ii) complaints;		
	(iii) non-compliances with statutory requirements; and		
	(h) a protocol for periodic review of the plan.		
	Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for a particular management plan.		

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 compiled within this plan are provided in Table A-2.

Table A-2 Final Compilation of Mitigation Measures (FCMMs)

FCMM	Requirement	Document Reference
	The Construction Environmental Management Plan (CEMP), or equivalent, for the Amended Proposal would be based on the PCEMP (Appendix G of the EIS), and include the following preliminary management plans:	This Plan
	 Preliminary Construction Traffic Management Plan (PCTMP) (Appendix K of the EIS) 	
	 Air Quality Management Plan (AQMP) (Appendix M of the EIS) 	
	 Erosion and Sediment Control Plans (ESCPs) and Bulk Earthworks Plans (Appendix P of the EIS) 	
0B	As a minimum, the CEMP would include the following sub- plans:	
 Construction Traffic Mana Construction Noise and Vi (CNVMP), prepared in acc Construction Noise Guidet Construction Air Quality M Flora and Fauna Manager A Soil and Water Manager 	Construction Traffic Management Plan (CTMP)	
	 Construction Noise and Vibration Management Plan (CNVMP), prepared in accordance with the Interim Construction Noise Guideline 	
	Construction Air Quality Management Plan	
	Flora and Fauna Management Plan	
	 A Soil and Water Management Plan (SWMP) and Erosion and Sediment Control Plan 	
	Contamination Management Plan	
	 Flood Emergency Response and Evacuation Plan 	

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FCMM	Requirement	Document Reference
	UXO, EO, and EOW Management Plan	
	Asbestos Management Plan	
	 Heritage (Indigenous and Non-Indigenous) Management Plan/s 	
	Bushfire Management Strategy	
	Community Information and Awareness Strategy	
	The Air Quality Management Plan (Ramboll, 2016), included within Appendix M of the EIS, would be further progressed and incorporated into the CEMP for the Amended Proposal. Specifically, the following key aspects would be addressed in	
	the CEMP:	Section 2.2
3A	 Procedures for controlling/managing dust 	Section 3.3
	 Roles, responsibilities and reporting requirements 	Section 4.1
	Construction dust monitoring	
	 Contingency measures for dust control where standard measures are deemed ineffective 	
3C	During construction and operation, real-time boundary monitoring would be used to measure site emissions and alert site personnel when dust triggers are breached. This monitoring would determine if the best practice measures are effective and/or if additional reactive controls are needed on any particular day.	Real time boundary monitoring will be undertaken at the Development site, in addition to dust deposition gauge monitoring and visual monitoring (Section 4.1).

4.5.1.1. EPBC Approvals

The EPBC Act approval for the MPE Concept was granted by the Federal Minister for the Environment in March 2014 (EPBC. 2011/6229). This approval was provided for the impact of the MPE Development on listed threatened species and communities (Sections 18 and 18A of the EPBC Act) and Commonwealth land (Sections 26 and 27A of the EPBC Act).

The EPBC Act approval for the MPW Concept was granted by a delegate of the Federal Minister for the Environment in September 2016 (EPBC 2011/6086). This approval was provided for the impact of the MPW Development on listed threatened species and communities (Sections 18 and 18A of the EPBC Act) and Commonwealth land (Sections 26 and 27A of the EPBC Act).

The Moorebank Avenue upgrade works will be performed under the MPE Stage 2 Consent as described in Section 1.2 and 1.4 of the CEMP. Since the western side of the Moorebank Avenue upgrade works construction footprint is located in an existing area of hardstand within the MPW site, the works must comply with the MPW Commonwealth Approval.

The construction and operation of the Development has been designed to be consistent with the EPBC Act Approval conditions, where relevant. EPBC Act Approval conditions for the Development include specific conditions and commitments that are required to be addressed in this CEMP. These conditions are identified within Table A-3, along with where they have been addressed in preparing this plan.

Table A-3 Commonwealth Approvals

Condition Requirement	Condition	Requirement
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Document Reference

MPE EPBC Approval (2011/6229)

•	For the better protection of Commonwealth land, the persons taking the action must engage a suitably qualified expert(s) to prepare a Construction Environment Management Plan (CEMP), for the approval of the Minister. The CEMP must include in relation to construction of the proposed facility:	
•	(a) details on the timing of construction works(accompanied by current and detailed maps);	
•	(b) identification and quantification of all potential impacts associated with noise, vibration, air quality, traffic, light spill, hydrological changes, contamination and indigenous heritage (including cumulative impacts associated with the separately approved but related and adjacent intermodal terminal facility Development, EPBC approval 2011/6086) upon Commonwealth land. Consideration must be given to people and communities at SME, DNSDC, Defence housing, and the environment more generally in neighbouring bushland areas. Of note, the air quality assessment must quantify all emissions of PM2.5 and PM10 arising from Development-related sources identified in the EIS.	This plan a) Section 1.2 b) Section 3.1 (Table 3-2) c) N/A d) Section 3.3 and 4.1.2 e) N/A f) Section 1.8 & Section 4.1 (triggers and criteria are presented in Section 4.1.3 and
•	 (c) the results of further investigations with regard to land contamination and indigenous heritage impacts (specifically, PADs two and three). If adverse impacts are identified, details on how such matters will be managed / mitigated must also be provided. Evidence of ongoing consultation with RAPs regarding 	Table 18) g) Section 4.1 h) Section 4.3 i) N/A – School of Military Engineering has relocated from the site
•	further investigations for indigenous heritage objects/places must be provided.(d) refined details (including implementation timeframes)	j) Section 4.4
·	for the mitigation measures outlined in the EIS (sections 7.4.2, 7.4.3, 7.4.6, 7.4.7, 7.4.8 and 7.4.9) and summarised in Annexure A;	
•	(e) a commitment to ensure no lights are installed above the height of 40 metres or, the maximum approved height of the intermodal warehouse buildings (whichever is less);	
•	(f) Identification of the trigger values and criteria for all matters mentioned in condition 7(b) (excluding light spill,	

7



Condition Requirement

Document Reference

land contamination and indigenous heritage) and will be adopted for monitoring and managing potential impacts to Commonwealth land;

- (g) details of a comprehensive monitoring program (including locations, frequency and duration) for:
- i. Validating the anticipated impacts associated with condition 7(b)
- ii. Determining the effectiveness of proposed mitigation/management measures;
- (h) provisions to revise the approved CEMP in response to monitoring associated with condition 7(g) including, details of response / contingency mechanisms to address any exceedances of the relevant trigger values;
- (i) evidence of consultation with Defence regarding the adequacy of proposed mitigation measures in particular, those measures to mitigate potential light spill impacts upon residential dwellings within SME outside of standard construction hours; and
- (j) Details of a complaints handling procedure.

Commencement of the action may not occur until the CEMP has been approved. The CEMP must be implemented once approved.

MPW EPBC Approval (2011/6086)

Sections of the CEMP and OEMP relating to air quality must be prepared by a suitably qualified expert and must:

a) be consistent with the Air Quality Provisional Environmental Management Framework (2 July 2014), provided at Appendix 0 the finalised EIS

b) incorporate all measures 10A to 10U (CEMP only) and 1 OV to 10AH and 11 A to 11 H (OEMP only) from Table 7.1 of the finalised EIS that are described as 'mandatory'

c) explain how all measures 10A to 10U (CEMP only) and 10V to 10AH and 11A to 11 (OEMP only) from Table 7.1 of the finalised EIS that are described as 'subject to review' have been addressed

d) be approved by the Minister or a relevant New South Wales regulator.

a) This plan

b) Section 2.3, 3.3, 4.1.1 and 4.1.3

c) No measures described as 'subject to review'

d) This plan was approved by DP&E on 1 June 2018.

The Commonwealth Mitigation Measures which are relevant to this plan are detailed in Table A-4. There are no additional mitigation measures for MPW.

Table A-4 Commonwealth Mitigation Measures

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Issue

Requirement

Construction Air Quality Management Plan December 2024

Document Reference

issue	Requirement	Document Reference
	A Construction Environmental Management Plan will be prepared prior to construction. This document will include provisions covering air quality management and mitigation and will be implemented through good site environmental practice.	
	Dust management	
	 Increasing the moisture content of the soil/surface to reduce emissions from the site clearing, particularly during dry and windy conditions. 	
	 Modifying work practices during periods of adverse weathe conditions 	r
	 Limiting and staging clearing of designated footprint required for construction 	
	 Completing rehabilitation as quickly as possible 	
	 Minimising the number of stockpiles on-site and number of work faces on stockpiles 	
Air	 Use of water sprays for dusty activities such as ballast dumping and compacting 	Section 3.3
	 Modify or cease demolition activities during periods of adverse weather (hot, dry and windy conditions) 	
	 Using water sprays with earth moving equipment during road construction 	
	 Modifying work practices during periods of high winds and/or dry conditions by limiting scraper/grader activity 	
	 Confining all on-site vehicles to a designated route and enforcing speed limits 	
	 Modifying work practices during periods of high winds and/or dry conditions by engaging a water truck to spray travel routes 	
	 Controlling and reducing trip frequency and distance by coordinating delivery and removal of materials to avoid unnecessary trips, where possible 	
	Cleaning dirt that has been tracked onto sealed roads as soon	I

as practicable. Dirt track-out should be managed using shaker grids and/or wheel cleaning.

4.5.1.2. Other Approvals

The Revised Statement of Commitments (RSoC) includes the most recent compilation of SIMTA commitments to mitigate the environmental impacts, monitor the environmental performance and/or achieve a positive environmentally sustainable outcome. These RSoC (June 2017) were presented in the Moorebank Precinct East – Concept Plan Modification 2 Response to Submissions. The RSoC that are relevant to this plan are identified in Table A-5.



Table A-5 Revised Statement of Commitments

RSoC	Requirement	Timing	Document Reference	
Air Quality	The Proponent will undertake an air quality monitoring programme during the initial phases of both construction and operation of the SIMTA site in accordance with the Air Quality Impact Assessment and including:	Within 12 months of commencing operation and within 12 months of operating at an annual throughput of 500,000 TEU and 1,000,000 TEU		
	Nuisance Dust		Monitoring for construction as per CoC B56(Section 4.1)	
	 Ai r Emissions – PM10 and Nitrogen dioxide. 			
	The Proponent commits to the preparation of a Construction Environmental Management Plan prior to the construction of each stage to provide air quality and dust management/ mitigation procedures to be adopted during each of the construction phases of the development.			

Infrastructure Sustainability Council of Australia (ISCA) requirements relevant to this plan are detailed in Table A-6.

Table A-6 ISCA Requirements

Credit	Level	Requirement	Document Reference
Dis-4		Measures to minimise adverse impacts to local air quality during construction and operation should be implemented.	Section 3.3
	3	Monitoring of air emissions and/or air quality should be undertaken at appropriate intervals and in response to complaints during construction	Section 4.1, 4.4 and 3.4.1
		Monitoring and modelling should demonstrate no exceedances of air emission or air quality goals.	Section 4.1.2

The MPE Concept Plan was originally approved on 14 September 2011. The most recent modification to the approval was granted on 31 January 2018 subject to the (modified) Conditions of Approval (CoA). MPE Concept Plan CoA are detailed in Table A-7.

Table A-7 MPE Concept Plan Conditions of Approval (CoA)

Concept CoA	Requirement	Document Reference	
Air Quality	Any future Development Application shall include a comprehensive air quality impact assessment for each stage of the proposal, including:		
	a) An assessment in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (2005) (or its later version and updates);	This Plan	



Concept CoA Requirement

Document Reference

b) Taking into account the final Development design with consideration to worst-case meteorological and operating conditions;

c) Quantitatively assessing the predicted emission of:

- i. Solid particles
- ii. Sulphur oxides
- iii. Nitrogen oxides
- iv. Hydrocarbons

d) Assessing cumulative air impacts at a local and regional level (including but not limited to contemporaneous operations such as those of the proposed Commonwealth Government MIT); and

e) A comprehensive air quality management plan that includes at least the following information:

i. Explicit linkage of proposed emission controls to the site specific best practice determination assessment and assessed emissions

ii. The timeframe for implementation of all identified emission controls

iii. Proposed key performance indicator(s) for emission controls

iv. Proposed means of air quality monitoring including location (on an off-site), frequency and duration

v. Poor air quality response mechanisms

vi. Responsibilities for demonstrating and reporting achievement of key performance indicator(s)

vii. Record keeping and complaints response register

viii. Compliance reporting



APPENDIX B MPE STAGE 2 AIR QUALITY IMPACT ASSESSMENT EXTRACT