



# **Modification 16 Northern Tailings Storage Facility Buttress Optimisation**

Appendix C  
Air Quality Assessment





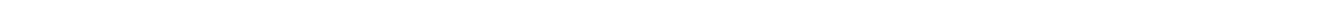
# CADIA MODIFICATION 16

## Air Quality Impact Assessment

Final | Revision 1

18 December 2025

Project: 22021



## Cadia Modification 16

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## Executive Summary

Cadia Holdings Pty Limited (CHPL) proposes a modification (Modification 16) to Project Approval 06\_0295 (PA 06\_0295) for Cadia Valley Operations (Cadia). The main elements of Modification 16 include:

- using recovered sand to buttress the southern wall of the Northern Tailings Storage Facility (NTSF);
- emplacing/stockpiling excess recovered sand within the approved Southern Tailings Storage Facility (STSF) disturbance footprint; and
- integrating the recovered sand demonstration embankment approved under Modification 15 to PA 06\_0295 with the proposed NTSF southern wall recovered sand buttress, with the integrated structure to remain and form part of the final landform.

This report provides an assessment of the potential air quality impacts of Modification 16. It has been undertaken in accordance with the New South Wales (NSW) Environment Protection Authority (EPA) *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW*. The adopted methodology considers the existing operations, the proposed Modification 16 parameters, site-specific meteorological data and site-specific ambient air quality monitoring data to determine the potential impacts to air quality with reference to the EPA impact assessment criteria.

The assessment involved identifying the key air quality aspects that would be subject to detailed assessment, characterising the existing environment, quantifying emissions to air and modelling the potential impacts of Modification 16 on local air quality. The key air quality aspect was identified as dust (i.e. particulate matter).

A detailed site inspection and desktop review of the existing environment was carried out including an analysis of historically measured concentrations of key air quality indicators from Cadia, and local and regional air quality monitoring stations. The review showed that air quality in many parts of NSW, including the Central Tablelands, is heavily influenced by climatic conditions such as drought. For example, there was a deterioration in air quality conditions between 2017 and early 2020 that was heavily influenced by drought, dust storms and bushfires. These conditions were generally observed across all NSW air quality monitoring stations, with the monitoring results at Cadia and the Central Tablelands consistent with these statewide observations including at Bathurst and Orange.

Monitoring data have shown that particulate matter concentrations around Cadia generally comply with the EPA impact assessment criteria. However, there have historically been a few days each year when PM<sub>10</sub> concentrations exceeded the 24-hour average criterion due to various factors such as dust storms and bushfires. Air quality monitoring data are evaluated each year as part of Annual Reviews submitted to meet PA 06\_0295 and Environment Protection Licence 5590 (EPL 5590) conditions.

One of the tasks for the assessment was to select a representative meteorological year for modelling. Analysis determined that there is no one single year with statistics that are within long-term averages for all meteorological parameters. The 2022-23 period (1 July 2022 to 30 June 2023) was the only period in the most recent seven years which addressed this objective for a key meteorological parameter; wind speed. The 2022-23 period contained a complete (100%) year of data from two site-specific meteorological stations, meeting the EPA's requirements for modelling. In addition, the 2022-23 period had concurrent air quality monitoring data for key air quality indicators (including PM<sub>10</sub> and PM<sub>2.5</sub>), was not adversely influenced by bushfire activities or extreme conditions (except for short-term flooding in November 2022) and coincided with a mix of both above average (2022) and below average (2023) rainfall, noting that rainfall was not directly used in the air quality modelling. On this basis, the 2022-23 period was selected for the modelling.

The modelling of Modification 16 for representative scenarios showed that there would not be exceedances of airborne particulate matter (i.e. dust) concentration or dust deposition criteria at private dwellings (the closest dwellings from the proposed NTSF recovered sand buttress is 2 kilometres [km]).

The air quality model was also evaluated against the site-specific measurements to assess performance for simulating the local environment. It was noted that model predictions of air quality conditions were consistently higher than the site-specific measurements of air quality conditions. The modelling for Modification 16 therefore provided a conservative assessment of potential impacts.

Based on this assessment, it has been concluded that Modification 16 would not cause exceedances of air quality criteria at private dwellings and that carrying forward the implementation of mitigation measures in the approved *Cadia Air Quality and Greenhouse Gas Management Plan*, along with management measures described in **Section 7** of this report, would be appropriate.

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## Acronyms and definitions

Abbreviation	Definition
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
AHD	Australian Height Datum
ANSTO	Australian Nuclear Science and Technology Organisation
AQGGMP	Cadia Air Quality and Greenhouse Gas Management Plan
BAM	Beta Attenuation Monitor
CHPL	Cadia Holdings Pty Ltd
Cadia	Cadia Valley Operations
CO	Carbon monoxide
DPE	NSW Department of Planning and Environment
DPHI	NSW Department of Planning, Housing and Infrastructure
EPA	NSW Environment Protection Authority
$\text{g}/\text{m}^2/\text{month}$	grams per square metre per month
$\text{H}_2\text{S}$	Hydrogen sulphide
km	kilometres
m	metres
m/s	metres per second
Mtpa	million tonnes per annum
NEPC	National Environment Protection Council of Australia
NEPM	National Environment Protection Measure
Newmont	Newmont Corporation
NSW	New South Wales
$\text{NO}_2$	Nitrogen dioxide
$\text{NO}_x$	Oxides of nitrogen
NTSF	Northern Tailings Storage Facility
$\text{PM}_{2.5}$	Particulate matter with equivalent aerodynamic diameters less than 2.5 microns
$\text{PM}_{10}$	Particulate matter with equivalent aerodynamic diameters less than 10 microns
RCS	Respirable crystalline silica
SAOC	Site Asset Operations Centre
SLB	Southern Lease Boundary
$\text{SO}_2$	Sulphur dioxide
SRTM	Shuttle Radar Topography Mission
STSF	Southern Tailings Storage Facility
TAPM	The Air Pollution Model
TARP	Trigger Actions Response Plan
TEOM	Tapered Element Oscillating Microbalance
TSF	Tailings Storage Facility
TSP	Total suspended particulate matter
US EPA	United States Environmental Protection Agency
VLAMP	NSW Voluntary Land Acquisition and Mitigation Policy

# 1 Introduction

## 1.1 Background

Cadia Valley Operations (hereafter referred to as Cadia) is located approximately 25 kilometres (km) southwest of Orange, in the Central Tablelands of New South Wales (NSW) (refer to **Figure 1**). Cadia Holdings Pty Limited (CHPL) is a wholly owned subsidiary of Newmont Corporation (Newmont). CHPL is the owner and operator of Cadia. Project Approval 06\_0295 (PA 06\_0295) for Cadia was granted by the NSW Minister for Planning under Part 3A of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) on 6 January 2010.

CHPL proposes a modification to PA 06\_0295 (Modification 16), which would be sought under section 4.55(2) of the EP&A Act. The main elements of Modification 16 include:

- using recovered sand to buttress the southern wall of the Northern Tailings Storage Facility (NTSF);
- emplacing/stockpiling excess recovered sand within the approved Southern Tailings Storage Facility (STSF) disturbance footprint; and
- integrating the recovered sand demonstration embankment approved under Modification 15 to PA 06\_0295 with the proposed NTSF southern wall recovered sand buttress, with the integrated structure to remain and form part of the final landform.

Airen Consulting has been commissioned by CHPL to prepare an air quality impact assessment to support the development of a Modification Report.

## 1.2 Approved Operation

PA 06\_0295 (as modified) includes all of the integrated operations and components of the approved Cadia, including:

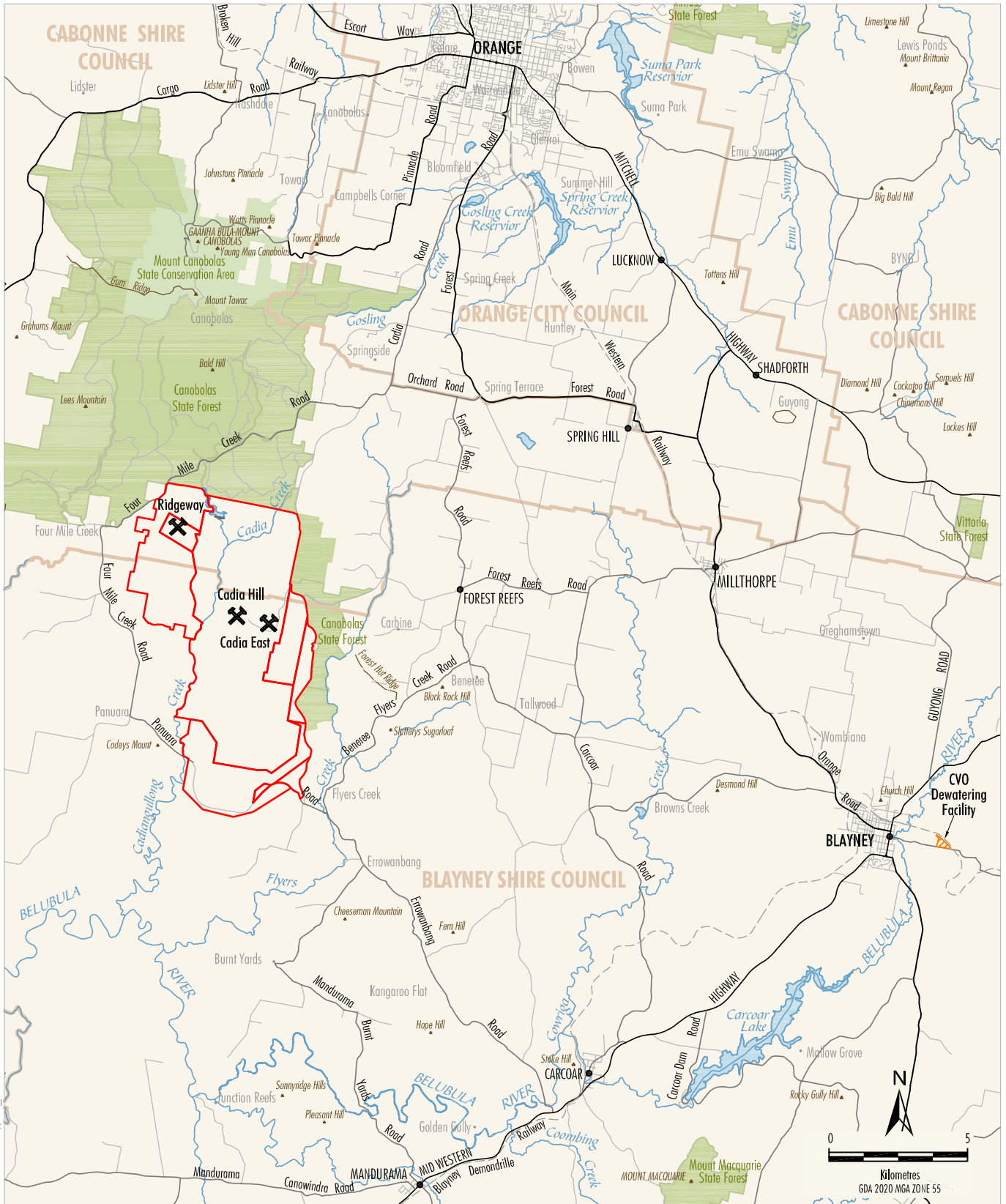
- the Cadia East Underground Mine;
- the Cadia Hill Open Cut Mine;
- the Ridgeway Underground Mine;
- the Cadia Dewatering Facility; and
- a range of ancillary and support infrastructure.

CHPL, as the proponent of Cadia, is authorised by Schedule 2 Condition 5 of PA 06\_0295 to carry out mining operations at Cadia until 30 June 2031. Schedule 2 Condition 6 of PA 06\_0295 states that “*The Proponent shall not process more than 32 million tonnes of ore from the project in a calendar year, or the alternative maximum of 35 million tonnes of ore which is subject to satisfying the requirements as described in condition 6A*”. For the purposes of this assessment, a 35 million tonnes per annum (Mtpa) ore processing rate has been assumed and therefore represents the worst-case scenario.

## 1.3 Modification Description

The proposed Modification 16 seeks approval to reuse the hydrocyclone infrastructure established as part of the Hydrocyclone Sands Trial Tailings Pilot Plant to produce, transport and use the recovered sand, in addition to rock, to buttress the southern wall of the NTSF. The construction of the buttress would involve the following general steps:

- Construction of a rock platform (approved via Modification 15) and an underdrainage system made via crushing rock sourced from the South Waste Rock Dump.
- Formation of successive ‘cells’ above the underdrainage system using recovered sands with a slope and drainage box to assist with dewatering.
- Pumping of recovered sand and emplacement in cells.
- Use of tractors to compact the recovered sand within cells.
- Armouring of the recovered sand buttress outer surface with rock.
- Rehabilitation of the final profile as a part of closure of the tailings storage facilities (TSFs).



Source: NSW Spatial Services (2020);  
Department of Primary Industries and Regional Development (2025)



- LEGEND**
- Mining Lease Boundary
  - Local Government Area
  - Road
  - Railway
  - NSW State Forest
  - NPWS Reserve

**Newmont**  
CADIA

CADIA VALLEY OPERATIONS  
Regional Location

Figure 1

The ore treatment process at Cadia operates at a consistent ore throughput, and given this, recovered sand would be delivered from the ore processing circuit at a consistent flowrate (i.e. other than during shut down periods). Based on the approved maximum ore processing rate of 35 Mtpa, approximately 10.5 Mtpa or 29,000 tonnes per day of recovered sand would be produced and used to construct the demonstration embankment.

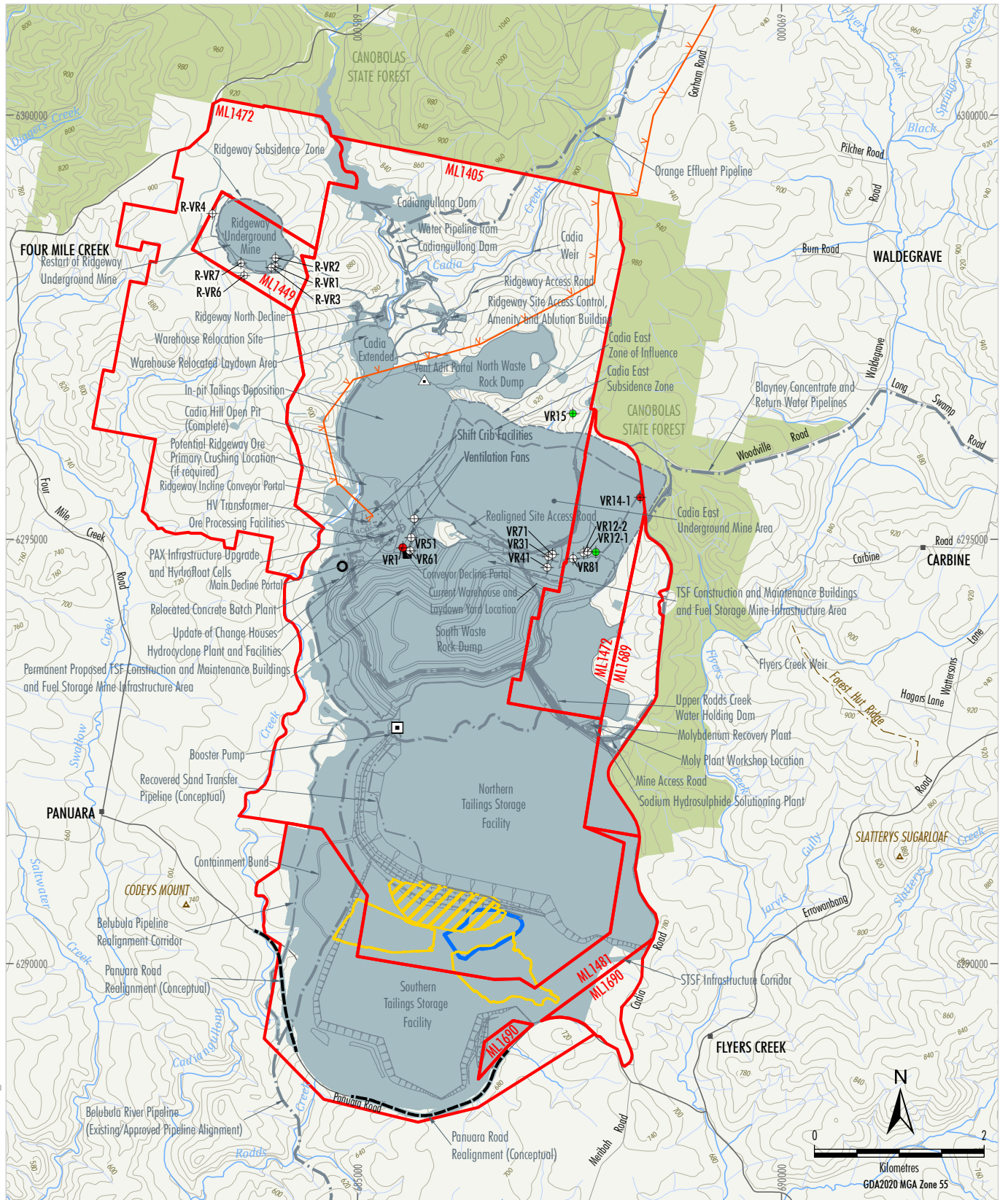
Due to constraints associated with the cell availability for recovered sands placement within the buttress, supporting stockpiling locations are required. This excess recovered sand, that is not directly emplaced in the buttress, would be hydraulically emplaced/stockpiled on the STSF, and spread with rubber tracked/tyred equipment, as required.

The buttressing, recovered sand emplacement/stockpiling works, as well as construction of the sand demonstration embankment approved under Modification 15 would be undertaken 24 hours a day, seven days a week to align with the mill production and operational requirements.

All proposed recovered sand buttressing and emplacement/stockpiling activities and infrastructure would be located within Cadia's existing/approved disturbance footprint.

The existing/approved Cadia operations as well as Modification 16 elements are shown in **Figure 2**.

NEW-25-02 MOD16 AQA Revised\_2024



**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | Mining Lease Boundary   |  | <b>Vent Raises</b>                          |
|  | NSW State Forest  |  | Approved but not Constructed                |
|  | Powerline   |  | Active                                      |
|  | Existing/Approved Mine Infrastructure, Disturbance Footprint and Landform |  | Decommissioned                              |
|  | Transfer Pipeline (Conceptual)  |  | Proposed Modification 16 Elements           |
|  | Panauara Road Realignment (Conceptual)                                    |  | Recovered Sand Buttriss                     |
|  | Recovered Sand Demonstration Embankment                                   |  | Excess Recovered Sand Stockpile/Emplacement |
|  | Declines  |  |   |
|  | Portals   |  |   |
|  | Adits   |  |   |
|  | Booster Pump  |  |   |

Source: Land and Property Information (2017); Department of Primary Industries and Regional Development (2025); CHPL (2018; 2023); Newmont (2026)



**CADIA VALLEY OPERATIONS**  
Existing/Approved Cadia Operations and Modification 16 Elements

Note: Excludes some incidental project components such as water management infrastructure, access tracks, topsoil stockpiles, power supply, temporary offices, other ancillary works and construction disturbance.

**Figure 2**

## 1.4 Report Structure

The report is structured as follows:

- **Section 1** provides a background to Modification 16.
- **Section 2** identifies the key air quality aspects to be addressed.
- **Section 3** outlines the relevant assessment criteria.
- **Section 4** discusses key features of the existing environment including surrounding land uses, sensitive receptors, and local meteorological and air quality conditions.
- **Section 5** provides an overview of the methods used to assess the potential for air quality impacts.
- **Section 6** provides an assessment of the potential air quality impacts.
- **Section 7** outlines the measures to mitigate or otherwise effectively manage potential impacts.
- **Section 8** provides the conclusions of the assessment.

## 2 Key Air Quality Issues

Air quality issues can arise when emissions from an industry or activity lead to a deterioration in the ambient air quality beyond a level that government nominates is typically acceptable. The potential emission sources which may impact the local air quality have been identified from a review of Modification 16 and associated activities. This identification process has considered the types of emissions to air and the proximity of these emission sources to private dwellings.

Emissions to air as a result of Modification 16 could occur from a variety of activities including material handling, material transport, material processing, dozers and wind erosion from exposed areas and stockpiles. Emissions from these activities would occur during both construction and operational phases.

The main emission to air from Modification 16 activities would be dust, also referred to as particulate matter. Key classifications of particulate matter include:

- Total suspended particulates (TSP).
- Particulate matter with equivalent aerodynamic diameter of 10 microns or less (PM<sub>10</sub>).
- Particulate matter with equivalent aerodynamic diameter of 2.5 microns or less (PM<sub>2.5</sub>).
- Deposited dust.

The profiles of metals in particulate matter as well as respirable crystalline silica (RCS) are not expected to change due to Modification 16 activities and these issues have previously been assessed as part of Modification 15.

Plant and equipment engine exhausts have the potential to generate emissions that include carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), particulate matter, and to a lesser extent sulphur dioxide (SO<sub>2</sub>). However, Modification 16 is expected to result in reduced on-site fuel consumption compared to Modification 15, based on data calculated by CHPL. Therefore, the potential air quality impacts of emissions from vehicle exhausts would be no greater than those determined for Modification 15.

The key air quality aspect which was identified for consideration in this assessment was dust (i.e. particulate matter) in the form of TSP, PM<sub>10</sub>, PM<sub>2.5</sub> and deposited dust in both construction and operational phases.

### 3 Air Quality Criteria

Air quality is typically quantified by the concentrations of substances in the ambient air. Air pollution occurs when the concentration (or some other measure of intensity) of one or more substances known to cause health, nuisance and/or environmental effects, exceeds a certain level. With regard to human health and nuisance effects, the substances most relevant to Cadia and Modification 16 have been identified, from **Section 2**, as particulate matter.

Air quality impact assessment criteria for particulate matter are prescribed in PA 06\_0295. The NSW Environmental Protection Authority (EPA) has also developed impact assessment criteria for a range of air quality indicators including particulate matter. The relevant criteria are discussed below.

Schedule 3, Condition 17 of PA 06\_0295 requires CHPL (with the exception of certain land) to “ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria listed in Tables 8, 9 and 10 at any residence on privately owned land, or on more than 25% of any privately-owned land”. **Table 1** shows the air quality impact assessment criteria from PA 06\_0295. Schedule 3, Condition 19(c) of PA 06\_0295 also requires CHPL to “implement all reasonable and feasible measures to minimise off-site odour and air pollution generated by the project”. It should be noted that air quality impact assessment criteria from PA 06\_0295 (**Table 1**) are not used for the purposes of assessment, but are included for the purpose of benchmarking Cadia’s performance with respect to air emissions (see **Section 4**).

**Table 1 PA 06\_0295 Air Quality Impact Assessment Criteria**

Air quality indicator	Averaging time	<sup>d</sup> Air quality criteria from PA 06_0295
Particulate matter (PM <sub>10</sub> )	24-hour	<sup>b</sup> 50 µg/m <sup>3</sup>
	Annual	<sup>a</sup> 25 µg/m <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )	24-hour	<sup>b</sup> 25 µg/m <sup>3</sup>
	Annual	<sup>a</sup> 8 µg/m <sup>3</sup>
Particulate matter (TSP)	Annual	<sup>a</sup> 90 µg/m <sup>3</sup>
Deposited dust <sup>c</sup>	Annual (maximum increase)	<sup>b</sup> 2 g/m <sup>2</sup> /month
	Annual (maximum total)	<sup>a</sup> 4 g/m <sup>2</sup> /month

µg/m<sup>3</sup>: micrograms per cubic metre; g/m<sup>2</sup>/month: grams per square metre per month

Notes:

<sup>a</sup> Cumulative impact (i.e. increase in concentrations due to the project plus background concentrations due to all other sources).

<sup>b</sup> Incremental impact (i.e. increase in concentrations due to the project on its own), with up to five allowable exceedances of the criteria over the life of the project.

<sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air – Determination of Particulate Matter – Deposited Matter – Gravimetric Method.

<sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

The EPA has developed impact assessment criteria which are outlined in the *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW* (EPA, 2022), hereafter referred to as the Approved Methods. The EPA impact assessment criteria for particulates have been drawn from *National Environment Protection (Ambient Air Quality) Measure* set by the National Environmental Protection Council of Australia (NEPC) as part of the National Environment Protection Measures (NEPMs) (NEPC, 1998 and updates to 2021).

Modification 16 has been assessed in terms of its ability to comply with the relevant air quality criteria set by the EPA as part of the Approved Methods. These criteria are outlined in **Table 2** and apply to existing and potentially sensitive receptors, where the Approved Methods define a sensitive receptor as including “a location where people are likely to work or reside; this may include a dwelling, school, hospital, office or public recreational area”. The assessment has adopted a “Level 2” approach which involves a “refined dispersion modelling technique using site-specific input data” (EPA, 2022).

**Table 2 Approved Methods Air Quality Impact Assessment Criteria**

Air quality indicator	Averaging time	Criterion	Application
Particulate matter (PM <sub>10</sub> )	24-hour	50 µg/m <sup>3</sup>	Cumulative, at sensitive receptors
	Annual	25 µg/m <sup>3</sup>	Cumulative, at sensitive receptors
Particulate matter (PM <sub>2.5</sub> )	24-hour	25 µg/m <sup>3</sup>	Cumulative, at sensitive receptors
	Annual	8 µg/m <sup>3</sup>	Cumulative, at sensitive receptors
Particulate matter (TSP)	Annual	90 µg/m <sup>3</sup>	Cumulative, at sensitive receptors
Deposited dust (insoluble solids)	Annual (maximum increase)	2 g/m <sup>2</sup> /month	Incremental, at sensitive receptors
	Annual (maximum total)	4 g/m <sup>2</sup> /month	Cumulative, at sensitive receptors

Source: Table 11 of the *Approved Methods* (EPA, 2022).

Many of the EPA air quality impact assessment criteria relate to the total concentration of pollutants in the air (that is, cumulative) and not just the contribution from project-specific sources. Therefore, some consideration of background levels needs to be undertaken when using these criteria to assess the potential impacts. In situations where background levels are elevated the proponent must “*demonstrate that no additional exceedances of the impact assessment criteria will occur as a result of the proposed activity and that best management practices will be implemented to minimise emissions of air pollutants as far as is practical*” (EPA, 2022). **Section 4** provides further discussion on background levels.

The NSW *Voluntary Land Acquisition and Mitigation Policy* (VLAMP) (NSW Government, 2018) includes the NSW Government’s policy for voluntary mitigation and land acquisition to address dust (particulate matter) impacts from State significant mining, petroleum and extractive industry developments. The VLAMP brings the air quality criteria in line with the NEPM standards and the EPA impact assessment criteria. Criteria have been defined for voluntary mitigation rights (where mitigation measures are to be implemented) and voluntary acquisition rights (where acquisition processes are initiated).

Under the VLAMP, voluntary mitigation rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in **Table 3** at any residence on privately owned land or workplace on privately owned land where the consequences of those exceedances (in the opinion of the consent authority) are unreasonably deleterious to worker health or the carrying out of business at that workplace, including consideration of the relevant factors identified on this subject in the VLAMP.

**Table 3 VLAMP Mitigation Criteria for Particulate Matter**

Air quality indicator	Averaging time	Criterion	Impact type
Particulate matter (PM <sub>10</sub> )	24-hour	50 µg/m <sup>3</sup> **	Human health
	Annual	25 µg/m <sup>3</sup> *	Human health
Particulate matter (PM <sub>2.5</sub> )	24-hour	25 µg/m <sup>3</sup> **	Human health
	Annual	8 µg/m <sup>3</sup> *	Human health
Particulate matter (TSP)	Annual	90 µg/m <sup>3</sup> *	Amenity
Deposited dust	Annual (maximum increase)	2 g/m <sup>2</sup> /month **	Amenity
	Annual (maximum total)	4 g/m <sup>2</sup> /month *	Amenity

Source: Table 2 of the *VLAMP* (NSW Government, 2018).

Notes:

\* Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).

\*\* Incremental impact (i.e. increase in concentrations due to the development alone), with **zero allowable exceedances of the criteria over the life of the development**.

Voluntary acquisition rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in **Table 4** at any residence on privately owned land or workplace on privately owned land where the consequences of those exceedances (in the opinion of the consent authority) are unreasonably deleterious to worker health or the carrying out of business at that workplace (including consideration of the relevant factors identified on this subject in the VLAMP), or on more than 25 percent (%) of any privately owned land where there is an existing dwelling or where a dwelling could be built under existing planning controls.

**Table 4 VLAMP Acquisition Criteria for Particulate Matter**

Air quality indicator	Averaging time	Criterion	Impact type
Particulate matter (PM <sub>10</sub> )	24-hour	50 µg/m <sup>3</sup> **	Human health
	Annual	25 µg/m <sup>3</sup> *	Human health
Particulate matter (PM <sub>2.5</sub> )	24-hour	25 µg/m <sup>3</sup> **	Human health
	Annual	8 µg/m <sup>3</sup> *	Human health
Particulate matter (TSP)	Annual	90 µg/m <sup>3</sup> *	Amenity
Deposited dust	Annual (maximum increase)	2 g/m <sup>2</sup> /month **	Amenity
	Annual (maximum total)	4 g/m <sup>2</sup> /month *	Amenity

Source: Table 2 of the VLAMP (NSW Government, 2018).

Notes:

\* Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).

\*\* Incremental impact (i.e. increase in concentrations due to the development alone), with **five allowable exceedances of the criteria over the life of the development**.

The particulate matter levels for comparison with the criteria in **Table 3** and **Table 4** must be calculated in accordance with the Approved Methods.

## 4 Existing Environment

This section provides a description of the environmental characteristics in the area, including a review of recent and historical meteorological and ambient air quality conditions. One of the objectives for this review was to develop an understanding of existing air quality conditions and to identify the main factors that have influenced air quality.

### 4.1 Local Setting

Cadia is located approximately 25 km south-southwest of Orange, in the Central West region of NSW. Aside from the mining operations conducted at Cadia, the surrounding local land-use is predominantly agricultural (i.e. cropping and grazing). Rural residential dwellings are predominantly to the east, with some private dwellings located within approximately 1 km of the mine lease boundary (or 2 km from the proposed NTSF recovered sand buttress) (**Figure 3**).

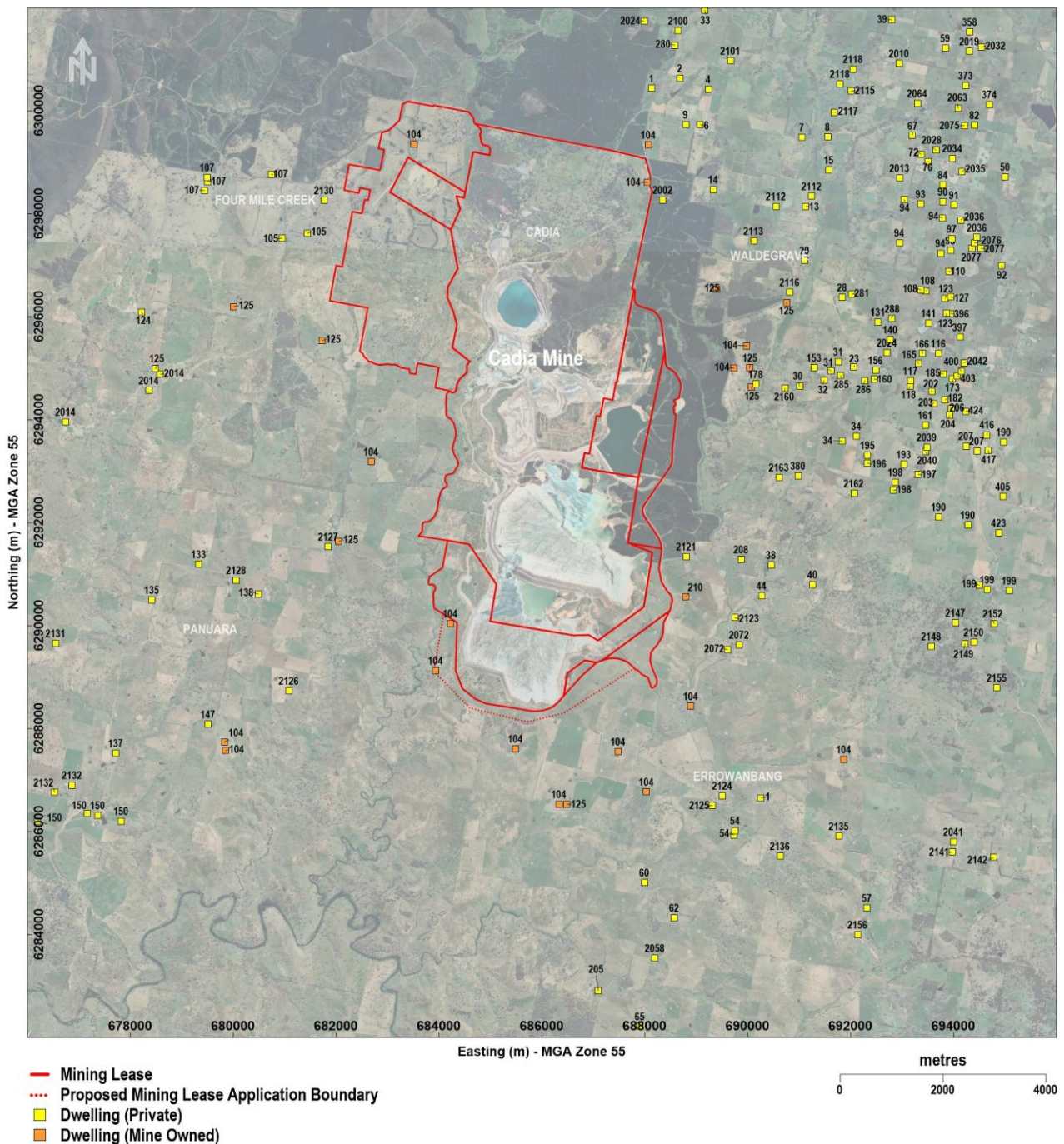
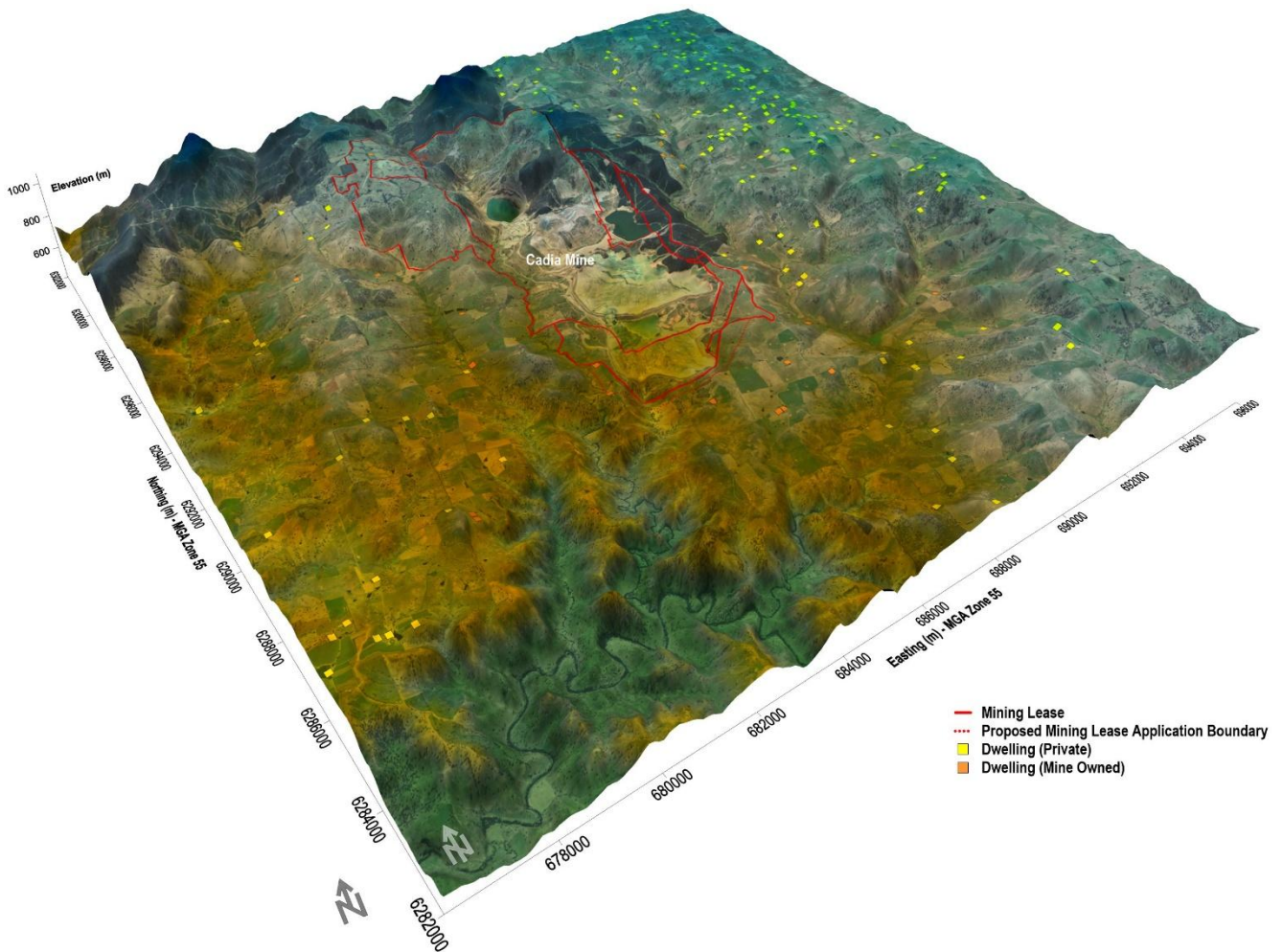


Figure 3 Location of Dwellings

Cadia is located at elevations between approximately 450 and 1,000 metres (m) Australian Height Datum (AHD) and surrounded by areas of gently undulating terrain. **Figure 4** shows a three-dimensional representation of the local terrain. This topographical environment has the potential to influence local wind conditions, which is discussed in **Section 4.2**.



**Figure 4** Three-dimensional Representation of the Local Terrain

## 4.2 Meteorology

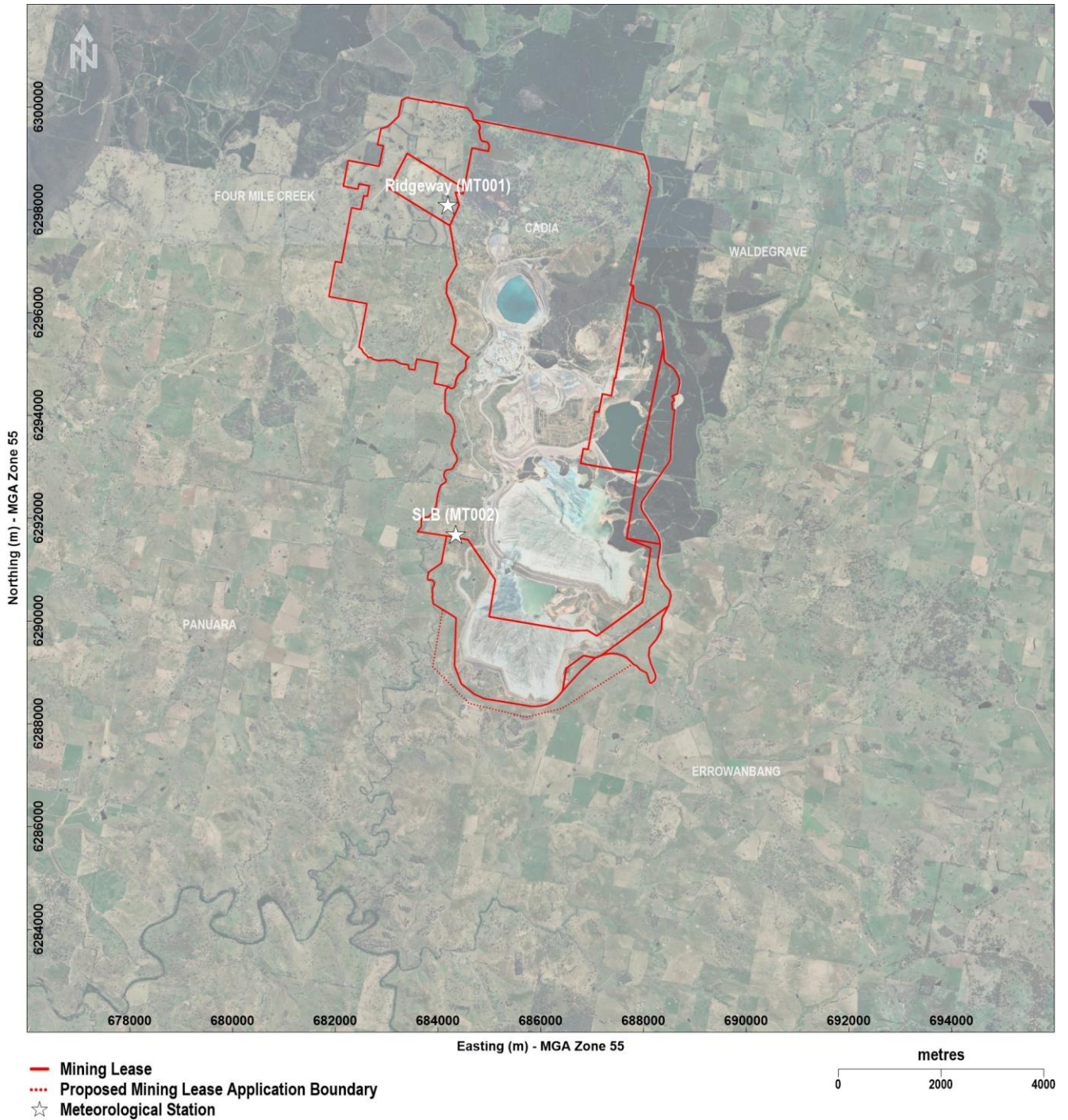
Meteorological conditions are important for determining the transport and dispersion of emissions from sources to receptor locations, and the potential influences on air quality. In addition, meteorological data are often used with concurrent air quality data to determine potential contributions from sources of interest. This section provides an analysis of the meteorological conditions around Cadia and identifies the datasets that are representative of the long-term, local conditions.

The EPA prescribes the minimum requirements for meteorological data that are to be used for air quality assessments. These requirements are outlined in the Approved Methods and include minimum data capture rates, siting and operation, and data preparation. Two types of meteorological stations are listed by the EPA for “Level 2” impact assessments:

- “site-specific”; and
- “site-representative”.

Data from site-specific meteorological stations are preferred for air quality assessments under the Approved Methods. However, site-representative data are also acceptable where site-specific meteorological data are not available for a Level 2 impact assessment, provided that the data adequately describe the expected meteorological conditions at the site of interest. According to the EPA (2022) Level 2 impact assessments are to be conducted using at least one year of site-specific meteorological data and must be 90% complete.

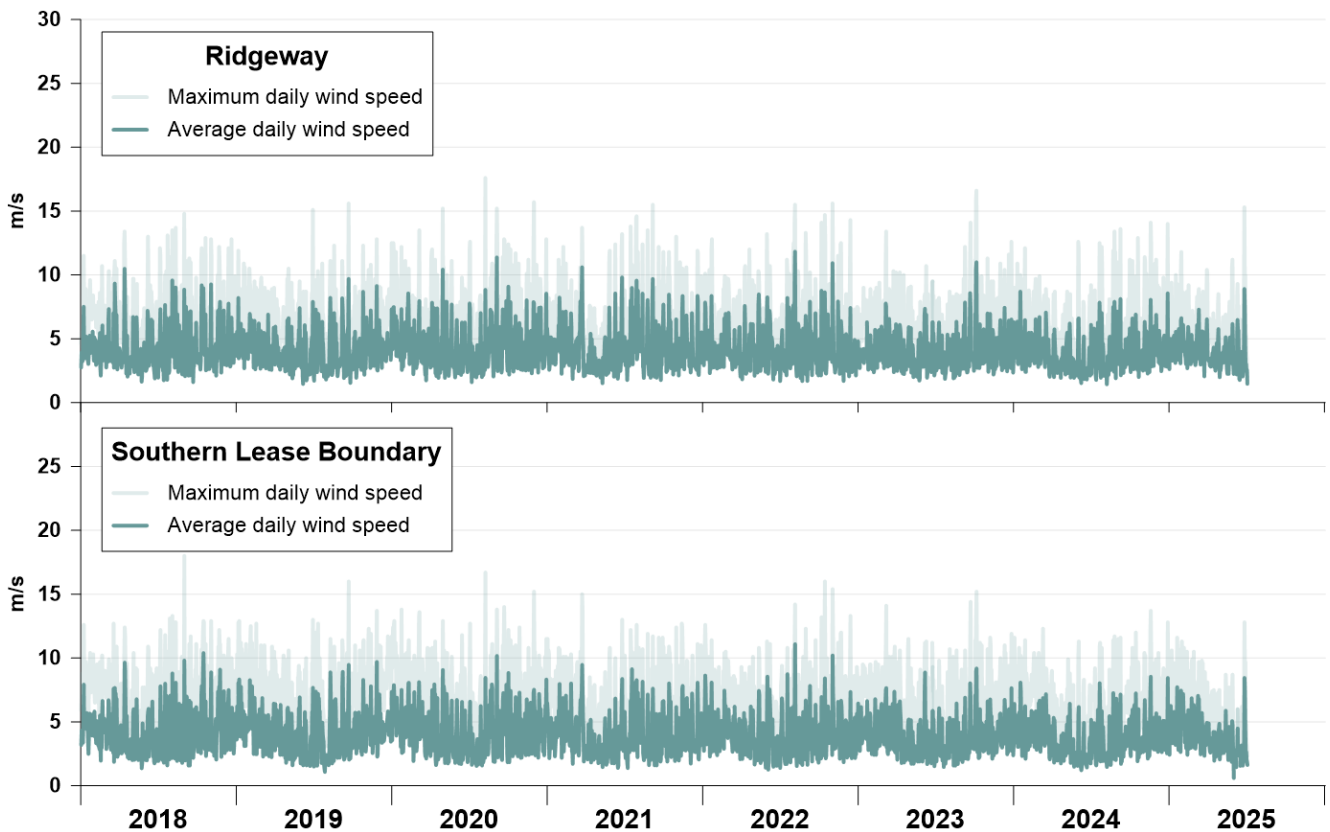
CHPL operates two site-specific meteorological stations, referred to as “Ridgeway” and “Southern Lease Boundary” (SLB). The monitoring at these locations has been carried out to understand the local meteorological conditions, to assist with operational decisions, and to inform air quality and other environmental studies. **Figure 5** shows the location of the two stations. The EPA does not define specific criteria (such as distances) for determining “site-specific” or “site-representative” meteorological stations. However, both meteorological stations were installed in accordance with the applicable Australian Standard (AS 3580.14) and specifically collect data to assist with site operations. These stations can be considered as “site-specific” for the purposes of this assessment and will have collected data that can be classified as specific to the prevailing conditions at and around Cadia.



**Figure 5** Location of Meteorological Stations

As noted above, a Level 2 impact assessment requires at least one year of site-specific meteorological data that is 90% complete. This assessment considers a more extensive, six-year dataset to make sure that the selected one-year period does not display any unusual characteristics. Data collected between 2018 and 2025 have been analysed. The analysis involved comparing statistics from the data collected at each location for each reporting year to determine a year-long dataset that could be considered as representative of the longer term, local conditions. Wind data have primarily been used for this purpose although the general climatic conditions (e.g. drought or wet rainfall year) as well as the availability of concurrent air quality data have also been considered.

**Figure 6** shows the daily wind speed records from data collected at the Ridgeway and SLB meteorological stations between 2018 and 2025. These data show that maximum hourly wind speeds typically range between approximately 7 and 15 metres per second (m/s). There were no periods that might be considered as unusual or extraordinary.



**Figure 6** Site-specific Wind Speed Data Collected between 2018 and 2025

Wind-roses have also been prepared from the available data (**Figure 7** and **Figure 8**). The wind-roses show the frequency of wind speeds and wind directions based on hourly records. The circular format of the wind-rose shows the direction from which the wind blew and the length of each “spoke” around the circle shows how often the wind blew from that direction. The different colours of each spoke provide details on the speed of the wind from each direction.

**Figure 7** shows the wind-roses from data collected at the Ridgeway meteorological station. It can be seen from these wind-roses that winds at the Ridgeway meteorological station are predominantly from the north to northeast or west to southwest. This pattern of winds is evident in all periods of data and shows that wind patterns do not vary significantly from year to year. It also suggests that the data from any of the years presented could be considered as representative of the longer-term conditions.

**Figure 8** shows the wind-roses from data collected at the SLB meteorological station. These wind-roses show similar patterns to those from Ridgeway with the prevailing winds from the north to northeast and west to southwest.

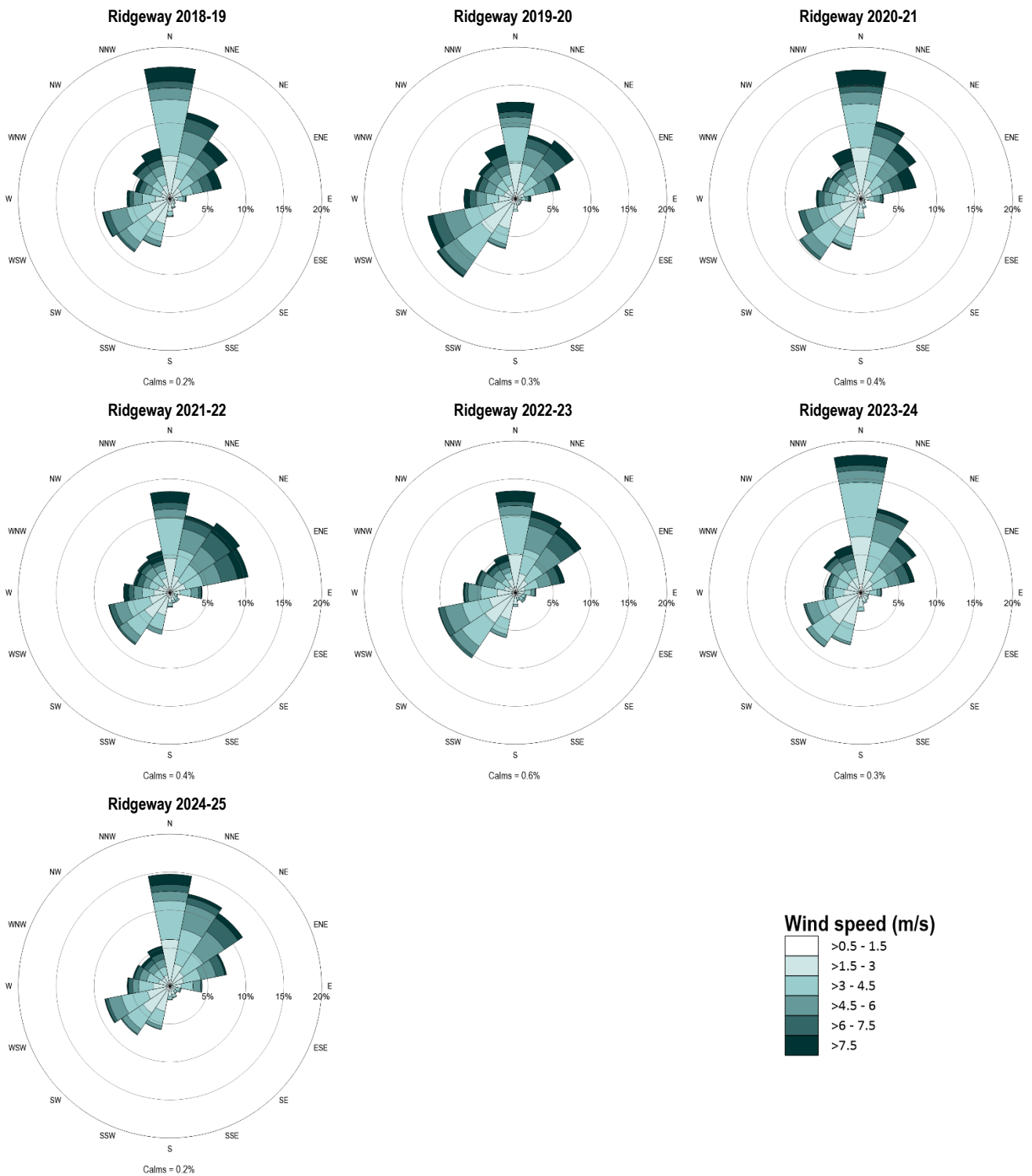
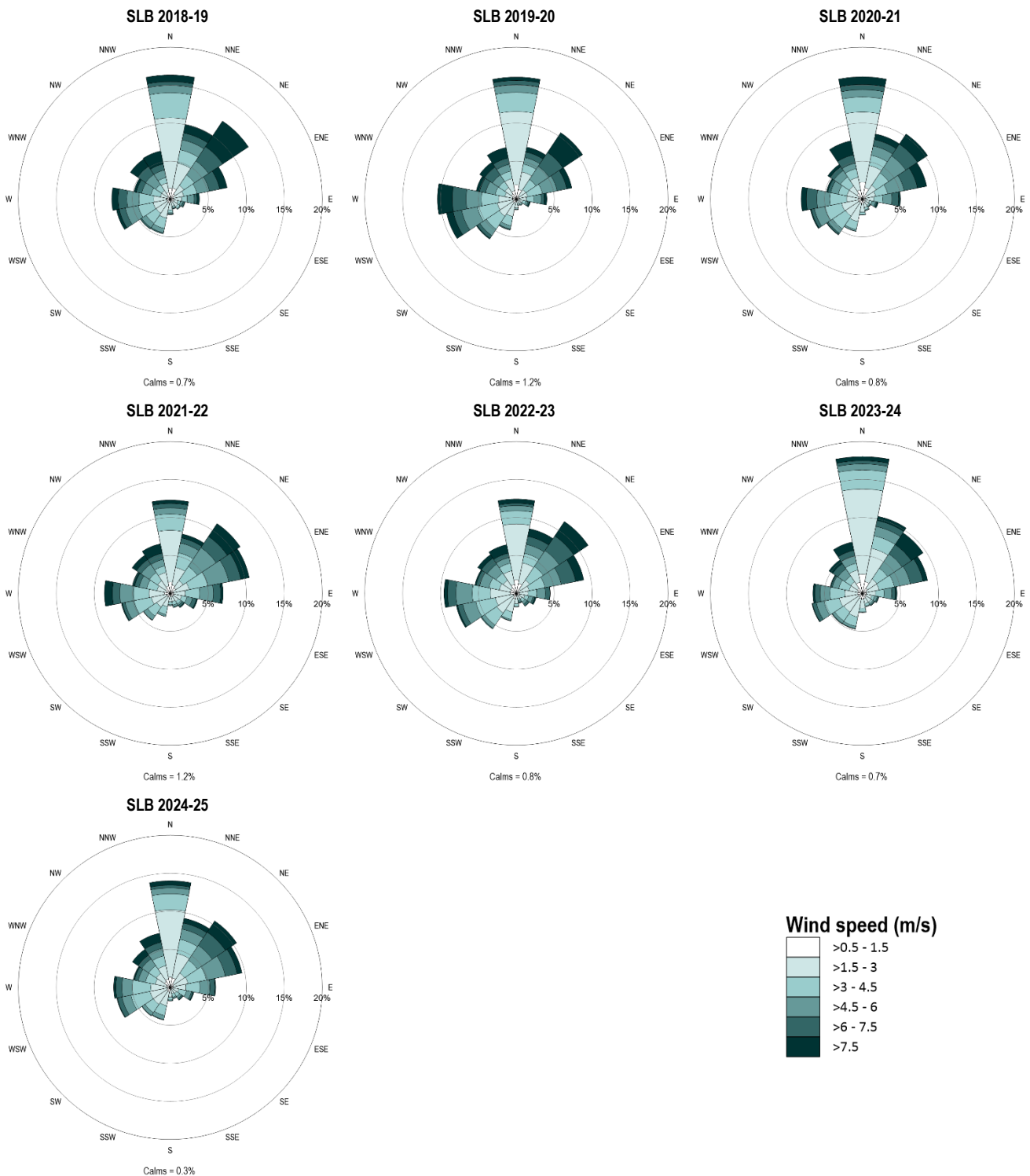


Figure 7 Wind-roses from Data Collected at the Ridgeway Meteorological Station



**Figure 8 Wind-roses from Data Collected at the Southern Lease Boundary Meteorological Station**

**Table 5** provides annual meteorological statistics from the Ridgeway and SLB meteorological station data. The statistics are similar at both locations and again show that conditions near Cadia do not vary significantly from year to year. Annual average wind speeds from 2018-19 to 2024-25 period were 4.0 and 4.1 m/s for Ridgeway and SLB respectively. Calm conditions (that is, periods of wind speed less than or equal to 0.5 m/s) are infrequent at around 1% or less. The 2022-23 period was the only period when the average wind speed statistics from both locations (4.0 and 4.0 m/s) were between this long-term range (4.0 to 4.1 m/s).

**Table 5 Statistics from Meteorological Data Collected near Cadia**

Statistic	Ridgeway	Southern Lease Boundary
<b>Percentage complete (%)</b>		
2018-19	100	100
2019-20	100	100
2020-21	100	100
2021-22	100	100
2022-23	100	100
2023-24	100	100
2024-25	100	89
2018-19 to 2024-25	100	98
<b>Average wind speed (m/s)</b>		
2018-19	4.2	4.3
2019-20	4.2	4.2
2020-21	4.1	3.9
2021-22	4.2	4.0
2022-23	4.0	4.0
2023-24	3.8	3.6
2024-25	4.0	3.9
2018-19 to 2024-25	4.1	4.0
<b>Percentage of calms (&lt;= 0.5 m/s)</b>		
2018-19	0.2	0.7
2019-20	0.3	1.2
2020-21	0.4	0.8
2021-22	0.4	1.2
2022-23	0.6	0.8
2023-24	0.3	0.7
2024-25	0.2	0.2
2018-19 to 2024-25	0.4	0.9

The analysis determined that there is no one single year with statistics that are within long-term averages for all meteorological parameters. Data from both the Ridgeway and SLB meteorological stations for the 2022-23 financial year (1 July 2022 to 30 June 2023) have been selected for modelling to inform the air quality impacts of Modification 16, as this is the only period in the most recent seven years which addressed this objective for a key meteorological parameter; wind speed. The selected data are site-specific and are over 90% complete for a one-year period, and the 2022-23 period contains a complete (100%) year of data from two site-specific meteorological stations, meeting the EPA's requirement for "Level 2" impact assessments (EPA, 2022). In addition, the 2022-23 period has concurrent air quality monitoring data for key air quality indicators (including PM<sub>10</sub> and PM<sub>2.5</sub>) (using consistent technology) which allows for background air quality levels to be established.

**Section 4.3** also indicates that air quality conditions in 2022-23 were not adversely influenced by bushfire activity or extreme conditions (except for short-term flooding in November 2022 where, according to the Bureau of Meteorology website, there were 14 days of rainfall with a total of 236.0 millimetres [mm] recorded at the Orange Airport Automatic Weather Station). This particular period covered above average (2022) and below average (2023) rainfall periods, however rainfall was not directly used in the air quality modelling. Methods for incorporating the 2022-23 data into the modelling for Modification 16 are discussed in detail in **Section 5**. Annual and seasonal wind-roses are provided in **Appendix A**.

### 4.3 Air Quality

This section examines the historical air quality conditions of the region based on relevant monitoring and establishes the appropriate background levels to be considered for the assessment.

The NSW Department of Planning, Housing and Infrastructure (DPHI) monitors air quality at various locations across NSW including the Central Tablelands (i.e. Bathurst and Orange). The network includes over 90 air quality monitoring stations. Over 50 stations use compliance methods to monitor air quality in areas of the State's highest populations, near industrial activities, and at locations with special interest or research purposes. Over 35 stations, supported by rural communities, use indicative instrumentation methods to monitor air quality (specifically, particles) across the NSW rural air quality monitoring network.

The DPHI does not monitor air quality near Cadia (the closest stations are located at Bathurst and Orange), but CHPL operates a local air quality monitoring network primarily to assist with evaluating performance against the air quality criteria in PA 06\_0295 and Environment Protection Licence 5590 (EPL 5590). **Figure 9** shows Cadia's air quality monitoring network. This network includes various technologies to measure PM<sub>10</sub>, PM<sub>2.5</sub>, TSP and deposited dust.

It should be noted that air quality monitoring data represent the contributions from all sources that have at some stage been upwind of each monitor. In the case of particulate matter (as PM<sub>10</sub>) for example, a measurement may contain contributions from many sources such as from construction works, bushfires, agricultural activities, industry, vehicles, roads, wind-blown dust from nearby and remote areas, small liquid droplets, fragments of pollens, moulds, and so on.

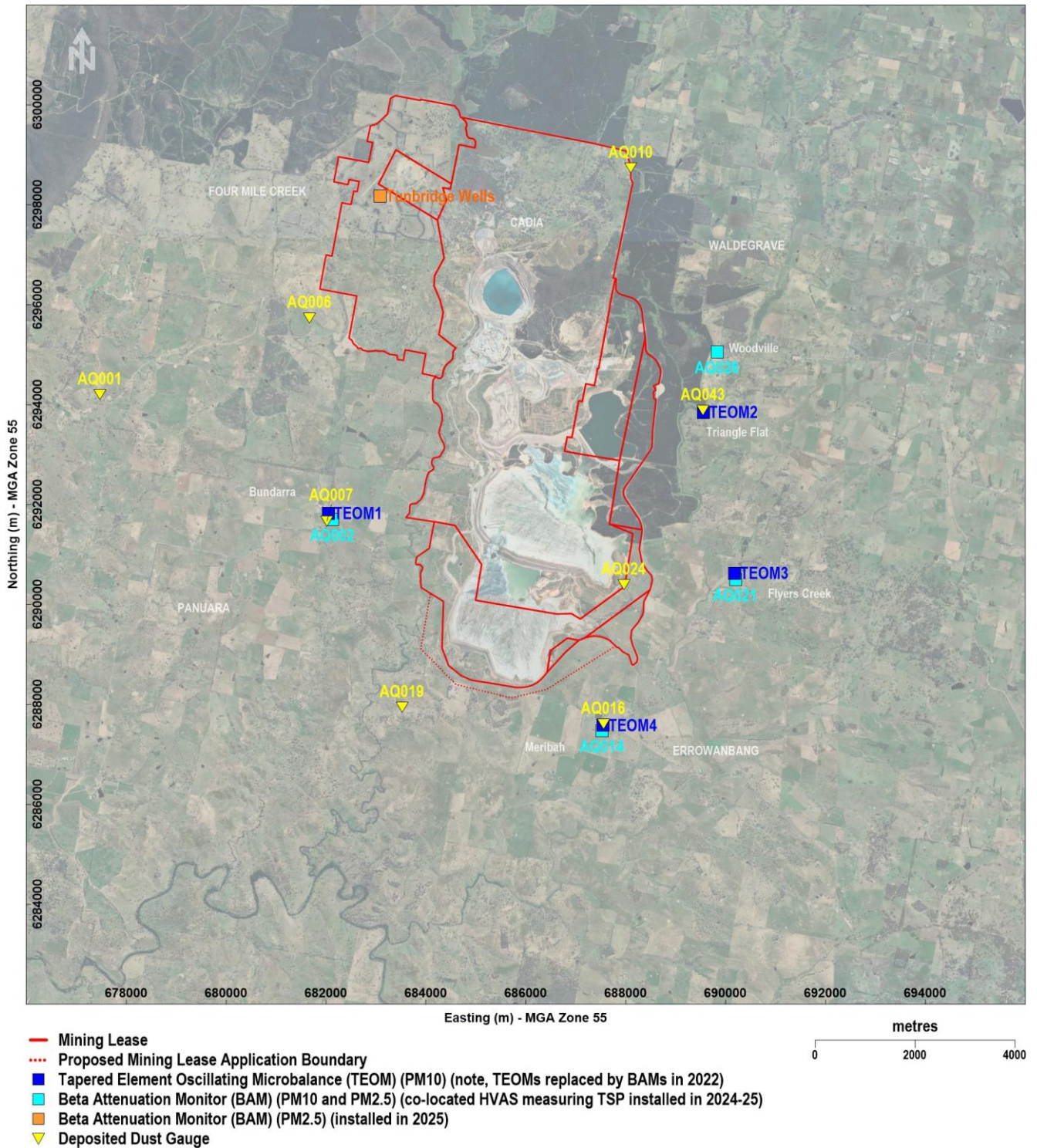


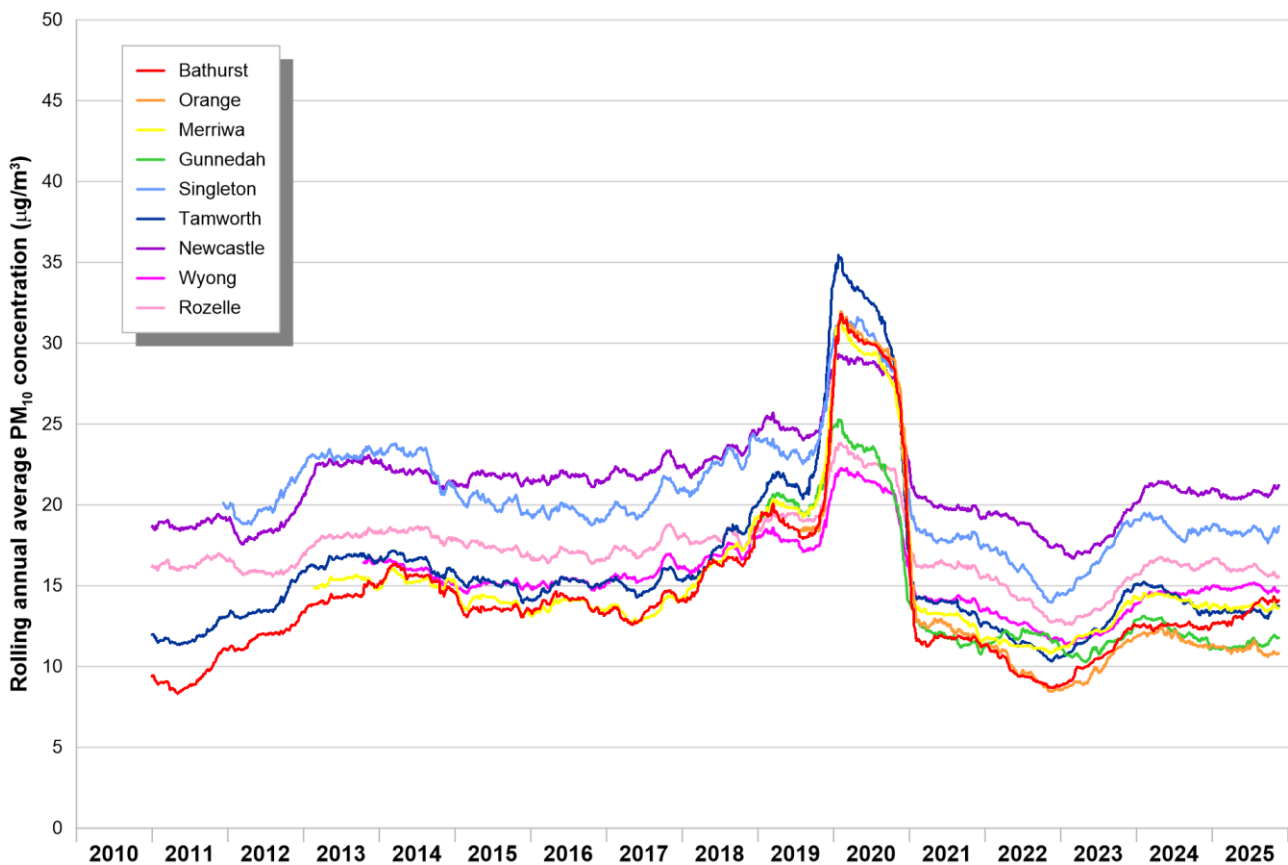
Figure 9 Location of Air Quality Monitors

### 4.3.1 Extraordinary Events

Air quality in many parts of NSW, including the Central Tablelands, was adversely influenced by drought conditions between 2017 to early 2020. A deterioration in air quality conditions over these years was not unique to the Central Tablelands and extraordinary events (that is, beyond normal conditions) have been identified in the Cadia monitoring data as well as the EPA’s State based monitoring network.

In *Annual Air Quality Statement 2018*, the DPHI concluded that particle levels increased across NSW due to dust from the widespread, intense drought and smoke from bushfires and hazard reduction burning (Office of Environment and Heritage [OEH], 2019). The DPHI subsequently concluded, from *Annual Air Quality Statement 2019*, that air quality in NSW was greatly affected by the continuing intense drought conditions and unprecedented extensive bushfires during 2019. In addition, the continued “intense drought has led to an increase in widespread dust events throughout the year” (Department of Planning & Environment [DPE], 2020).

The influence of drought conditions on air quality is also evident in the DPHI’s monitoring data. **Figure 10** shows the rolling annual average PM<sub>10</sub> concentrations from data collected at various rural and urban air quality monitoring sites since 2011. These data clearly show a consistent increase in PM<sub>10</sub> concentrations at all rural and urban locations from 2017 onwards, reflecting the onset of drought conditions, and the widespread bushfire events along the NSW and Victorian east coast from September 2019 to March 2020. The rolling annual average PM<sub>10</sub> concentrations decreased rapidly from 2020 to 2022 as rainfall increased. Concentrations in 2023 again increased as rainfall was lower than the long-term average.



**Figure 10 Rolling Annual Average PM<sub>10</sub> Concentrations at Various NSW Air Quality Monitoring Sites**

The use of years with elevated air quality levels, largely driven by extraordinary events or extreme climatic conditions (or both), are avoided in modelling studies primarily because they do not address the definition of representative. In addition, extraordinary events cannot be reliably simulated in air dispersion models as it is not possible to identify all possible factors that led to these events, for example, the factors that influence the time, location, and intensity of bushfires. This context has been considered in the analysis below.

#### 4.3.2 Particulate Matter (as PM<sub>10</sub>)

CHPL monitors PM<sub>10</sub> at four locations (see **Figure 9**). Between April and June 2022 the monitoring equipment was upgraded from Tapered Element Oscillating Microbalance (TEOMs) to Beta Attenuation Monitor (BAMs) to allow for the additional collection of PM<sub>2.5</sub>. **Table 6** provides a summary of the measured PM<sub>10</sub> data. These data will include contributions from all sources of particulate matter that were upwind of each monitor at some stage in the monitoring periods. Compliance against PA 06\_0295 and EPL 5590 is currently evaluated by CHPL at AQ002, AQ026, AQ021 and AQ014.

**Table 6** shows that the maximum 24-hour average PM<sub>10</sub> concentrations increased in 2019-20 from those levels recorded in 2018-19. This change coincided with drought conditions and lower-than-average rainfall. The DPHI noted these as extraordinary events (DPE, 2020) and not typical air quality conditions. These conditions led to increases in the number of days over the 2018-19 and 2019-20 periods when the 24-hour average PM<sub>10</sub> concentration exceeded 50 µg/m<sup>3</sup>. The increases in PM<sub>10</sub> concentrations were observed across many locations in NSW and were not unique to the Central Tablelands. Concentrations decreased from mid-2020, coinciding with increased rainfall.

**Table 6 Summary of Measured PM<sub>10</sub> Concentrations around Cadia**

Financial year (Jul-Jun)	TEOM 1 (Bundarra)	TEOM 2 (Flyers Ck)	TEOM 3 (Triangle Flat)	TEOM 4 (Meribah)	AQ002 / BAM 1 (Bundarra) <sup>a</sup>	AQ026 / BAM 2 (Woodville) <sup>b</sup>	AQ021 / BAM 3 (Triangle Flat)	AQ014 / BAM 4 (Meribah)	Criteria (EPA / PA*)
<b>Maximum 24-hour average (µg/m<sup>3</sup>)</b>									
2018-19	293	276	268	299	-	-	-	-	50 / 50
2019-20	373	394	331	315	-	-	-	-	50 / 50
2020-21	42	35	37	47	-	-	-	-	50 / 50
2021-22	34	32	34	74 <sup>c</sup>	26	27	21	42	50 / 50**
2022-23	-	-	-	48	27	59 <sup>d</sup>	39	38	50 / 50**
2023-24	-	-	-	-	21	26	22	39	50 / 50**
2024-25	-	-	-	-	53	36	41	37	50 / 50**
<b>Annual average (µg/m<sup>3</sup>)</b>									
2018-19	25	20	19	21	-	-	-	-	25 / 30
2019-20	28	19	18	22	-	-	-	-	25 / 30
2020-21	14	12	10	13	-	-	-	-	25 / 30
2021-22	10	10	9	11	8	9	7	7	25 / 25
2022-23	-	-	-	11	10	10	8	9	25 / 25
2023-24	-	-	-	-	10	8	9	11	25 / 25
2024-25	-	-	-	-	12	9	10	11	25 / 25

**Notes:**

The concurrent TEOM and BAM data covered slightly different monitoring periods/portions of the year so the results will not be the same.

\* PA = Project Approval 06\_0295.

\*\* incremental impact.

<sup>a</sup> monitoring commenced 1 April 2022.

<sup>b</sup> monitoring commenced 1 June 2022.

<sup>c</sup> Elevated concentration on 29/10/21. Winds were from the southwest on this day and not from the direction of Cadia.

<sup>d</sup> Annual Review suggested contributions from activities and/or pollens from the state forest.

**Appendix B** provides the plots of the spatial trends in PM<sub>10</sub> concentrations.

### 4.3.3 Particulate Matter (as PM<sub>2.5</sub>)

Monitoring of PM<sub>2.5</sub> around Cadia commenced in 2022. **Table 7** provides a summary of the PM<sub>2.5</sub> data. Concentrations of PM<sub>2.5</sub> near Cadia have not exceeded the EPA impact assessment criteria over this period.

**Table 7 Summary of Measured PM<sub>2.5</sub> Concentrations around Cadia**

Financial year (Jul-Jun)	AQ002 / BAM 1 (Bundarra) <sup>a</sup>	AQ026 / BAM 2 (Woodville) <sup>b</sup>	AQ021 / BAM 3 (Triangle Flat)	AQ014 / BAM 4 (Meribah)	Criteria (EPA / PA*)
Maximum 24-hour average (µg/m <sup>3</sup> )					
2021-22	13.2	12.3	13.9	15.9	25 / 25**
2022-23	10.9	18.2	14.1	17.4	25 / 25**
2023-24	10.3	9.4	7.8	10.5	25 / 25**
2024-25	24.1	14.3	12.8	11.0	25 / 25**
Annual average (µg/m <sup>3</sup> )					
2021-22	2.8	5.4	3.1	3.3	8 / 8
2022-23	3.5	5.1	3.4	4.2	8 / 8
2023-24	4.1	4.0	3.0	3.9	8 / 8
2024-25	3.7	2.9	2.6	2.5	8 / 8

**Notes:**

\* PA = Project Approval 06\_0295.

\*\* incremental impact.

<sup>a</sup> monitoring commenced 1 April 2022.

<sup>b</sup> monitoring commenced 1 June 2022.

**Appendix B** provides the plots of the spatial trends in PM<sub>2.5</sub> concentrations. Monitoring by the Australian Nuclear Science and Technology Organisation (ANSTO) (2023) also included the measurement of PM<sub>2.5</sub> however these data were not used for establishing background levels as the data were not continuous (i.e. two samples per week), did not cover the full modelling period, and did not include concurrent PM<sub>10</sub> data.

### 4.3.4 Particulate Matter (as TSP)

CHPL has historically estimated TSP from the PM<sub>10</sub> results by assuming 39% of the TSP is PM<sub>10</sub>, based on historical site-specific measurements. This assumption was similar to that derived by the NSW Minerals Council (2000) which estimated that, for rural environments in NSW, the average PM<sub>10</sub> concentrations are typically 40% of the TSP concentrations, a value commonly adopted for air quality monitoring in NSW. For this assessment it has been assumed (conservatively) that PM<sub>10</sub> concentrations would be 39% of the TSP concentrations. CHPL installed and commissioned a network of high-volume air samplers in 2024, co-located with the BAM instrumentation, which now directly measure TSP concentrations at Bundarra, Triangle Flat and Meribah. Monitoring of TSP at Woodville commenced in January 2025.

**Table 8** shows the estimated annual average TSP concentrations at the PM<sub>10</sub> monitoring locations for data collected between July 2018 and June 2025. The estimated annual average TSP concentrations are unlikely to have exceeded the EPA impact assessment criterion or criteria contained in PA 06\_0295, with the estimates given in **Table 8** all generally well below the annual average criterion of 90 µg/m<sup>3</sup>.

**Table 8 Summary of Estimated TSP Concentrations around Cadia**

Financial year (Jul-Jun)	AQ002 / BAM 1 (Bundarra)	AQ026 / BAM 2 (Woodville)	AQ021 / BAM 3 (Triangle Flat)	AQ014 / BAM 4 (Meribah)	Criteria (EPA / PA*)
Annual average ( $\mu\text{g}/\text{m}^3$ )					
2018-19	64	51	48	53	90 / 90
2019-20	73	50	47	58	90 / 90
2020-21	36	32	26	32	90 / 90
2021-22	26	27	22	27	90 / 90
2022-23	25	25	20	23	90 / 90
2023-24	25	20	23	28	90 / 90
2024-25	30	23	26	29	90 / 90

Note:

\* PA = Project Approval 06\_0295.

#### 4.3.5 Deposited Dust

Deposited dust is monitored at eight locations around Cadia (**Figure 9**). **Table 9** shows the measured annual average deposited dust levels. There have been periods when deposited dust levels exceeded  $4 \text{ g}/\text{m}^2/\text{month}$ . These periods coincided with drought conditions (2019 to 2020), or contamination (including bird droppings) in the case of AQ010 in 2021-22. Investigations conducted as part of Annual Reviews submitted under PA 06\_0295 found that Cadia had complied with the criteria in PA 06\_0295.

**Table 9 Summary of Measured Deposited Dust around Cadia**

Financial year (Jul-Jun)	AQ006	AQ010	AQ043	AQ007	AQ001	AQ024	AQ019	AQ016	Criteria (EPA / PA*)
Annual average ( $\text{g}/\text{m}^2/\text{month}$ )									
2018-19	2.5	2.9	2.7	3.0	3.3	4.6	2.0	2.8	4 / 4
2019-20	5.3	4.7	4.1	4.8	5.1	3.7	3.7	6.0	4 / 4
2020-21	2.7	4.2	1.9	1.9	1.1	1.8	1.7	1.9	4 / 4
2021-22	2.0	12.1	1.6	1.4	1.0	2.8	1.1	1.2	4 / 4
2022-23	1.6	3.8	1.5	1.2	0.7	1.8	1.2	1.1	4 / 4
2023-24	1.8	3.6	2.2	1.5	1.1	2.9	2.6	1.3	4 / 4
2024-25	2.5	2.4	1.0	0.9	0.6	NA	0.5	1.1	4 / 4

Note:

\* PA = Project Approval 06\_0295.

**Appendix B** provides the plots of the spatial trends in deposited dust levels.

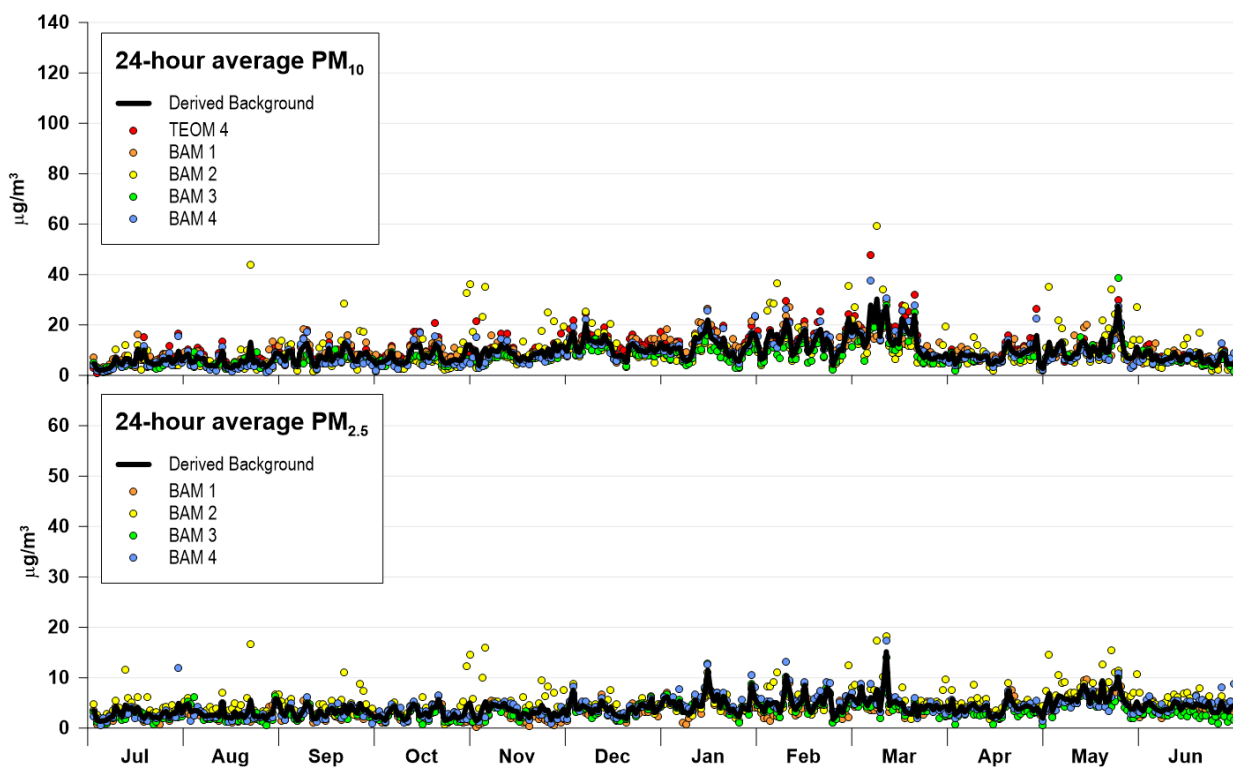
## 4.4 Background Levels

One of the objectives for reviewing the air quality monitoring data was to determine appropriate background levels to be added to modelled Cadia contributions for the assessment of potential cumulative impacts between Cadia and other sources of key air quality indicators. For this objective, it was important to identify the monitoring stations that are sufficiently close to the area of interest but not adversely influenced by those sources which are being modelled, such as Cadia. **Table 10** shows the assumed background levels that would apply at sensitive receptors near Cadia. These levels have been added to modelled Cadia contributions to determine the potential cumulative impacts.

**Table 10 Assumed Background Levels that Apply at Sensitive Receptors**

Air quality indicator	Averaging time	Assumed background level	Notes
Particulate matter (PM <sub>10</sub> )	24-hour	Variable by day (Figure 11)	Derived from Cadia measurements in 2022-23, see below. Maximum = 30.3 µg/m <sup>3</sup>
	Annual	9.3 µg/m <sup>3</sup> (Figure 11)	Derived from Cadia measurements in 2022-23, see below.
Particulate matter (PM <sub>2.5</sub> )	24-hour	Variable by day (Figure 11)	Derived from Cadia measurements in 2022-23, see below. Maximum = 15.2 µg/m <sup>3</sup>
	Annual	4.0 µg/m <sup>3</sup> (Figure 11)	Derived from Cadia measurements in 2022-23, see below.
Particulate matter (TSP)	Annual	23 µg/m <sup>3</sup>	Average of all Cadia measurements in 2022-23.
Deposited dust	Annual	1.6 g/m <sup>2</sup> /month	Average of all Cadia measurements in 2022-23.
Nitrogen dioxide (NO <sub>2</sub> )	1-hour	Variable NO <sub>x</sub> by hour of day	Concurrent hourly average NO <sub>x</sub> from Goulburn in 2022-23.
	Annual	Variable NO <sub>x</sub> by hour of day	Concurrent hourly average NO <sub>x</sub> from Goulburn in 2022-23.

For PM<sub>10</sub> and PM<sub>2.5</sub>, daily variable background concentration datasets were derived by adopting the average of all measured (non-zero) PM<sub>10</sub> and PM<sub>2.5</sub> concentrations in the Cadia monitoring network. **Figure 11** shows a graphical representation of the assumed background PM<sub>10</sub> and PM<sub>2.5</sub> concentrations that were used in this assessment and added to the model results. As can be seen from **Figure 11**, these background concentrations have been inferred from the measurement data. This approach recognises that the monitored levels may contain some contribution from existing activities at Cadia, and it will also be seen later (**Section 6**) that this methodology leads to conservative results. The statistics from the resultant datasets are included in **Table 10**.



**Figure 11 Background PM<sub>10</sub> and PM<sub>2.5</sub> Concentrations as Inferred from the Measurement Data**

## 5 Assessment Methodology

This assessment has followed the procedures outlined in the Approved Methods. The Approved Methods include guidelines for the preparation of meteorological data, reporting requirements and air quality impact assessment criteria to assess the significance of the modelled impacts.

Construction and operational dust has been quantified by modelling. The choice of model has considered the expected transport distances for the emissions, as well as the potential for temporally and spatially varying flow fields due to influences of the locally complex terrain, non-uniform land use, and potential for stagnation conditions characterised by calm or very low wind speeds with variable wind directions. The CALPUFF model was selected for this purpose. This model is listed in the Approved Methods and has been used to predict ground-level particulate matter concentrations and deposition levels due to Cadia and other sources. Concentrations and deposition levels have been simulated for every hour of the representative year and results at the surrounding private dwellings have then been compared to the relevant air quality impact assessment criteria.

Figure 12 shows an overview of the model inputs and outputs. Appendix B provides details of all model settings.

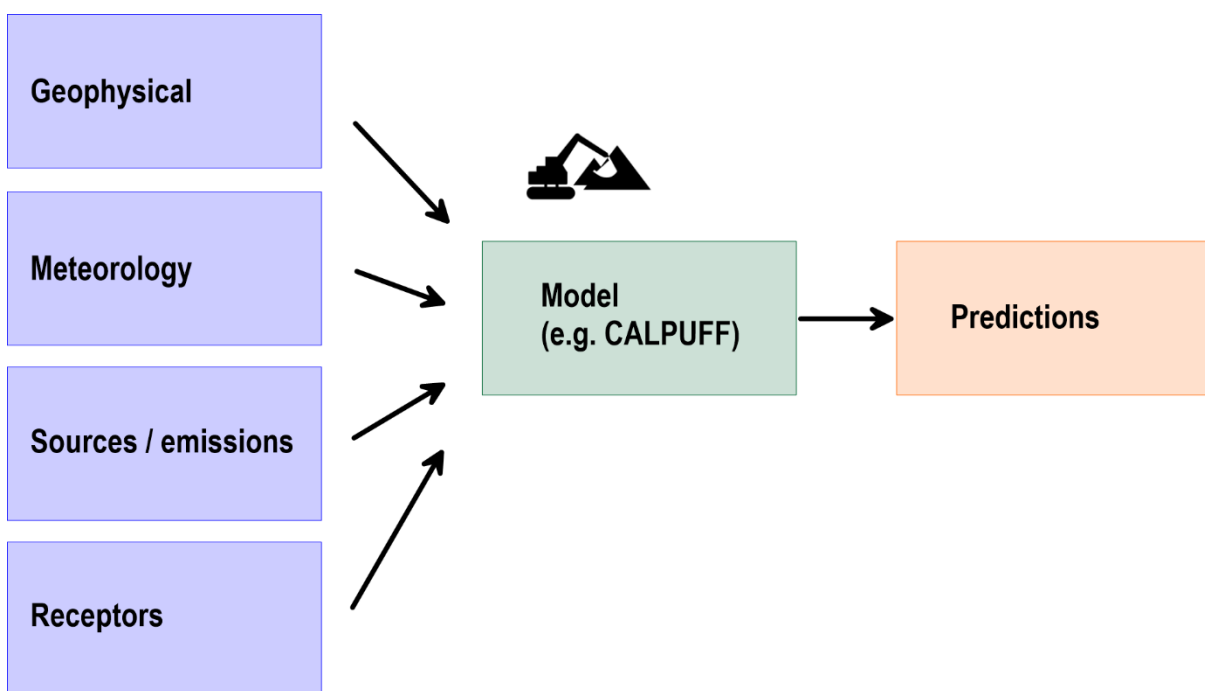


Figure 12 Overview of Model Inputs and Outputs

Dust (particulate matter) is the dominant emission to air from Cadia and estimates of dust emissions are required by the dispersion model. Total dust emissions have been estimated for the proposed activities using the material handling schedule (including topsoil), equipment numbers, and site layout plans combined with emission factors from:

- *Emission Estimation Technique Manual for Mining* (National Pollutant Inventory [NPI], 2012); and
- *Compilation of Air Pollutant Emission Factors (AP-42)* (United States Environmental Protection Agency [US EPA] 1985 and updates).

The proposed schedule of activities and material movements has been used to identify assessment scenarios in terms of the potential air quality impacts of Modification 16. Table 11 shows the indicative construction and operational schedule for Modification 16. Construction would include the development of the rock platform extension (which is approved via Modification 15) and associated profiling. This would be followed by construction of the underdrainage. Coarse sand tailings placement is expected to occur midway through the underdrainage construction and would occur for two (2) to three (3) years.

**Table 11 Indicative Construction and Operational Schedule for Modification 16**

Activities	Indicative period	Month												
		1	2	3	4	5	6	7	8	9	10	11	12	13-24
<b>Construction phase</b>														
Rock platform extension and profiling activities	6 months	X	X	X	X	X	X							
Underdrainage activities	9 months				X	X	X	X	X	X	X	X	X	
<b>Operational phase</b>														
Recovered sand tailings placement	2 years							X	X	X	X	X	X	X

Notes: The rock platform is approved via Modification 15.

Three assessment scenarios have been developed from the information in **Table 11**:

- “Construction”, representing the period of constructing the rock platform and underdrainage;
- “Construction and operation”, representing the concurrent construction of the underdrainage with commencement of coarse sand tailings placement; and
- “Operation”, representing the coarse sand tailings placement only (buttress and emplacements/stockpiles).

A scenario for a historical year (2022-23) was also developed to evaluate the performance of the model.

**Table 12** summarises the estimated annual TSP, PM<sub>10</sub> and PM<sub>2.5</sub> emissions, respectively, due to Cadia with Modification 16. It was assumed that Cadia would process the maximum rate of 35 Mtpa of ore. An alternative approach to calculating emissions from haul roads (based on vehicle mass and an assumed road silt content as per NPI [2012]) was also tested. This alternative approach yielded lower emission estimates than those presented in **Table 12** so the more conservative (i.e. higher emissions by about 7% for PM<sub>10</sub>) approach was adopted. The estimated emissions for Cadia with Modification 16 include all emission controls proposed for Modification 16.

It should be noted that the main intent of the inventory was to capture the dominant emission sources that may affect off-site air quality. Not every source will be captured. However, the contribution of emissions from sources not identified will be captured in the air quality monitoring data and these data have been added to the predicted site contributions. Full details on the emission calculations, including assumptions, emission controls and allocation of emissions to modelled locations are provided in **Appendix D**.

**Table 12** also shows the percentages of TSP, PM<sub>10</sub> and PM<sub>2.5</sub> emissions, respectively, when compared to the estimations associated with Modification 15. The only difference in the estimated dust emissions relates to TSF construction activities, which results in maximum 2% increase in dust emissions.

**Table 12 Estimated Dust Emissions from Modification 16 Construction and Operational Activities**

Activity	Estimated annual dust emissions (kilograms per year)											
	Modification 15			Modification 16 Construction			Modification 16 Construction and Operation			Modification 16 Operation		
	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
Existing mill and surface activities	1,909,332	905,682	137,586	1,909,332	905,682	137,586	1,909,332	905,682	137,586	1,909,332	905,682	137,586
Ventilation shaft emissions	3,103,576	1,882,330	510,092	3,103,576	1,882,330	510,092	3,103,576	1,882,330	510,092	3,103,576	1,882,330	510,092
TSF Construction	1,467,452	550,107	82,469	<b>1,598,772</b>	<b>624,609</b>	<b>92,410</b>	<b>1,675,617</b>	<b>658,008</b>	<b>98,875</b>	<b>1,596,820</b>	<b>617,724</b>	<b>93,669</b>
Recovered sands demonstration embankment	112,649	28,140	11,705	112,649	28,140	11,705	-	-	-	-	-	-
Ridgeway	231,472	70,460	7,514	231,472	70,460	7,514	231,472	70,460	7,514	231,472	70,460	7,514
Belubula Pipeline	24,310	6,584	2,287	24,310	6,584	2,287	24,310	6,584	2,287	24,310	6,584	2,287
Panuaara Road	52,339	15,189	5,009	52,339	15,189	5,009	52,339	15,189	5,009	52,339	15,189	5,009
<b>Total</b>	<b>6,901,129</b>	<b>3,458,493</b>	<b>756,663</b>	<b>7,032,449</b>	<b>3,532,994</b>	<b>766,603</b>	<b>6,996,646</b>	<b>3,538,254</b>	<b>761,364</b>	<b>6,917,849</b>	<b>3,497,970</b>	<b>756,158</b>
<b>% to Modification 15 Estimations</b>	-	-	-	102%	102%	101%	101%	102%	101%	100%	101%	100%

CHPL has carried out wind tunnel studies to determine wind speed thresholds, surface erosion, and dust extinction moisture related to tailings. These studies (Tunra, 2024a and 2024b) consistently showed that the wind speed threshold of tailings (that is, the wind speed before lift-off occurs) is dependent on the composition. Any fine tailings, which will be placed within the impoundment area of the STSF (or potentially the Cadia Hill Pit TSF, which is less prone to wind erosion), have a lower wind speed threshold (in the order of 1 to 2 m/s) and coarse tailings (hydrocyclone sand) which will be used to construct the outer walls of the buttress typically have a higher wind speed threshold (in the order of 4 to 7 m/s). These results support the approach that has been adopted for the modelling, where emissions vary with hourly wind speed. It also means the modelling will likely over-estimate emissions in lighter winds as the coarse tailings will not be generating dust in these conditions. Further, it is noted that rock armouring would be installed over the recovered sand surface on the buttress, further reducing potential air quality emissions (this has conservatively not been included in the modelling).

Emissions from each volume source were developed on an hourly time step, taking into account the level of activity at that location and, for some activities, the hourly wind speed. This approach ensured that light winds corresponded with lower dust generation and higher winds, with higher dust generation. The modelling assumed that all activities would occur between hours prescribed for individual activities of the Cadia surface operations and Modification 16, except for wind erosion which was modelled assuming 24 hours per day.

Finally, the model results at each identified private dwelling were then compared with the EPA air quality impact assessment criteria, previously discussed in **Section 3**. Contour plots have also been created to show the spatial distribution of model results. **Section 6** provides the assessment.

## 6 Air Quality Assessment

This section provides an assessment of Modification 16 in terms of construction and operational dust, based on the methodology described in **Section 5**. Model results have been assessed for each of the key particulate matter classifications.

**Appendix E** provides an analysis of the model performance and shows that the adopted methodology produces results which are generally higher, but within a factor of two, of measured levels. This would indicate good model performance, according to the US EPA, and further supports an outcome that the model results presented below will likely be higher than those measured in the future.

**Appendix F** provides tabulated results at sensitive receptor locations for all relevant particulate matter classifications. Contour plots are presented and discussed below.

### 6.1 Particulate Matter (as PM<sub>10</sub>)

**Figure 13** shows the modelled maximum 24-hour average PM<sub>10</sub> concentrations due to Cadia with Modification 16 for each scenario. As noted in **Section 5**, the three assessment scenarios were selected to capture the potential worst-case air quality impacts which may arise during “Construction”, “Construction and Operation”, and “Operation”.

These results show that the maximum potential contributions of Cadia with Modification 16 would be in the order of 20 to 30 µg/m<sup>3</sup> at private dwellings for all scenarios. The results do not show the pattern of concentrations on any one day. Rather they show the maximum daily concentrations that have been predicted at all locations over the course of a year. The EPA does not prescribe an incremental criterion for 24-hour average PM<sub>10</sub>, so it is necessary to also consider the contributions from other sources of PM<sub>10</sub>.

**Figure 14** shows the modelled maximum 24-hour average PM<sub>10</sub> concentrations due to Cadia with Modification 16 including contributions from other sources, represented by background levels as detailed in **Section 4.4**. These results can be compared to the EPA impact assessment criterion for maximum 24-hour average PM<sub>10</sub> (50 µg/m<sup>3</sup>). The results show compliance with the EPA impact assessment criterion (50 µg/m<sup>3</sup>) at all private dwellings for all scenarios.

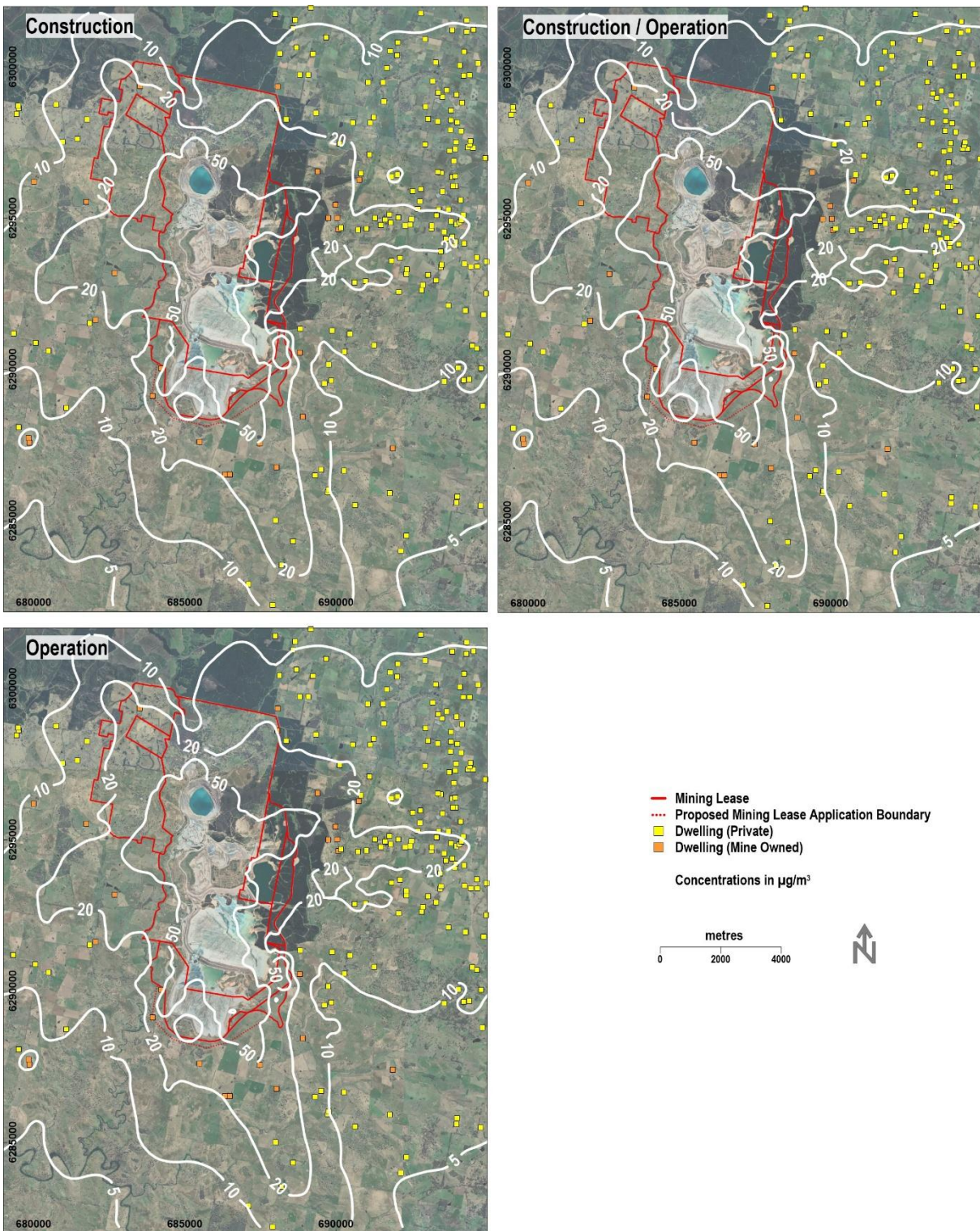


Figure 13 Modelled Maximum 24-hour Average  $\text{PM}_{10}$  Concentrations due to Cadia with Modification 16

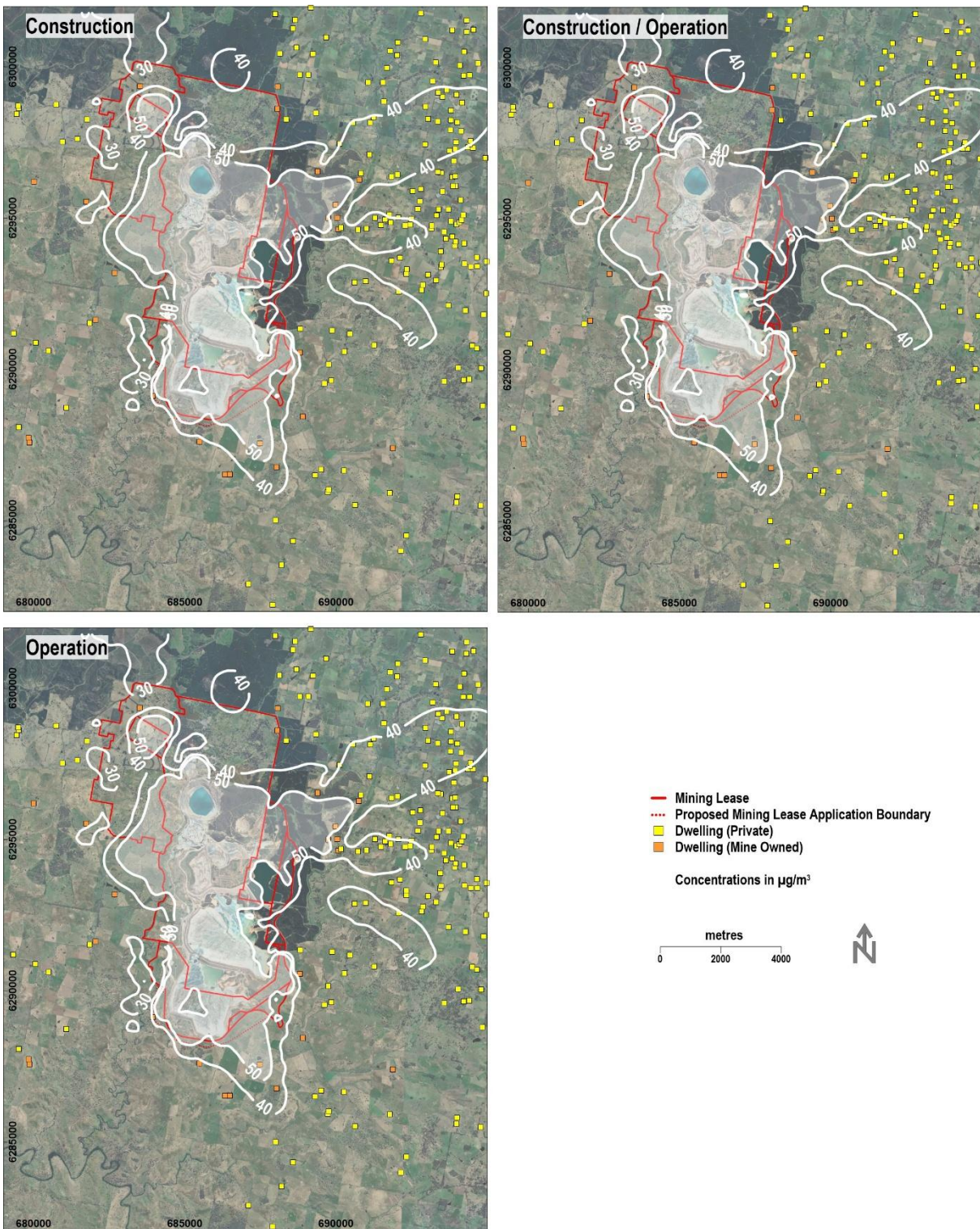


Figure 14 Modelled Maximum 24-hour Average PM<sub>10</sub> Concentrations due to Cadia with Modification 16 and Other Sources

Figure 15 shows the modelled annual average PM<sub>10</sub> concentrations due to Cadia with Modification 16, and Figure 16 shows the results including contributions from other sources. These results have been assessed against the EPA annual average PM<sub>10</sub> criterion (25 µg/m<sup>3</sup>). The results (Figure 16) show compliance with the EPA impact assessment criterion (25 µg/m<sup>3</sup>) at all private dwellings, with the 25 µg/m<sup>3</sup> contour mostly contained within the mine lease boundary in all scenarios.

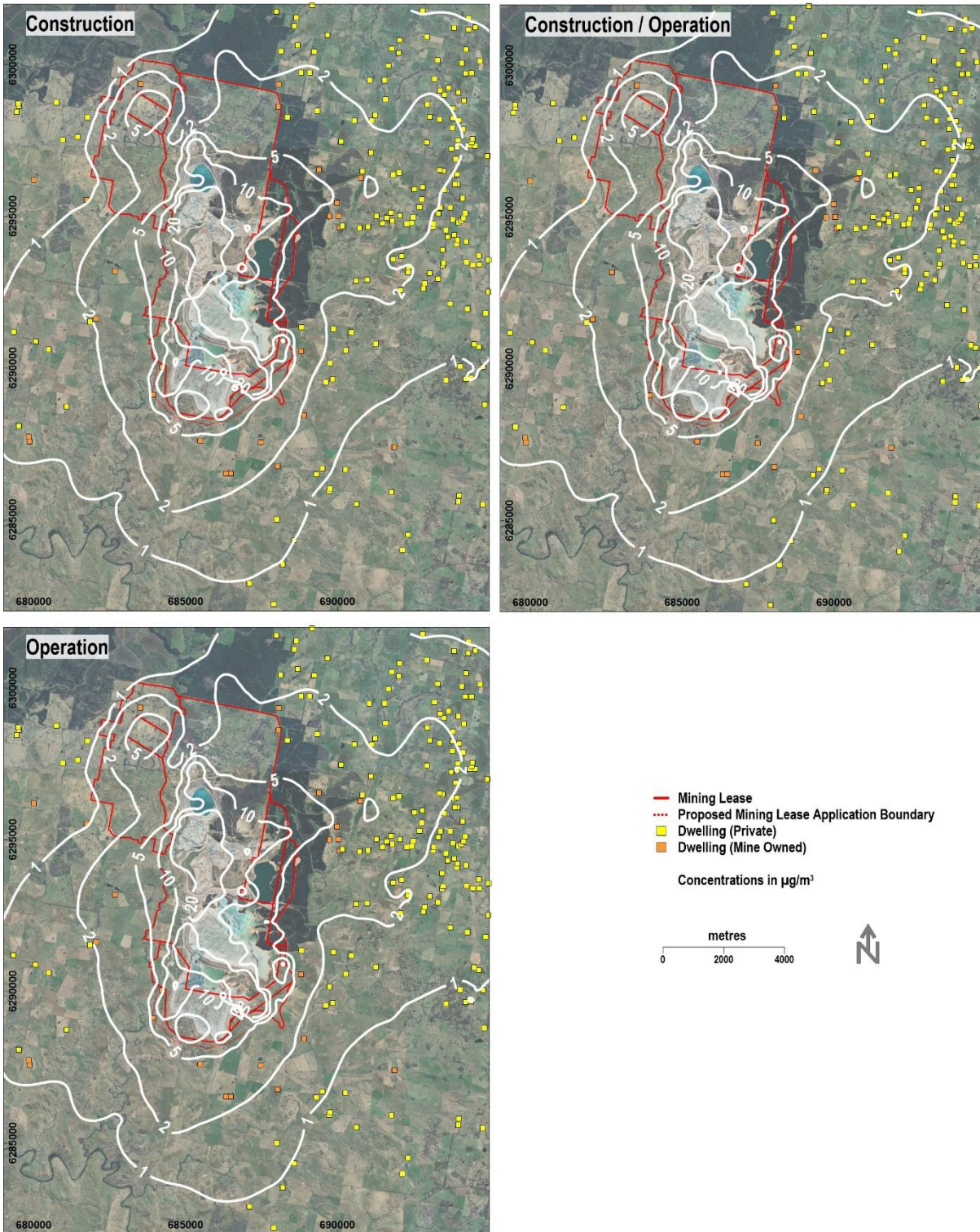


Figure 15 Modelled Annual Average PM<sub>10</sub> Concentrations due to Cadia with Modification 16

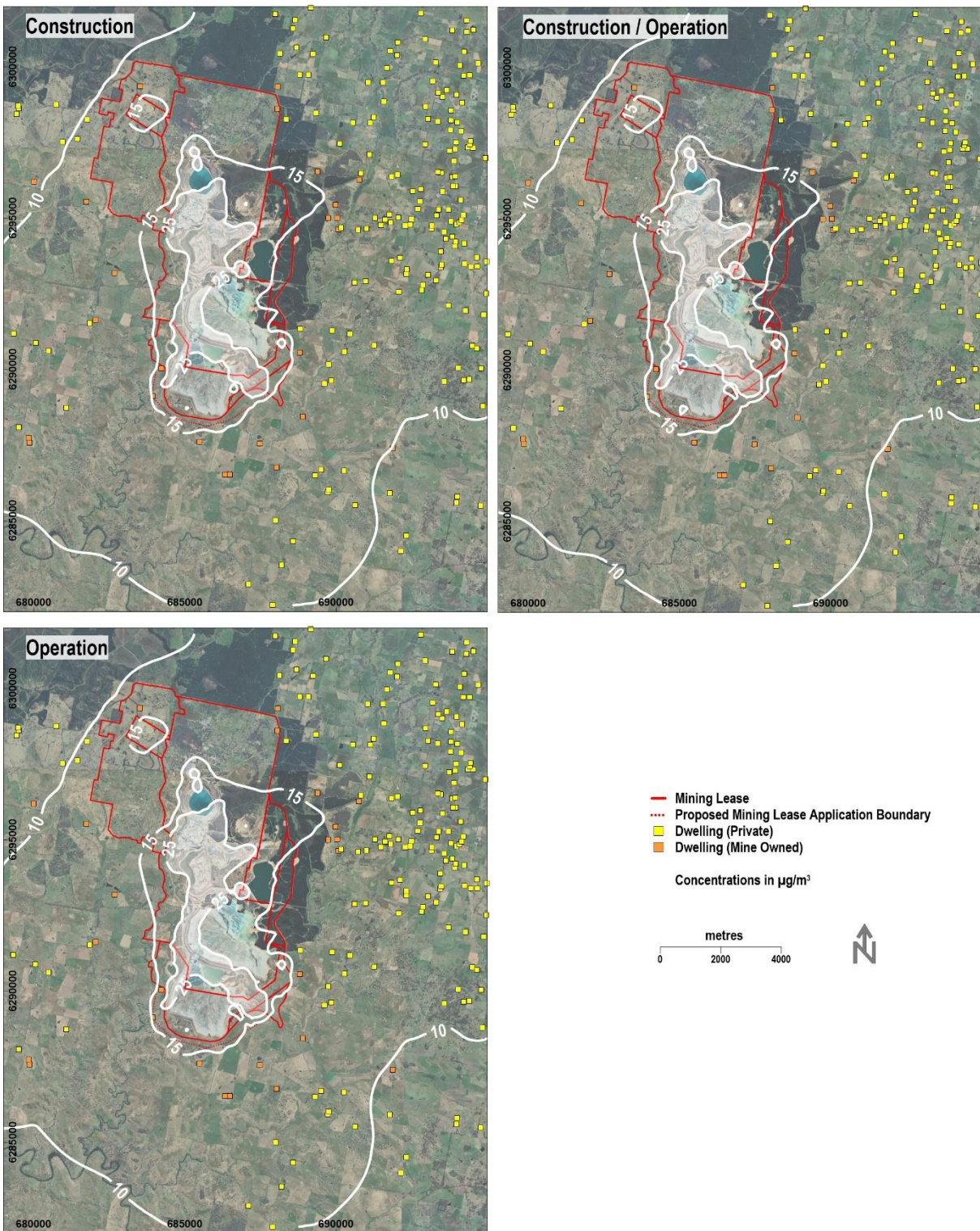


Figure 16 Modelled Annual Average PM<sub>10</sub> Concentrations due to Cadia with Modification 16 and Other Sources

## 6.2 Particulate Matter (as PM<sub>2.5</sub>)

Figure 17 shows the modelled maximum 24-hour average PM<sub>2.5</sub> concentrations due to Cadia with Modification 16. These results show that the maximum potential contributions of Cadia with Modification 16 would be in the order of 5 to 10 µg/m<sup>3</sup> at private dwellings.

Figure 18 shows the modelled maximum 24-hour average PM<sub>2.5</sub> concentrations due to Cadia with Modification 16 including contributions from other sources. The results show that Modification 16 would not cause an exceedance of the EPA impact assessment criterion (25 µg/m<sup>3</sup>) at any private dwelling, with the 25 µg/m<sup>3</sup> contour mostly contained within the mine lease boundary.

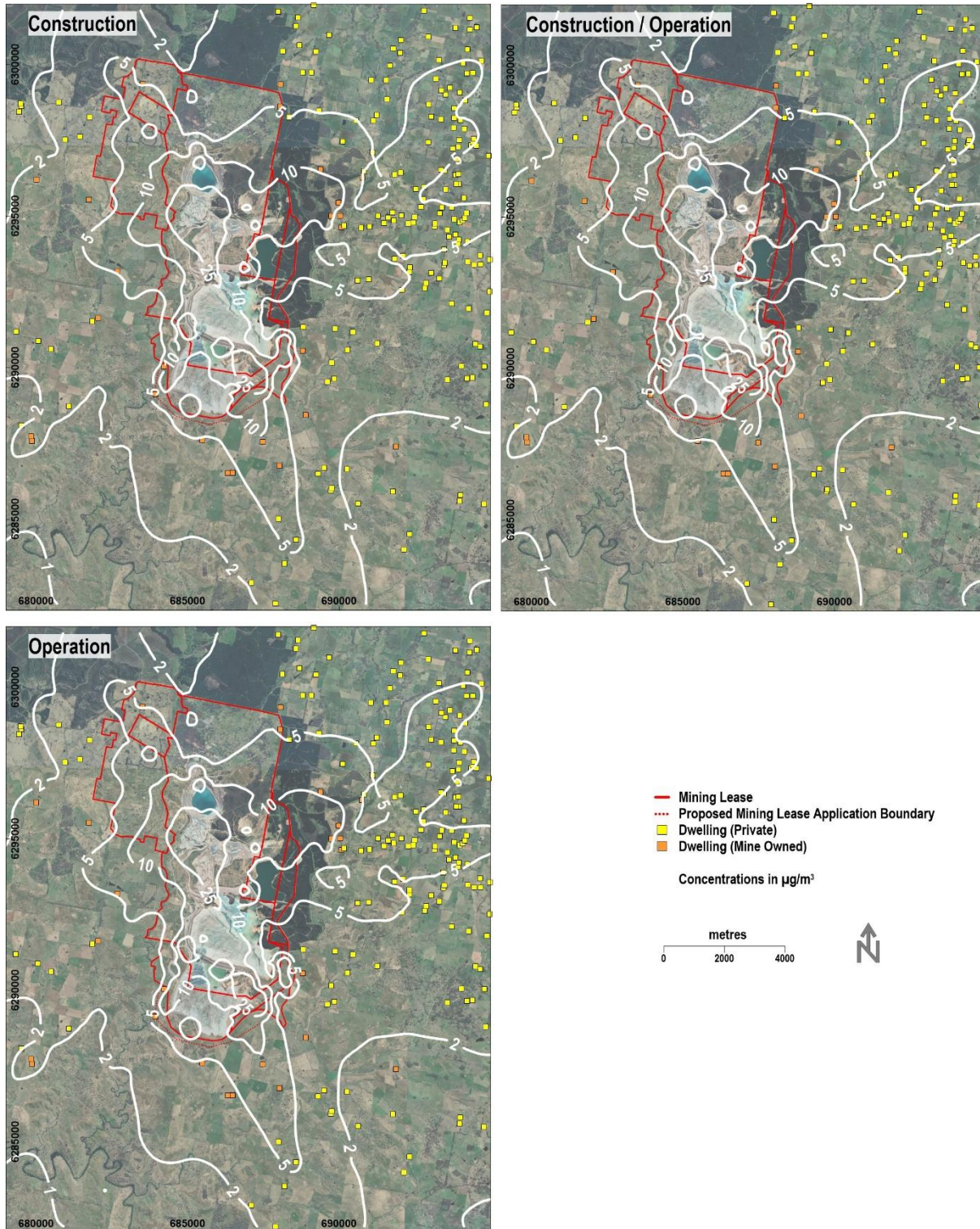


Figure 17 Modelled Maximum 24-hour Average PM<sub>2.5</sub> Concentrations due to Cadia with Modification 16

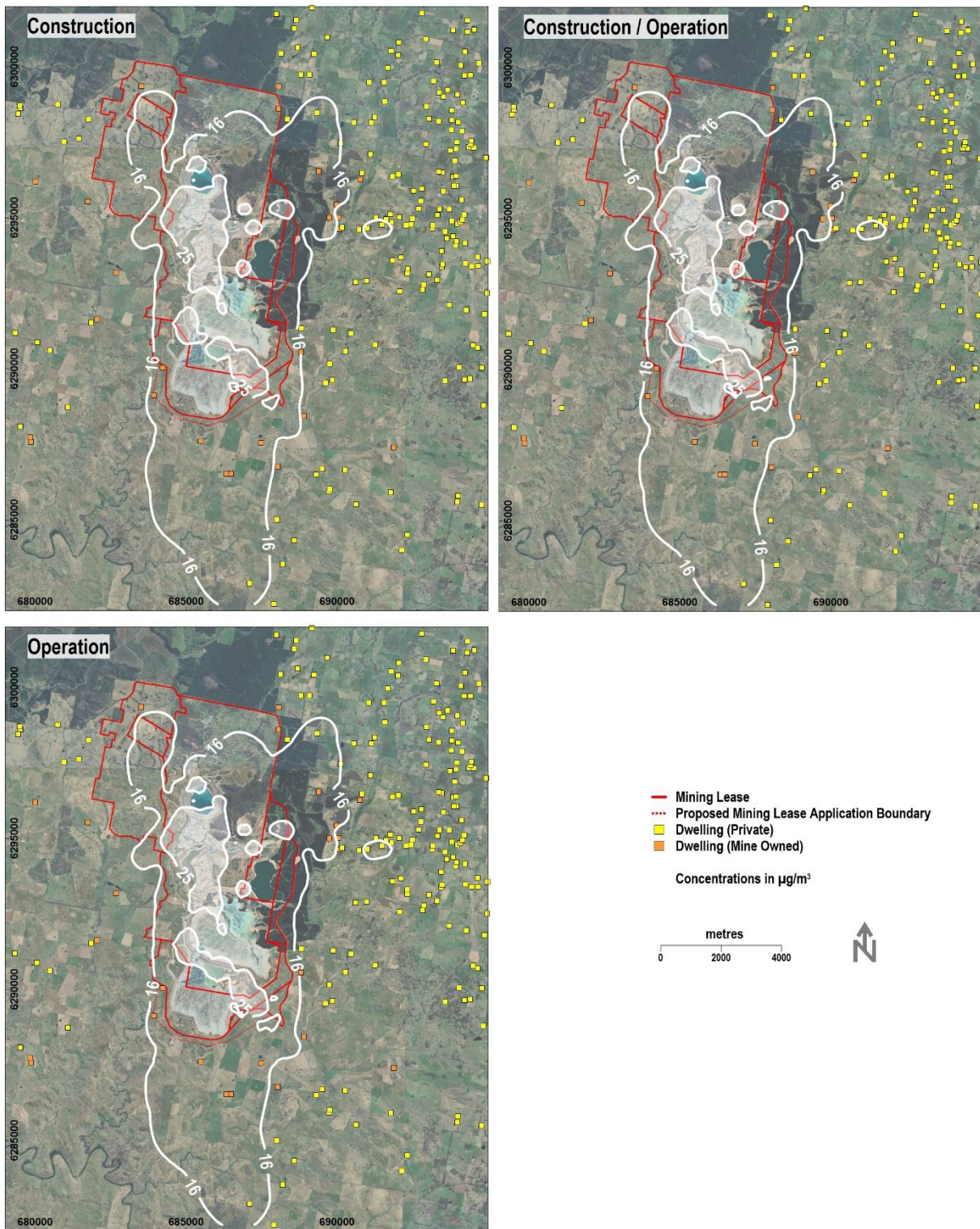
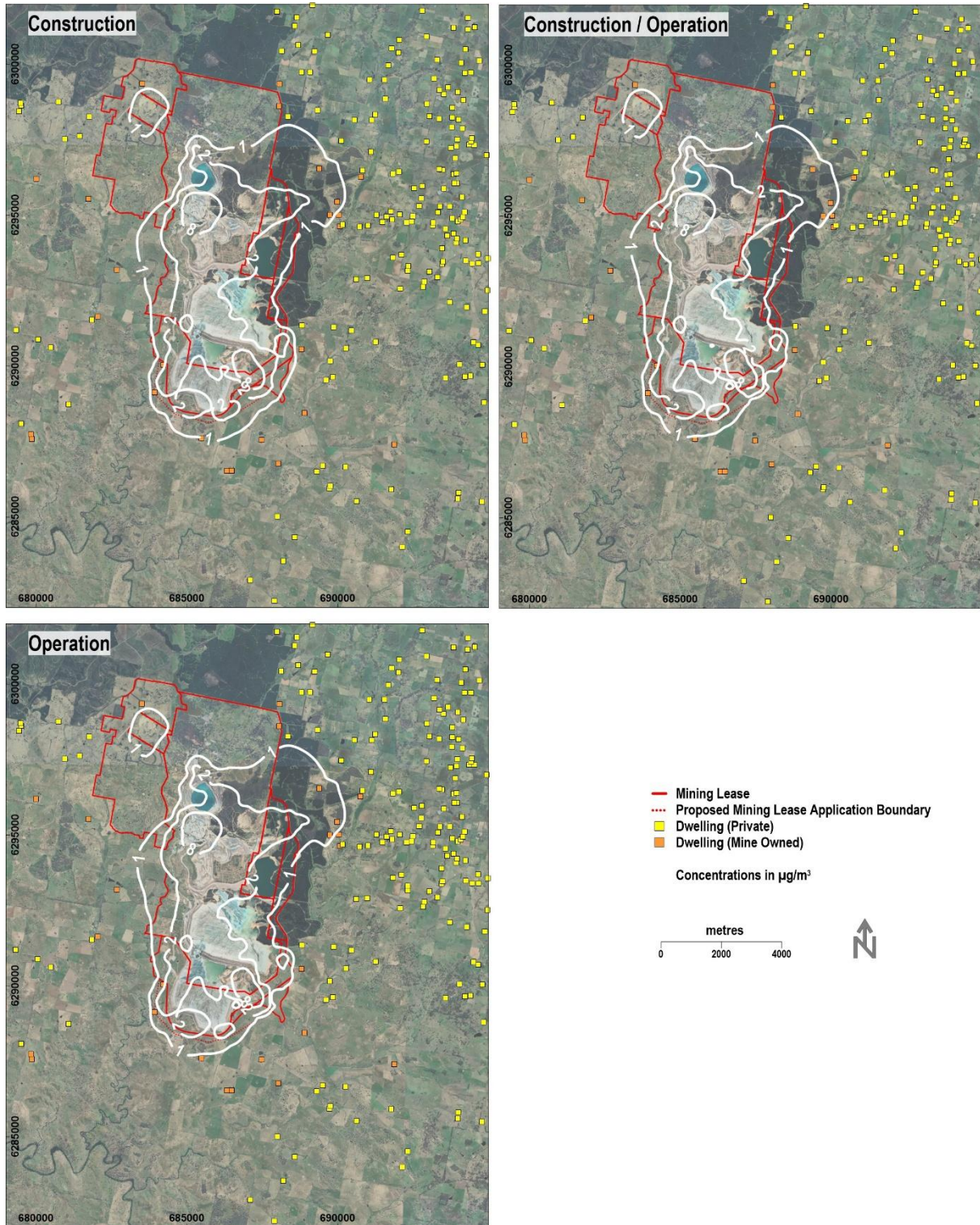


Figure 18 Modelled Maximum 24-hour Average PM<sub>2.5</sub> Concentrations due to Cadia with Modification 16 and Other Sources

**Figure 19** shows the modelled annual average PM<sub>2.5</sub> concentrations due to Cadia with Modification 16, and **Figure 20** shows the results including contributions from other sources. These results have been assessed against the EPA annual average PM<sub>2.5</sub> criterion (8 µg/m<sup>3</sup>). The results (**Figure 20**) show compliance with the EPA impact assessment criterion (8 µg/m<sup>3</sup>) at all private dwellings, with the 8 µg/m<sup>3</sup> contour mostly contained within the mine lease boundary in all scenarios.



**Figure 19** Modelled Annual Average PM<sub>2.5</sub> Concentrations due to Cadia with Modification 16

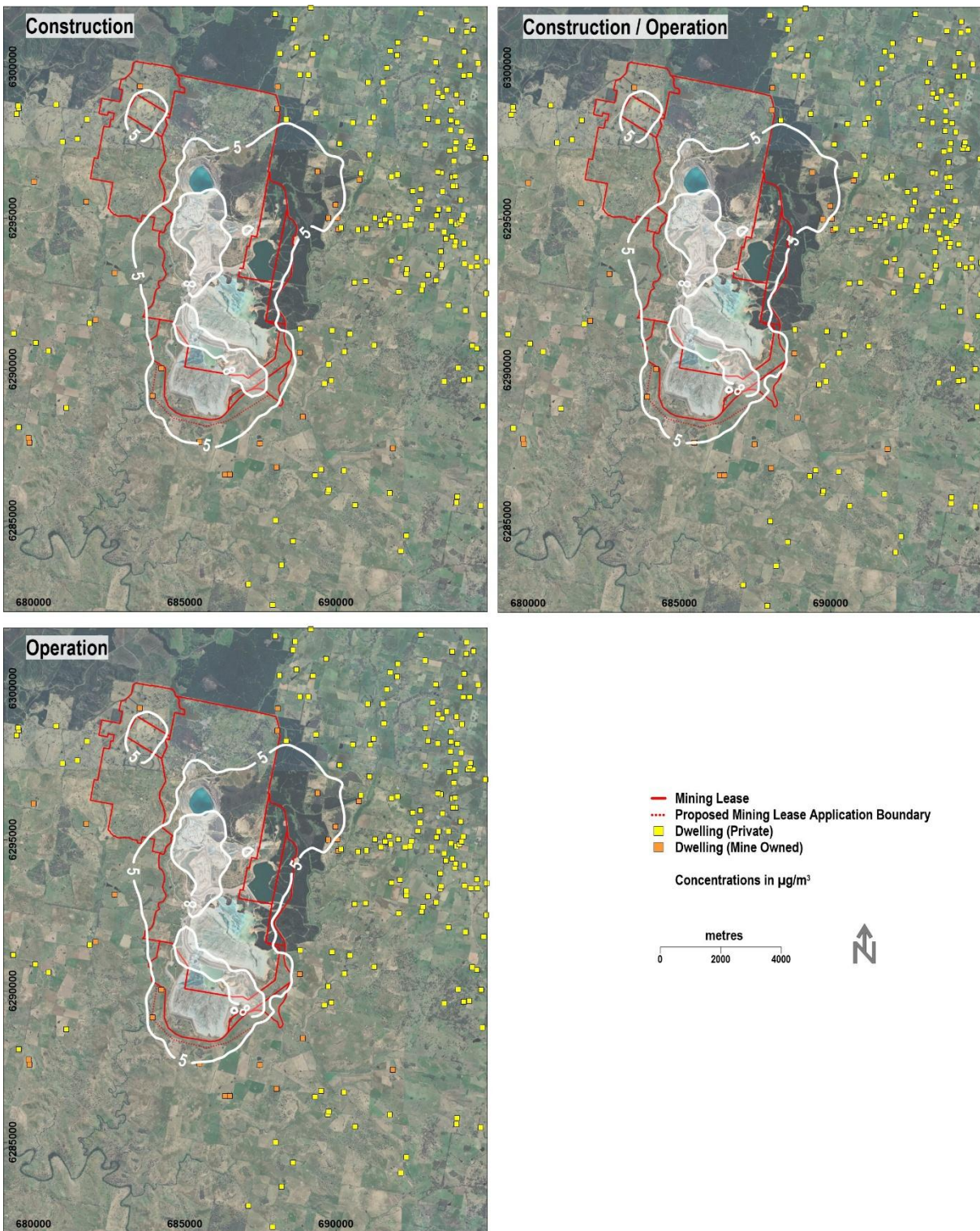


Figure 20 Modelled Annual Average  $\text{PM}_{2.5}$  Concentrations due to Cadia with Modification 16 and Other Sources

### 6.3 Particulate Matter (as TSP)

Figure 21 shows the modelled annual average TSP concentrations due to Cadia with Modification 16, and Figure 22 shows the results including contributions from other sources. These results have been assessed against the EPA annual average TSP criterion (90  $\mu\text{g}/\text{m}^3$ ). The results (Figure 22) show compliance with the EPA impact assessment criterion (90  $\mu\text{g}/\text{m}^3$ ) at all private dwellings, with around 50  $\mu\text{g}/\text{m}^3$  being the maximum concentration within the mine lease boundary in all scenarios.

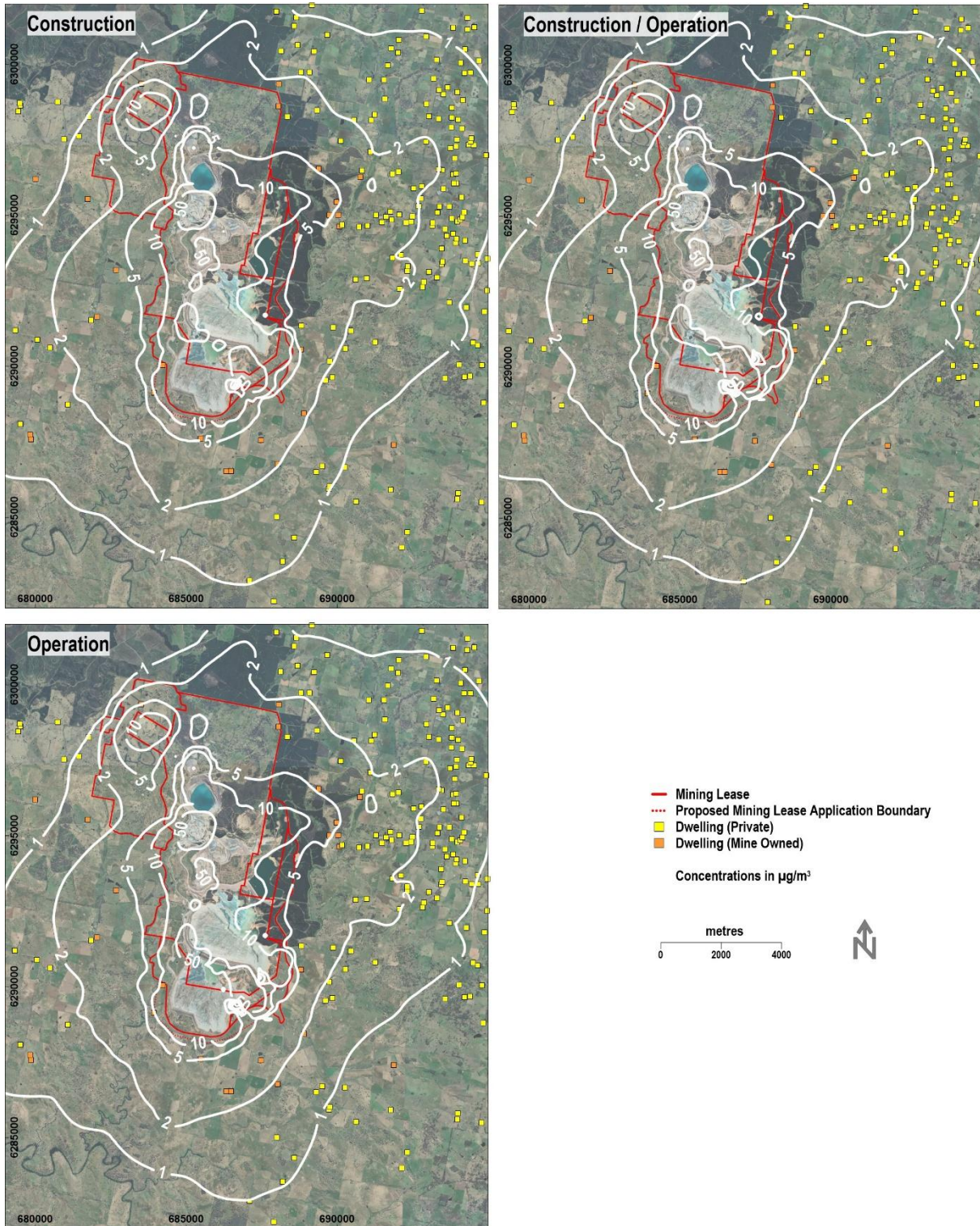


Figure 21 Modelled Annual Average TSP concentrations due to Cadia with Modification 16

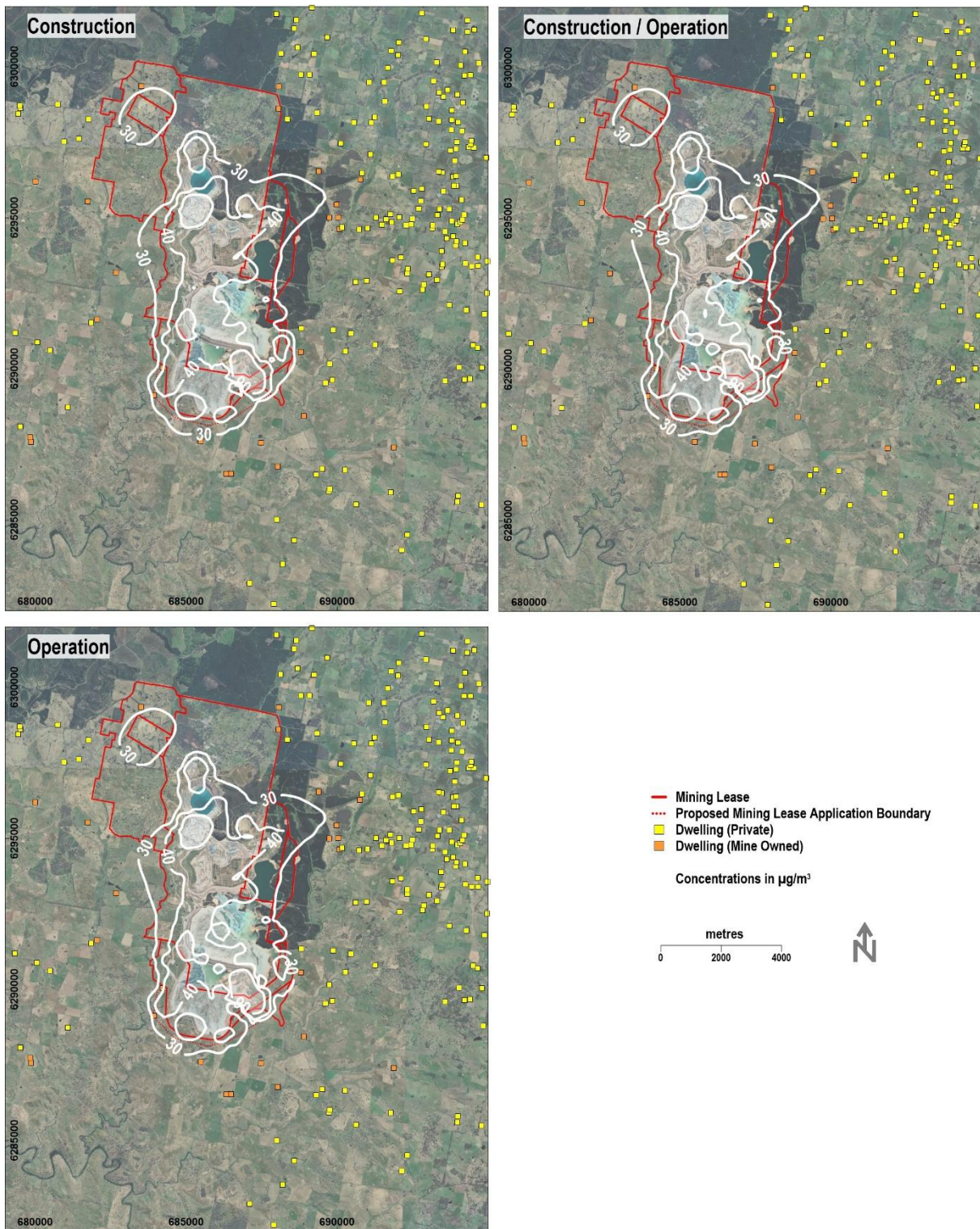
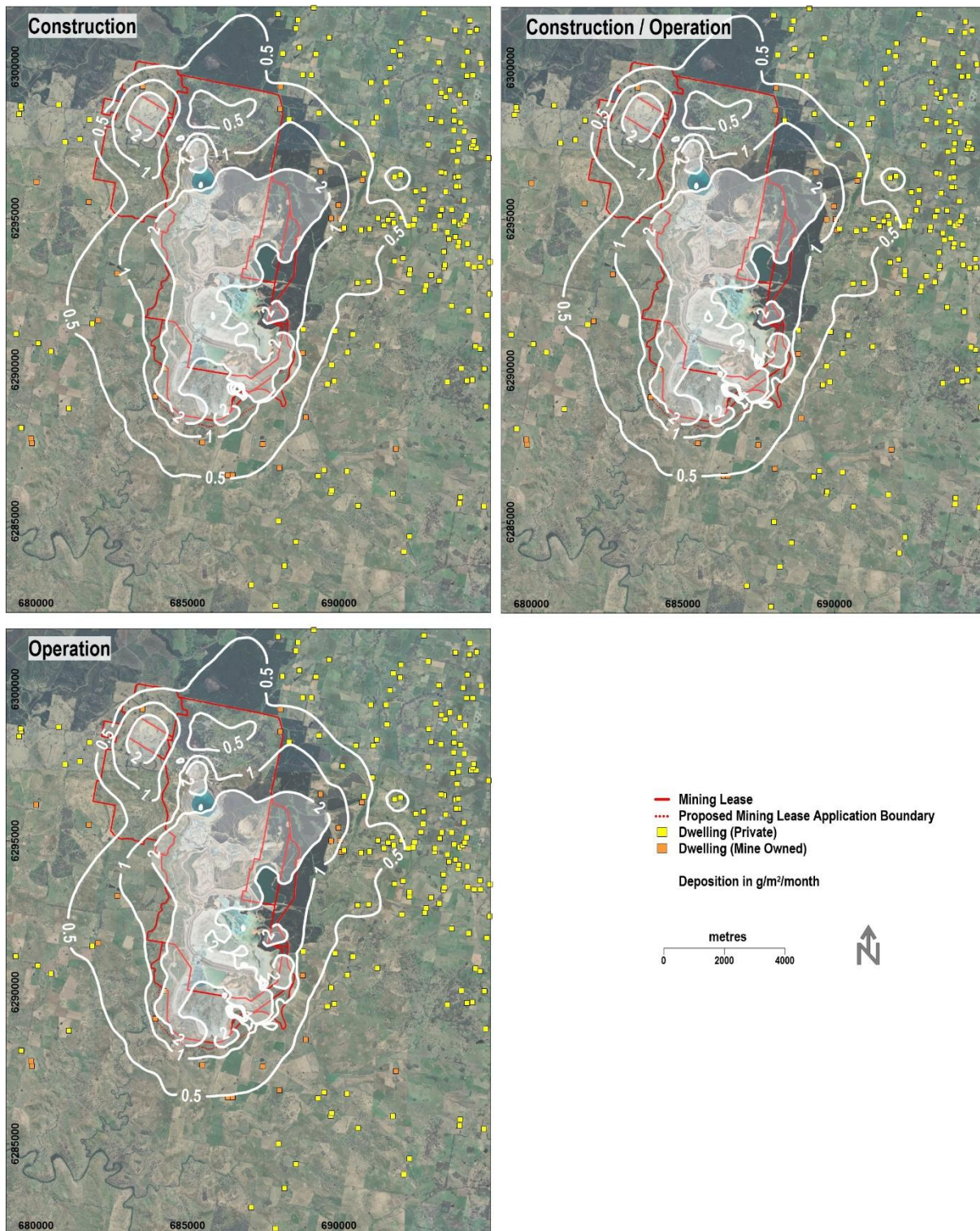


Figure 22 Modelled Annual Average TSP concentrations due to Cadia with Modification 16 and Other Sources

## 6.4 Deposited Dust

**Figure 23** shows the modelled annual average deposited dust levels due to Cadia with Modification 16, and **Figure 24** shows the results including contributions from other sources. These results have been assessed against the EPA annual average deposited dust criteria of 2 g/m<sup>2</sup>/month (incremental) and 4 g/m<sup>2</sup>/month (total). The results show compliance with the EPA impact assessment criteria at all private dwellings, with the 2 g/m<sup>2</sup>/month (incremental) and 4 g/m<sup>2</sup>/month (total) contours mostly contained within the mine lease boundary in all scenarios.



**Figure 23 Modelled Annual Average Deposited Dust Levels due to Cadia with Modification 16**

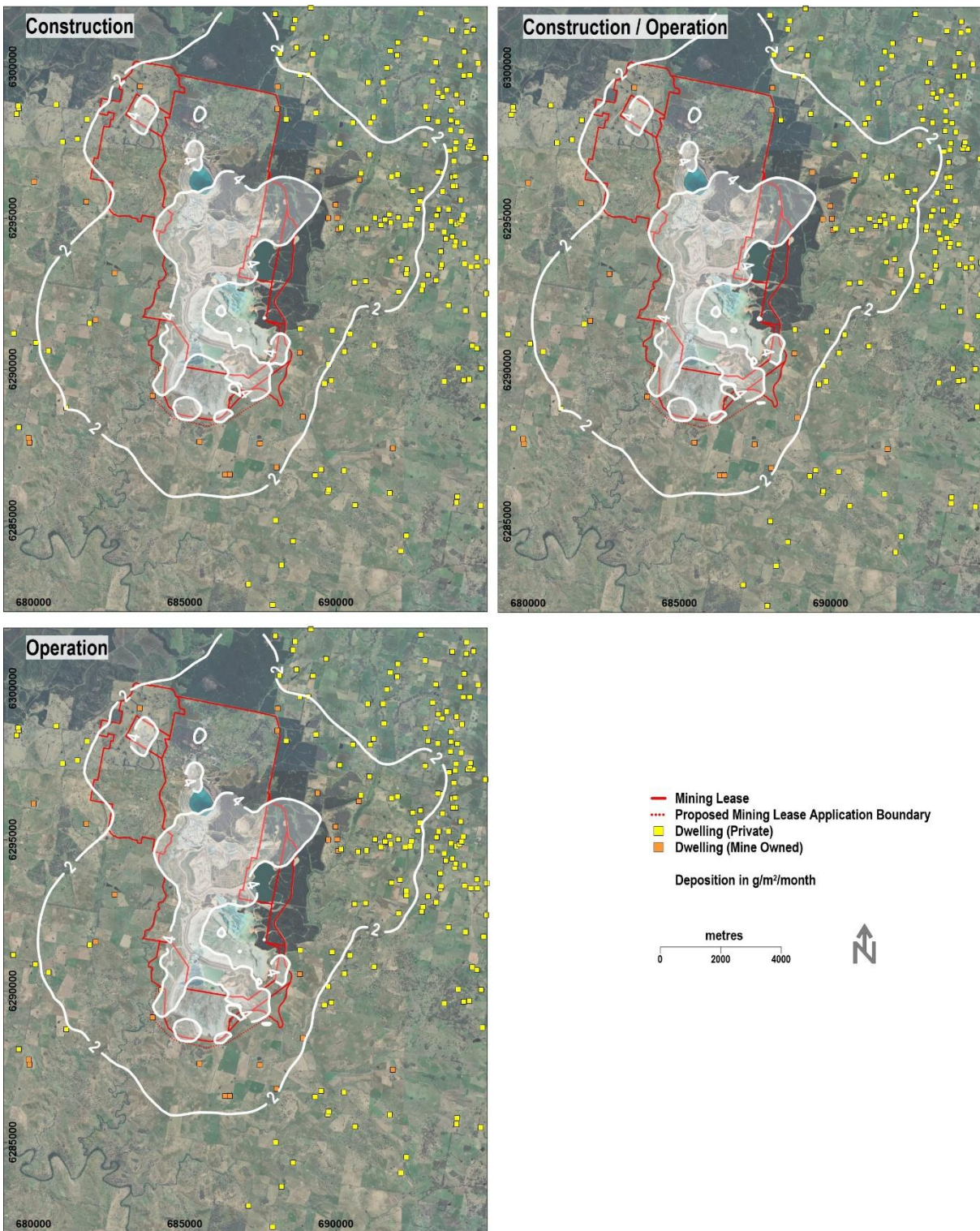


Figure 24 Modelled Annual Average Deposited Dust Levels due to Cadia with Modification 16 and Other Sources

## 6.5 VLAMP Assessment

As noted in **Section 3**, and in summary, the VLAMP specifies that voluntary acquisition rights may apply where the development contributes to exceedances of criteria at any residence on privately owned land, certain workplaces on privately owned land, or on more than 25% of any privately owned land where a dwelling exists or could be built. **Figure 25** shows the maximum extent of all applicable VLAMP criteria based on all relevant air quality (particulate matter) indicators from all scenarios. The model results of applicable criteria, prepared in accordance with the Approved Methods, show that Modification 16 would not contribute to an exceedance at any privately-owned residence, privately-owned workplace or extend over more than 25% of any privately owned land.

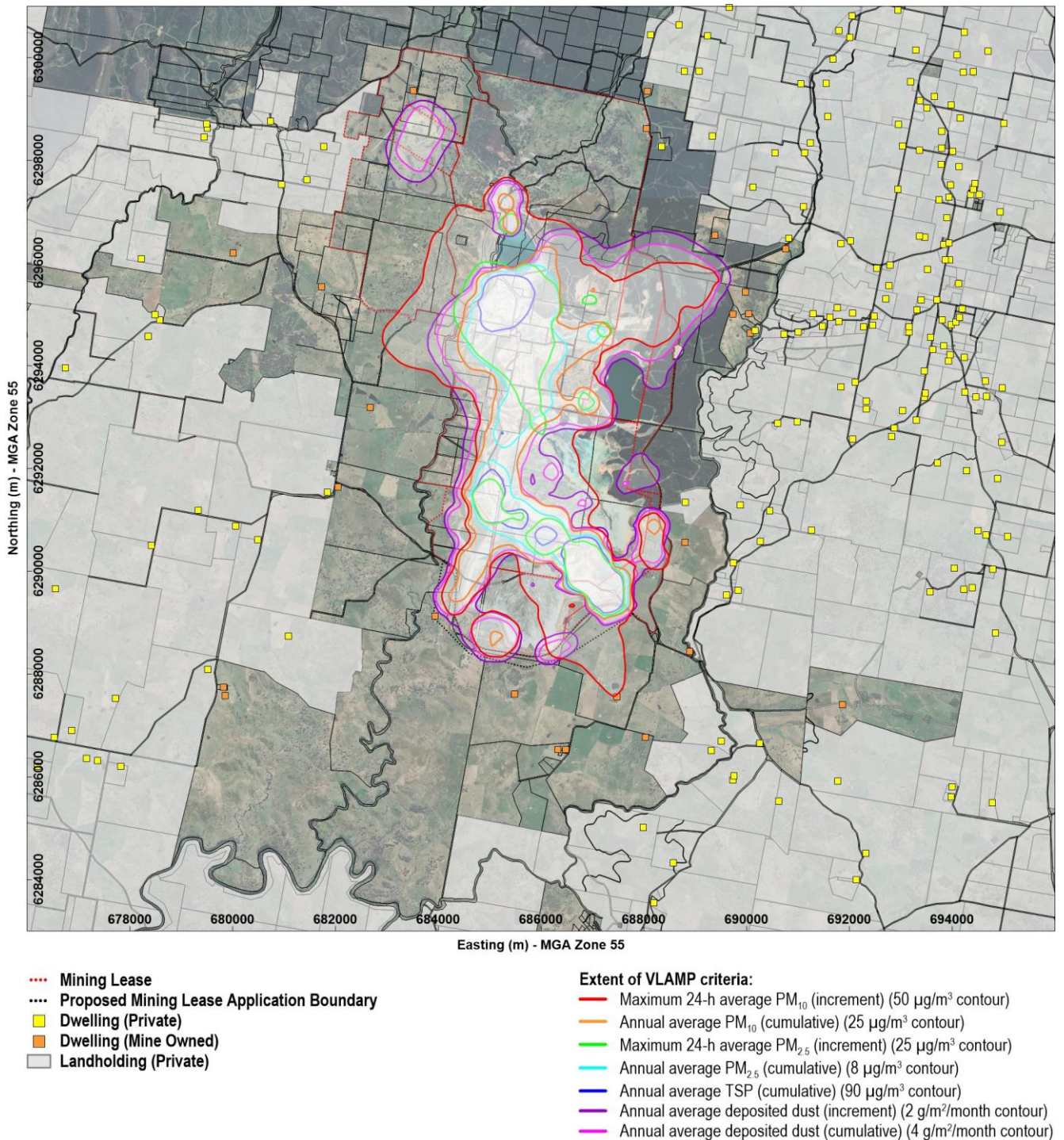


Figure 25 Modelled Maximum Extents of VLAMP Criteria

## 7 Management Measures

CHPL operates Cadia in accordance with the approved *Cadia - Air Quality and Greenhouse Gas Management Plan (AQGGMP)* (Newmont, 2025). **Table 13** provides a summary of the air quality management and mitigation measures that are in place, and the assumed emission control factors that were applied for the modelling. These measures would continue to be adopted as part of Modification 16. In addition, CHPL currently implements, and would continue to implement, Trigger Action Response Plans (TARPs). The TARPs identify specific meteorological conditions that, upon measurement, require action for managing dust.

**Table 13 Air Quality Management Measures**

Potential source	Emission management measures
Cadia Dewatering Facility – Wind Dispersed Concentrate.	<p>Concentrate handling (i.e. the loading of bulk concentrate into shipping containers for transport to market) is only conducted within an enclosed shed which minimises the likelihood of concentrate being exposed to wind.</p> <p>Operational procedures are in place to minimise the tracking of concentrate from the loading shed onto the concrete apron. Any concentrate outside of the shed on the concrete apron is cleaned promptly.</p>
Ore Processing - Dust generated from crushers, transfer points, conveyor tips, stockpiles.	<p>Where installed, water sprays are operational on all conveyor tips and transfer points.</p> <p>Forecast meteorological conditions are incorporated into the Dust TARP to alert operators of potential high risk dust conditions. This early warning system allows mitigation measures to be applied in advance of the forecast conditions and planning for operational changes that would be implemented should high risk dust conditions eventuate. The Dust TARP uses visual assessment of dust as well as real-time monitoring alarms.</p> <p>Dust extraction (i.e. scrubbers) and suppression systems are installed at all underground crushing stations.</p> <p>Where installed, dust extraction and suppression systems are operational on transfer points within the ore processing complex.</p> <p>The Cadia Site Asset Operations Centre (SAOC) monitors selected stockpiles and transfer points with cameras. These cameras are used to identify excessive dust emissions and the need to implement additional mitigation measures and/or operational changes and/or if the operator needs training.</p>
Ore Processing – Air emissions from the Gold Room scrubber stack.	<p>Scrubbers are installed in the Gold Room stack to remove pollutants prior to discharge of exhaust fumes.</p> <p>Scrubber outlet monitoring is conducted to measure emissions relative to <i>Protection of the Environment Operations (Clean Air) Regulation 2022</i>.</p>
Ore Processing – Air emissions (odour).	<p><b>Molybdenum Plant</b></p> <p>An extraction system and sodium hydroxide scrubber (which removes hydrogen sulphide [H<sub>2</sub>S]) are installed to minimise and manage potential odour and emissions from the Molybdenum Recovery Plant prior to discharge.</p> <p>Permanent H<sub>2</sub>S monitors and alarms are installed in the Molybdenum Recovery Plant to provide operators with real-time feedback on the concentration of H<sub>2</sub>S from the Molybdenum Recovery Plant. This allows operators to adjust the operation of the plant to manage H<sub>2</sub>S emissions in line with relevant criteria.</p> <p><b>Sodium Hydrosulphide (NaSH) Plant</b></p> <p>The sodium hydrosulphide flake stockpile is managed and monitored to meet emissions, product temperature and age performance criteria.</p> <p>An extraction system and sodium hydroxide scrubber (which removes H<sub>2</sub>S) are installed to minimise and manage potential odour and emissions from the Sodium Hydrosulphide Plant prior to discharge.</p> <p>CHPL has provided an emission performance guarantee to the EPA, to confirm the expected emission performance of the scrubber and demonstrated that the designed performance of the scrubber is consistent with best practice.</p>
Cadia East underground – Air emissions from underground vents.	<p>Sprays operate at underground conveyors.</p> <p>Solid particle concentrations in the ventilation raises are managed to agreed maximum concentrations. All new ventilation discharge points, installed after Modification 15 approval date, will be oriented horizontally with a configuration that reduces emissions to as low as reasonably practical. The design passes underground air through an underground scrubbing system prior to reaching the surface where the air will pass through baffles prior to being discharged horizontally into a splash pond. This further reduces dust emissions over and above any compliance measure as it occurs after the sampling point. The splash ponds, perimeter walls and baffles are optimised to maximise the capture of particulate emissions within the splash pond. Dust/slurry will settle in the splash pond and will be regularly removed.</p> <p>The SAOC continuously monitors vent rise emission concentrations and limits underground activities and crushing based on concentrations to maintain compliance with the individual vent rises and cumulative emissions requirements.</p> <p>Where practicable, low sulphur fuel is used in underground plant and equipment.</p>
Surface Operations – Dust emissions from tailings dams surface	<p><b>Mitigation Measures During Non-Operation of TSFs</b></p> <p>Dust minimisation and mitigation measures (such as water carts, hydromulch and dust suppressant) are applied on non-operational tailings dam surfaces where practicable.</p> <p>Regular inspection of the non-operational tailings dam surfaces are undertaken to evaluate the efficacy of the minimisation and mitigation measures.</p> <p>Near-field (i.e. operational) and far-field (compliance) dust monitors are incorporated into the Dust TARP and are setup to provide an early warning to allow the implementation of proactive responses to dust lift off events to minimise the risk of non-compliance with air quality criteria beyond the boundary of the mine.</p>

Potential source	Emission management measures
	<p>Forecast meteorological conditions are incorporated into the Dust TARP to alert operators of potential high risk dust conditions. This early warning system allows mitigation measures to be applied in advance of the forecast conditions and planning for operational changes that would be implemented should high risk dust conditions eventuate.</p> <p>The aerial application (i.e. aircraft) of dust suppressants may be used to treat areas inaccessible to tracked vehicles. This may be undertaken on a campaign or as required basis.</p> <p><b>Mitigation Measures During Operation</b></p> <p>Tailings deposition plan facilitates the maintenance of moisture content of the tailings dam surfaces.</p> <p>Near-field (operational) and far-field (compliance) dust monitors are incorporated into the Dust TARP and are setup to provide an early warning to allow the implementation of proactive responses to dust lift off events to minimise the risk of non-compliance with air quality criterion beyond the boundary of the mine.</p> <p>Forecast meteorological conditions are incorporated into the Dust TARP to alert operators of potential high risk dust conditions. This early warning system allows mitigation measures to be applied in advance of the forecast conditions and planning for operational changes that would be implemented should high risk dust conditions eventuate.</p> <p>Dust emission reduction strategies are used on an ongoing basis to control dust before emissions exceed TARP threshold and air quality criteria. These may include water carts, hydromulch, and dust suppressant.</p> <p>Targeted use of a 1 m thick dust mitigation and erosion protection cover.</p>
Surface Operations – Emissions from wheel generated dust.	<p>Water carts are available to apply water to unsealed roads and haul roads.</p> <p>Unsealed roads are built to an appropriate standard and maintained to minimise wheel generated dust.</p> <p>Sealed roads are regularly maintained to avoid material build up that can contribute to dust emissions (e.g. wheel generated dust emissions).</p> <p>Where wheel generated dust is unable to be controlled through the above actions, surface operations will be managed/adjusted until appropriate mitigation measures are undertaken.</p>
Surface Operations – Dust emissions from movement of soil.	<p>Land clearing and rehabilitation activities are managed/adjusted in response to visual triggers or alerts from real-time monitoring systems.</p> <p>Where practicable, minimise the area of disturbed ground to reflect the area required for ongoing construction and/or operational needs.</p> <p>Where practicable, undertake temporary stabilisation of disturbed ground that is not needed for construction/operation for more than 12 months.</p> <p>Undertake an annual investigation as part of the Rehabilitation Management Plan forward works program to identify areas where progressive/permanent rehabilitation could be undertaken.</p>
Surface Operations – Dust emissions from tailings dam construction.	<p>Unsealed roads are built to an appropriate standard and maintained to minimise wheel generated dust.</p> <p>Water carts are available to apply water to unsealed roads and haul roads, using both boom sprays or cannons as appropriate for the area.</p> <p>Water cart filling stations with adequate water quantities and pumping facilities are established and maintained at locations close to the TSF construction project.</p> <p>Haul activities are modified in response to visual triggers or measured adverse conditions.</p> <p>Operators are trained to minimise the drop height when loading material onto/from trucks.</p> <p>When dust from construction activities is predicted to cause an exceedance at a far-field (compliance) dust monitor that has been incorporated into the Dust TARP, surface operations would be minimised/modified until supplementary mitigation measures are undertaken and/or the application frequency of the existing measures increased, such that the potential for the exceedance is nullified.</p> <p>Forecast meteorological conditions are incorporated into the Dust TARP to alert operators of potential high risk dust conditions. This early warning system allows mitigation measures to be applied in advance of the forecast conditions and planning for operational changes implemented should high risk dust conditions eventuate. The Dust TARP uses visual assessment of dust as well as real-time monitoring alarms.</p> <p>Rock armouring would be installed over the recovered sand surface upon completion of the buttress.</p>
Emergency Response and Security	<p>Emergency Response training involving the burning of vegetation and fuel loads will be commenced on days when the NSW Government declares a 'good' air quality category for the Central Tablelands.</p>
Dust Emissions – Exposed land	<p>Progressive rehabilitation is undertaken as described in the Rehabilitation Management Plan.</p>
Diesel emissions	<p>Cadia will investigate new technologies as they become available and practicable for the reduction of emissions from the combustion of diesel where reasonable and feasible.</p>

As noted in **Section 4**, the Cadia air quality monitoring network consists of at least four real-time dust monitors (measuring PM<sub>10</sub> and PM<sub>2.5</sub>), four high volume air samplers, eight dust deposition gauges, and two meteorological stations. The modelling showed that Modification 16 will not cause exceedances of the relevant EPA impact assessment criteria, and there are no additional areas of risk not already covered by existing monitoring. Therefore, no changes to the air quality network are proposed.

## 8 Conclusions

This report provides an assessment of the potential air quality impacts of Modification 16. It has been undertaken in accordance with the Approved Methods. The adopted methodology considers the existing operations, the proposed Modification 16 parameters, site-specific meteorological data and site-specific ambient air quality monitoring data to determine the potential impacts to air quality with reference to the EPA impact assessment criteria.

The assessment involved identifying the key air quality aspects that would be subject to detailed assessment, characterising the existing environment, quantifying emissions to air and modelling the potential impacts of Modification 16 on local air quality. The key air quality aspect was identified as dust (i.e. particulate matter).

A detailed site inspection and desktop review of the existing environment was carried out including an analysis of historically measured concentrations of key air quality indicators from Cadia, local and regional air quality monitoring stations. The review showed that air quality in many parts of NSW, including the Central Tablelands, is heavily influenced by climatic conditions such as drought. For example, there was a deterioration in air quality conditions between 2017 and early 2020 that was heavily influenced by drought, dust storms and bushfires. These conditions were generally observed across all NSW air quality monitoring stations, with the monitoring results at Cadia and the Central Tablelands consistent with these statewide observations including at Bathurst and Orange.

Monitoring data have shown that particulate matter concentrations around Cadia generally comply with the EPA impact assessment criteria. However, historically, there have been a few days each year when PM<sub>10</sub> concentrations exceeded the 24-hour average criterion due to various factors such as dust storms and bushfires. Air quality monitoring data are evaluated each year as part of Annual Reviews submitted to meet PA 06\_0295 and EPL 5590 conditions.

One of the tasks for the assessment was to select a representative meteorological year for modelling. Analysis determined that there is no one single year with statistics that are within long-term averages for all meteorological parameters. The 2022-23 period (1 July 2022 to 30 June 2023) was the only period in the most recent seven years which addressed this objective for a key meteorological parameter; wind speed. The 2022-23 period contained a complete (100%) year of data from two site-specific meteorological stations, meeting the EPA's requirements for modelling. In addition, the 2022-23 period had concurrent air quality monitoring data for key air quality indicators (including PM<sub>10</sub> and PM<sub>2.5</sub>), was not adversely influenced by bushfire activities or extreme conditions (except for short-term flooding in November 2022) and coincided with a mix of both above average (2022) and below average (2023) rainfall. The 2022-23 period was therefore selected for the modelling.

The key matter from an air quality perspective associated with Modification 16 is the use of recovered sand, in addition to rock, as buttressing material. From studies of this material, the wind speed required to initiate dust lift-off is higher than that of fine tailings. In addition, rock armouring would be installed over the recovered sand surface upon completion of the buttress thereby reducing lift off once construction has been completed.

The modelling of Modification 16 for representative scenarios showed that there would not be exceedances of airborne particulate matter (i.e. dust) concentration or dust deposition criteria at private dwellings (the closest dwelling from the proposed NTSF recovered sand buttress is 2 km).

The air quality model was also evaluated against the site-specific measurements to assess performance for simulating the local environment. It was noted that model predictions of air quality conditions were consistently higher than the site-specific measurements of air quality conditions. The modelling for Modification 16 therefore provided a conservative assessment of the potential impacts.

Based on this assessment, it has been concluded that Modification 16 would not cause exceedances of air quality criteria at private dwellings and that carrying forward the implementation of mitigation measures in the approved AQGGMP, along with management measures described in **Section 7**, would be appropriate.

## 9 References

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- US EPA (1987) Update of fugitive dust emission factors in AP-42 Section 11.2, EPA Contract No. 68-02-3891, Midwest Research Institute, Kansas City, MO, July 1987.

## Appendix A. Annual and seasonal wind-roses

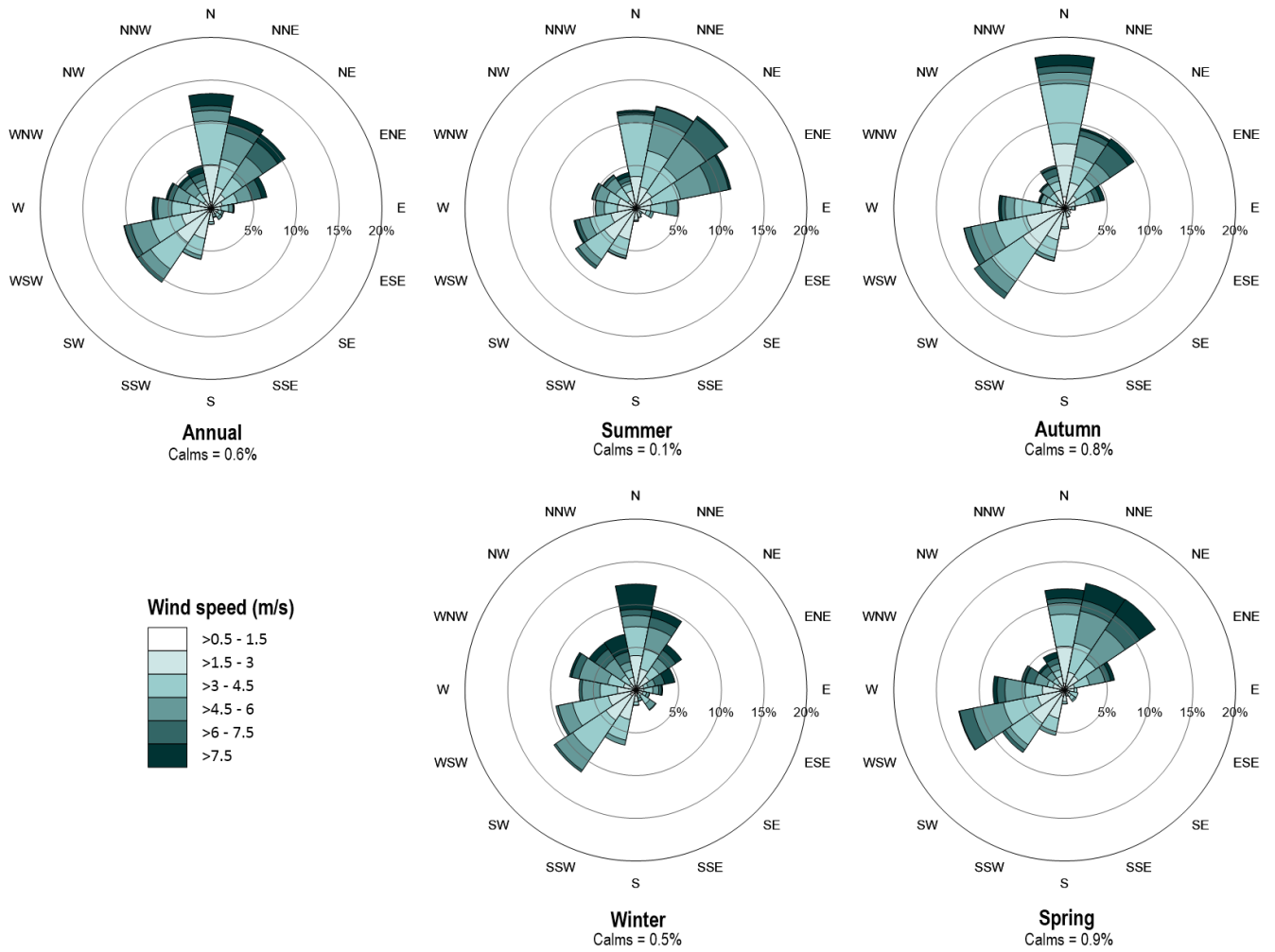


Figure A1 Annual and Seasonal Wind-roses from Ridgeway for 1 July 2022 to 30 June 2023

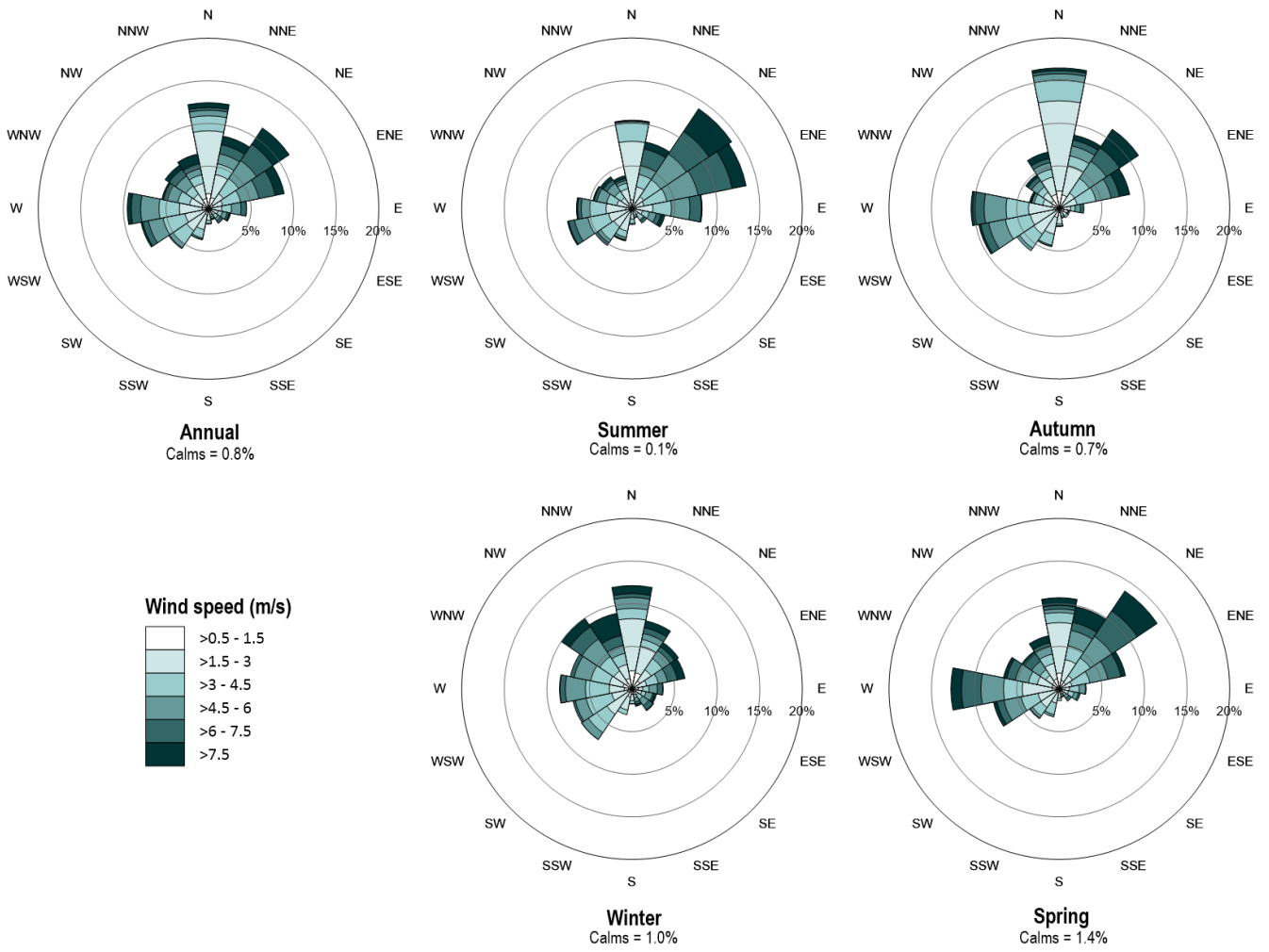


Figure A2 Annual and Seasonal Wind-roses from Southern Lease Boundary for 1 July 2022 to 30 June 2023

## Appendix B. Spatial trends in air quality

The spatial trends in air quality have been examined. **Figure B1** to **Figure B5** show the historical data at each monitoring location. These data show that dust concentrations and deposition levels increased significantly between 2017-18 and 2019-20, coinciding with drought conditions, lower than average rainfall, and widespread bushfires. The DPHI noted these as extraordinary events (DPE, 2020) and not typical air quality conditions. The increases in PM<sub>10</sub> concentrations were observed across many locations in NSW and were not unique to the Central Tablelands. Concentrations decreased from mid-2020 as rainfall returned to more typical levels. The 2022-23 data were generally closest to the long-term averages, excluding years of extraordinary events.

### Maximum 24-hour average PM<sub>10</sub> (µg/m<sup>3</sup>)

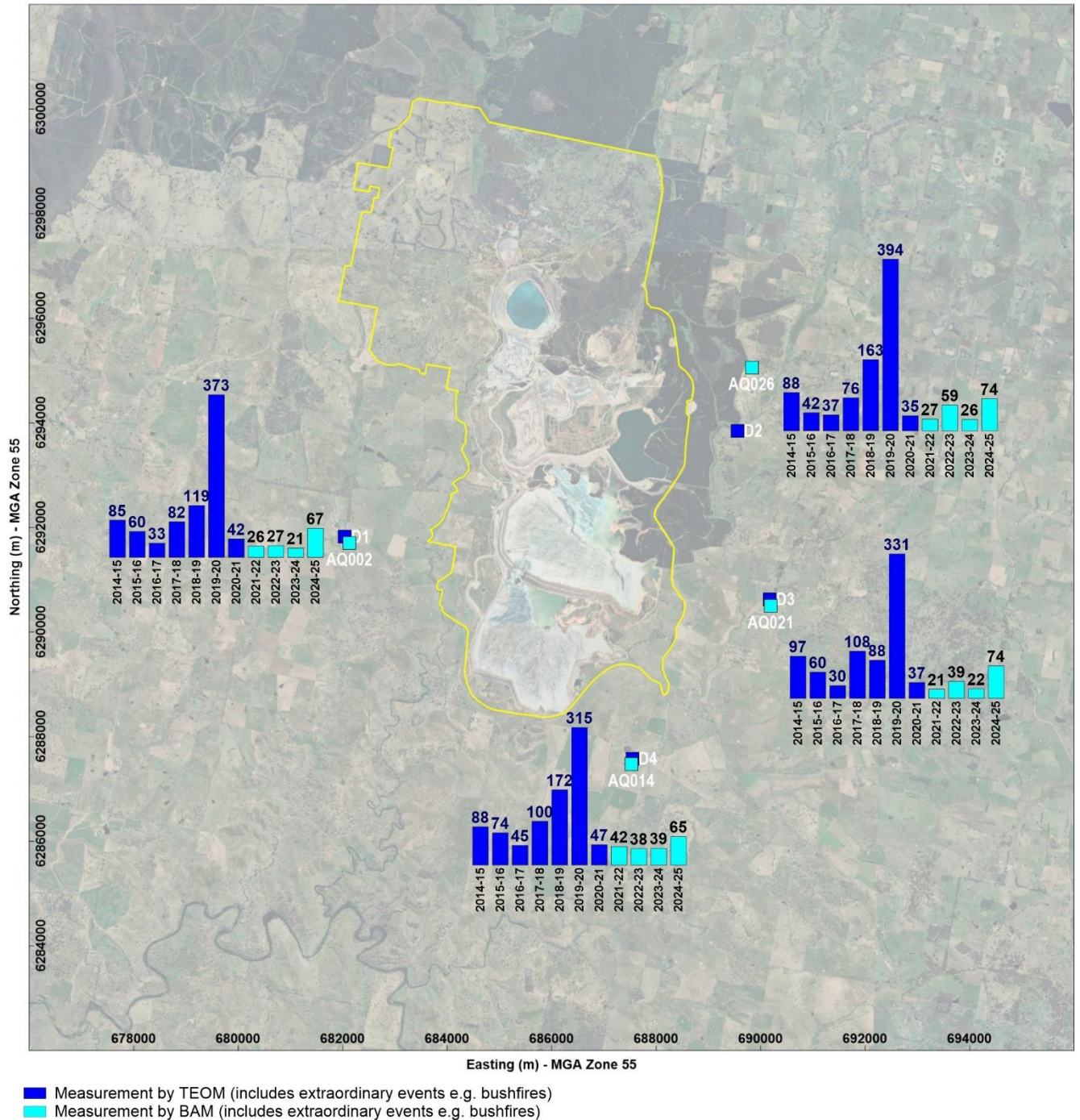


Figure B1 Historical Trend in Maximum 24-hour Average PM<sub>10</sub> Concentrations

### Annual average PM<sub>10</sub> (µg/m<sup>3</sup>)

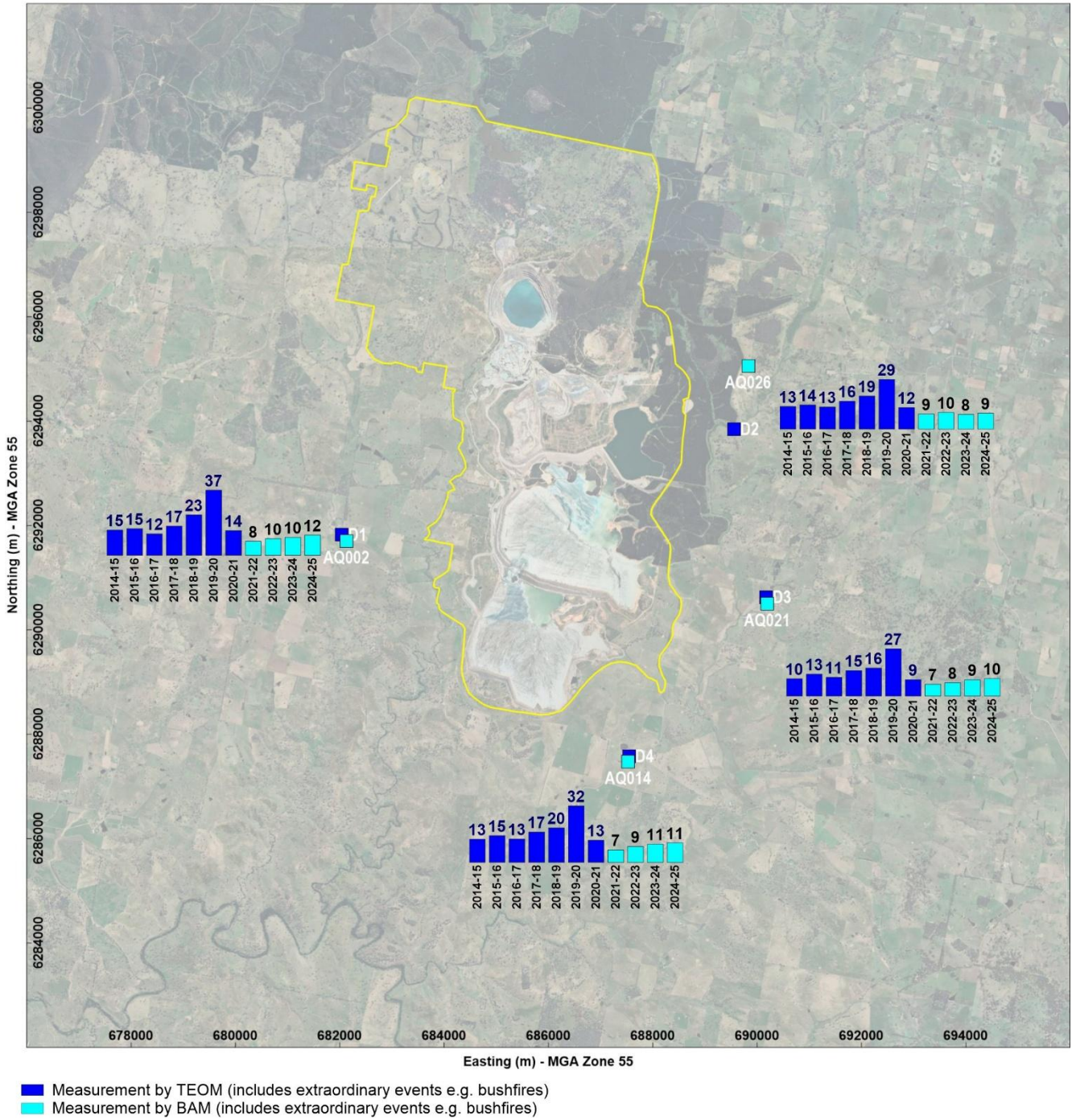
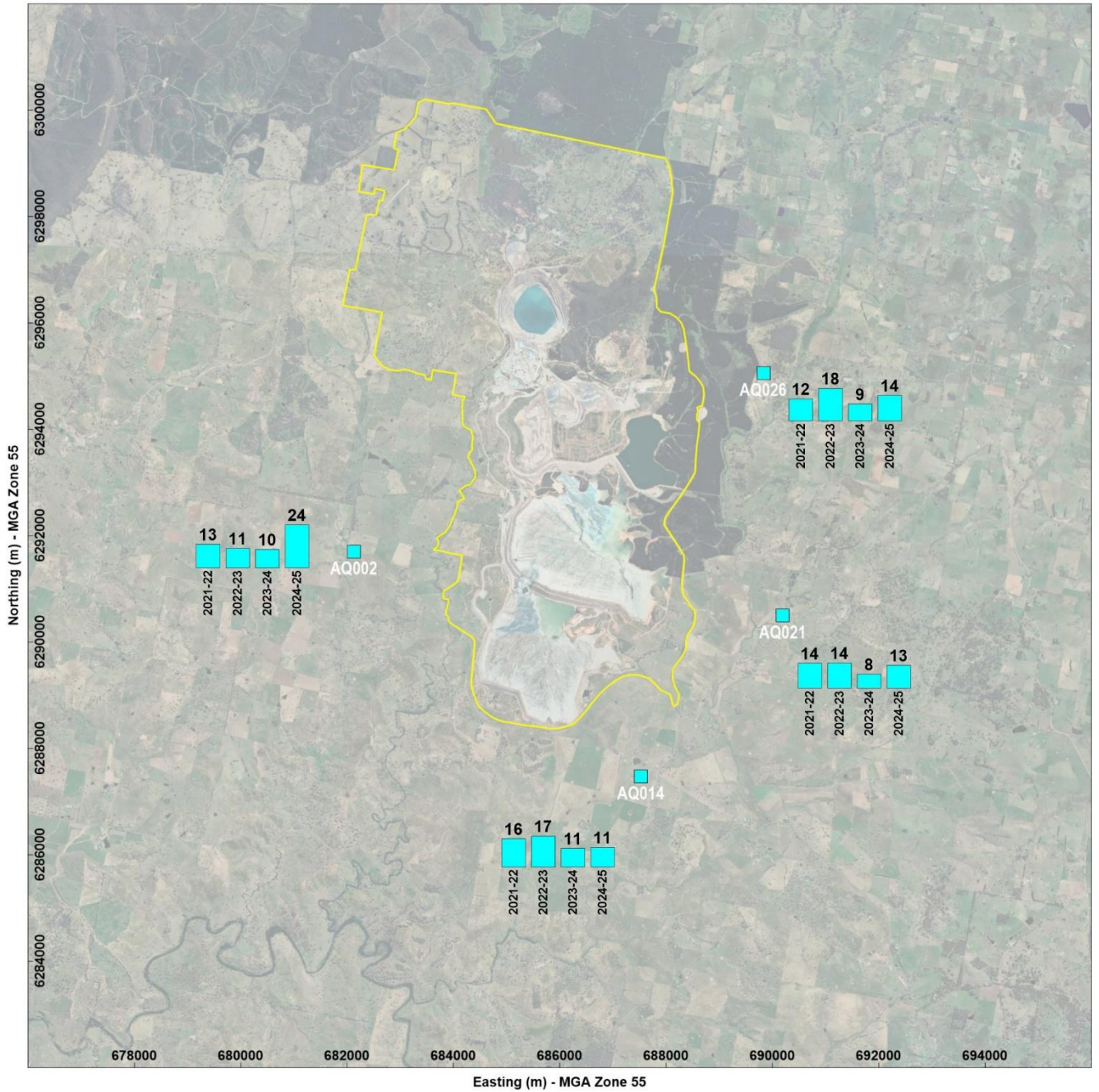


Figure B2 Historical Trend in Annual Average PM<sub>10</sub> Concentrations

### Maximum 24-hour average PM<sub>2.5</sub> (µg/m<sup>3</sup>)



■ Measurement by BAM (includes extraordinary events e.g. bushfires)

Figure B3 Historical Trend in Maximum 24-hour Average PM<sub>2.5</sub> Concentrations

### Annual average PM<sub>2.5</sub> (µg/m<sup>3</sup>)

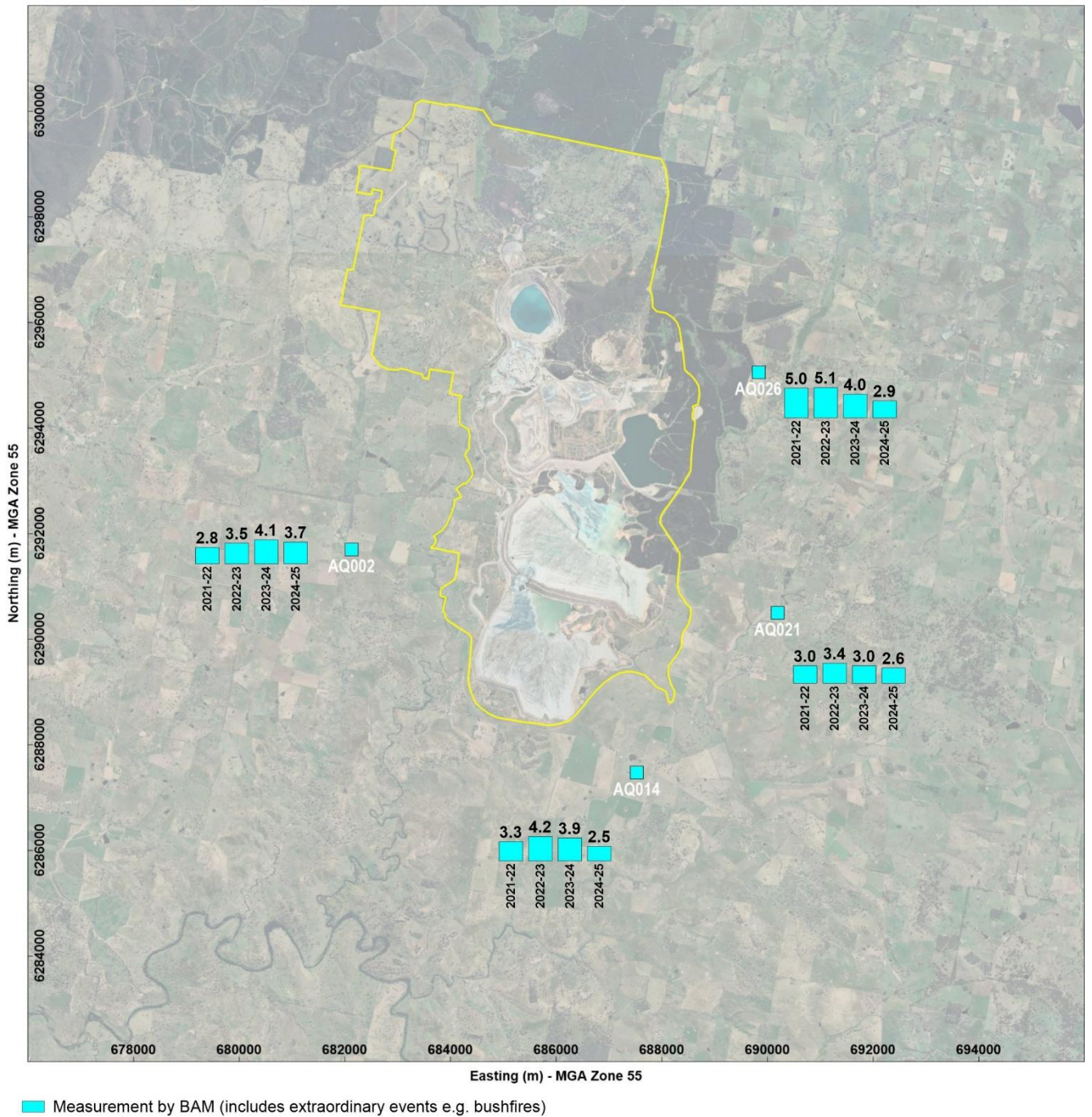


Figure B4 Historical Trend in Annual Average PM<sub>2.5</sub> Concentrations

### Annual average deposition (g/m<sup>2</sup>/month)

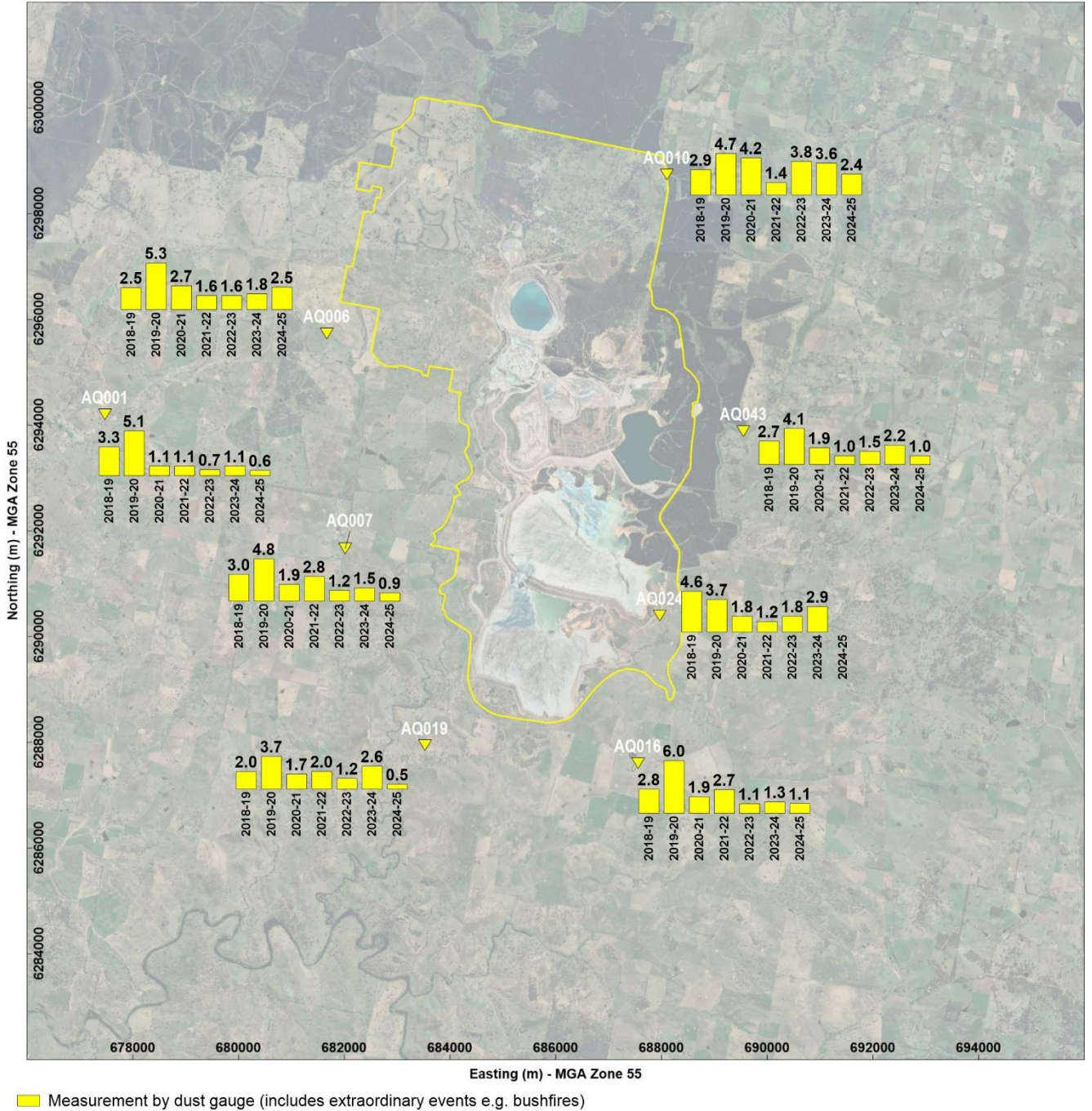


Figure B5 Historical Trend in Annual Average Deposited Dust

## Appendix C. Model settings

### Geophysical

Figure C1 shows the model grid, land-use and terrain information, as used by CALMET.

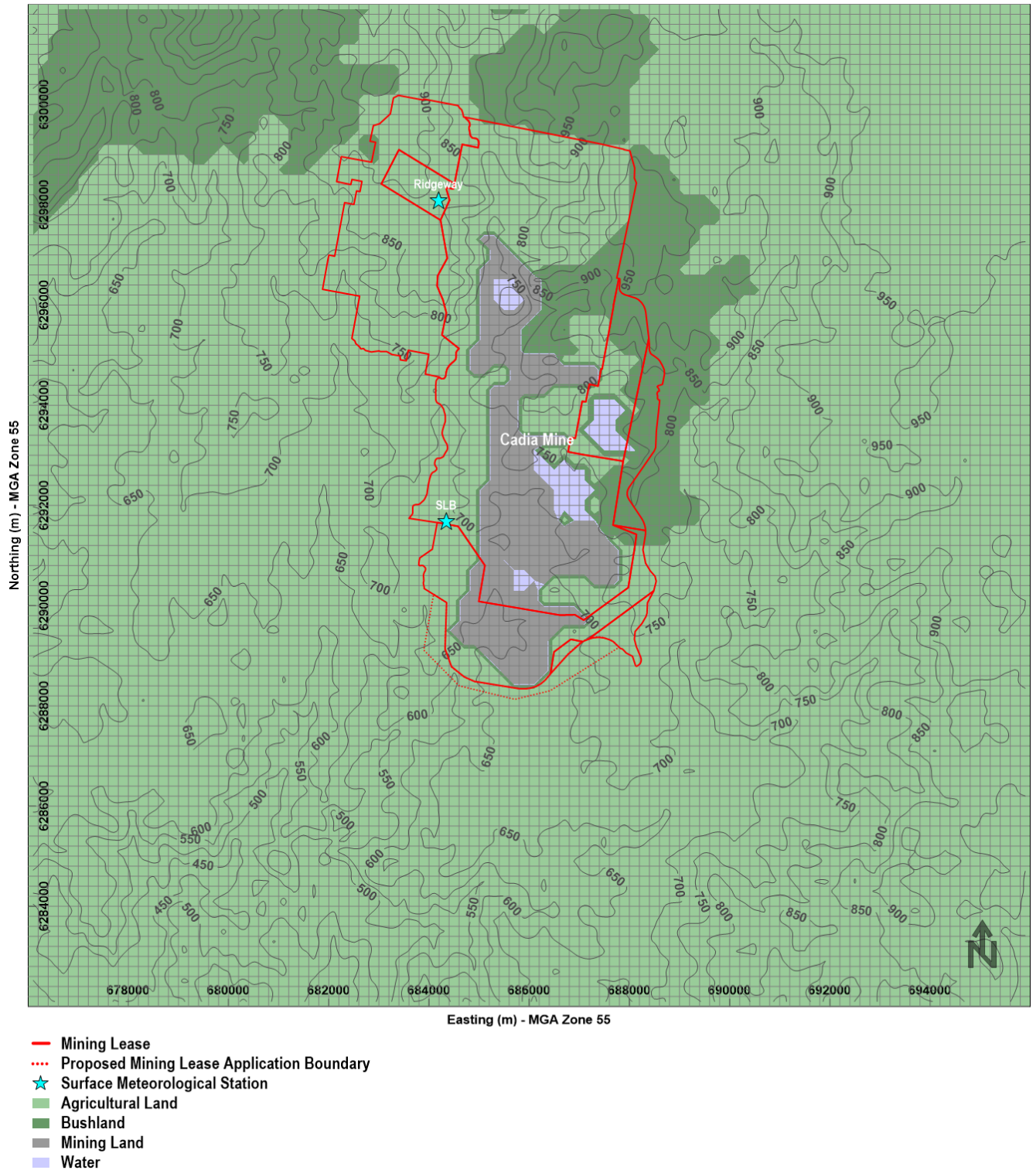


Figure C1 Model Domain, Grid, Land Use and Terrain Information

## Meteorology

The CALPUFF model, through the CALMET meteorological pre-processor, simulates complex meteorological patterns that exist in a particular region. The necessary upper air data for CALMET were generated by the Commonwealth Scientific and Industrial Research Organisation's prognostic model, The Air Pollution Model (TAPM), and the required surface observation data were sourced from site-specific weather stations. CALMET was used to produce a year-long, three-dimensional output of meteorological conditions for input to the CALPUFF air dispersion model. The meteorological modelling followed the guidance of TRC Environmental Corporation (TRC) (2011) and adopted the "observations" mode.

**Table C1 Model Settings and Inputs for TAPM**

Parameter	Value(s)
Model version	4.0.5
Number of grids (spacing)	4 (30 km, 10 km, 3 km, 1 km)
Number of grids point	35 x 35 x 25
Year(s) of analysis	30 Jun 2022 to 30 Jun 2023
Centre of analysis	33°28' S, 149°00' E
Terrain data source	30 m Shuttle Radar Topography Mission (SRTM)
Land use data source	Default
Meteorological data assimilation	Ridgeway. Radius of influence = 10 km. Number of vertical levels for assimilation = 4

**Table C2 Model Settings and Inputs for CALMET**

Parameter	Value(s)
Model version	6.334
Terrain data source(s)	30 m SRTM
Land use data source(s)	Digitised from aerial imagery
Meteorological grid domain	20 km x 20 km
Meteorological grid resolution	0.2 km
Meteorological grid dimensions	100 x 100 x 9 grid points
Meteorological grid origin	676000 mE, 6282000 mN. MGA Zone 55
Surface meteorological stations	Ridgeway: wind speed, wind direction (TAPM for temperature, relative humidity, ceiling height, cloud cover and pressure) Southern Lease Boundary: wind speed, wind direction
Upper air meteorological stations	Upper air data file for the location of the Ridgeway meteorological station, derived by TAPM. Biased towards surface observations (-1, -0.8, -0.6, -0.4, -0.2, 0, 0, 0, 0)
Simulation length	8760 hours (1 Jul 2022 to 30 Jun 2023)
R1, R2	0.5, 1
RMAX1, RMAX2	5, 20
TERRAD	5

**Figure C2** shows a snapshot of winds at 10 m above ground level as simulated by the CALMET model under stable conditions. This plot shows the effect of the topography on local winds, for this particular hour, and highlights the non-uniform wind patterns in the area, further supporting the use of a non-steady-state model such as CALPUFF.

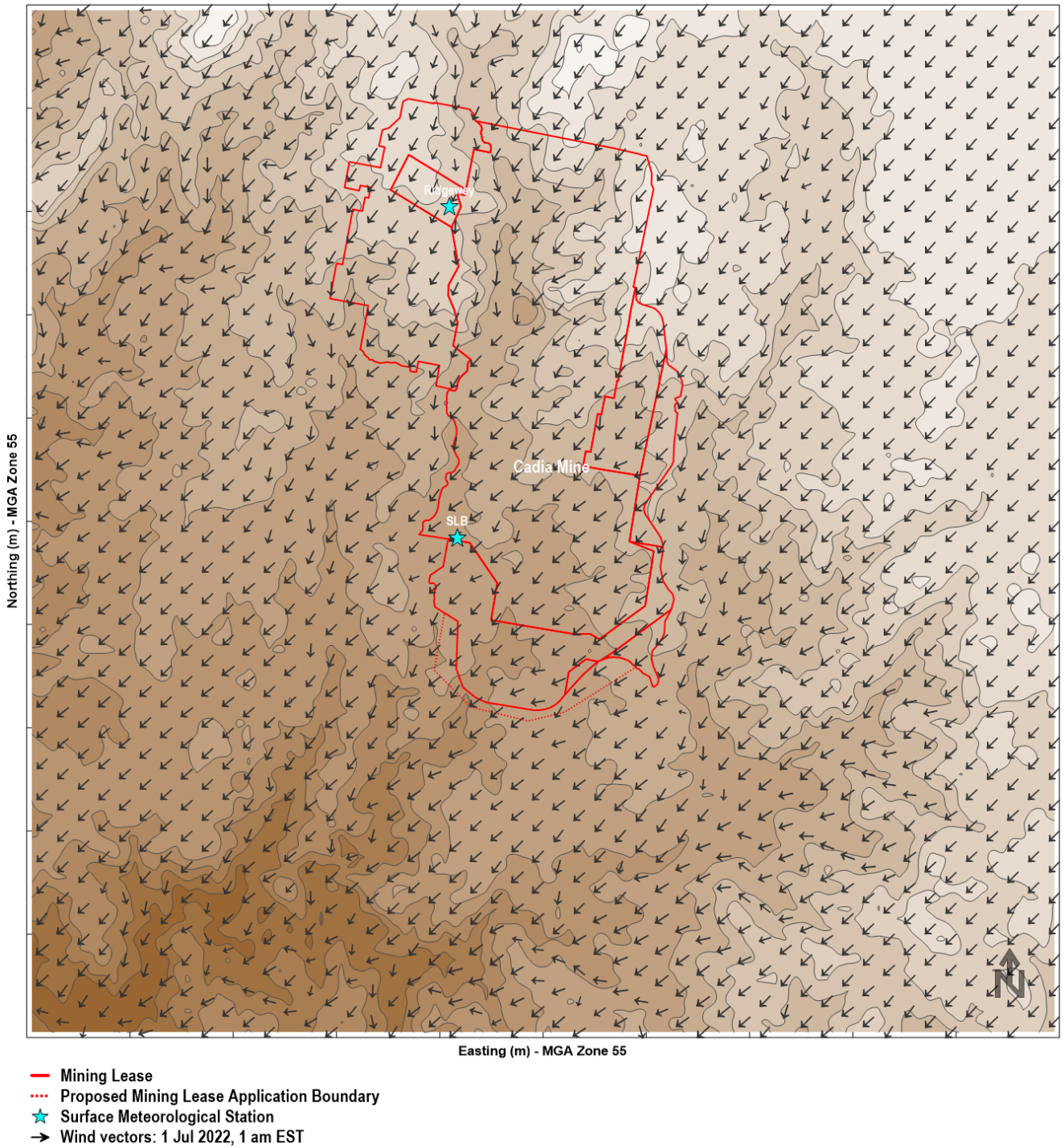
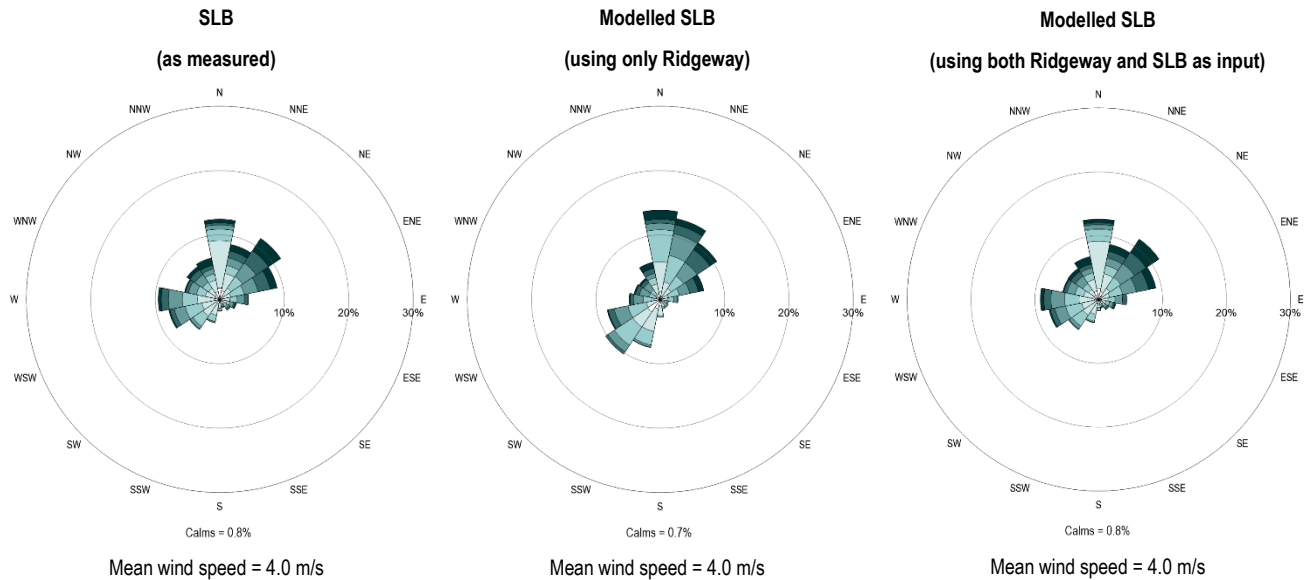


Figure C2 Example of CALMET-simulated Ground-level Wind Flows

**Figure C3** shows a comparison between measured wind patterns at SLB with wind patterns derived from CALMET. The model reproduces the wind patterns at SLB reasonably well without using the measured SLB data as input. That is, the prevailing north to northeast and west to southwest wind patterns are reproduced, as is the percentage of calms and mean wind speed. The result at SLB is improved when the measured SLB data are used as input.



**Figure C3 Wind-roses from the Meteorological Model for Evaluation (2022-23)**

**Table C3** shows the model settings and inputs for the dispersion model, CALPUFF.

**Table C3 Model Settings and Inputs for CALPUFF**

Parameter	Value(s)
Model version	6.42
Computational grid domain	100 x 100
Chemical transformation	None
Dry deposition	Yes
Wind speed profile	ISC rural
Puff element	Puff
Dispersion option	Turbulence from micrometeorology
Time step	3600 seconds (1 hour)
Terrain adjustment	Partial plume path
Number of volume sources	See below. Height = 5 m, SY = 20 m, SZ = 10 m.
Number of discrete receptors	908 including sensitive receptors. See below.

### Sources

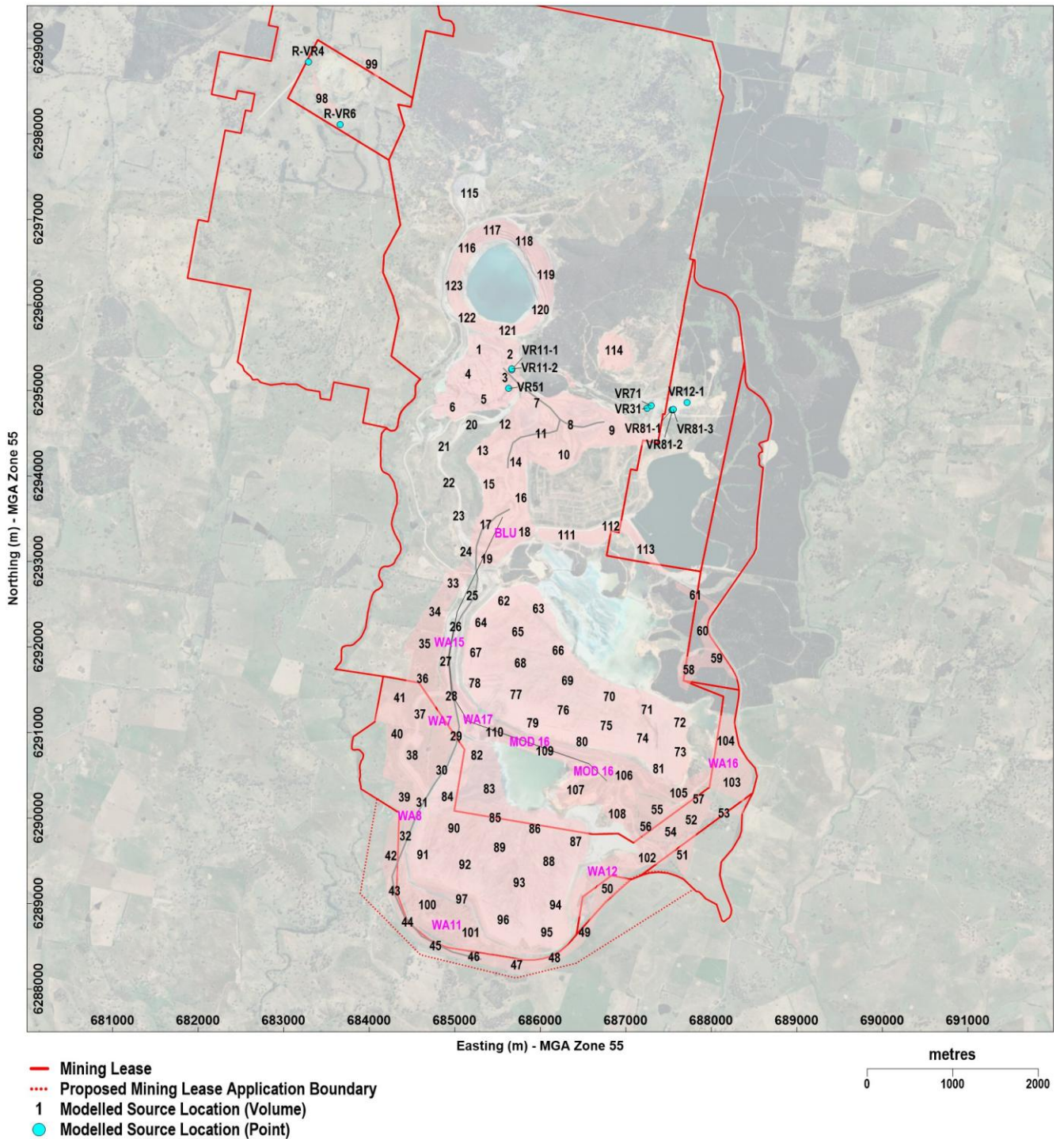


Figure C4 Modelled Source Locations

### Receptors

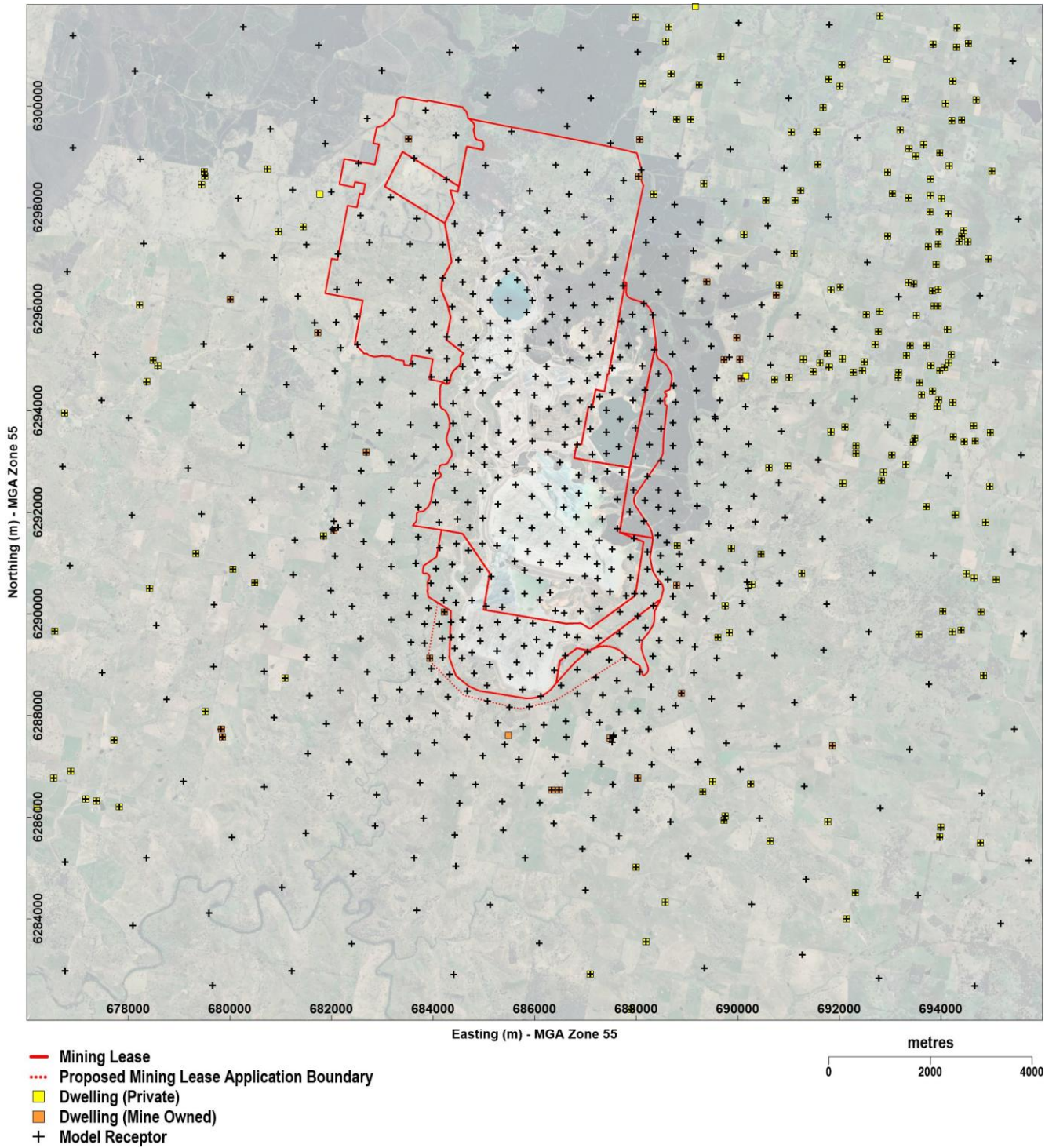


Figure C5 Modelled Receptor Locations

## Appendix D. Emission calculations

### Emission factors

Activity	Emission factor			Units	Source
	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>		
General construction work/stripping	$E_{TSP} = 2.6 \times (S^{1.2}/M^{1.3})$	$E_{PM10} = 0.3375 \times (S^{1.5}/M^{1.4})$	$E_{PM2.5} = 0.105 \times E_{TSP}$	kg/hour	US EPA / NPI
Loading material/dumping waste	$E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	$E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	$E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	kg/t	US EPA / NPI
Hauling on unsealed roads (the NPI approach to calculating emissions from haul roads based on vehicle mass and an assumed road silt content was also tested. This alternative approach yielded lower emission estimates than the SPCC approach (based on long-term average silt content) so the more conservative approach was adopted)	$E_{TSP} = 4$	$E_{PM10} = 0.3 \times E_{TSP}$	$E_{PM2.5} = 0.03 \times E_{TSP}$	kg/VKT	SPCC, 1983
Dozers	$E_{TSP} = 2.6 \times (S^{1.2}/M^{1.3})$	$E_{PM10} = 0.3375 \times (S^{1.5}/M^{1.4})$	$E_{PM2.5} = 0.105 \times E_{TSP}$	kg/hour	US EPA / NPI
Loading stockpiles/miscellaneous transfers/processing	$E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	$E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	$E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$	kg/t	US EPA / NPI
Ore crushing	$E_{TSP} = 0.03$	$E_{PM10} = 0.012$	$E_{PM2.5} = 0.002$	kg/t	US EPA / NPI
Wind erosion from exposed areas	$E_{TSP} = 0.4$	$E_{PM10} = 0.5 \times E_{TSP}$	$E_{PM2.5} = 0.075 \times E_{TSP}$	kg/ha/h	US EPA
Grading roads	$E_{TSP} = 0.0034 \times s^{2.5}$	$E_{PM10} = 0.00336 \times s^2$	$E_{PM2.5} = 0.0001054 \times s^{2.5}$	kg/VKT	US EPA / NPI

U = wind speed (m/s)  
M = moisture content (%)  
S = silt content (%)  
s = speed (km/h)

**Emission calculations (fugitive sources)**

See attachment

**Cadia Mine, Table D1**  
**Fugitive dust (Mod 16 construction)**

Activity	Annual emissions (kg/y)				TSP			PM10			PM2.5			Variables							
	TSP	PM10	PM2.5	Control (%)	Intensity	Units	Factor	Units	Factor	Units	Factor	Units	Area (m <sup>2</sup> )	(ws <sub>2.2</sub> ) <sup>1/3</sup>	Moisture (%)	(m)	kg/VKT	truck	km/trip	Slip (%)	Speed (km/h)
<b>Existing mill and surface activities</b>																					
General construction work	27572	5452	2895	0	3785 h/y		7.3 kg/h		1.4 kg/h		0.765 kg/h	-	-	2	-	-	-	-	-	5	-
Excavators loading waste to trucks	1414	669	101	0	1296296 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Hauling waste to dumps	13136	3882	394	85	1296296 t/y		0.06756 kg/t		0.01996 kg/t		0.002 kg/t	-	-	-	-	-	4	225	3.8	-	-
Unloading waste to dumps	1414	669	101	0	1296296 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Dozers shaping dump	26257	4863	2757	0	8445 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5	-
Secondary ore crushing	17850	7140	893	90	5950000 t/y		0.03 kg/t		0.012 kg/t		0.002 kg/t	-	-	-	-	-	-	-	-	-	-
Loading crushed ore to stockpile from U/G	26479	12524	1896	0	35000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Loading ore at Ore Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Hauling ore to COS stockpile	9569	2828	287	85	2000000 t/y		0.03190 kg/t		0.00943 kg/t		0.001 kg/t	-	-	-	-	-	4	125	1.0	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Loading ore at COS Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Unloading ore to Ore Stockpile	11962	3535	359	85	2500000 t/y		0.03190 kg/t		0.00943 kg/t		0.001 kg/t	-	-	-	-	-	4	125	1.0	-	-
Loading ore at Ore Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Unloading ore at Ore Stockpile for Green & Yellow	3404	1610	244	0	4500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Hauling ore to Green Stockpile	28708	8483	861	85	2000000 t/y		0.09569 kg/t		0.02828 kg/t		0.003 kg/t	-	-	-	-	-	4	125	3.0	-	-
Unloading ore at Green Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Rehandle ore at Green Stockpile	303	143	22	0	400000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Loading ore at Green Stockpile	757	358	54	0	1000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Hauling ore to COS Stockpile	14354	4242	431	85	1000000 t/y		0.09569 kg/t		0.02828 kg/t		0.003 kg/t	-	-	-	-	-	4	125	3.0	-	-
Unloading ore at COS Stockpile	757	358	54	0	1000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Hauling ore to Yellow Stockpile	26316	7777	789	85	2500000 t/y		0.07018 kg/t		0.02074 kg/t		0.002 kg/t	-	-	-	-	-	4	125	2.2	-	-
Unloading ore at Yellow Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Rehandle ore at Yellow Stockpile	378	179	27	0	500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Loading ore at Yellow Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Hauling ore to COS stockpile	21053	6221	632	85	2000000 t/y		0.07018 kg/t		0.02074 kg/t		0.002 kg/t	-	-	-	-	-	4	125	2.2	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Ore processing in mill	13239	6262	948	90	17500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Conveyor transfer points	7944	3757	569	70	35000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-
Wind erosion from waste rock dumps	317112	158556	23783	50	181 ha		3504.0 kg/ha/y		1752.0 kg/ha/y		262.8 kg/ha/y	-	-	-	-	-	-	-	-	-	-
Wind erosion from pit tailing storage facility	103368	51684	7753	50	59 ha		3504.0 kg/ha/y		1752.0 kg/ha/y		262.8 kg/ha/y	-	-	-	-	-	-	-	-	-	-
Wind erosion from subsidence zone	24528	12264	1840	50	14 ha		3504.0 kg/ha/y		1752.0 kg/ha/y		262.8 kg/ha/y	-	-	-	-	-	-	-	-	-	-
Wind erosion from exposed areas / stockpiles	122640	61320	9198	50	70 ha		3504.0 kg/ha/y		1752.0 kg/ha/y		262.8 kg/ha/y	-	-	-	-	-	-	-	-	-	-
Wind erosion from TSFs	1054704	527352	79103	50	602 ha		3504.0 kg/ha/y		1752.0 kg/ha/y		262.8 kg/ha/y	-	-	-	-	-	-	-	-	-	-
Graders	20877	7294	647	0	33920 km/y		0.61547 kg/VKT		0.2150 kg/VKT		0.019 kg/VKT	-	-	-	-	-	-	-	-	-	8
Ventilation shaft emissions (see vent dust tab)																					
<b>TSF Construction</b>																					
<b>WA13 - BLU Dump</b>																					
Loading material to hopper	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Crushing material - primary	10777	4850	898	0	17962064 t/y		0.00060 kg/t		0.00027 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-
Crushing material - secondary	10777	4850	898	0	17962064 t/y		0.00060 kg/t		0.00027 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-
Screening material	19758	6646	539	0	17962064 t/y		0.00110 kg/t		0.00037 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-
Unloading material at stockpile area	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material	3919	1853	281	0	3592413 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Loading material from stockpile or extraction area to	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Dozer activity at Workfront	25423	4709	2669	0	8177 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5	-
<b>WA7 - Western Intermediate Stockpile</b>																					
Excavating material at Workfront - WA7	2260	1069	162	0	2072100 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Hauling material within Workfront - WA7	7271	2149	218	85	2072100 t/y		0.02339 kg/t		0.00691 kg/t		0.001 kg/t	-	-	-	-	-	4	171	1.0	-	-
Unloading material at Workfront - WA7	2260	1069	162	0	2072100 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material at Workfront - WA7	452	214	32	0	414420 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Hauling material from BLU dump to Workfront	33418	9875	1003	85	2267625 t/y		0.09825 kg/t		0.02903 kg/t		0.003 kg/t	-	-	-	-	-	4	171	4.2	-	-
Unloading material at Workfront	2474	1170	177	0	2267625 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material	495	234	35	0	453525 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Dozer activity at Workfront - WA7	19556	3622	2053	0	6290 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5	-
<b>WA8 - STSF West</b>																					
Excavating material at Workfront - WA8	202	95	14	0	185000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Hauling material within Workfront - WA8	735	217	22	85	185000 t/y		0.02649 kg/t		0.00783 kg/t		0.001 kg/t	-	-	-	-	-	4	151	1.0	-	-
Unloading material at Workfront - WA8	202	95	14	0	185000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material at Workfront - WA8	40	19	3	0	37000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Hauling material from BLU dump to Workfront - WA	105807	31267	3174	85	3598402 t/y		0.19603 kg/t		0.05793 kg/t		0.006 kg/t	-	-	-	-	-	4	151	7.4	-	-
Unloading material at Workfront - WA8	3925	1856	281	0	3598402 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material - WA8	785	371	56	0	719680 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Dozer activity at Workfront - WA8	21845	4046	2294	0	7026 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5	-
<b>MOD16 - construction</b>																					
Hauling material from dump to platform / drainage	114379	33900	3431	85	4147748 t/y		0.18384 kg/t		0.05433 kg/t		0.006 kg/t	-	-	-	-	-	4	151	6.9	-	-
Unloading material at platform / drainage zone	4524	2140	324	0	4147748 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-
Rehandle material at platform / drainage zone	905	428	65	0	829550 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-				



**Cadia Mine, Table D2**  
**Fugitive dust (Mod 16 construction and operation)**

Activity	Annual emissions (kg/y)				TSP			PM10			PM2.5			Variables								
	TSP	PM10	PM2.5	Control (%)	Intensity	Units	Factor	Units	Factor	Units	Factor	Units	Area (m <sup>2</sup> )	(wsg2.2)*1.3	Moisture (%)	(m)	kg/VKT	truck	km/trip	Slit (%)	Speed (km/h)	
<b>Existing mill and surface activities</b>																						
General construction work	27572	5452	2895	0	3785 h/y		7.3 kg/h		1.4 kg/h		0.765 kg/h	-	-	2	-	-	-	-	-	-	5	-
Excavators loading waste to trucks	1414	669	101	0	1296296 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Hauling waste to dumps	13136	3882	394	85	1296296 t/y		0.06756 kg/t		0.01996 kg/t		0.002 kg/t	-	-	-	-	-	-	4	225	3.8	-	-
Unloading waste to dumps	1414	669	101	0	1296296 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Dozers shaping dump	26257	4863	2757	0	8445 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	-	5	-
Secondary ore crushing	17850	7140	893	90	5950000 t/y		0.03 kg/t		0.012 kg/t		0.002 kg/t	-	-	-	-	-	-	-	-	-	-	-
Loading crushed ore to stockpile from U/G	26479	12524	1896	0	35000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Loading ore at Ore Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to COS stockpile	9569	2828	287	85	2000000 t/y		0.03190 kg/t		0.00943 kg/t		0.001 kg/t	-	-	-	-	-	-	4	125	1.0	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Loading ore at COS Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to Ore Stockpile	11962	3535	359	85	2500000 t/y		0.03190 kg/t		0.00943 kg/t		0.001 kg/t	-	-	-	-	-	-	4	125	1.0	-	-
Unloading ore at Ore Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Loading ore at COS Stockpile for Green & Yellow	3404	1610	244	0	4500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to Green Stockpile	28708	8483	861	85	2000000 t/y		0.09569 kg/t		0.02828 kg/t		0.003 kg/t	-	-	-	-	-	-	4	125	3.0	-	-
Unloading ore at Green Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Rehandle ore at Green Stockpile	303	143	22	0	400000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Loading ore at Green Stockpile	757	358	54	0	1000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to COS Stockpile	14354	4242	431	85	1000000 t/y		0.09569 kg/t		0.02828 kg/t		0.003 kg/t	-	-	-	-	-	-	4	125	3.0	-	-
Unloading ore at COS Stockpile	757	358	54	0	1000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to Yellow Stockpile	26316	7777	789	85	2500000 t/y		0.07018 kg/t		0.02074 kg/t		0.002 kg/t	-	-	-	-	-	-	4	125	2.2	-	-
Unloading ore at Yellow Stockpile	1891	895	135	0	2500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Rehandle ore at Yellow Stockpile	378	179	27	0	500000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Loading ore at Yellow Stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Hauling ore to COS stockpile	21053	6221	632	85	2000000 t/y		0.07018 kg/t		0.02074 kg/t		0.002 kg/t	-	-	-	-	-	-	4	125	2.2	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Ore processing in mill	13239	6262	948	90	175000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Conveyor transfer points	7944	3757	569	70	35000000 t/y		0.00076 kg/t		0.00036 kg/t		0.0001 kg/t	-	2.30	5	-	-	-	-	-	-	-	-
Wind erosion from waste rock dumps	317112	158556	23783	50	181 ha		3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly	-	-	-	-	-	-	-	-	-	-	-
Wind erosion from pit tailing storage facility	103368	51684	7753	50	59 ha		3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly	-	-	-	-	-	-	-	-	-	-	-
Wind erosion from subsidence zone	24528	12264	1840	50	14 ha		3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly	-	-	-	-	-	-	-	-	-	-	-
Wind erosion from exposed areas / stockpiles	122640	61320	9198	50	70 ha		3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly	-	-	-	-	-	-	-	-	-	-	-
Wind erosion from TSFs	1054704	527352	79103	50	602 ha		3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly	-	-	-	-	-	-	-	-	-	-	-
Graders	20877	7294	647	0	33920 km/y		0.61547 kg/VKT		0.2150 kg/VKT		0.019 kg/VKT	-	-	-	-	-	-	-	-	-	-	8
Ventilation shaft emissions (see vent dust tab)																						
<b>TSF Construction</b>																						
<b>WA13 - BLU Dump</b>																						
Loading material to hopper	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Crushing material - primary	10777	4850	898	0	17962064 t/y		0.00060 kg/t		0.00027 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-	-
Crushing material - secondary	10777	4850	898	0	17962064 t/y		0.00060 kg/t		0.00027 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-	-
Screening material	19758	6646	539	0	17962064 t/y		0.00110 kg/t		0.00037 kg/t		0.0001 kg/t	-	-	-	-	-	-	-	-	-	-	-
Unloading material at stockpile area	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Rehandle material	3919	1853	281	0	3592413 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Loading material from stockpile or extraction area to	19593	9267	1403	0	17962064 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Dozer activity at Workfront	25423	4709	2669	0	8177 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	-	5	-
<b>WA7 - Western Intermediate Stockpile</b>																						
Excavating material at Workfront - WA7	2260	1069	162	0	2072100 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Hauling material within Workfront - WA7	7271	2149	218	85	2072100 t/y		0.02339 kg/t		0.00691 kg/t		0.001 kg/t	-	-	-	-	-	-	4	171	1.0	-	-
Unloading material at Workfront - WA7	2260	1069	162	0	2072100 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Rehandle material at Workfront - WA7	452	214	32	0	414420 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Hauling material from BLU dump to Workfront	33418	9875	1003	85	2267625 t/y		0.09825 kg/t		0.02903 kg/t		0.003 kg/t	-	-	-	-	-	-	4	171	4.2	-	-
Unloading material at Workfront	2474	1170	177	0	2267625 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Rehandle material	495	234	35	0	453525 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Dozer activity at Workfront - WA7	19556	3622	2053	0	6290 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	-	5	-
<b>WA8 - STSF West</b>																						
Excavating material at Workfront - WA8	202	95	14	0	185000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Hauling material within Workfront - WA8	735	217	22	85	185000 t/y		0.02649 kg/t		0.00783 kg/t		0.001 kg/t	-	-	-	-	-	-	4	151	1.0	-	-
Unloading material at Workfront - WA8	202	95	14	0	185000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Rehandle material at Workfront - WA8	40	19	3	0	37000 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Hauling material from BLU dump to Workfront - WA	105807	31267	3174	85	3598402 t/y		0.19603 kg/t		0.05793 kg/t		0.006 kg/t	-	-	-	-	-	-	4	151	7.4	-	-
Unloading material at Workfront - WA8	3925	1856	281	0	3598402 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Rehandle material - WA8	785	371	56	0	719680 t/y		0.00109 kg/t		0.00052 kg/t		0.0001 kg/t	-	2.30	3.85	-	-	-	-	-	-	-	-
Dozer activity at Workfront - WA8	21845	4046	2294	0	7026 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	-	5	-
<b>MOD16 - construction</b>																						
Hauling material from dump to platform / drainage	8352	2468	251	85	302860 t/y		0.18384 kg/t		0.05433 kg/t		0.006 kg/t											



**Cadia Mine, Table D3**  
**Fugitive dust (mod 16 operation)**

Activity	Annual emissions (kg/y)			Control (%)	Intensity	TSP		PM10		PM2.5		Variables								
	TSP	PM10	PM2.5			Units	Factor	Units	Factor	Units	Factor	Units	Area (m <sup>2</sup> )	(w/2.2/1.3)	Moisture (%)	(m)	kg/VKT	t/truck	km/hrip	Silt (%)
<b>Existing mill and surface activities</b>																				
General construction work	27572	5452	2895	0	3785 h/y		7.3 kg/h		1.4 kg/h		0.765 kg/h	-	-	2	-	-	-	-	-	5
Excavators loading waste to trucks	1414	669	101	0	1296296 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Hauling waste to dumps	13136	3862	394	85	1296296 t/y	0.06759 kg/t		0.01996 kg/t		0.002 kg/t		-	-	-	-	4	225	3.8	-	-
Unloading waste to dumps	1414	669	101	0	1296296 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Dozers shaping dump	26257	4863	2757	0	8445 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5
Secondary ore crushing	17850	7140	833	90	5950000 t/y	0.03 kg/t		0.012 kg/t		0.002 kg/t		-	-	-	-	-	-	-	-	-
Loading crushed ore to stockpile from U/G	26479	12524	1896	0	3500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Loading ore at Ore Stockpile	1513	716	108	0	2000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to COS stockpile	9569	2828	287	85	2000000 t/y	0.03190 kg/t		0.00943 kg/t		0.001 kg/t		-	-	-	4	125	1.0	-	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Loading ore at COS Stockpile	1891	895	135	0	2500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to Ore Stockpile	11962	3535	359	85	2500000 t/y	0.03190 kg/t		0.00943 kg/t		0.001 kg/t		-	-	-	4	125	1.0	-	-	-
Unloading ore at Ore Stockpile	1891	895	135	0	2500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Loading ore at COS Stockpile for Green & Yellow	3404	1610	244	0	4500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to Green Stockpile	28708	8483	861	85	2000000 t/y	0.09569 kg/t		0.02828 kg/t		0.003 kg/t		-	-	-	4	125	3.0	-	-	-
Unloading ore at Green Stockpile	1513	716	108	0	2000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Rehandle ore at Green Stockpile	303	143	22	0	400000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Loading ore at Green Stockpile	757	358	54	0	1000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to COS Stockpile	14354	4242	431	85	1000000 t/y	0.09569 kg/t		0.02828 kg/t		0.003 kg/t		-	-	-	4	125	3.0	-	-	-
Unloading ore at COS Stockpile	757	358	54	0	1000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to Yellow Stockpile	26316	7777	789	85	2500000 t/y	0.07018 kg/t		0.02074 kg/t		0.002 kg/t		-	-	-	4	125	2.2	-	-	-
Unloading ore at Yellow Stockpile	1891	895	135	0	2500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Rehandle ore at Yellow Stockpile	378	179	27	0	500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Loading ore at Yellow Stockpile	1513	716	108	0	2000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Hauling ore to COS stockpile	21053	6221	632	85	2000000 t/y	0.07018 kg/t		0.02074 kg/t		0.002 kg/t		-	-	-	4	125	2.2	-	-	-
Unloading ore at COS stockpile	1513	716	108	0	2000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Ore processing in mill	13239	6262	946	90	17500000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Conveyor transfer points	7944	3757	569	70	35000000 t/y	0.00076 kg/t		0.00036 kg/t		0.0001 kg/t		-	2.30	5	-	-	-	-	-	-
Wind erosion from waste rock dumps	31712	158556	23783	50	181 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-	-	-	-	-	-
Wind erosion from pit tailing storage facility	103368	51684	7753	50	59 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-	-	-	-	-	-
Wind erosion from subsidence zone	24528	12264	1840	50	14 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-	-	-	-	-	-
Wind erosion from exposed areas / stockpiles	122640	61320	9198	50	70 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-	-	-	-	-	-
Wind erosion from TSFs	1054704	527352	79103	50	602 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-	-	-	-	-	-
Graders	20877	7294	647	0	33920 km/y	0.61547 kg/VKT		0.2150 kg/VKT		0.019 kg/VKT		-	-	-	-	-	-	-	-	8
Ventilation shaft emissions (see vent dust tab)																				
<b>TSF Construction</b>																				
<b>WA13 - BLU Dump</b>																				
Loading material to hopper	19593	9267	1403	0	17962064 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Crushing material - primary	10777	4850	898	0	17962064 t/y	0.00060 kg/t		0.00027 kg/t		0.0001 kg/t		-	-	-	-	-	-	-	-	-
Crushing material - secondary	10777	4850	898	0	17962064 t/y	0.00060 kg/t		0.00027 kg/t		0.0001 kg/t		-	-	-	-	-	-	-	-	-
Screening material	19758	6646	539	0	17962064 t/y	0.00110 kg/t		0.00037 kg/t		0.0000 kg/t		-	-	-	-	-	-	-	-	-
Unloading material at stockpile area	19593	9267	1403	0	17962064 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material	3919	1853	281	0	3592413 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Loading material from stockpile or extraction area to	19593	9267	1403	0	17962064 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Dozer activity at Workfront	25423	4709	2669	0	8177 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5
<b>WA7 - Western Intermediate Stockpile</b>																				
Excavating material at Workfront - WA7	2260	1069	162	0	2072100 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Hauling material within Workfront - WA7	7271	2149	218	85	2072100 t/y	0.02339 kg/t		0.00691 kg/t		0.001 kg/t		-	-	-	4	171	1.0	-	-	-
Unloading material at Workfront - WA7	2260	1069	162	0	2072100 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material at Workfront - WA7	452	214	32	0	414420 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Hauling material from BLU dump to Workfront	33418	9875	1003	85	2267625 t/y	0.09825 kg/t		0.02903 kg/t		0.003 kg/t		-	-	-	4	171	4.2	-	-	-
Unloading material at Workfront	2474	1170	177	0	2267625 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material	495	234	35	0	453525 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Dozer activity at Workfront - WA7	19556	3622	2053	0	6290 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5
<b>WA8 - STSF West</b>																				
Excavating material at Workfront - WA8	202	95	14	0	185000 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Hauling material within Workfront - WA8	735	217	22	85	185000 t/y	0.02649 kg/t		0.00783 kg/t		0.001 kg/t		-	-	-	4	151	1.0	-	-	-
Unloading material at Workfront - WA8	202	95	14	0	185000 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material at Workfront - WA8	40	19	3	0	37000 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Hauling material from BLU dump to Workfront - WA8	105807	31267	3174	85	3598402 t/y	0.19603 kg/t		0.05793 kg/t		0.006 kg/t		-	-	-	4	151	7.4	-	-	-
Unloading material at Workfront - WA8	3925	1856	281	0	3598402 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material - WA8	785	371	56	0	719680 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Dozer activity at Workfront - WA8	21845	4046	2294	0	7026 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5
<b>MOD16 - construction</b>																				
Hauling material from dump to platform / drainage	0	0	0	85	0 t/y	0.18384 kg/t		0.05433 kg/t		0.006 kg/t		-	-	-	4	151	6.9	-	-	-
Unloading material at platform / drainage zone	0	0	0	0	0 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Rehandle material at platform / drainage zone	0	0	0	0	0 t/y	0.00109 kg/t		0.00052 kg/t		0.0001 kg/t		-	2.30	3.85	-	-	-	-	-	-
Dozer shaping at platform / drainage zone	0	0	0	0	0 h/y		3.1 kg/h		0.6 kg/h		0.326 kg/h	-	-	3.85	-	-	-	-	-	5
Wind erosion from platform / drainage areas	0	0	0	0	0 ha	3504.0 kg/haly		1752.0 kg/haly		262.8 kg/haly		-	-	-	-					







ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 19593 kg/y TSP 9267 kg/y PM10 1403 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Crushing material - primary  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 10777 kg/y TSP 4850 kg/y PM10 898 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Crushing material - secondary  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 10777 kg/y TSP 4850 kg/y PM10 898 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Screening material  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 19758 kg/y TSP 6646 kg/y PM10 539 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at stockpile area  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 19593 kg/y TSP 9267 kg/y PM10 1403 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 3919 kg/y TSP 1853 kg/y PM10 281 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Loading material from stockpile or extraction area to haul truck  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 19593 kg/y TSP 9267 kg/y PM10 1403 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 25423 kg/y TSP 4709 kg/y PM10 2669 kg/y PM2.5  
 FROM SOURCES : 7  
 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA7 - Western Intermediate Stockpile  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA7  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 2260 kg/y TSP 1069 kg/y PM10 162 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :

0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA7  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 7271 kg/y TSP 2149 kg/y PM10 218 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA7  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 2260 kg/y TSP 1069 kg/y PM10 162 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA7  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 452 kg/y TSP 214 kg/y PM10 32 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 33418 kg/y TSP 9875 kg/y PM10 1003 kg/y PM2.5  
 FROM SOURCES : 11  
 13 14 15 16 17 18 19 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 2474 kg/y TSP 1170 kg/y PM10 177 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 495 kg/y TSP 234 kg/y PM10 35 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA7  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 19556 kg/y TSP 3622 kg/y PM10 2053 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA8 - STSF West  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive

<p>DUST EMISSION : 735 kg/y TSP 217 kg/y PM10 22 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA8                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA8                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 40 kg/y TSP 19 kg/y PM10 3 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA8                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 105807 kg/y TSP 31267 kg/y PM10 3174 kg/y PM2.5                  FROM SOURCES : 16                  13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA8                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 3925 kg/y TSP 1856 kg/y PM10 281 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA8                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 785 kg/y TSP 371 kg/y PM10 56 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA8                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 21845 kg/y TSP 4046 kg/y PM10 2294 kg/y PM2.5                  FROM SOURCES : 3                  31 32 42                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : MOD16 - construction                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 1                  1                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from dump to platform / drainage                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 114379 kg/y TSP 33800 kg/y PM10 3431 kg/y PM2.5                  FROM SOURCES : 17                  17 18 19 25 26 27 28 29 77 78 79 80 106 107 108 109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material to platform / drainage zone                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 4524 kg/y TSP 2140 kg/y PM10 324 kg/y PM2.5                  FROM SOURCES : 9                  77 78 79 80 106 107 108 109 110</p>	<p>HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at platform / drainage zone                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 905 kg/y TSP 428 kg/y PM10 65 kg/y PM2.5                  FROM SOURCES : 9                  77 78 79 80 106 107 108 109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer shaping at platform / drainage zone                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 11348 kg/y TSP 2102 kg/y PM10 1192 kg/y PM2.5                  FROM SOURCES : 6                  77 78 79 80 109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wind erosion from platform / drainage areas                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 161885 kg/y TSP 80942 kg/y PM10 12141 kg/y PM2.5                  FROM SOURCES : 9                  77 78 79 80 106 107 108 109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : -                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  103 104                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA11 - STSF South                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 1                  1                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA11                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5                  FROM SOURCES : 2                  100 101                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material within Workfront - WA11                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 459 kg/y TSP 136 kg/y PM10 14 kg/y PM2.5                  FROM SOURCES : 2                  100 101                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA11                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5                  FROM SOURCES : 2                  100 101                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA11                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 25 kg/y TSP 12 kg/y PM10 2 kg/y PM2.5                  FROM SOURCES : 2                  100 101                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p>
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<p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA11  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 107472 kg/y TSP 31759 kg/y PM10 3224 kg/y PM2.5  FROM SOURCES : 17  13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 100 101  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA11  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 2599 kg/y TSP 1229 kg/y PM10 186 kg/y PM2.5  FROM SOURCES : 2  100 101  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA11  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 520 kg/y TSP 246 kg/y PM10 37 kg/y PM2.5  FROM SOURCES : 2  100 101  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA11  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 18108 kg/y TSP 3354 kg/y PM10 1901 kg/y PM2.5  FROM SOURCES : 2  100 101  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA12 - STSF Dyke  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA12  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  102 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA12  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  102 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA12  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 52035 kg/y TSP 15377 kg/y PM10 1561 kg/y PM2.5  FROM SOURCES : 22  13 14 15 16 17 18 19 58 59 60 61 72 73 81 102 105 106 107 108 111 112 113  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA12  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 327 kg/y TSP 155 kg/y PM10 23 kg/y PM2.5  FROM SOURCES : 2  102 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA12  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 65 kg/y TSP 31 kg/y PM10 5 kg/y PM2.5</p>	<p>FROM SOURCES : 2  102 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA12  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 8855 kg/y TSP 1640 kg/y PM10 930 kg/y PM2.5  FROM SOURCES : 2  102 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : MOD16 - operation  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading sands to cells  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 6  77 78 79 80 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer working on cells  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 6  77 78 79 80 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling reject tailings to stockpiles  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wind erosion from cells  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 6  77 78 79 80 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wind erosion from stockpiles  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at stockpiles  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA15 - NTSF Western Wall  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront  ACTIVITY TYPE : Wind sensitive</p>
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DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 4
25 26 27 28
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to
Workfront - WA15
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 11974 kg/y TSP  3538 kg/y PM10  359
kg/y PM2.5
FROM SOURCES  : 10
14 15 16 17 18 19 25 26 27 28
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront -
WA15
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1151 kg/y TSP  545 kg/y PM10  82 kg/y
PM2.5
FROM SOURCES  : 4
25 26 27 28
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA15
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 230 kg/y TSP  109 kg/y PM10  16 kg/y
PM2.5
FROM SOURCES  : 4
25 26 27 28
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA15
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 3625 kg/y TSP  671 kg/y PM10  381
kg/y PM2.5
FROM SOURCES  : 4
25 26 27 28
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA16 - Eastern Intermediate Stockpile
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront -
WA16
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 961 kg/y TSP  454 kg/y PM10  69 kg/y
PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront -
WA16
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 3571 kg/y TSP  1055 kg/y PM10  107
kg/y PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront -
WA16
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 961 kg/y TSP  454 kg/y PM10  69 kg/y
PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront -
WA16
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 192 kg/y TSP  91 kg/y PM10  14 kg/y
PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to
Workfront
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 19447 kg/y TSP  5747 kg/y PM10  583
kg/y PM2.5
FROM SOURCES  : 15
14 15 16 17 18 19 25 26 27 28 106 107 108 109 110
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 608 kg/y TSP  288 kg/y PM10  44 kg/y
PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 122 kg/y TSP  58 kg/y PM10  9 kg/y
PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA16
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 17794 kg/y TSP  3295 kg/y PM10  1868
kg/y PM2.5
FROM SOURCES  : 3
106 107 108
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA17 - Remediation Works
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront -
WA17
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 2
109 110
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront -
WA17
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 2
109 110
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to
Workfront - WA17
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 40929 kg/y TSP  12095 kg/y PM10  1228
kg/y PM2.5
FROM SOURCES  : 13
13 14 15 16 17 18 19 25 26 27 28 109 110
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront -
WA17
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 6439 kg/y TSP  3046 kg/y PM10  461
kg/y PM2.5
FROM SOURCES  : 2
109 110
HOURS OF DAY  :
0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA17

```

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1288 kg/y TSP 609 kg/y PM10 92 kg/y PM2.5

FROM SOURCES : 2  
 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA17  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 21907 kg/y TSP 4057 kg/y PM10 2300 kg/y PM2.5

FROM SOURCES : 2  
 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Grading roads  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 132315 kg/y TSP 46780 kg/y PM10 1450 kg/y PM2.5

FROM SOURCES : 51  
 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42  
 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60  
 61 100 101 102 103 104 105 106 107 108 109 110 111 112  
 113  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Construction area wind erosion  
 ACTIVITY TYPE : Wind erosion  
 DUST EMISSION : 520344 kg/y TSP 260172 kg/y PM10 39026 kg/y PM2.5

FROM SOURCES : 22  
 25 26 27 28 29 30 31 32 100 101 102 103 104 105 106  
 107 108 109 110 111 112 113  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Recovered sands  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5

FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 1 0

ACTIVITY NAME : Pumping tailings to Cyclone Sands Plant  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Processing tailings at Cyclone Sands Plant  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Unloading slimes to deposition pad - pumped to tailings  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Unloading sands to deposition pad  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Rehandle sands at deposition pads  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 303 kg/y TSP 143 kg/y PM10 22 kg/y PM2.5

FROM SOURCES : 2

55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Dozers working on sands at deposition pads

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 108779 kg/y TSP 26262 kg/y PM10 11422 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Rehandle sands at dump

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 303 kg/y TSP 143 kg/y PM10 22 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Wind erosion of stockpiles

ACTIVITY TYPE : Wind erosion  
 DUST EMISSION : 1752 kg/y TSP 876 kg/y PM10 131 kg/y PM2.5

FROM SOURCES : 2  
 55 56  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Ridgeway

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5

FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling ore to stockpile with Moxy

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 3000 kg/y TSP 887 kg/y PM10 90 kg/y PM2.5

FROM SOURCES : 3  
 98 99 115  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Emplacing ore at stockpile

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5

FROM SOURCES : 3  
 98 99 115  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Rehandle at stockpile

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 303 kg/y TSP 143 kg/y PM10 22 kg/y PM2.5

FROM SOURCES : 3  
 98 99 115  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading to haul truck

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5

FROM SOURCES : 3  
 98 99 115  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling ore to processing plant - unsealed

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 216000 kg/y TSP 63830 kg/y PM10 6480 kg/y PM2.5

FROM SOURCES : 3  
 98 99 115  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling ore to processing plant - sealed



ACTIVITY NAME : Topsoil removal by scraper  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 810 kg/y TSP 204 kg/y PM10 41 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Wind erosion of exposed area  
 ACTIVITY TYPE : Wind erosion  
 DUST EMISSION : 8760 kg/y TSP 4380 kg/y PM10 657 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 1

Pit retention sources:  
 116 117 118 119 120 121 122 123

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 26257 kg/y TSP 4863 kg/y PM10 2757 kg/y PM2.5  
 FROM SOURCES : 12  
 8 9 10 11 12 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Secondary ore crushing  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 17850 kg/y TSP 7140 kg/y PM10 893 kg/y PM2.5  
 FROM SOURCES : 1  
 4  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading crushed ore to stockpile from U/G  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 26479 kg/y TSP 12524 kg/y PM10 1896 kg/y PM2.5  
 FROM SOURCES : 4  
 1 2 3 4  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading ore at Ore Stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5  
 FROM SOURCES : 4  
 1 2 3 4  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling ore to COS stockpile  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 9569 kg/y TSP 2828 kg/y PM10 287 kg/y PM2.5  
 FROM SOURCES : 9  
 1 2 3 4 7 8 9 10 11  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Unloading ore at COS stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5  
 FROM SOURCES : 5  
 7 8 9 10 11  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading ore at COS Stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1891 kg/y TSP 895 kg/y PM10 135 kg/y PM2.5  
 FROM SOURCES : 4  
 7 8 9 10  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling ore to Ore Stockpile  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 11962 kg/y TSP 3535 kg/y PM10 359 kg/y PM2.5  
 FROM SOURCES : 8  
 1 2 3 4 7 8 9 10  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Unloading ore at Ore Stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1891 kg/y TSP 895 kg/y PM10 135 kg/y PM2.5  
 FROM SOURCES : 4  
 1 2 3 4  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading ore at COS Stockpile for Green & Yellow  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 3404 kg/y TSP 1610 kg/y PM10 244 kg/y PM2.5  
 FROM SOURCES : 4  
 7 8 9 10

**Source allocations (fugitive sources construction and operation)**

-----ACTIVITY SUMMARY-----

ACTIVITY NAME : Existing mill and surface activities  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 1 0

ACTIVITY NAME : General construction work  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 27572 kg/y TSP 5452 kg/y PM10 2895 kg/y PM2.5  
 FROM SOURCES : 6  
 1 2 3 4 5 6  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading waste to trucks  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1414 kg/y TSP 669 kg/y PM10 101 kg/y PM2.5  
 FROM SOURCES : 2  
 2 3  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Hauling waste to dumps  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 13136 kg/y TSP 3882 kg/y PM10 394 kg/y PM2.5  
 FROM SOURCES : 12  
 2 3 7 8 9 10 11 12 13 14 15 16  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Unloading waste to dumps  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1414 kg/y TSP 669 kg/y PM10 101 kg/y PM2.5  
 FROM SOURCES : 9  
 8 9 10 11 12 13 14 15 16  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Dozers shaping dump





DUST EMISSION : 495 kg/y TSP 234 kg/y PM10 35 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA7  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 19556 kg/y TSP 3622 kg/y PM10 2053 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA8 - STSF West  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 735 kg/y TSP 217 kg/y PM10 22 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 40 kg/y TSP 19 kg/y PM10 3 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 105807 kg/y TSP 31267 kg/y PM10 3174 kg/y PM2.5  
 FROM SOURCES : 16  
 13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 3925 kg/y TSP 1856 kg/y PM10 281 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 785 kg/y TSP 371 kg/y PM10 56 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0  
 ACTIVITY NAME : Dozer activity at Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 21845 kg/y TSP 4046 kg/y PM10 2294 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : MOD16 - construction  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from dump to platform / drainage  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 8352 kg/y TSP 2468 kg/y PM10 251 kg/y PM2.5  
 FROM SOURCES : 17  
 17 18 19 25 26 27 28 29 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material to platform / drainage zone  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 330 kg/y TSP 156 kg/y PM10 24 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at platform / drainage zone  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 66 kg/y TSP 31 kg/y PM10 5 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer shaping at platform / drainage zone  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 3783 kg/y TSP 701 kg/y PM10 397 kg/y PM2.5  
 FROM SOURCES : 6  
 77 78 79 80 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Wind erosion from platform / drainage areas  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 80942 kg/y TSP 40471 kg/y PM10 6071 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : -  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 2  
 103 104  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA11 - STSF South  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA11

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA11  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 459 kg/y TSP 136 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA11  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA11  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 25 kg/y TSP 12 kg/y PM10 2 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA11  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 107472 kg/y TSP 31759 kg/y PM10 3224 kg/y PM2.5  
 FROM SOURCES : 17  
 13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA11  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 2599 kg/y TSP 1229 kg/y PM10 186 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA11  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 520 kg/y TSP 246 kg/y PM10 37 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA11  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 18108 kg/y TSP 3354 kg/y PM10 1901 kg/y PM2.5  
 FROM SOURCES : 2  
 100 101  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA12 - STSF Dyke  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA12  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 2

102 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA12  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 2  
 102 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA12  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 52035 kg/y TSP 15377 kg/y PM10 1561 kg/y PM2.5  
 FROM SOURCES : 22  
 13 14 15 16 17 18 19 58 59 60 61 72 73 81 102 105 106 107 108 111 112 113  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA12  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 327 kg/y TSP 155 kg/y PM10 23 kg/y PM2.5  
 FROM SOURCES : 2  
 102 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA12  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 65 kg/y TSP 31 kg/y PM10 5 kg/y PM2.5  
 FROM SOURCES : 2  
 102 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA12  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 8855 kg/y TSP 1640 kg/y PM10 930 kg/y PM2.5  
 FROM SOURCES : 2  
 102 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : MOD16 - operation  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading sands to cells  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 7944 kg/y TSP 3757 kg/y PM10 569 kg/y PM2.5  
 FROM SOURCES : 6  
 77 78 79 80 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer working on cells  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 20720 kg/y TSP 5002 kg/y PM10 2176 kg/y PM2.5  
 FROM SOURCES : 6  
 77 78 79 80 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling reject tailings to stockpiles  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 110557 kg/y TSP 32671 kg/y PM10 3317 kg/y PM2.5  
 FROM SOURCES : 5  
 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Wind erosion from cells  
 ACTIVITY TYPE : Wind sensitive

DUST EMISSION : 40471 kg/y TSP 20236 kg/y PM10 3035 kg/y PM2.5  
 FROM SOURCES : 6  
 77 78 79 80 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Wind erosion from stockpiles  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 93907 kg/y TSP 46954 kg/y PM10 7043 kg/y PM2.5  
 FROM SOURCES : 5  
 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at stockpiles  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 8633 kg/y TSP 2084 kg/y PM10 906 kg/y PM2.5  
 FROM SOURCES : 5  
 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA15 - NTSF Western Wall  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA15  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 11974 kg/y TSP 3538 kg/y PM10 359 kg/y PM2.5  
 FROM SOURCES : 10  
 14 15 16 17 18 19 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA15  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1151 kg/y TSP 545 kg/y PM10 82 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA15  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 230 kg/y TSP 109 kg/y PM10 16 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA15  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 3625 kg/y TSP 671 kg/y PM10 381 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA16 - Eastern Intermediate Stockpile

ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA16  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 961 kg/y TSP 454 kg/y PM10 69 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA16  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 3571 kg/y TSP 1055 kg/y PM10 107 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA16  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 961 kg/y TSP 454 kg/y PM10 69 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA16  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 192 kg/y TSP 91 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 19447 kg/y TSP 5747 kg/y PM10 583 kg/y PM2.5  
 FROM SOURCES : 15  
 14 15 16 17 18 19 25 26 27 28 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 608 kg/y TSP 288 kg/y PM10 44 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 122 kg/y TSP 58 kg/y PM10 9 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA16  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 17794 kg/y TSP 3295 kg/y PM10 1868 kg/y PM2.5  
 FROM SOURCES : 3  
 106 107 108  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA17 - Remediation Works  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1

<p>1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA17  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA17  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA17  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 40929 kg/y TSP 12095 kg/y PM10 1228 kg/y PM2.5  FROM SOURCES : 13  13 14 15 16 17 18 19 25 26 27 28 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA17  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 6439 kg/y TSP 3046 kg/y PM10 461 kg/y PM2.5  FROM SOURCES : 2  109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA17  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 1288 kg/y TSP 609 kg/y PM10 92 kg/y PM2.5  FROM SOURCES : 2  109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA17  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 21907 kg/y TSP 4057 kg/y PM10 2300 kg/y PM2.5  FROM SOURCES : 2  109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Grading roads  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 132315 kg/y TSP 46780 kg/y PM10 1450 kg/y PM2.5  FROM SOURCES : 51  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42  43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60  61 100 101 102 103 104 105 106 107 108 109 110 111 112 113  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Construction area wind erosion  ACTIVITY TYPE : Wind erosion  DUST EMISSION : 520344 kg/y TSP 260172 kg/y PM10 39026 kg/y PM2.5  FROM SOURCES : 22  25 26 27 28 29 30 31 32 100 101 102 103 104 105 106  107 108 109 110 111 112 113  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Recovered sands  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :</p>	<p>1 0</p> <p>ACTIVITY NAME : Pumping tailings to Cyclone Sands Plant  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Processing tailings at Cyclone Sands Plant  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Unloading slimes to deposition pad - pumped to tailings  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Unloading sands to deposition pad  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Rehandle sands at deposition pads  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Dozers working on sands at deposition pads  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Rehandle sands at dump  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Wind erosion of stockpiles  ACTIVITY TYPE : Wind erosion  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 2  55 56  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Ridgeway  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Hauling ore to stockpile with Moxy  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 3000 kg/y TSP 887 kg/y PM10 90 kg/y PM2.5  FROM SOURCES : 3  98 99 115  HOURS OF DAY :  1</p> <p>ACTIVITY NAME : Emplacing ore at stockpile</p>
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0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 2235 kg/y TSP 660 kg/y PM10 67 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1414 kg/y TSP 669 kg/y PM10 101 kg/y PM2.5  
 FROM SOURCES : 2  
 2 3  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Emplacing material  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 152 kg/y TSP 72 kg/y PM10 11 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling waste to dumps  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 13136 kg/y TSP 3882 kg/y PM10 394 kg/y PM2.5  
 FROM SOURCES : 12  
 2 3 7 8 9 10 11 12 13 14 15 16  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Rehandle material  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 30 kg/y TSP 14 kg/y PM10 2 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading waste to dumps  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1414 kg/y TSP 669 kg/y PM10 101 kg/y PM2.5  
 FROM SOURCES : 9  
 8 9 10 11 12 13 14 15 16  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Dozers working  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 40198 kg/y TSP 9786 kg/y PM10 4221 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozers shaping dump  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 26257 kg/y TSP 4863 kg/y PM10 2757 kg/y PM2.5  
 FROM SOURCES : 12  
 8 9 10 11 12 13 14 15 16 17 18 19  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Topsoil removal by scraper  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 810 kg/y TSP 204 kg/y PM10 41 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Secondary ore crushing  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 17850 kg/y TSP 7140 kg/y PM10 893 kg/y PM2.5  
 FROM SOURCES : 1  
 4  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Wind erosion of exposed area  
 ACTIVITY TYPE : Wind erosion  
 DUST EMISSION : 8760 kg/y TSP 4380 kg/y PM10 657 kg/y PM2.5  
 FROM SOURCES : 9  
 42 43 44 45 46 47 48 49 50  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Loading crushed ore to stockpile from U/G  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 26479 kg/y TSP 12524 kg/y PM10 1896 kg/y PM2.5  
 FROM SOURCES : 4  
 1 2 3 4  
 HOURS OF DAY :  
 1

Pit retention sources:  
 116 117 118 119 120 121 122 123

ACTIVITY NAME : Loading ore at Ore Stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5  
 FROM SOURCES : 4  
 1 2 3 4  
 HOURS OF DAY :  
 1

**Source allocations (fugitive sources operation)**

-----ACTIVITY SUMMARY-----

ACTIVITY NAME : Existing mill and surface activities  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 1 0

ACTIVITY NAME : Hauling ore to COS stockpile  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 9569 kg/y TSP 2828 kg/y PM10 287 kg/y PM2.5  
 FROM SOURCES : 9  
 1 2 3 4 7 8 9 10 11  
 HOURS OF DAY :  
 1

ACTIVITY NAME : General construction work  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 27572 kg/y TSP 5452 kg/y PM10 2895 kg/y PM2.5  
 FROM SOURCES : 6  
 1 2 3 4 5 6  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0

ACTIVITY NAME : Unloading ore at COS stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1513 kg/y TSP 716 kg/y PM10 108 kg/y PM2.5  
 FROM SOURCES : 5  
 7 8 9 10 11  
 HOURS OF DAY :  
 1

ACTIVITY NAME : Excavators loading waste to trucks

ACTIVITY NAME : Loading ore at COS Stockpile  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 1891 kg/y TSP 895 kg/y PM10 135 kg/y PM2.5  
 FROM SOURCES : 4  
 7 8 9 10  
 HOURS OF DAY :





FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 33418 kg/y TSP 9875 kg/y PM10 1003 kg/y PM2.5  
 FROM SOURCES : 11  
 13 14 15 16 17 18 19 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 2474 kg/y TSP 1170 kg/y PM10 177 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 495 kg/y TSP 234 kg/y PM10 35 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA7  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 19556 kg/y TSP 3622 kg/y PM10 2053 kg/y PM2.5  
 FROM SOURCES : 4  
 25 26 27 28  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : WA8 - STSF West  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Excavating material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material within Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 735 kg/y TSP 217 kg/y PM10 22 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 202 kg/y TSP 95 kg/y PM10 14 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 40 kg/y TSP 19 kg/y PM10 3 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 105807 kg/y TSP 31267 kg/y PM10 3174 kg/y PM2.5  
 FROM SOURCES : 16  
 13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material at Workfront - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 3925 kg/y TSP 1856 kg/y PM10 281 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material - WA8  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 785 kg/y TSP 371 kg/y PM10 56 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer activity at Workfront - WA8  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 21845 kg/y TSP 4046 kg/y PM10 2294 kg/y PM2.5  
 FROM SOURCES : 3  
 31 32 42  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : MOD16 - construction  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 1  
 1  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Hauling material from dump to platform / drainage  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 17  
 17 18 19 25 26 27 28 29 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Unloading material to platform / drainage zone  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Rehandle material at platform / drainage zone  
 ACTIVITY TYPE : Wind insensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Dozer shaping at platform / drainage zone  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 6  
 77 78 79 80 109 110  
 HOURS OF DAY :  
 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0

ACTIVITY NAME : Wind erosion from platform / drainage areas  
 ACTIVITY TYPE : Wind sensitive  
 DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  
 FROM SOURCES : 9  
 77 78 79 80 106 107 108 109 110

<p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : - ACTIVITY TYPE : Wind insensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 2 103 104</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wall - STSF South ACTIVITY TYPE : Wind insensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 1 1</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - Wall ACTIVITY TYPE : Wind sensitive DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material within Workfront - Wall ACTIVITY TYPE : Wind insensitive DUST EMISSION : 459 kg/y TSP 136 kg/y PM10 14 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - Wall ACTIVITY TYPE : Wind sensitive DUST EMISSION : 124 kg/y TSP 59 kg/y PM10 9 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - Wall ACTIVITY TYPE : Wind sensitive DUST EMISSION : 25 kg/y TSP 12 kg/y PM10 2 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - Wall ACTIVITY TYPE : Wind insensitive DUST EMISSION : 107472 kg/y TSP 31759 kg/y PM10 3224 kg/y PM2.5 FROM SOURCES : 17 13 14 15 16 17 18 19 25 26 27 28 29 30 31 32 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - Wall ACTIVITY TYPE : Wind sensitive DUST EMISSION : 2599 kg/y TSP 1229 kg/y PM10 186 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - Wall ACTIVITY TYPE : Wind sensitive DUST EMISSION : 520 kg/y TSP 246 kg/y PM10 37 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - Wall</p>	<p>ACTIVITY TYPE : Wind insensitive DUST EMISSION : 18108 kg/y TSP 3354 kg/y PM10 1901 kg/y PM2.5 FROM SOURCES : 2 100 101</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA12 - STSF Dyke ACTIVITY TYPE : Wind insensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 1 1</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA12 ACTIVITY TYPE : Wind sensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 2 102 108</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA12 ACTIVITY TYPE : Wind sensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 2 102 108</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA12 ACTIVITY TYPE : Wind insensitive DUST EMISSION : 52035 kg/y TSP 15377 kg/y PM10 1561 kg/y PM2.5 FROM SOURCES : 22 13 14 15 16 17 18 19 58 59 60 61 72 73 81 102 105 106 107 108 111 112 113</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA12 ACTIVITY TYPE : Wind sensitive DUST EMISSION : 327 kg/y TSP 155 kg/y PM10 23 kg/y PM2.5 FROM SOURCES : 2 102 108</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA12 ACTIVITY TYPE : Wind sensitive DUST EMISSION : 65 kg/y TSP 31 kg/y PM10 5 kg/y PM2.5 FROM SOURCES : 2 102 108</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA12 ACTIVITY TYPE : Wind insensitive DUST EMISSION : 8855 kg/y TSP 1640 kg/y PM10 930 kg/y PM2.5 FROM SOURCES : 2 102 108</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : MOD16 - operation ACTIVITY TYPE : Wind insensitive DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5 FROM SOURCES : 1 1</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading sands to cells ACTIVITY TYPE : Wind sensitive DUST EMISSION : 7944 kg/y TSP 3757 kg/y PM10 569 kg/y PM2.5 FROM SOURCES : 6 77 78 79 80 109 110</p> <p>HOURS OF DAY : 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p>
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<p>ACTIVITY NAME : Dozer working on cells  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 31080 kg/y TSP 7503 kg/y PM10 3263 kg/y PM2.5  FROM SOURCES : 6  77 78 79 80 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling reject tailings to stockpiles  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 110557 kg/y TSP 32671 kg/y PM10 3317 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wind erosion from cells  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 40471 kg/y TSP 20236 kg/y PM10 3035 kg/y PM2.5  FROM SOURCES : 6  77 78 79 80 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Wind erosion from stockpiles  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 93907 kg/y TSP 46954 kg/y PM10 7043 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at stockpiles  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 12950 kg/y TSP 3126 kg/y PM10 1360 kg/y PM2.5  FROM SOURCES : 5  106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA15 - NTSF Western Wall  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA15  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 11974 kg/y TSP 3538 kg/y PM10 359 kg/y PM2.5  FROM SOURCES : 10  14 15 16 17 18 19 25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA15  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 1151 kg/y TSP 545 kg/y PM10 82 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :</p>	<p>0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA15  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 230 kg/y TSP 109 kg/y PM10 16 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA15  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 3625 kg/y TSP 671 kg/y PM10 381 kg/y PM2.5  FROM SOURCES : 4  25 26 27 28  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA16 - Eastern Intermediate Stockpile  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5  FROM SOURCES : 1  1  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA16  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 961 kg/y TSP 454 kg/y PM10 69 kg/y PM2.5  FROM SOURCES : 3  106 107 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material within Workfront - WA16  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 3571 kg/y TSP 1055 kg/y PM10 107 kg/y PM2.5  FROM SOURCES : 3  106 107 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA16  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 961 kg/y TSP 454 kg/y PM10 69 kg/y PM2.5  FROM SOURCES : 3  106 107 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA16  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 192 kg/y TSP 91 kg/y PM10 14 kg/y PM2.5  FROM SOURCES : 3  106 107 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront  ACTIVITY TYPE : Wind insensitive  DUST EMISSION : 19447 kg/y TSP 5747 kg/y PM10 583 kg/y PM2.5  FROM SOURCES : 15  14 15 16 17 18 19 25 26 27 28 106 107 108 109 110  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront  ACTIVITY TYPE : Wind sensitive  DUST EMISSION : 608 kg/y TSP 288 kg/y PM10 44 kg/y PM2.5  FROM SOURCES : 3  106 107 108  HOURS OF DAY :  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material</p>
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<p>ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 122 kg/y TSP 58 kg/y PM10 9 kg/y PM2.5                  FROM SOURCES : 3                  106 107 108                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA16                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 17794 kg/y TSP 3295 kg/y PM10 1868 kg/y PM2.5                  FROM SOURCES : 3                  106 107 108                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : WA17 - Remediation Works                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 1                  1                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Excavating material at Workfront - WA17                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material at Workfront - WA17                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Hauling material from BLU dump to Workfront - WA17                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 40929 kg/y TSP 12095 kg/y PM10 1228 kg/y PM2.5                  FROM SOURCES : 13                  13 14 15 16 17 18 19 25 26 27 28 109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Unloading material at Workfront - WA17                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 6439 kg/y TSP 3046 kg/y PM10 461 kg/y PM2.5                  FROM SOURCES : 2                  109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Rehandle material - WA17                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 1288 kg/y TSP 609 kg/y PM10 92 kg/y PM2.5                  FROM SOURCES : 2                  109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Dozer activity at Workfront - WA17                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 21907 kg/y TSP 4057 kg/y PM10 2300 kg/y PM2.5                  FROM SOURCES : 2                  109 110                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Grading roads                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 132315 kg/y TSP 46780 kg/y PM10 1450 kg/y PM2.5                  FROM SOURCES : 51                  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60</p>	<p>61 100 101 102 103 104 105 106 107 108 109 110 111 112 113                  HOURS OF DAY :                  0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0</p> <p>ACTIVITY NAME : Construction area wind erosion                  ACTIVITY TYPE : Wind erosion                  DUST EMISSION : 520344 kg/y TSP 260172 kg/y PM10 39026 kg/y PM2.5                  FROM SOURCES : 22                  25 26 27 28 29 30 31 32 100 101 102 103 104 105 106 107 108 109 110 111 112 113                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Recovered sands                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 1                  1                  HOURS OF DAY :                  1 0</p> <p>ACTIVITY NAME : Pumping tailings to Cyclone Sands Plant                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Processing tailings at Cyclone Sands Plant                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Unloading slimes to deposition pad - pumped to tailings                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Unloading sands to deposition pad                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Rehandle sands at deposition pads                  ACTIVITY TYPE : Wind sensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Dozers working on sands at deposition pads                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Rehandle sands at dump                  ACTIVITY TYPE : Wind insensitive                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56                  HOURS OF DAY :                  1</p> <p>ACTIVITY NAME : Wind erosion of stockpiles                  ACTIVITY TYPE : Wind erosion                  DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5                  FROM SOURCES : 2                  55 56</p>
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## Appendix E. Model Performance/Verification

This section provides information on the performance of the model for predicting air quality conditions. The performance evaluation has been carried out by modelling the calculated emissions, measured meteorological data and other input parameters to predict particulate matter concentrations and deposition levels for the 2022-23 model year (based on an understanding of the activities in this period). These results were then compared to measurement data, where available. Results are provided in **Figure E1** to **Figure E6**. The following observations have been made:

- Modelled 24-hour average PM<sub>10</sub> concentrations are higher than measurements for all percentiles at all locations (except in one case [i.e. a single day], the 100<sup>th</sup> percentile at AQ021). **Figure E2** shows quantile-quantile plots of measured and modelled 24-hour average PM<sub>10</sub> concentrations at each monitoring location. These plots show the measured data and model results paired by highest to lowest and not matched in time. Dispersion models often encounter difficulties when trying to reproduce monitoring results for a single point, especially for the extreme statistics such as the maximum 24-hour average. The most significant factor is the limitation of using computers to model large, complex systems (this would be the case even if all the physics were perfectly correct). In addition, there are often extraordinary events that cannot be anticipated. The quantile-quantile plots in **Figure E2** do however show that the model results are well within a factor of two for all percentiles.
- Modelled annual average PM<sub>10</sub> concentrations are higher than measurements at all locations.
- Modelled 24-hour average PM<sub>2.5</sub> concentrations are higher than measurements at all locations.
- Modelled annual average PM<sub>2.5</sub> concentrations are higher than measurements at all locations.
- Modelled annual average deposited dust levels are higher than measurements at all locations (except one, to the north of the mine lease boundary).

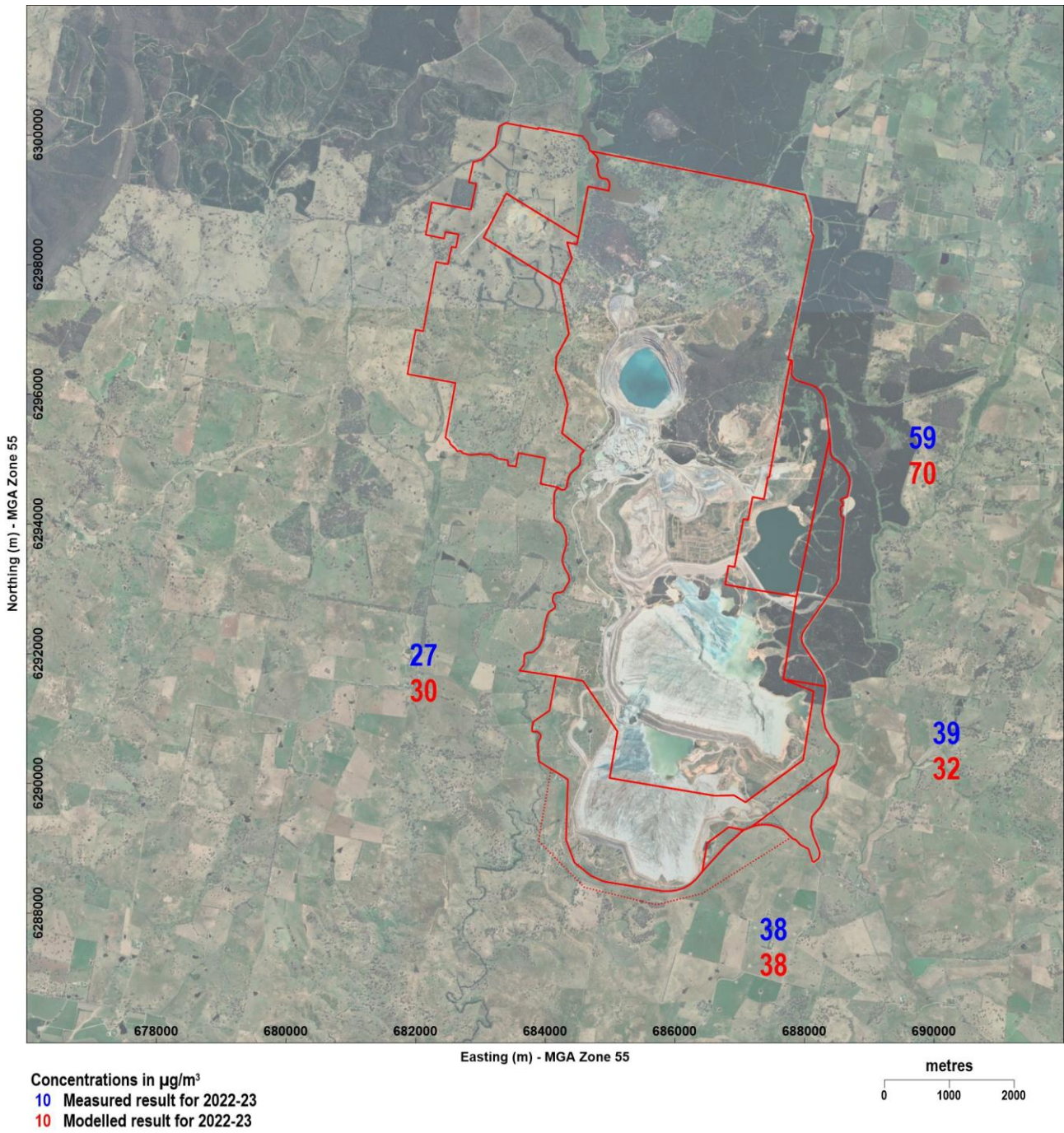


Figure E1 Comparison of Modelled and Measured Maximum 24-hour Average PM<sub>10</sub> Concentrations

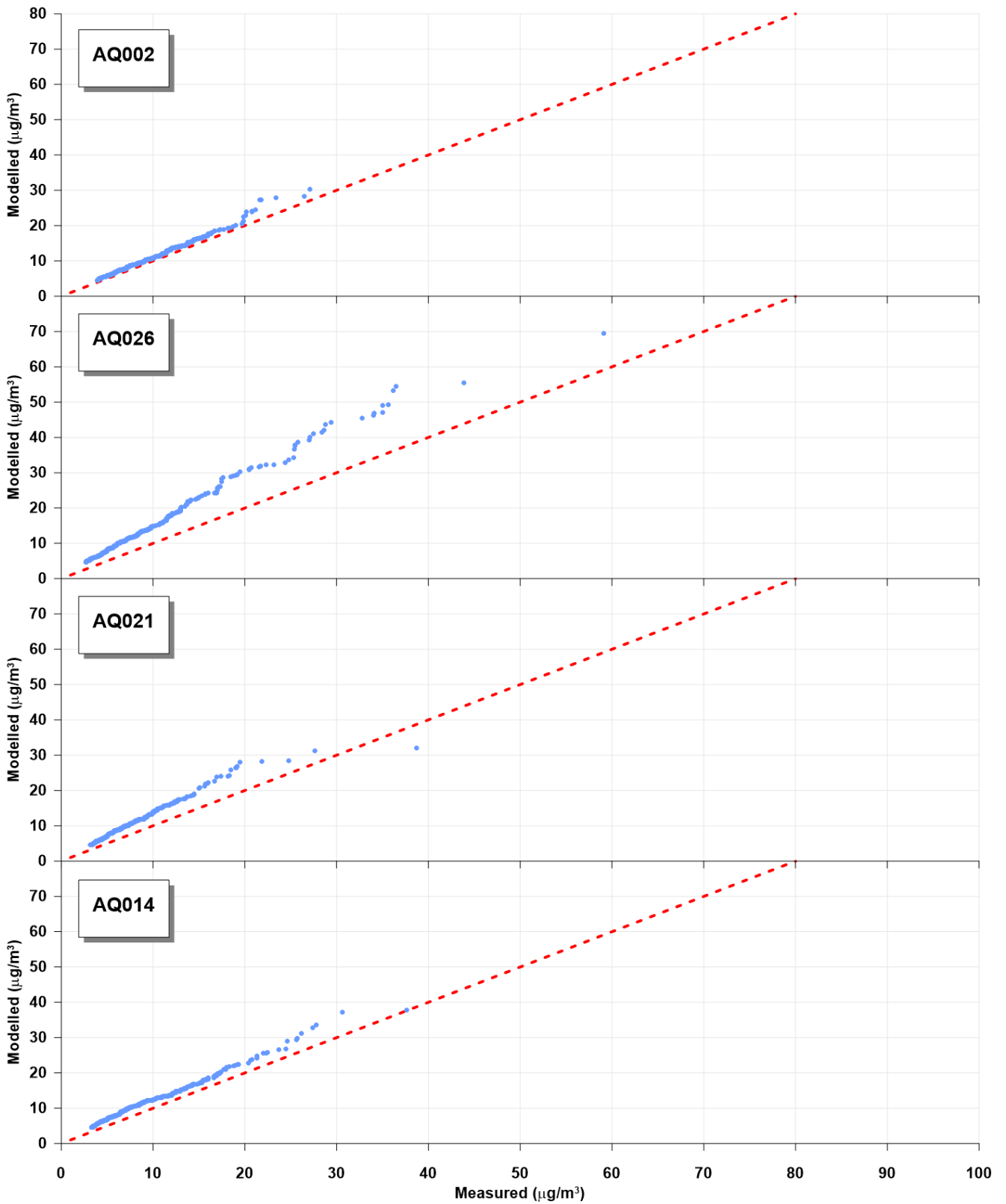


Figure E2 Quantile-quantile Plots of Measured and Modelled 24-hour Average PM<sub>10</sub> Concentrations

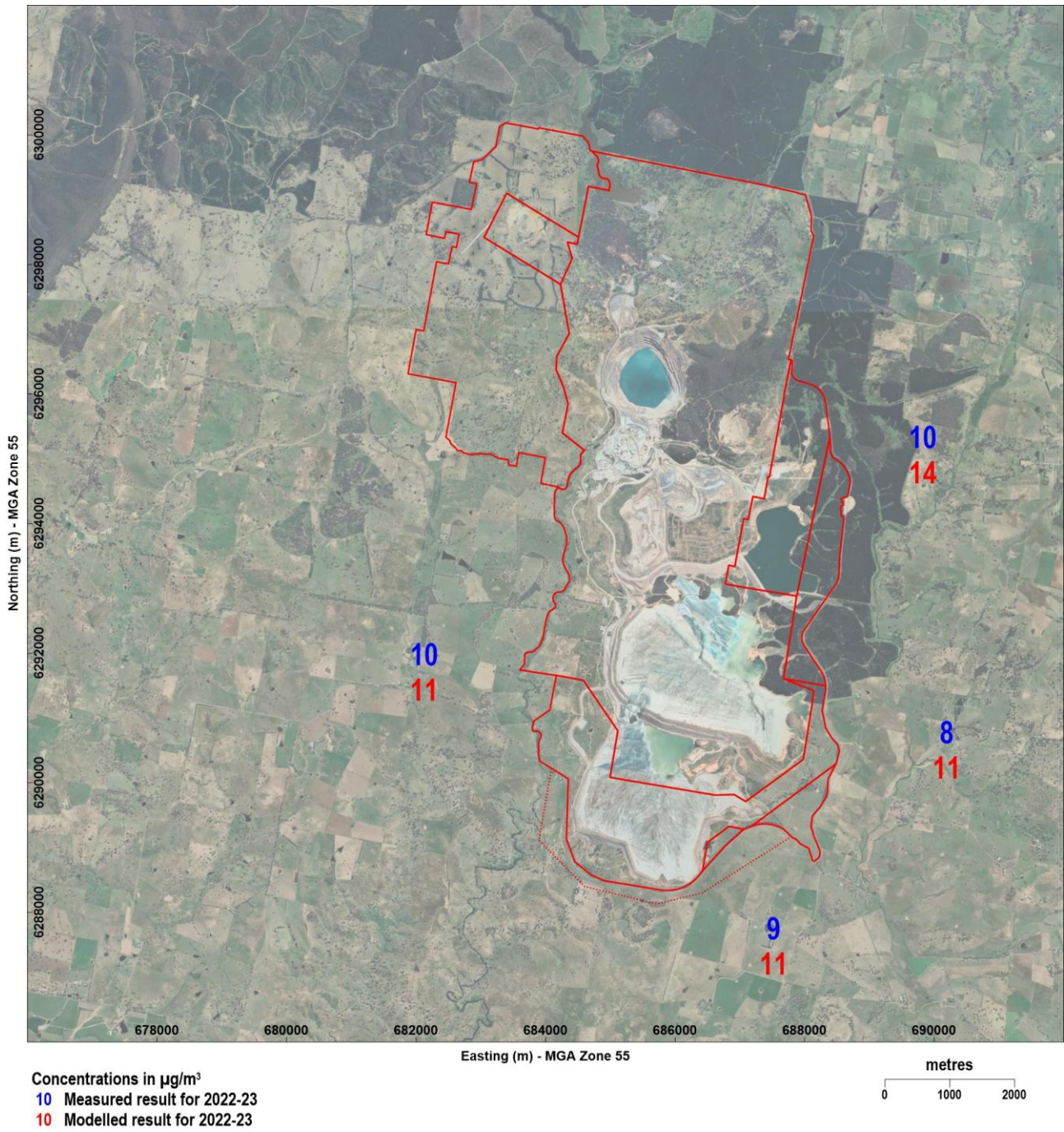


Figure E3 Comparison of Modelled and Measured Annual Average PM<sub>10</sub> Concentrations

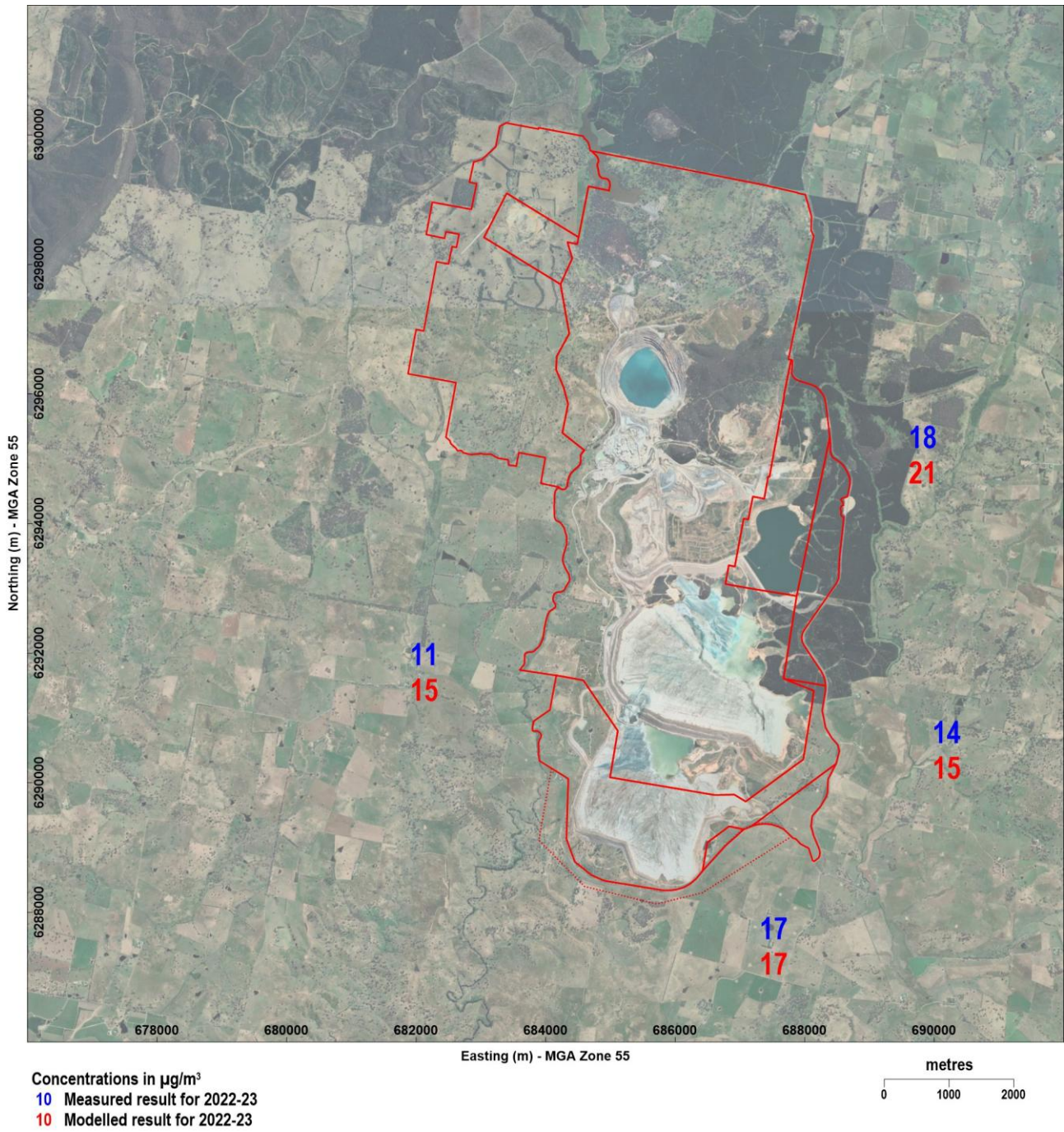


Figure E4 Comparison of Modelled and Measured Maximum 24-hour Average  $\text{PM}_{2.5}$  Concentrations

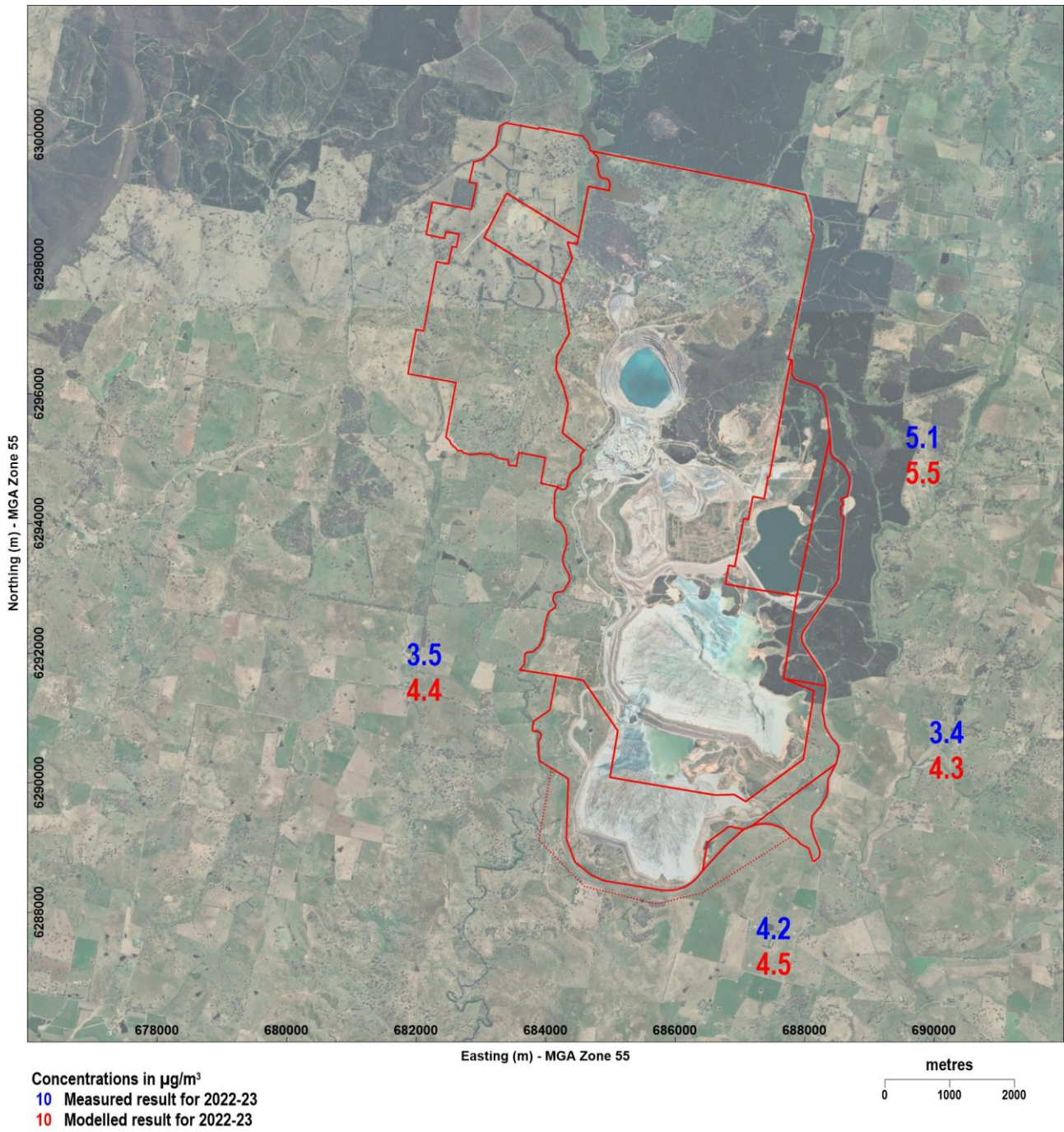


Figure E5 Comparison of Modelled and Measured Annual Average  $\text{PM}_{2.5}$  Concentrations

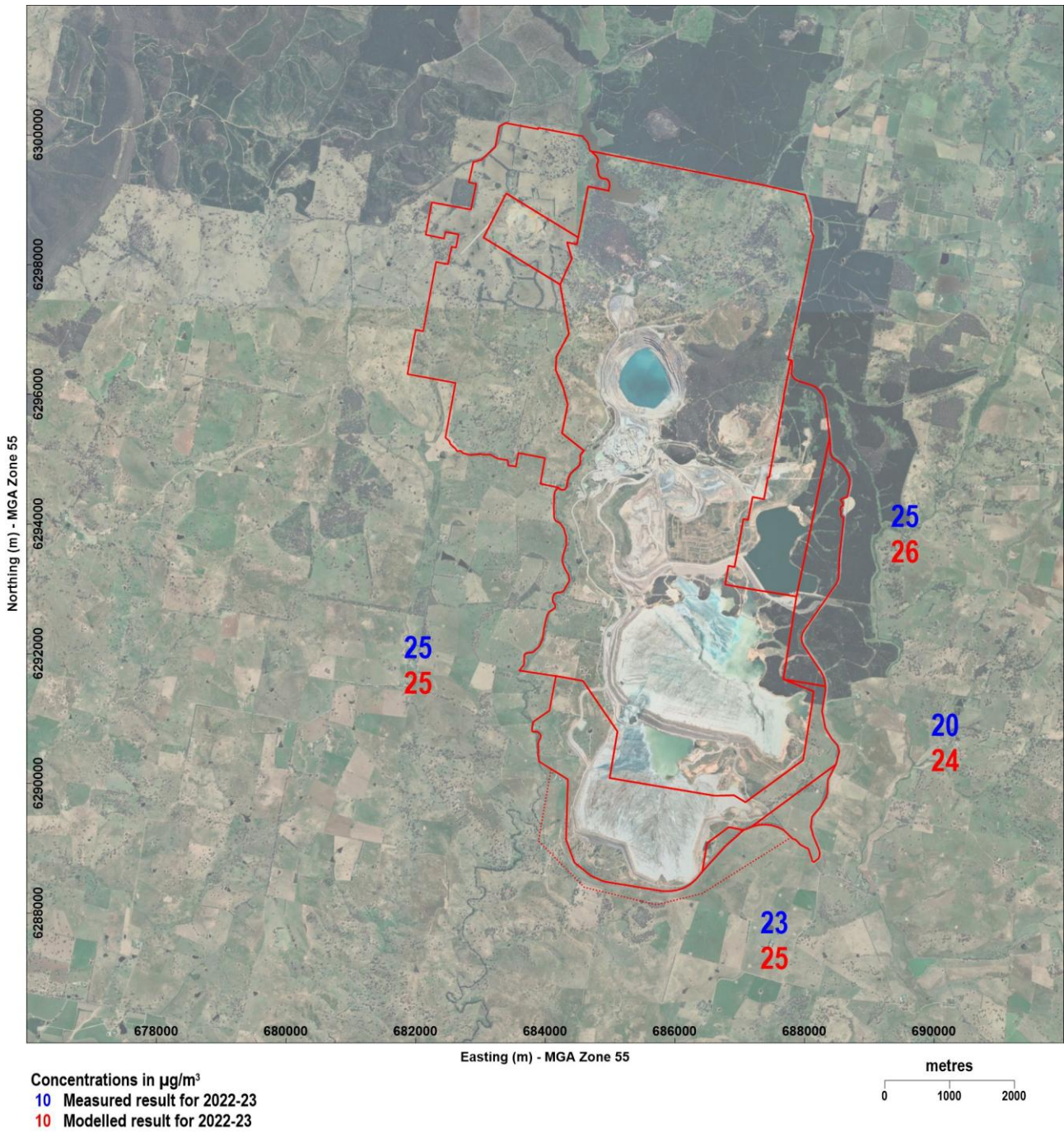


Figure E6 Comparison of Modelled and Measured Annual Average TSP Concentrations

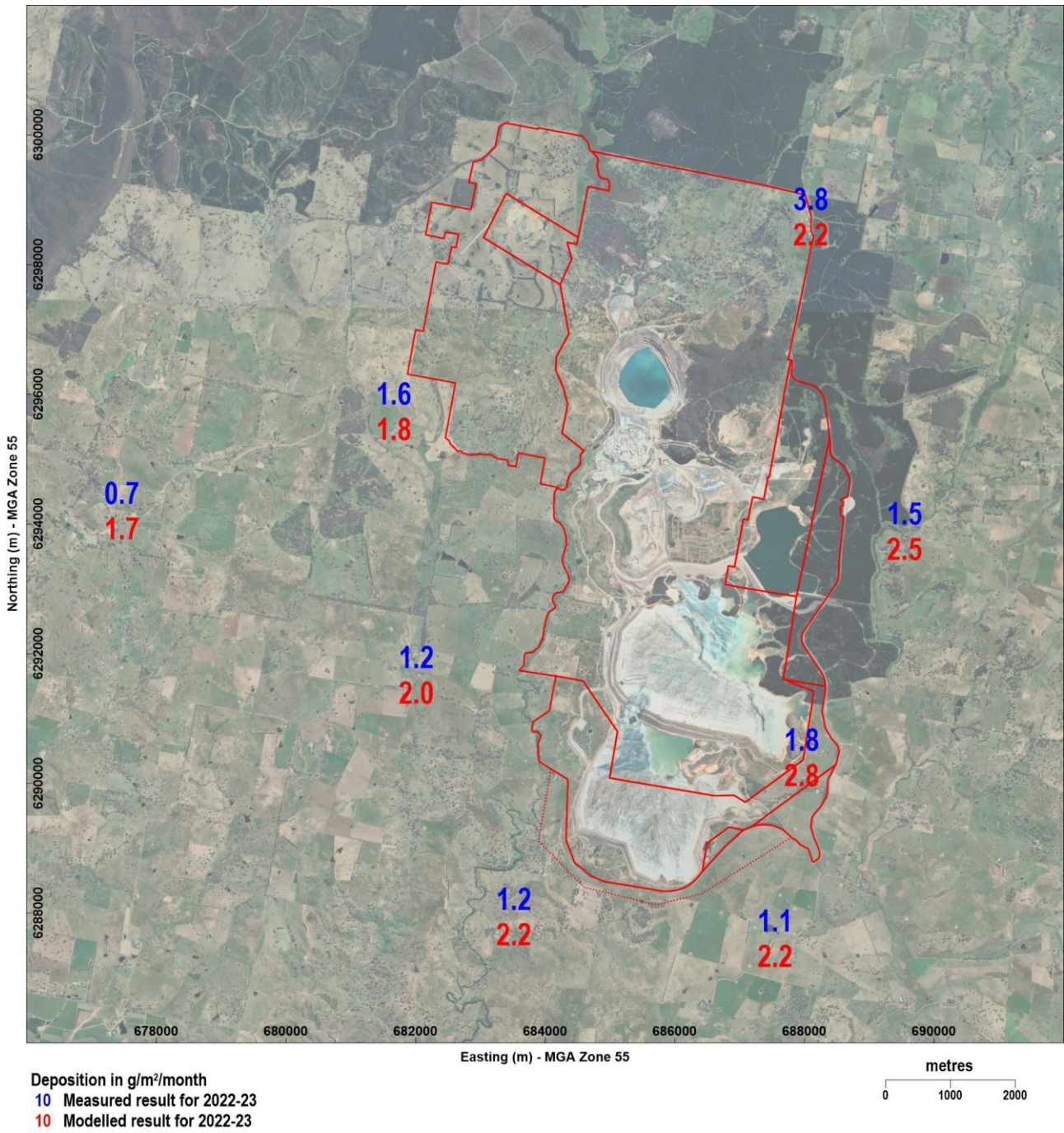


Figure E7 Comparison of Modelled and Measured Annual Average Deposited Dust

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## Appendix F. Tabulated model results

Modelled maximum 24-hour average PM10 concentrations (ug/m3)

Receptor	Description	Measured (2022-23)	with MOD 15	Modelled due to CVO			Modelled due to CVO and background levels				Criteria
				with MOD 16-1	with MOD 16-2	with MOD 16-3	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	
-	TEOM1 (Bundarra)		16	15	15	15	30	30	30	30	50
-	TEOM2 (Flyers Creek Weir)		18	11	18	18	35	34	34	34	50
-	TEOM3 (Triangle Flat)		12	11	11	11	34	33	33	33	50
-	TEOM4 (Meribah)	48	44	49	50	49	52	57	57	56	50
-	BAM1 (Bundarra)	27	17	17	17	17	30	30	30	30	50
-	BAM2 (Woodville)	59	49	36	36	36	61	48	48	48	50
-	BAM3 (Triangle Flat)	39	12	10	10	10	34	33	33	33	50
-	BAM4 (Meribah)	38	44	48	49	48	52	56	56	55	50
-	HVAS1 (Bundarra)		16	15	15	15	30	30	30	30	50
-	HVAS2 (Flyers Creek Weir)		18	18	18	18	35	34	34	34	50
-	HVAS3 (Triangle Flat)		12	11	11	11	34	33	33	33	50
-	HVAS4 (Meribah)		44	49	50	49	52	57	57	56	50
-	DG9A (DG9A)		19	19	19	19	38	38	38	38	50
-	DG5A (DG5A)		14	16	16	16	30	30	30	30	50
-	DG15A (DG15A)		17	15	15	15	30	30	30	30	50
-	DG17 (DG17)		5	7	7	7	30	30	30	30	50
-	DG12A (DG12A)		19	18	18	18	35	34	34	34	50
-	DG18 (DG18)		74	53	51	51	83	68	68	67	50
-	DG19 (DG19)		21	14	14	14	33	30	30	30	50
-	DG29A (DG29A)		44	49	50	49	52	57	57	56	50
65	Privately Owned		15	11	11	11	33	32	32	31	50
205	Crown Land		16	11	11	11	34	32	32	32	50
2058	Privately Owned		24	22	22	21	35	33	33	33	50
2156	Privately Owned		6	5	5	5	31	31	30	30	50
62	Privately Owned		24	25	25	25	35	34	34	34	50
57	Privately Owned		6	6	6	6	31	31	31	31	50
60	Privately Owned		29	27	28	27	37	35	35	35	50
2142	Privately Owned		7	6	6	6	31	31	31	31	50
2136	Privately Owned		8	7	7	7	32	32	32	32	50
2141	Privately Owned		6	5	5	5	31	31	31	31	50
2041	Privately Owned		7	5	5	5	31	31	31	31	50
2135	Privately Owned		7	6	6	6	31	31	31	31	50
54	Privately Owned		12	11	11	11	34	34	34	34	50
54	Privately Owned		11	10	10	10	34	34	34	34	50
150	Privately Owned		8	6	6	6	30	30	30	30	50
150	Privately Owned		8	5	5	5	30	30	30	30	50
150	Privately Owned		7	5	5	5	30	30	30	30	50
2125	Privately Owned		14	13	13	13	36	35	35	35	50
104	CHPL Owned		40	21	21	21	48	37	37	37	50
125	CHPL Owned		42	23	23	23	50	37	37	37	50
1	Privately Owned		9	8	8	8	33	33	33	33	50
2124	Privately Owned		13	12	12	11	35	35	35	35	50
2132	Privately Owned		6	5	5	5	30	30	30	30	50
104	CHPL Owned		34	39	38	38	42	46	46	45	50
2132	Privately Owned		7	6	6	6	30	30	30	30	50
104	Mine Owned		7	6	6	6	31	31	31	31	50
137	Privately Owned		8	7	7	7	30	30	30	30	50
104	CHPL Owned		45	49	50	49	53	57	57	56	50
104	CHPL Owned		12	11	11	11	30	30	30	30	50
104	CHPL Owned		12	11	11	11	30	30	30	30	50
147	Privately Owned		12	9	9	9	30	30	30	30	50
104	CHPL Owned		17	16	16	15	38	37	37	37	50
2126	Privately Owned		16	11	11	11	30	30	30	30	50
2155	Privately Owned		11	9	9	9	36	35	35	35	50
104	CHPL Owned		45	34	34	34	52	42	42	42	50
2072	Privately Owned		12	10	10	10	36	34	35	34	50
2148	Privately Owned		10	10	10	10	36	34	34	34	50
2072	Privately Owned		12	10	10	10	36	34	34	34	50
2149	Privately Owned		14	10	10	10	39	36	36	36	50
2131	Privately Owned		8	8	8	8	30	30	30	30	50
2150	Privately Owned		14	11	11	11	39	37	37	37	50
2152	Privately Owned		14	11	11	11	39	37	37	37	50
104	CHPL Owned		72	41	42	41	76	46	48	46	50
2147	Privately Owned		10	9	9	9	39	36	36	36	50
2123	Privately Owned		13	9	9	9	35	34	34	34	50
135	Privately Owned		13	13	13	13	30	30	30	30	50
210	CHPL Owned		22	14	13	13	41	39	38	38	50
44	Privately Owned		12	11	11	11	34	33	33	33	50
138	Privately Owned		17	11	11	11	30	30	30	30	50
199	Privately Owned		17	13	13	13	39	37	37	37	50
199	Privately Owned		15	12	12	12	41	38	38	38	50
199	Privately Owned		15	12	12	12	41	38	38	38	50
40	Privately Owned		12	13	13	12	38	36	36	36	50
2128	Privately Owned		15	12	12	12	30	30	30	30	50
38	Privately Owned		13	12	12	12	36	35	35	35	50
133	Privately Owned		14	16	16	16	30	30	30	30	50
208	Privately Owned		14	12	12	12	36	35	35	35	50
2121	Privately Owned		13	12	12	12	36	35	35	35	50
2127	Privately Owned		17	14	14	14	30	30	30	30	50
125	CHPL Owned		17	16	16	16	30	30	30	30	50
423	Privately Owned		16	13	13	13	38	36	36	36	50
190	Privately Owned		18	14	14	14	38	36	36	36	50
190	Privately Owned		18	14	15	14	38	36	36	36	50
405	Privately Owned		13	11	11	11	37	35	35	35	50
2162	Privately Owned		23	18	18	18	44	40	41	40	50
198	Privately Owned		24	18	18	18	41	38	38	38	50
198	Privately Owned		24	18	18	18	40	38	38	38	50
2163	Privately Owned		29	21	21	21	52	46	46	46	50
380	Privately Owned		26	20	20	20	47	43	43	43	50
197	Privately Owned		21	17	17	17	39	37	37	37	50
193	Privately Owned		22	17	17	17	39	37	37	37	50
196	Privately Owned		25	19	19	19	41	38	38	38	50
104	CHPL Owned		17	27	27	27	30	34	34	34	50
195	Privately Owned		24	19	19	19	41	38	38	38	50
2040	Privately Owned		20	17	17	17	39	37	37	37	50
207	Privately Owned		16	13	13	13	38	37	37	37	50
417	Privately Owned		15	12	12	12	38	36	36	36	50
2039	Privately Owned		20	17	17	17	39	37	37	37	50
207	Privately Owned		17	14	14	14	39	37	37	37	50
190	Privately Owned		14	11	11	11	38	36	36	36	50
34	Privately Owned		22	19	19	19	41	38	39	38	50
34	Privately Owned		22	19	19	19	41	39	39	39	50
416	Privately Owned		16	12	12	12	39	37	37	37	50
161	Privately Owned		25	20	20	20	41	38	38	38	50
2014	Privately Owned		4	6	6	6	30	30	30	30	50
204	Privately Owned		25	19	19	19	40	38	38	38	50
424	Privately Owned		23	18	18	18	39	37	37	37	50
206	Privately Owned		26	20	20	20	40	37	37	37	50
203	Privately Owned		30	23	23	23	42	38	38	38	50
182	Privately Owned		29	22	22	22	42	37	37	37	50
202	Privately Owned		32	24	24	24	45	38	38	38	50
2014	Privately Owned		6	8	8	8	30	30	30	30	50
125	CHPL Owned		35	27	27	27	52	44	44	44	50
118	Privately Owned		35	26	26	26	48	40	40	40	50
30	Privately Owned		45	34	34	34	58	47	47	47	50
117	Privately Owned		34	26	26	26	47	39	39	39	50

Modelled maximum 24-hour average PM10 concentrations (ug/m3)

Receptor	Description	Measured (2022-23)	Modelled due to CVO				Modelled due to CVO and background levels				Criteria
			with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	
286	Privately Owned		39	29	29	29	52	43	43	43	50
32	Privately Owned		44	33	33	33	58	47	47	47	50
160	Privately Owned		38	28	28	28	51	42	42	42	50
173	Privately Owned		30	23	23	23	43	36	36	36	50
403	Privately Owned		29	22	22	22	42	36	36	36	50
285	Privately Owned		42	32	32	32	55	45	45	45	50
2014	Privately Owned		6	7	7	7	30	30	30	30	50
185	Privately Owned		30	23	23	23	43	36	36	36	50
400	Privately Owned		27	21	21	21	41	35	35	35	50
31	Privately Owned		40	30	30	30	53	44	44	44	50
156	Privately Owned		34	26	26	26	47	40	40	40	50
125	Privately Owned		6	7	7	7	30	30	30	30	50
104	CHPL Owned		51	37	37	37	63	50	50	50	50
125	CHPL Owned		39	30	30	30	52	43	43	43	50
153	Privately Owned		38	29	29	29	52	43	43	43	50
23	Privately Owned		34	26	26	26	47	40	40	40	50
165	Privately Owned		27	21	21	21	40	36	36	36	50
2042	Privately Owned		25	19	19	19	38	35	35	35	50
31	Privately Owned		32	25	25	25	45	38	38	38	50
166	Privately Owned		24	20	20	20	37	35	35	35	50
116	Privately Owned		23	19	19	19	36	35	35	35	50
2024	Privately Owned		25	20	20	20	38	36	36	36	50
104	CHPL Owned		56	39	39	39	71	55	55	55	50
125	CHPL Owned		15	17	17	17	30	30	30	30	50
140	Privately Owned		22	17	17	17	36	35	35	35	50
397	Privately Owned		19	16	16	16	35	34	34	34	50
141	Privately Owned		20	16	16	16	35	34	34	34	50
131	Privately Owned		24	18	18	18	39	35	35	35	50
288	Privately Owned		23	17	17	17	38	35	35	35	50
396	Privately Owned		19	14	14	14	35	34	34	34	50
123	Privately Owned		19	14	14	14	35	34	34	34	50
124	Privately Owned		7	7	7	7	30	30	30	30	50
125	CHPL Owned		11	12	12	12	30	30	30	30	50
125	CHPL Owned		22	16	16	16	52	46	46	46	50
123	Privately Owned		20	15	15	15	36	35	35	34	50
28	Privately Owned		29	21	21	21	47	43	43	43	50
127	Privately Owned		20	14	14	14	35	35	34	34	50
281	Privately Owned		29	21	21	21	47	43	42	42	50
2116	Privately Owned		21	16	16	16	50	45	45	45	50
108	Privately Owned		22	16	16	16	38	36	36	36	50
108	Privately Owned		22	17	17	17	39	36	36	36	50
125	CHPL Owned		43	31	31	31	52	43	43	43	50
110	Privately Owned		22	16	16	16	39	37	37	37	50
92	Privately Owned		17	13	13	13	36	35	35	35	50
20	Privately Owned		20	16	16	16	44	41	41	41	50
94	Privately Owned		24	17	17	17	45	42	42	42	50
98	Privately Owned		23	17	17	17	44	41	41	41	50
2077	Privately Owned		20	15	15	15	41	39	39	39	50
2077	Privately Owned		21	16	16	16	42	40	40	40	50
2076	Privately Owned		21	16	16	16	43	40	40	40	50
94	Privately Owned		26	19	19	19	51	46	46	46	50
2113	Privately Owned		27	21	21	21	41	40	40	40	50
97	Privately Owned		23	17	17	17	47	43	43	43	50
105	Privately Owned		11	11	11	11	30	30	30	30	50
2036	Privately Owned		21	16	16	16	44	41	41	41	50
105	Privately Owned		14	14	14	14	30	30	30	30	50
2036	Privately Owned		21	16	16	16	48	44	44	44	50
94	Privately Owned		21	16	16	16	49	45	45	45	50
2112	Privately Owned		22	18	18	18	40	40	40	40	50
13	Privately Owned		17	14	14	14	41	40	40	40	50
91	Privately Owned		20	15	15	15	48	44	44	44	50
93	Privately Owned		23	17	17	17	46	43	43	43	50
90	Privately Owned		20	15	15	15	47	44	44	44	50
2002	State Forest		22	19	18	18	36	36	36	36	50
94	Privately Owned		26	19	19	19	45	43	43	43	50
2112	Privately Owned		17	14	14	14	41	40	40	40	50
107	Privately Owned		7	7	7	7	30	30	30	30	50
14	Privately Owned		20	17	17	17	37	38	38	38	50
84	Privately Owned		22	16	16	16	45	42	42	42	50
104	CHPL Owned		19	20	20	20	38	39	39	39	50
107	Privately Owned		7	7	7	7	30	30	30	30	50
2013	Privately Owned		27	20	20	20	43	42	42	42	50
107	Privately Owned		7	7	7	7	30	30	30	30	50
50	Privately Owned		16	13	13	13	44	41	41	41	50
107	Privately Owned		12	13	13	13	30	30	30	30	50
2035	Privately Owned		22	16	16	16	44	41	41	41	50
15	Privately Owned		17	14	14	14	38	38	38	38	50
76	Privately Owned		25	19	19	19	42	41	41	41	50
2034	Privately Owned		23	17	17	17	42	41	41	41	50
72	Privately Owned		25	19	19	19	42	41	41	41	50
2028	Privately Owned		24	18	18	18	42	40	40	40	50
104	CHPL Owned		17	18	18	18	36	36	36	36	50
104	CHPL Owned		21	21	21	21	34	34	34	34	50
7	Privately Owned		14	12	12	12	34	35	35	35	50
8	Privately Owned		14	12	12	12	35	35	35	35	50
67	Privately Owned		23	18	18	17	40	39	39	39	50
2075	Privately Owned		22	17	17	17	40	39	39	39	50
82	Privately Owned		22	16	16	16	40	39	39	39	50
9	Privately Owned		15	14	14	14	36	36	36	36	50
6	Privately Owned		15	14	14	14	36	36	36	36	50
2117	Privately Owned		13	11	11	11	34	34	34	34	50
2063	Privately Owned		21	16	16	16	38	37	37	37	50
374	Privately Owned		20	15	15	15	38	37	37	37	50
2064	Privately Owned		19	15	15	14	36	36	36	36	50
2115	Privately Owned		14	11	11	11	33	34	34	34	50
4	Privately Owned		13	13	13	13	34	34	34	34	50
1	Privately Owned		12	11	11	11	35	35	35	35	50
373	Privately Owned		18	14	14	14	36	36	36	36	50
2118	Privately Owned		14	11	11	11	33	33	33	33	50
2	Privately Owned		13	12	12	12	35	35	35	35	50
2118	Privately Owned		14	11	11	11	33	33	33	33	50
2010	Privately Owned		15	11	11	11	33	33	33	33	50
2101	Privately Owned		13	11	11	11	34	34	34	34	50
2019	Privately Owned		14	11	11	11	33	34	34	34	50
59	Privately Owned		14	11	11	11	33	33	33	33	50
2032	Privately Owned		13	10	10	10	33	33	33	33	50
280	Privately Owned		11	10	10	10	34	34	34	34	50
358	Privately Owned		12	10	10	10	32	33	33	33	50
2100	Privately Owned		11	9	9	9	34	34	34	34	50
2024	Privately Owned		10	7	7	7	35	35	35	35	50
2160	Privately Owned		37	29	29	29	53	44	44	44	50
104	CHPL Owned		45	26	27	26	52	39	40	39	50
178	Privately Owned		33	26	26	26	50	43	43	43	50
2130	Privately Owned		14	15	15	15	30	30	30	30	50

Modelled number of days above 50 ug/m3 PM10

Modelled due to CVO

Modelled due to CVO and background levels

Receptor	Description	Modelled due to CVO										Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
-	TEOM1 (Bundarra)	0	0	0	0	0	0	0	0	0	0	0
-	TEOM2 (Flyers Creek Weir)	0	0	0	0	0	0	0	0	0	0	0
-	TEOM3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0	0
-	TEOM4 (Meribah)	0	0	1	0	0	1	1	1	1	1	1
-	BAM1 (Bundarra)	0	0	0	0	0	0	0	0	0	0	0
-	BAM2 (Woodville)	1	0	0	0	0	3	0	0	0	0	0
-	BAM3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0	0
-	BAM4 (Meribah)	0	0	0	0	0	1	1	1	1	1	1
-	HVAS1 (Bundarra)	0	0	0	0	0	0	0	0	0	0	0
-	HVAS2 (Flyers Creek Weir)	0	0	0	0	0	0	0	0	0	0	0
-	HVAS3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0	0
-	HVAS4 (Meribah)	0	0	1	0	0	1	1	1	1	1	1
-	DG9A (DG9A)	0	0	0	0	0	0	0	0	0	0	0
-	DG5A (DG5A)	0	0	0	0	0	0	0	0	0	0	0
-	DG15A (DG15A)	0	0	0	0	0	0	0	0	0	0	0
-	DG17 (DG17)	0	0	0	0	0	0	0	0	0	0	0
-	DG12A (DG12A)	0	0	0	0	0	0	0	0	0	0	0
-	DG18 (DG18)	5	2	2	2	2	9	5	4	4	4	4
-	DG19 (DG19)	0	0	0	0	0	0	0	0	0	0	0
-	DG29A (DG29A)	0	1	1	0	0	1	1	1	1	1	1
65	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
205	Crown Land	0	0	0	0	0	0	0	0	0	0	0
2058	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2156	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
62	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
57	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
60	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2142	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2136	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2141	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2041	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2135	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
54	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
54	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2125	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	1	0	0	0	0	0
1	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2124	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2132	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
2132	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	Mine Owned	0	0	0	0	0	0	0	0	0	0	0
137	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	1	0	0	1	1	1	1	1	1
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
147	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
2126	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2155	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	1	0	0	0	0	0
2072	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2148	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2072	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2149	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2131	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2150	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2152	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	3	1	1	1	1	6	2	2	2	2	2
2147	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2123	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
135	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
210	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
44	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
138	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
40	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2128	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
38	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
133	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
208	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2121	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2127	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
423	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
405	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2162	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
198	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
198	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2163	Privately Owned	0	0	0	0	0	2	0	0	0	0	0
380	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
197	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
193	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
196	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
195	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2040	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
207	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
417	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2039	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
207	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
34	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
34	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
416	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
161	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
204	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
424	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
206	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
203	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
182	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
202	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	1	0	0	0	0	0
118	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
30	Privately Owned	0	0	0	0	0	2	0	0	0	0	0
117	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
286	Privately Owned	0	0	0	0	0	1	0	0	0	0	0
32	Privately Owned	0	0	0	0	0	1	0	0	0	0	0
160	Privately Owned	0	0	0	0	0	1	0	0	0	0	0
173	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
403	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
285	Privately Owned	0	0	0	0	0	1	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
185	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
400	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
31	Privately Owned	0	0	0	0	0	1	0	0	0	0	0
156	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
125	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	1	0	0	0	0	3	1	1	1	1	1

Modelled number of days above 50 ug/m3 PM10

Modelled due to CVO

Modelled due to CVO and background levels

Receptor	Description	Modelled due to CVO										Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
125	CHPL Owned		0	0	0	0	0	1	0	0	0	0
153	Privately Owned		0	0	0	0	0	1	0	0	0	0
23	Privately Owned		0	0	0	0	0	0	0	0	0	0
165	Privately Owned		0	0	0	0	0	0	0	0	0	0
2042	Privately Owned		0	0	0	0	0	0	0	0	0	0
31	Privately Owned		0	0	0	0	0	0	0	0	0	0
166	Privately Owned		0	0	0	0	0	0	0	0	0	0
116	Privately Owned		0	0	0	0	0	0	0	0	0	0
2024	Privately Owned		0	0	0	0	0	0	0	0	0	0
104	CHPL Owned		2	0	0	0	8	2	2	2	2	2
125	CHPL Owned		0	0	0	0	0	0	0	0	0	0
140	Privately Owned		0	0	0	0	0	0	0	0	0	0
397	Privately Owned		0	0	0	0	0	0	0	0	0	0
141	Privately Owned		0	0	0	0	0	0	0	0	0	0
131	Privately Owned		0	0	0	0	0	0	0	0	0	0
288	Privately Owned		0	0	0	0	0	0	0	0	0	0
396	Privately Owned		0	0	0	0	0	0	0	0	0	0
123	Privately Owned		0	0	0	0	0	0	0	0	0	0
124	Privately Owned		0	0	0	0	0	0	0	0	0	0
125	CHPL Owned		0	0	0	0	0	0	0	0	0	0
125	CHPL Owned		0	0	0	0	1	0	0	0	0	0
123	Privately Owned		0	0	0	0	0	0	0	0	0	0
28	Privately Owned		0	0	0	0	0	0	0	0	0	0
127	Privately Owned		0	0	0	0	0	0	0	0	0	0
281	Privately Owned		0	0	0	0	0	0	0	0	0	0
2116	Privately Owned		0	0	0	0	1	0	0	0	0	0
108	Privately Owned		0	0	0	0	0	0	0	0	0	0
108	Privately Owned		0	0	0	0	0	0	0	0	0	0
125	CHPL Owned		0	0	0	0	1	0	0	0	0	0
110	Privately Owned		0	0	0	0	0	0	0	0	0	0
92	Privately Owned		0	0	0	0	0	0	0	0	0	0
20	Privately Owned		0	0	0	0	0	0	0	0	0	0
94	Privately Owned		0	0	0	0	0	0	0	0	0	0
98	Privately Owned		0	0	0	0	0	0	0	0	0	0
2077	Privately Owned		0	0	0	0	0	0	0	0	0	0
2077	Privately Owned		0	0	0	0	0	0	0	0	0	0
2076	Privately Owned		0	0	0	0	0	0	0	0	0	0
94	Privately Owned		0	0	0	0	1	0	0	0	0	0
2113	Privately Owned		0	0	0	0	0	0	0	0	0	0
97	Privately Owned		0	0	0	0	0	0	0	0	0	0
105	Privately Owned		0	0	0	0	0	0	0	0	0	0
2036	Privately Owned		0	0	0	0	0	0	0	0	0	0
105	Privately Owned		0	0	0	0	0	0	0	0	0	0
2036	Privately Owned		0	0	0	0	0	0	0	0	0	0
94	Privately Owned		0	0	0	0	0	0	0	0	0	0
2112	Privately Owned		0	0	0	0	0	0	0	0	0	0
13	Privately Owned		0	0	0	0	0	0	0	0	0	0
91	Privately Owned		0	0	0	0	0	0	0	0	0	0
93	Privately Owned		0	0	0	0	0	0	0	0	0	0
90	Privately Owned		0	0	0	0	0	0	0	0	0	0
2002	State Forest		0	0	0	0	0	0	0	0	0	0
94	Privately Owned		0	0	0	0	0	0	0	0	0	0
2112	Privately Owned		0	0	0	0	0	0	0	0	0	0
107	Privately Owned		0	0	0	0	0	0	0	0	0	0
14	Privately Owned		0	0	0	0	0	0	0	0	0	0
84	Privately Owned		0	0	0	0	0	0	0	0	0	0
104	CHPL Owned		0	0	0	0	0	0	0	0	0	0
107	Privately Owned		0	0	0	0	0	0	0	0	0	0
2013	Privately Owned		0	0	0	0	0	0	0	0	0	0
107	Privately Owned		0	0	0	0	0	0	0	0	0	0
50	Privately Owned		0	0	0	0	0	0	0	0	0	0
107	Privately Owned		0	0	0	0	0	0	0	0	0	0
2035	Privately Owned		0	0	0	0	0	0	0	0	0	0
15	Privately Owned		0	0	0	0	0	0	0	0	0	0
178	Privately Owned		0	0	0	0	0	0	0	0	0	0
2034	Privately Owned		0	0	0	0	0	0	0	0	0	0
72	Privately Owned		0	0	0	0	0	0	0	0	0	0
2028	Privately Owned		0	0	0	0	0	0	0	0	0	0
104	CHPL Owned		0	0	0	0	0	0	0	0	0	0
104	CHPL Owned		0	0	0	0	0	0	0	0	0	0
7	Privately Owned		0	0	0	0	0	0	0	0	0	0
8	Privately Owned		0	0	0	0	0	0	0	0	0	0
67	Privately Owned		0	0	0	0	0	0	0	0	0	0
2075	Privately Owned		0	0	0	0	0	0	0	0	0	0
82	Privately Owned		0	0	0	0	0	0	0	0	0	0
9	Privately Owned		0	0	0	0	0	0	0	0	0	0
6	Privately Owned		0	0	0	0	0	0	0	0	0	0
2117	Privately Owned		0	0	0	0	0	0	0	0	0	0
2063	Privately Owned		0	0	0	0	0	0	0	0	0	0
374	Privately Owned		0	0	0	0	0	0	0	0	0	0
2064	Privately Owned		0	0	0	0	0	0	0	0	0	0
2115	Privately Owned		0	0	0	0	0	0	0	0	0	0
4	Privately Owned		0	0	0	0	0	0	0	0	0	0
1	Privately Owned		0	0	0	0	0	0	0	0	0	0
373	Privately Owned		0	0	0	0	0	0	0	0	0	0
2118	Privately Owned		0	0	0	0	0	0	0	0	0	0
2	Privately Owned		0	0	0	0	0	0	0	0	0	0
2118	Privately Owned		0	0	0	0	0	0	0	0	0	0
2010	Privately Owned		0	0	0	0	0	0	0	0	0	0
2101	Privately Owned		0	0	0	0	0	0	0	0	0	0
2019	Privately Owned		0	0	0	0	0	0	0	0	0	0
59	Privately Owned		0	0	0	0	0	0	0	0	0	0
2032	Privately Owned		0	0	0	0	0	0	0	0	0	0
280	Privately Owned		0	0	0	0	0	0	0	0	0	0
358	Privately Owned		0	0	0	0	0	0	0	0	0	0
2100	Privately Owned		0	0	0	0	0	0	0	0	0	0
2024	Privately Owned		0	0	0	0	0	0	0	0	0	0
2160	Privately Owned		0	0	0	0	2	0	0	0	0	0
104	CHPL Owned		0	0	0	0	1	0	0	0	0	0
178	Privately Owned		0	0	0	0	1	0	0	0	0	0
2130	Privately Owned		0	0	0	0	0	0	0	0	0	0

Modelled annual average PM10 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO										Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
-	TEOM1 (Bundarra)		2.1	2.1	2.1	2.1	11.4	11.4	11.4	11.4	11.4	25
-	TEOM2 (Flyers Creek Weir)		2.6	2.2	2.3	2.2	12.0	11.6	11.6	11.6	11.6	25
-	TEOM3 (Triangle Flat)		2.0	1.6	1.6	1.6	11.4	11.0	10.9	10.9	10.9	25
-	TEOM4 (Meribah)	11.0	3.4	2.7	2.6	2.5	12.8	12.1	11.9	11.9	11.9	25
-	BAM1 (Bundarra)	10.0	2.2	2.2	2.2	2.1	11.5	11.5	11.5	11.5	11.5	25
-	BAM2 (Woodville)	10.0	5.2	4.2	4.2	4.2	14.6	13.5	13.6	13.5	13.5	25
-	BAM3 (Triangle Flat)	8.0	2.0	1.6	1.6	1.5	11.3	10.9	10.9	10.8	10.8	25
-	BAM4 (Meribah)	9.0	3.3	2.6	2.5	2.4	12.7	12.0	11.9	11.8	11.8	25
-	HVAS1 (Bundarra)		2.1	2.1	2.1	2.1	11.4	11.4	11.4	11.4	11.4	25
-	HVAS2 (Flyers Creek Weir)		2.6	2.2	2.3	2.2	12.0	11.6	11.6	11.6	11.6	25
-	HVAS3 (Triangle Flat)		2.0	1.6	1.6	1.6	11.4	11.0	10.9	10.9	10.9	25
-	HVAS4 (Meribah)		3.4	2.7	2.6	2.5	12.8	12.1	11.9	11.9	11.9	25
-	DG9A (DG9A)		3.2	3.1	3.1	3.1	12.5	12.4	12.4	12.4	12.4	25
-	DG5A (DG5A)		0.8	0.9	0.9	0.9	10.2	10.2	10.2	10.2	10.2	25
-	DG15A (DG15A)		2.1	2.1	2.1	2.1	11.4	11.4	11.4	11.4	11.4	25
-	DG17 (DG17)		0.3	0.4	0.4	0.4	9.7	9.7	9.7	9.7	9.7	25
-	DG12A (DG12A)		2.6	2.3	2.3	2.2	12.0	11.6	11.6	11.6	11.6	25
-	DG18 (DG18)		14.1	10.7	10.2	10.0	23.4	20.1	19.6	19.3	19.3	25
-	DG19 (DG19)		3.8	2.9	2.9	2.8	13.1	12.2	12.2	12.2	12.2	25
-	DG29A (DG29A)		3.4	2.7	2.6	2.5	12.8	12.1	11.9	11.9	11.9	25
65	Privately Owned		0.9	0.7	0.7	0.7	10.2	10.0	10.0	10.0	10.0	25
205	Crown Land		1.2	1.0	1.0	0.9	10.6	10.3	10.3	10.3	10.3	25
2058	Privately Owned		1.2	1.0	1.0	1.0	10.6	10.3	10.3	10.3	10.3	25
2156	Privately Owned		0.7	0.6	0.6	0.5	10.0	9.9	9.9	9.9	9.9	25
62	Privately Owned		1.2	1.0	1.0	1.0	10.6	10.3	10.3	10.3	10.3	25
57	Privately Owned		0.7	0.6	0.6	0.6	10.1	9.9	9.9	9.9	9.9	25
60	Privately Owned		1.5	1.2	1.2	1.2	10.9	10.6	10.5	10.5	10.5	25
2142	Privately Owned		0.6	0.6	0.5	0.5	10.0	9.9	9.8	9.8	9.8	25
2136	Privately Owned		0.9	0.7	0.7	0.7	10.2	10.1	10.1	10.1	10.1	25
2141	Privately Owned		0.7	0.6	0.5	0.5	10.0	9.9	9.9	9.9	9.9	25
2041	Privately Owned		0.7	0.6	0.6	0.5	10.1	9.9	9.9	9.9	9.9	25
2135	Privately Owned		0.7	0.6	0.6	0.6	10.1	9.9	9.9	9.9	9.9	25
54	Privately Owned		1.1	0.9	0.9	0.9	10.5	10.3	10.3	10.2	10.2	25
54	Privately Owned		1.1	0.9	0.9	0.9	10.5	10.3	10.2	10.2	10.2	25
150	Privately Owned		0.9	0.7	0.8	0.7	10.2	10.1	10.1	10.1	10.1	25
150	Privately Owned		0.8	0.7	0.7	0.7	10.1	10.0	10.0	10.0	10.0	25
150	Privately Owned		0.8	0.7	0.7	0.7	10.1	10.0	10.0	10.0	10.0	25
2125	Privately Owned		1.4	1.1	1.1	1.1	10.7	10.5	10.4	10.4	10.4	25
104	CHPL Owned		3.4	2.6	2.5	2.4	12.8	11.9	11.8	11.7	11.7	25
125	CHPL Owned		3.3	2.5	2.4	2.3	12.7	11.9	11.7	11.7	11.7	25
104	Privately Owned		1.1	0.9	0.9	0.9	10.4	10.2	10.2	10.2	10.2	25
2124	Privately Owned		1.3	1.1	1.1	1.1	10.7	10.5	10.4	10.4	10.4	25
2132	Privately Owned		0.6	0.6	0.6	0.6	10.0	9.9	9.9	9.9	9.9	25
104	CHPL Owned		2.3	1.8	1.8	1.7	11.6	11.2	11.1	11.1	11.1	25
2132	Privately Owned		0.7	0.7	0.7	0.6	10.1	10.0	10.0	10.0	10.0	25
104	Mine Owned		0.8	0.7	0.6	0.6	10.2	10.0	10.0	10.0	10.0	25
137	Privately Owned		0.9	0.8	0.8	0.8	10.2	10.1	10.2	10.1	10.1	25
104	CHPL Owned		3.5	2.7	2.6	2.5	12.8	12.1	12.0	11.9	11.9	25
104	CHPL Owned		1.5	1.2	1.2	1.2	10.8	10.6	10.6	10.6	10.6	25
104	CHPL Owned		1.5	1.2	1.2	1.2	10.8	10.6	10.6	10.6	10.6	25
147	Privately Owned		1.4	1.2	1.2	1.2	10.7	10.5	10.5	10.5	10.5	25
104	CHPL Owned		2.3	1.8	1.8	1.7	11.7	11.2	11.1	11.0	11.0	25
2126	Privately Owned		1.9	1.6	1.6	1.6	11.2	10.9	10.9	10.9	10.9	25
2155	Privately Owned		1.0	0.8	0.8	0.8	10.3	10.1	10.1	10.1	10.1	25
104	CHPL Owned		8.1	6.3	6.4	6.3	17.4	15.7	15.8	15.7	15.7	25
2072	Privately Owned		2.1	1.6	1.6	1.5	11.4	11.0	10.9	10.9	10.9	25
2148	Privately Owned		1.0	0.8	0.8	0.8	10.3	10.2	10.2	10.1	10.1	25
2072	Privately Owned		2.0	1.6	1.5	1.5	11.3	10.9	10.9	10.8	10.8	25
2149	Privately Owned		1.2	1.0	1.0	1.0	10.6	10.4	10.4	10.3	10.3	25
2131	Privately Owned		0.5	0.6	0.6	0.6	9.9	9.9	9.9	9.9	9.9	25
2150	Privately Owned		1.3	1.0	1.0	1.0	10.6	10.4	10.4	10.4	10.4	25
2152	Privately Owned		1.3	1.0	1.0	1.0	10.6	10.3	10.3	10.3	10.3	25
104	CHPL Owned		10.4	9.1	9.2	9.0	19.7	18.4	18.6	18.4	18.4	25
2147	Privately Owned		1.1	0.9	0.9	0.9	10.5	10.3	10.3	10.2	10.2	25
2123	Privately Owned		2.2	1.6	1.6	1.6	11.6	11.1	11.0	11.0	11.0	25
135	Privately Owned		1.0	1.1	1.1	1.0	10.4	10.4	10.4	10.4	10.4	25
210	CHPL Owned		4.7	3.6	3.6	3.4	14.1	13.0	12.9	12.8	12.8	25
44	Privately Owned		2.0	1.6	1.6	1.5	11.3	10.9	10.9	10.8	10.8	25
138	Privately Owned		1.6	1.5	1.5	1.5	11.0	10.9	10.9	10.9	10.9	25
199	Privately Owned		1.3	1.0	1.0	1.0	10.7	10.4	10.4	10.4	10.4	25
199	Privately Owned		1.4	1.1	1.1	1.1	10.8	10.5	10.5	10.4	10.4	25
199	Privately Owned		1.4	1.1	1.1	1.1	10.7	10.4	10.4	10.4	10.4	25
40	Privately Owned		1.7	1.4	1.4	1.3	11.0	10.7	10.7	10.7	10.7	25
2128	Privately Owned		1.4	1.4	1.4	1.4	10.7	10.7	10.7	10.7	10.7	25
38	Privately Owned		2.0	1.6	1.6	1.6	11.3	10.9	11.0	10.9	10.9	25
133	Privately Owned		1.1	1.3	1.3	1.2	10.5	10.6	10.6	10.6	10.6	25
208	Privately Owned		2.3	0.9	0.9	0.9	11.7	11.2	11.3	11.2	11.2	25
2121	Privately Owned		3.5	2.7	2.8	2.7	12.8	12.1	12.1	12.0	12.0	25
2127	Privately Owned		2.0	1.9	1.9	1.9	11.3	11.3	11.3	11.3	11.3	25
125	CHPL Owned		2.1	2.1	2.1	2.1	11.4	11.4	11.4	11.4	11.4	25
423	Privately Owned		1.4	1.1	1.1	1.1	10.8	10.5	10.5	10.5	10.5	25
190	Privately Owned		1.5	1.2	1.2	1.2	10.8	10.5	10.5	10.5	10.5	25
190	Privately Owned		1.6	1.3	1.3	1.3	10.9	10.6	10.6	10.6	10.6	25
405	Privately Owned		1.4	1.1	1.1	1.1	10.7	10.4	10.4	10.4	10.4	25
2162	Privately Owned		2.5	2.0	2.0	2.0	11.9	11.3	11.3	11.3	11.3	25
198	Privately Owned		2.3	1.8	1.9	1.8	11.7	11.2	11.2	11.2	11.2	25
198	Privately Owned		2.3	1.8	1.9	1.8	11.7	11.2	11.2	11.2	11.2	25
2163	Privately Owned		2.2	2.6	2.6	2.6	12.6	12.0	12.0	11.9	11.9	25
380	Privately Owned		3.0	2.4	2.4	2.4	12.4	11.8	11.8	11.8	11.8	25
197	Privately Owned		3.2	1.7	1.7	1.7	11.5	11.1	11.1	11.1	11.1	25
193	Privately Owned		2.3	1.8	1.8	1.8	11.6	11.2	11.2	11.2	11.2	25
196	Privately Owned		2.6	2.0	2.0	2.0	11.9	11.4	11.4	11.4	11.4	25
104	CHPL Owned		2.5	3.2	3.2	3.1	11.9	12.5	12.5	12.5	12.5	25
195	Privately Owned		2.5	2.0	2.0	2.0	11.9	11.4	11.4	11.4	11.4	25
2040	Privately Owned		2.1	1.7	1.7	1.7	11.5	11.0	11.1	11.0	11.0	25
207	Privately Owned		1.6	1.3	1.3	1.3	11.0	10.7	10.7	10.6	10.6	25
417	Privately Owned		1.6	1.3	1.3	1.2	10.9	10.6	10.6	10.6	10.6	25
2039	Privately Owned		2.1	1.7	1.7	1.7	11.5	11.0	11.1	11.0	11.0	25
207	Privately Owned		1.8	1.4	1.4	1.4	11.1	10.8	10.8	10.7	10.7	25
190	Privately Owned		1.5	1.2	1.2	1.2	10.8	10.5	10.5	10.5	10.5	25
34	Privately Owned		2.4	2.0	2.0	1.9	11.7	11.3	11.3	11.2	11.2	25
34	Privately Owned		2.4	1.9	1.9	1.9	11.7	11.3	11.3	11.2	11.2	25
416	Privately Owned		1.6	1.3	1.3	1.3	11.0	10.6	10.6	10.6	10.6	25
161	Privately Owned		2.3	1.9	1.9	1.8	11.7	11.2	11.2	11.2	11.2	25
2014	Privately Owned		0.3	0.3	0.3	0.3	9.6	9.6	9.6	9.6	9.6	25
204	Privately Owned		2.2	1.8	1.8	1.7	11.6	11.1	11.1	11.1	11.1	25
424	Privately Owned		2.0	1.6	1.6	1.6	11.4	11.0	11.0	10.9	10.9	25
206	Privately Owned		2.2	1.8	1.8	1.7	11.5	11.1	11.1	11.1	11.1	25
203	Privately Owned		2.4	1.9	1.9	1.9	11.7	11.2	11.3	11.2	11.2	25
182	Privately Owned		2.3	1.8	1.8	1.8	11.6	11.2	11.2	11.2	11.2	25
202	Privately Owned		2.4	1.9	1.9	1.9	11.8	11.3	11.3	11.3	11.3	25

Modelled annual average PM10 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO					Modelled due to CVO and background levels					Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
125	CHPL Owned		4.1	3.4	3.4	3.4	13.5	12.7	12.7	12.7	25	
153	Privately Owned		3.4	2.8	2.8	2.7	12.8	12.1	12.1	12.1	25	
23	Privately Owned		3.0	2.4	2.4	2.4	12.3	11.7	11.7	11.7	25	
165	Privately Owned		2.4	2.0	2.0	1.9	11.3	11.3	11.3	11.3	25	
2042	Privately Owned		2.2	1.7	1.7	1.7	11.5	11.1	11.1	11.1	25	
31	Privately Owned		3.1	2.5	2.5	2.5	12.5	11.9	11.9	11.8	25	
166	Privately Owned		2.5	2.0	2.0	2.0	11.8	11.3	11.3	11.3	25	
116	Privately Owned		2.3	1.9	1.9	1.9	11.7	11.2	11.2	11.2	25	
2024	Privately Owned		2.7	2.2	2.2	2.1	12.0	11.5	11.5	11.5	25	
104	CHPL Owned		6.1	4.7	4.7	4.7	15.4	14.1	14.1	14.1	25	
125	CHPL Owned		0.9	1.0	1.0	1.0	10.2	10.3	10.3	10.3	25	
140	Privately Owned		2.6	2.1	2.1	2.1	12.0	11.4	11.4	11.4	25	
397	Privately Owned		2.1	1.7	1.7	1.7	11.5	11.0	11.0	11.0	25	
141	Privately Owned		2.5	2.0	2.0	2.0	11.8	11.3	11.3	11.3	25	
131	Privately Owned		3.0	2.3	2.3	2.3	12.3	11.7	11.7	11.7	25	
288	Privately Owned		2.8	2.3	2.3	2.2	12.2	11.6	11.6	11.6	25	
396	Privately Owned		2.3	1.8	1.8	1.8	11.6	11.2	11.2	11.2	25	
123	Privately Owned		2.4	1.9	1.9	1.9	11.7	11.2	11.2	11.2	25	
124	Privately Owned		0.3	0.3	0.3	0.3	9.6	9.6	9.6	9.6	25	
125	CHPL Owned		0.6	0.6	0.6	0.6	9.9	9.9	9.9	9.9	25	
125	CHPL Owned		2.5	2.1	2.1	2.1	11.9	11.5	11.5	11.4	25	
123	Privately Owned		2.5	2.0	2.0	2.0	11.8	11.3	11.3	11.3	25	
28	Privately Owned		3.1	2.5	2.5	2.4	12.4	11.8	11.8	11.8	25	
127	Privately Owned		2.4	1.9	1.9	1.9	11.8	11.3	11.3	11.2	25	
281	Privately Owned		3.1	2.5	2.5	2.4	12.4	11.8	11.8	11.8	25	
2116	Privately Owned		2.5	2.1	2.2	2.1	11.9	11.5	11.5	11.5	25	
108	Privately Owned		2.8	2.2	2.2	2.2	12.1	11.5	11.5	11.5	25	
108	Privately Owned		2.9	2.3	2.3	2.2	12.2	11.6	11.6	11.6	25	
125	CHPL Owned		5.2	4.3	4.3	4.3	14.6	13.7	13.7	13.7	25	
110	Privately Owned		2.6	2.1	2.1	2.1	12.0	11.4	11.4	11.4	25	
92	Privately Owned		2.0	1.6	1.6	1.6	11.3	10.9	10.9	10.9	25	
20	Privately Owned		2.7	2.3	2.3	2.3	12.1	11.6	11.6	11.6	25	
94	Privately Owned		2.7	2.2	2.2	2.1	12.1	11.5	11.5	11.5	25	
98	Privately Owned		2.6	2.1	2.1	2.1	12.0	11.4	11.4	11.4	25	
2077	Privately Owned		2.3	1.8	1.8	1.8	11.6	11.2	11.2	11.1	25	
2077	Privately Owned		2.4	1.9	1.9	1.9	11.7	11.2	11.2	11.2	25	
2076	Privately Owned		2.4	1.9	1.9	1.9	11.7	11.2	11.2	11.2	25	
94	Privately Owned		3.0	2.4	2.4	2.4	12.3	11.7	11.7	11.7	25	
2113	Privately Owned		3.4	3.0	3.0	3.0	12.8	12.3	12.3	12.3	25	
97	Privately Owned		2.6	2.1	2.1	2.0	11.9	11.4	11.4	11.4	25	
105	Privately Owned		0.6	0.6	0.6	0.6	9.9	9.9	9.9	9.9	25	
2036	Privately Owned		2.3	1.9	1.9	1.9	11.7	11.2	11.2	11.2	25	
105	Privately Owned		0.8	0.8	0.8	0.8	10.1	10.1	10.1	10.1	25	
2036	Privately Owned		2.5	2.0	2.0	2.0	11.8	11.3	11.3	11.3	25	
94	Privately Owned		2.6	2.1	2.1	2.1	11.9	11.4	11.4	11.4	25	
2112	Privately Owned		2.7	2.4	2.4	2.4	12.0	11.7	11.7	11.7	25	
13	Privately Owned		2.1	1.9	1.9	1.9	11.5	11.3	11.3	11.3	25	
91	Privately Owned		2.4	2.0	2.0	2.0	11.8	11.3	11.3	11.3	25	
93	Privately Owned		2.6	2.1	2.1	2.1	12.0	11.5	11.5	11.5	25	
90	Privately Owned		2.5	2.0	2.0	2.0	11.8	11.4	11.4	11.4	25	
2002	State Forest		3.7	3.5	3.5	3.5	13.1	12.9	12.9	12.9	25	
94	Privately Owned		2.7	2.2	2.2	2.2	12.0	11.5	11.5	11.5	25	
2112	Privately Owned		2.0	1.8	1.8	1.8	11.4	11.2	11.2	11.2	25	
107	Privately Owned		0.2	0.2	0.2	0.2	9.6	9.6	9.6	9.6	25	
14	Privately Owned		3.0	2.7	2.7	2.7	12.3	12.0	12.0	12.0	25	
84	Privately Owned		2.4	2.0	2.0	2.0	11.7	11.3	11.3	11.3	25	
104	CHPL Owned		3.3	3.2	3.2	3.2	12.6	12.6	12.6	12.6	25	
107	Privately Owned		0.2	0.2	0.2	0.2	9.6	9.6	9.6	9.6	25	
2013	Privately Owned		2.5	2.1	2.1	2.1	11.9	11.5	11.5	11.5	25	
107	Privately Owned		0.2	0.2	0.2	0.2	9.6	9.6	9.6	9.6	25	
50	Privately Owned		1.9	1.6	1.6	1.6	11.3	10.9	10.9	10.9	25	
107	Privately Owned		0.4	0.3	0.3	0.3	9.7	9.7	9.7	9.7	25	
2035	Privately Owned		2.2	1.9	1.9	1.8	11.6	11.2	11.2	11.2	25	
15	Privately Owned		1.6	1.7	1.7	1.7	11.2	11.0	11.0	11.0	25	
76	Privately Owned		2.3	1.9	1.9	1.9	11.7	11.3	11.3	11.3	25	
2034	Privately Owned		2.2	1.8	1.8	1.8	11.5	11.2	11.2	11.2	25	
72	Privately Owned		2.3	1.9	1.9	1.9	11.6	11.3	11.3	11.3	25	
2028	Privately Owned		2.2	1.9	1.9	1.9	11.5	11.2	11.2	11.2	25	
104	CHPL Owned		2.3	2.3	2.3	2.3	11.6	11.6	11.6	11.6	25	
104	CHPL Owned		3.1	3.1	3.1	3.1	12.5	12.4	12.4	12.4	25	
7	Privately Owned		1.7	1.5	1.5	1.5	11.0	10.9	10.9	10.9	25	
8	Privately Owned		1.7	1.5	1.5	1.5	11.0	10.9	10.9	10.9	25	
67	Privately Owned		2.2	1.8	1.8	1.8	11.5	11.2	11.2	11.2	25	
2075	Privately Owned		1.9	1.6	1.6	1.6	11.3	11.0	11.0	11.0	25	
82	Privately Owned		1.9	1.6	1.6	1.6	11.2	10.9	10.9	10.9	25	
9	Privately Owned		2.3	2.1	2.1	2.1	11.6	11.5	11.5	11.5	25	
6	Privately Owned		2.3	2.1	2.1	2.1	11.7	11.5	11.5	11.5	25	
2117	Privately Owned		1.6	1.4	1.4	1.4	10.9	10.7	10.7	10.7	25	
2063	Privately Owned		1.8	1.6	1.6	1.6	11.2	10.9	10.9	10.9	25	
374	Privately Owned		1.7	1.4	1.4	1.4	11.0	10.7	10.7	10.7	25	
2064	Privately Owned		1.9	1.6	1.6	1.6	11.2	10.9	10.9	10.9	25	
2115	Privately Owned		1.7	1.5	1.5	1.5	11.0	10.8	10.8	10.8	25	
4	Privately Owned		1.8	1.7	1.7	1.7	11.2	11.1	11.1	11.0	25	
1	Privately Owned		1.6	1.6	1.6	1.6	11.0	10.9	10.9	10.9	25	
373	Privately Owned		1.6	1.4	1.4	1.4	11.0	10.7	10.7	10.7	25	
2118	Privately Owned		1.6	1.5	1.5	1.5	11.0	10.8	10.8	10.8	25	
2	Privately Owned		1.7	1.6	1.6	1.6	11.0	10.9	10.9	10.9	25	
2118	Privately Owned		1.6	1.4	1.4	1.4	11.0	10.8	10.8	10.8	25	
2010	Privately Owned		1.6	1.4	1.4	1.4	11.0	10.8	10.8	10.8	25	
2101	Privately Owned		1.7	1.5	1.6	1.5	11.0	10.9	10.9	10.9	25	
2019	Privately Owned		1.3	1.1	1.1	1.1	10.7	10.5	10.5	10.5	25	
59	Privately Owned		1.4	1.2	1.2	1.2	10.7	10.5	10.5	10.5	25	
2032	Privately Owned		1.3	1.1	1.1	1.1	10.6	10.4	10.4	10.4	25	
280	Privately Owned		1.4	1.3	1.3	1.3	10.8	10.7	10.7	10.7	25	
358	Privately Owned		1.1	1.0	1.0	1.0	10.5	10.3	10.3	10.3	25	
2100	Privately Owned		1.3	1.2	1.2	1.2	10.6	10.6	10.6	10.6	25	
2024	Privately Owned		1.3	1.2	1.2	1.2	10.6	10.5	10.5	10.5	25	
2160	Privately Owned		3.2	2.6	2.6	2.6	12.6	12.0	12.0	12.0	25	
104	CHPL Owned		6.2	4.4	4.5	4.3	15.5	13.7	13.8	13.7	25	
178	Privately Owned		3.1	2.6	2.6	2.6	12.5	11.9	11.9	11.9	25	
2130	Privately Owned		0.8	0.8	0.8	0.7	10.1	10.1	10.1	10.1	25	

Modelled maximum 24-hour average PM2.5 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO					Modelled due to CVO and background levels					Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
-	TEOM1 (Bundarra)		3.1	3.0	3.0	3.0	15.2	15.2	15.2	15.2	25	
-	TEOM2 (Flyers Creek Weir)		5.0	4.5	4.5	4.5	15.9	15.8	15.8	15.8	25	
-	TEOM3 (Triangle Flat)		3.4	2.8	2.8	2.8	15.6	15.5	15.5	15.5	25	
-	TEOM4 (Merbah)		9.6	9.6	9.6	9.4	16.9	16.5	16.3	16.3	25	
-	BAM1 (Bundarra)	10.9	3.2	3.2	3.2	3.2	15.2	15.2	15.2	15.2	25	
-	BAM2 (Woodville)	18.2	14.0	10.0	10.0	10.0	19.0	16.3	16.3	16.3	25	
-	BAM3 (Triangle Flat)	14.1	3.3	2.7	2.7	2.7	15.6	15.5	15.5	15.5	25	
-	BAM4 (Merbah)	17.4	8.6	9.4	9.4	9.2	16.9	16.5	16.3	16.3	25	
-	HVAS1 (Bundarra)		3.1	3.0	3.0	3.0	15.2	15.2	15.2	15.2	25	
-	HVAS2 (Flyers Creek Weir)		5.0	4.5	4.5	4.5	15.9	15.8	15.8	15.8	25	
-	HVAS3 (Triangle Flat)		3.4	2.8	2.8	2.8	15.6	15.5	15.5	15.5	25	
-	HVAS4 (Merbah)		8.7	9.6	9.6	9.4	16.9	16.5	16.3	16.3	25	
-	DG9A (DG9A)		5.7	4.6	4.6	4.6	15.7	15.6	15.6	15.6	25	
-	DG5A (DG5A)		3.4	3.6	3.6	3.6	15.2	15.2	15.2	15.2	25	
-	DG15A (DG15A)		3.1	3.0	3.0	3.0	15.2	15.2	15.2	15.2	25	
-	DG17 (DG17)		1.3	1.6	1.6	1.6	15.2	15.2	15.2	15.2	25	
-	DG12A (DG12A)		5.1	4.5	4.5	4.5	15.9	15.8	15.8	15.8	25	
-	DG18 (DG18)		12.6	10.3	8.0	8.0	20.3	18.7	18.3	18.2	25	
-	DG19 (DG19)		4.1	2.8	2.8	2.8	15.8	15.8	15.8	15.8	25	
-	DG29A (DG29A)		8.7	9.7	9.6	9.4	16.9	16.5	16.3	16.3	25	
65	Privately Owned		3.2	2.4	2.4	2.4	16.0	15.8	15.8	15.8	25	
205	Crown Land		3.3	2.2	2.2	2.2	16.6	16.3	16.3	16.3	25	
2058	Privately Owned		5.0	4.6	4.6	4.5	16.0	15.8	15.8	15.8	25	
2156	Privately Owned		1.6	1.3	1.3	1.3	15.3	15.3	15.3	15.3	25	
62	Privately Owned		5.0	5.3	5.3	5.2	15.9	15.7	15.7	15.7	25	
57	Privately Owned		1.7	1.5	1.5	1.5	15.4	15.3	15.3	15.3	25	
60	Privately Owned		5.8	5.6	5.7	5.6	16.0	15.8	15.8	15.8	25	
2142	Privately Owned		2.0	1.6	1.6	1.6	15.3	15.3	15.3	15.3	25	
2136	Privately Owned		1.8	1.7	1.7	1.7	15.4	15.4	15.4	15.4	25	
2141	Privately Owned		1.8	1.4	1.4	1.4	15.4	15.3	15.3	15.3	25	
2041	Privately Owned		1.8	1.4	1.4	1.4	15.3	15.3	15.3	15.3	25	
2135	Privately Owned		1.8	1.6	1.6	1.6	15.3	15.3	15.3	15.3	25	
54	Privately Owned		2.5	2.3	2.3	2.3	15.7	15.5	15.5	15.5	25	
54	Privately Owned		2.5	2.3	2.3	2.2	15.7	15.5	15.5	15.5	25	
150	Privately Owned		1.7	1.3	1.3	1.3	15.2	15.2	15.2	15.2	25	
150	Privately Owned		1.6	1.2	1.2	1.1	15.2	15.2	15.2	15.2	25	
150	Privately Owned		1.6	1.2	1.2	1.2	15.2	15.2	15.2	15.2	25	
2125	Privately Owned		3.0	2.8	2.8	2.7	15.8	15.7	15.7	15.7	25	
104	CHPL Owned		7.3	4.0	4.1	4.0	17.8	17.1	16.9	16.9	25	
125	CHPL Owned		7.7	4.3	4.3	4.3	17.8	17.2	16.9	16.9	25	
2124	Privately Owned		2.0	1.9	1.9	1.8	15.5	15.4	15.4	15.4	25	
2124	Privately Owned		2.7	2.5	2.5	2.5	15.8	15.6	15.6	15.6	25	
2132	Privately Owned		1.3	1.2	1.2	1.2	15.2	15.2	15.2	15.2	25	
104	CHPL Owned		7.0	7.8	7.6	7.6	16.1	15.9	15.9	15.9	25	
2132	Privately Owned		1.5	1.3	1.3	1.3	15.2	15.2	15.2	15.2	25	
104	Mine Owned		1.7	1.5	1.5	1.5	15.4	15.3	15.3	15.3	25	
137	Privately Owned		1.8	1.5	1.5	1.4	15.2	15.2	15.2	15.2	25	
104	CHPL Owned		8.8	9.6	9.6	9.4	17.1	16.6	16.3	16.3	25	
104	CHPL Owned		2.4	2.3	2.3	2.3	15.2	15.2	15.2	15.2	25	
104	CHPL Owned		2.4	2.3	2.3	2.3	15.2	15.2	15.2	15.2	25	
147	Privately Owned		2.3	2.0	2.0	2.0	15.2	15.2	15.2	15.2	25	
104	CHPL Owned		3.6	3.2	3.2	3.2	16.1	15.9	15.8	15.8	25	
2126	Privately Owned		2.9	2.3	2.3	2.3	15.2	15.2	15.2	15.2	25	
2155	Privately Owned		3.0	2.5	2.5	2.5	15.4	15.3	15.3	15.3	25	
104	CHPL Owned		8.6	6.7	6.7	6.6	17.0	17.1	17.1	17.1	25	
2072	Privately Owned		2.8	2.5	2.5	2.5	15.6	15.5	15.5	15.5	25	
2148	Privately Owned		3.0	2.8	2.8	2.8	15.4	15.3	15.3	15.3	25	
2072	Privately Owned		3.0	2.6	2.6	2.6	15.5	15.5	15.5	15.5	25	
2149	Privately Owned		3.8	2.9	2.9	2.9	15.5	15.4	15.4	15.4	25	
2131	Privately Owned		1.6	1.7	1.7	1.7	15.2	15.2	15.2	15.2	25	
2150	Privately Owned		4.0	2.9	2.9	2.9	15.5	15.4	15.4	15.4	25	
2152	Privately Owned		3.9	2.9	2.9	2.9	15.4	15.4	15.4	15.4	25	
104	CHPL Owned		11.7	7.6	7.6	7.6	17.3	17.5	17.5	17.5	25	
2147	Privately Owned		3.1	2.8	2.8	2.8	15.4	15.3	15.3	15.3	25	
2123	Privately Owned		2.9	2.5	2.5	2.5	15.5	15.5	15.5	15.5	25	
135	Privately Owned		2.6	2.6	2.6	2.5	15.2	15.2	15.2	15.2	25	
210	CHPL Owned		3.9	3.1	2.6	2.6	16.2	16.0	15.9	15.9	25	
44	Privately Owned		3.5	2.9	2.9	2.9	15.6	15.5	15.5	15.5	25	
138	Privately Owned		3.3	2.3	2.3	2.3	15.2	15.2	15.2	15.2	25	
199	Privately Owned		4.7	3.5	3.5	3.5	15.4	15.3	15.3	15.3	25	
199	Privately Owned		4.3	3.3	3.3	3.3	15.4	15.4	15.4	15.4	25	
199	Privately Owned		4.2	3.4	3.3	3.3	15.4	15.4	15.4	15.4	25	
40	Privately Owned		3.6	3.2	3.2	3.2	15.5	15.4	15.4	15.4	25	
2128	Privately Owned		3.0	2.6	2.6	2.6	15.2	15.2	15.2	15.2	25	
38	Privately Owned		3.9	3.3	3.3	3.3	15.6	15.5	15.5	15.5	25	
133	Privately Owned		2.9	3.1	3.1	3.1	15.2	15.2	15.2	15.2	25	
208	Privately Owned		3.9	3.3	3.3	3.3	15.7	15.7	15.7	15.7	25	
2121	Privately Owned		3.4	3.1	3.1	3.1	16.1	15.9	15.8	15.8	25	
2127	Privately Owned		3.1	2.7	2.7	2.7	15.2	15.2	15.2	15.2	25	
125	CHPL Owned		3.2	3.1	3.1	3.1	15.2	15.2	15.2	15.2	25	
423	Privately Owned		5.0	3.8	3.8	3.8	15.4	15.4	15.4	15.4	25	
190	Privately Owned		5.3	4.0	4.0	4.0	15.4	15.4	15.4	15.4	25	
190	Privately Owned		5.5	4.2	4.2	4.2	15.5	15.4	15.4	15.4	25	
405	Privately Owned		3.8	2.9	2.9	2.9	15.4	15.4	15.4	15.4	25	
2162	Privately Owned		6.6	5.0	5.0	5.0	15.7	15.6	15.6	15.6	25	
198	Privately Owned		6.6	4.9	4.9	4.9	15.7	15.6	15.6	15.6	25	
198	Privately Owned		6.4	4.8	4.8	4.8	15.7	15.6	15.6	15.6	25	
2163	Privately Owned		8.4	6.0	6.0	6.0	16.0	15.8	15.8	15.8	25	
380	Privately Owned		6.9	5.4	5.4	5.4	15.9	15.8	15.8	15.8	25	
197	Privately Owned		5.7	4.4	4.4	4.3	15.6	15.5	15.5	15.5	25	
193	Privately Owned		5.9	4.5	4.5	4.5	15.7	15.6	15.6	15.6	25	
196	Privately Owned		6.6	4.9	4.9	4.9	15.8	15.7	15.6	15.6	25	
104	CHPL Owned		3.3	5.3	5.3	5.3	15.2	15.2	15.2	15.2	25	
195	Privately Owned		6.3	4.8	4.8	4.8	15.8	15.6	15.6	15.6	25	
2040	Privately Owned		5.7	4.6	4.6	4.6	15.6	15.5	15.5	15.5	25	
207	Privately Owned		4.5	3.7	3.7	3.7	15.5	15.4	15.4	15.4	25	
417	Privately Owned		4.3	3.5	3.5	3.5	15.4	15.4	15.4	15.4	25	
2039	Privately Owned		5.8	4.6	4.6	4.6	15.6	15.5	15.5	15.5	25	
207	Privately Owned		4.9	3.9	3.9	3.9	15.5	15.4	15.4	15.4	25	
190	Privately Owned		3.9	3.1	3.1	3.1	15.4	15.3	15.3	15.3	25	
34	Privately Owned		6.0	4.9	4.9	4.9	15.7	15.6	15.6	15.6	25	
34	Privately Owned		6.2	5.0	5.0	5.0	15.7	15.6	15.6	15.6	25	
416	Privately Owned		4.4	3.4	3.4	3.4	15.4	15.4	15.4	15.4	25	
161	Privately Owned		6.7	5.0	5.0	5.0	15.6	15.5	15.5	15.5	25	
2014	Privately Owned		1.1	1.3	1.3	1.3	15.2	15.2	15.2	15.2	25	
204	Privately Owned		7.0	5.3	5.3	5.3	15.5	15.4	15.4	15.4	25	
424	Privately Owned		6.9	5.2	5.2	5.2	15.5	15.4	15.4	15.4	25	
206	Privately Owned		7.5	5.7	5.7	5.7	15.5	15.4	15.4	15.4	25	
203	Privately Owned		8.5	6.3	6.3	6.3	15.8	15.5	15.5	15.5	25	
182	Privately Owned		8.6	6.3	6.3	6.3	15.7	15.4	15.4	15.4	25	
202	Privately Owned		9.5	7.0	7.0	7.0	16.4	15.5	15.5	15.5	25	
2014	Privately Owned		1.4	1.8	1.8	1.8	15.2	15.2	15.2	15.2	25	
125	CHPL Owned		10.3	7.7	7.7	7.7	16.1	15.8	15.8	15.8	25	
118	Privately Owned		10.4	7.6	7.6	7.6	17.3	15.5	15.5	15.5	25	
30	Privately Owned		12.4	9.2	9.2	9.2	19.3	16.2	16.2	16.2	25	
117	Privately Owned		10.1	7.5	7.5	7.5	17.0	15.5	15.5	15.5	25	
286	Privately Owned		11.2	8.3	8.3	8.3	18.2	15.6	15.6	15.6	25	
32	Privately Owned		12.4	9.2	9.2	9.2	19.4	16.3	16.3	16.3	25	
160	Privately Owned		10.9	8.1	8.1	8.1	17.9	15.5	15.5	15.5	25	
173	Privately Owned		9.2	6.8	6.8	6.8	16.1	15.4	15.4	15.4	25	
403	Privately Owned		8.9									

Modelled maximum 24-hour average PM2.5 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO				Modelled due to CVO and background levels				Criteria	
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2		with MOD 16-3
125	CHPL Owned		10.9	8.2	8.2	8.2	17.2	15.8	15.8	15.8	25
153	Privately Owned		10.8	8.1	8.1	8.1	18.0	15.8	15.8	15.8	25
23	Privately Owned		9.9	7.4	7.4	7.4	16.9	15.6	15.6	15.6	25
185	Privately Owned		8.1	6.2	6.2	6.2	15.3	15.5	15.5	15.5	25
2042	Privately Owned		7.6	5.8	5.8	5.8	15.5	15.4	15.4	15.4	25
31	Privately Owned		9.2	6.9	6.9	6.9	16.3	15.6	15.6	15.6	25
166	Privately Owned		6.9	5.4	5.4	5.4	15.6	15.5	15.5	15.5	25
116	Privately Owned		6.6	5.2	5.2	5.2	15.5	15.4	15.4	15.4	25
2024	Privately Owned		7.2	5.5	5.5	5.5	15.7	15.5	15.5	15.5	25
104	CHPL Owned		16.4	11.5	11.5	11.5	20.2	16.2	16.2	16.2	25
125	CHPL Owned		3.8	3.8	3.8	3.8	15.2	15.2	15.2	15.2	25
140	Privately Owned		6.5	4.9	4.9	4.9	15.6	15.5	15.5	15.5	25
397	Privately Owned		5.9	4.6	4.6	4.6	15.5	15.4	15.4	15.4	25
141	Privately Owned		6.0	4.6	4.6	4.6	15.6	15.5	15.5	15.5	25
131	Privately Owned		7.3	5.3	5.3	5.3	15.7	15.6	15.6	15.6	25
288	Privately Owned		7.0	5.1	5.1	5.1	15.7	15.5	15.5	15.5	25
396	Privately Owned		5.8	4.2	4.2	4.2	15.5	15.4	15.4	15.4	25
123	Privately Owned		5.9	4.3	4.3	4.3	15.5	15.4	15.4	15.4	25
124	Privately Owned		1.7	1.6	1.6	1.6	15.2	15.2	15.2	15.2	25
125	CHPL Owned		2.8	2.8	2.8	2.8	15.2	15.2	15.2	15.2	25
125	CHPL Owned		7.0	5.2	5.2	5.2	15.7	15.5	15.5	15.5	25
123	Privately Owned		6.2	4.5	4.5	4.5	15.5	15.4	15.4	15.4	25
28	Privately Owned		9.1	6.5	6.4	6.4	15.7	15.6	15.6	15.6	25
127	Privately Owned		6.1	4.4	4.4	4.4	15.5	15.4	15.4	15.4	25
281	Privately Owned		9.1	6.5	6.5	6.5	15.7	15.6	15.6	15.6	25
2116	Privately Owned		6.8	5.0	5.0	5.0	15.6	15.5	15.5	15.5	25
108	Privately Owned		7.0	5.0	5.0	5.0	15.6	15.5	15.5	15.5	25
108	Privately Owned		5.1	3.2	3.2	3.2	15.1	15.6	15.5	15.5	25
125	CHPL Owned		12.9	9.3	9.3	9.3	17.1	16.4	16.4	16.4	25
110	Privately Owned		6.9	4.9	4.9	4.9	15.5	15.4	15.4	15.4	25
92	Privately Owned		5.6	4.0	4.0	4.0	15.4	15.3	15.3	15.3	25
20	Privately Owned		6.4	5.0	5.0	5.0	15.7	15.6	15.6	15.6	25
94	Privately Owned		7.8	5.6	5.6	5.6	15.5	15.4	15.4	15.4	25
98	Privately Owned		7.6	5.5	5.5	5.5	15.5	15.4	15.4	15.4	25
2077	Privately Owned		6.7	4.9	4.9	4.9	15.4	15.4	15.4	15.4	25
2077	Privately Owned		7.0	5.1	5.1	5.1	15.4	15.4	15.4	15.4	25
2076	Privately Owned		7.1	5.1	5.1	5.1	15.4	15.4	15.4	15.4	25
94	Privately Owned		8.4	6.1	6.1	6.1	15.6	15.5	15.5	15.5	25
2113	Privately Owned		8.0	6.0	6.0	6.0	16.3	16.0	16.0	16.0	25
97	Privately Owned		7.6	5.6	5.6	5.6	15.5	15.4	15.4	15.4	25
105	Privately Owned		2.6	2.4	2.4	2.4	15.2	15.2	15.2	15.2	25
2036	Privately Owned		7.1	5.2	5.2	5.2	15.4	15.4	15.4	15.4	25
105	Privately Owned		3.3	3.1	3.1	3.1	15.2	15.2	15.2	15.2	25
2036	Privately Owned		7.1	5.4	5.4	5.4	15.4	15.4	15.4	15.4	25
94	Privately Owned		7.1	5.4	5.4	5.4	15.5	15.4	15.4	15.4	25
2112	Privately Owned		6.4	5.1	5.1	5.0	16.1	15.8	15.8	15.8	25
13	Privately Owned		5.3	4.1	4.1	4.1	15.6	15.5	15.5	15.5	25
91	Privately Owned		6.6	5.1	5.1	5.1	15.4	15.4	15.4	15.4	25
93	Privately Owned		7.7	5.6	5.6	5.6	15.5	15.4	15.4	15.4	25
90	Privately Owned		6.9	5.0	5.0	5.0	15.4	15.4	15.4	15.4	25
2002	State Forest		6.8	5.0	5.0	5.0	16.1	15.9	15.9	15.9	25
94	Privately Owned		8.1	5.9	5.9	5.9	15.5	15.4	15.4	15.4	25
2112	Privately Owned		5.2	4.1	4.1	4.1	15.6	15.5	15.5	15.5	25
107	Privately Owned		1.7	1.5	1.5	1.5	15.2	15.2	15.2	15.2	25
14	Privately Owned		6.2	4.9	4.9	4.9	16.7	16.3	16.3	16.3	25
84	Privately Owned		7.1	5.1	5.1	5.1	15.4	15.4	15.4	15.4	25
104	CHPL Owned		5.8	4.7	4.7	4.7	15.7	15.7	15.7	15.7	25
107	Privately Owned		1.8	1.6	1.6	1.6	15.2	15.2	15.2	15.2	25
2013	Privately Owned		8.3	6.1	6.1	6.1	15.5	15.4	15.4	15.4	25
107	Privately Owned		1.8	1.7	1.7	1.6	15.2	15.2	15.2	15.2	25
50	Privately Owned		5.7	4.4	4.4	4.4	15.3	15.3	15.3	15.3	25
107	Privately Owned		3.3	3.1	3.1	3.1	15.2	15.2	15.2	15.2	25
2035	Privately Owned		6.8	4.9	4.9	4.9	15.4	15.3	15.3	15.3	25
15	Privately Owned		5.1	4.1	4.1	4.1	15.6	15.5	15.5	15.5	25
76	Privately Owned		7.9	5.8	5.8	5.8	15.4	15.4	15.4	15.4	25
2034	Privately Owned		7.4	5.4	5.4	5.4	15.4	15.3	15.3	15.3	25
72	Privately Owned		7.9	5.9	5.9	5.9	15.5	15.4	15.4	15.4	25
2028	Privately Owned		7.7	5.7	5.7	5.7	15.4	15.4	15.4	15.4	25
104	CHPL Owned		5.3	4.4	4.4	4.4	15.5	15.5	15.5	15.5	25
104	CHPL Owned		4.9	4.8	4.8	4.8	15.4	15.4	15.4	15.4	25
7	Privately Owned		5.1	3.7	3.7	3.7	15.6	15.5	15.5	15.5	25
8	Privately Owned		4.8	3.5	3.6	3.5	15.6	15.5	15.5	15.5	25
67	Privately Owned		7.3	5.5	5.5	5.5	15.5	15.4	15.4	15.4	25
2075	Privately Owned		7.2	5.3	5.3	5.3	15.4	15.3	15.3	15.3	25
82	Privately Owned		7.1	5.2	5.2	5.2	15.3	15.3	15.3	15.3	25
9	Privately Owned		4.9	4.0	4.0	4.0	15.5	15.5	15.5	15.5	25
6	Privately Owned		4.8	4.0	4.0	4.0	15.7	15.6	15.6	15.6	25
2117	Privately Owned		4.6	3.4	3.4	3.4	15.6	15.5	15.5	15.5	25
2063	Privately Owned		6.8	5.1	5.1	5.1	15.4	15.3	15.3	15.3	25
374	Privately Owned		6.6	4.9	4.9	4.9	15.3	15.3	15.3	15.3	25
2064	Privately Owned		6.1	4.6	4.6	4.6	15.4	15.4	15.4	15.4	25
2115	Privately Owned		4.7	3.5	3.5	3.5	15.5	15.4	15.4	15.4	25
4	Privately Owned		4.6	3.7	3.7	3.7	15.4	15.4	15.4	15.4	25
1	Privately Owned		3.5	2.9	2.9	2.9	15.3	15.3	15.3	15.3	25
373	Privately Owned		6.0	4.6	4.6	4.6	15.3	15.3	15.3	15.3	25
2118	Privately Owned		4.8	3.5	3.5	3.5	15.5	15.4	15.4	15.4	25
2	Privately Owned		4.1	3.3	3.3	3.3	15.3	15.3	15.3	15.3	25
2118	Privately Owned		4.7	3.5	3.5	3.5	15.5	15.4	15.4	15.4	25
2010	Privately Owned		4.6	3.3	3.3	3.3	15.4	15.3	15.3	15.3	25
2101	Privately Owned		4.4	3.5	3.6	3.5	15.4	15.3	15.3	15.3	25
2019	Privately Owned		4.7	3.6	3.6	3.6	15.3	15.3	15.3	15.3	25
59	Privately Owned		4.3	3.3	3.3	3.3	15.3	15.3	15.3	15.3	25
2032	Privately Owned		4.6	3.5	3.5	3.5	15.3	15.3	15.3	15.3	25
280	Privately Owned		3.5	2.9	2.9	2.9	15.2	15.2	15.2	15.2	25
358	Privately Owned		3.9	3.0	3.0	3.0	15.3	15.3	15.3	15.3	25
2100	Privately Owned		3.2	2.7	2.7	2.7	15.2	15.2	15.2	15.2	25
2024	Privately Owned		3.0	2.3	2.3	2.3	15.2	15.2	15.2	15.2	25
2160	Privately Owned		10.7	7.9	7.9	7.9	17.3	15.7	15.7	15.7	25
104	CHPL Owned		7.9	4.8	4.9	4.8	18.5	17.7	17.7	17.7	25
178	Privately Owned		9.8	7.4	7.4	7.4	15.8	15.6	15.6	15.6	25
2130	Privately Owned		3.7	3.6	3.6	3.6	15.2	15.2	15.2	15.2	25

Modelled number of days above 25 ug/m3 PM2.5

Modelled due to CVO

Modelled due to CVO and background levels

Receptor	Description	Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	Criteria
-	TEOM1 (Bundarra)	0	0	0	0	0	0	0	0	0	0
-	TEOM2 (Flyers Creek Weir)	0	0	0	0	0	0	0	0	0	0
-	TEOM3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0
-	TEOM4 (Merbah)	0	0	0	0	0	0	0	0	0	0
-	BAM1 (Bundarra)	0	0	0	0	0	0	0	0	0	0
-	BAM2 (Woodville)	0	0	0	0	0	0	0	0	0	0
-	BAM3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0
-	BAM4 (Merbah)	0	0	0	0	0	0	0	0	0	0
-	HVAS1 (Bundarra)	0	0	0	0	0	0	0	0	0	0
-	HVAS2 (Flyers Creek Weir)	0	0	0	0	0	0	0	0	0	0
-	HVAS3 (Triangle Flat)	0	0	0	0	0	0	0	0	0	0
-	HVAS4 (Merbah)	0	0	0	0	0	0	0	0	0	0
-	DG9A (DG9A)	0	0	0	0	0	0	0	0	0	0
-	DG5A (DG5A)	0	0	0	0	0	0	0	0	0	0
-	DG15A (DG15A)	0	0	0	0	0	0	0	0	0	0
-	DG17 (DG17)	0	0	0	0	0	0	0	0	0	0
-	DG12A (DG12A)	0	0	0	0	0	0	0	0	0	0
-	DG18 (DG18)	0	0	0	0	0	0	0	0	0	0
-	DG19 (DG19)	0	0	0	0	0	0	0	0	0	0
-	DG29A (DG29A)	0	0	0	0	0	0	0	0	0	0
65	Privately Owned	0	0	0	0	0	0	0	0	0	0
205	Crown Land	0	0	0	0	0	0	0	0	0	0
2058	Privately Owned	0	0	0	0	0	0	0	0	0	0
2156	Privately Owned	0	0	0	0	0	0	0	0	0	0
62	Privately Owned	0	0	0	0	0	0	0	0	0	0
57	Privately Owned	0	0	0	0	0	0	0	0	0	0
60	Privately Owned	0	0	0	0	0	0	0	0	0	0
2142	Privately Owned	0	0	0	0	0	0	0	0	0	0
2136	Privately Owned	0	0	0	0	0	0	0	0	0	0
2141	Privately Owned	0	0	0	0	0	0	0	0	0	0
2041	Privately Owned	0	0	0	0	0	0	0	0	0	0
2135	Privately Owned	0	0	0	0	0	0	0	0	0	0
54	Privately Owned	0	0	0	0	0	0	0	0	0	0
54	Privately Owned	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0
150	Privately Owned	0	0	0	0	0	0	0	0	0	0
2125	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0
1	Privately Owned	0	0	0	0	0	0	0	0	0	0
2124	Privately Owned	0	0	0	0	0	0	0	0	0	0
2132	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
2132	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	Mine Owned	0	0	0	0	0	0	0	0	0	0
137	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
147	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
2126	Privately Owned	0	0	0	0	0	0	0	0	0	0
2155	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
2072	Privately Owned	0	0	0	0	0	0	0	0	0	0
2148	Privately Owned	0	0	0	0	0	0	0	0	0	0
2072	Privately Owned	0	0	0	0	0	0	0	0	0	0
2149	Privately Owned	0	0	0	0	0	0	0	0	0	0
2131	Privately Owned	0	0	0	0	0	0	0	0	0	0
2150	Privately Owned	0	0	0	0	0	0	0	0	0	0
2152	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
2147	Privately Owned	0	0	0	0	0	0	0	0	0	0
2123	Privately Owned	0	0	0	0	0	0	0	0	0	0
135	Privately Owned	0	0	0	0	0	0	0	0	0	0
210	CHPL Owned	0	0	0	0	0	0	0	0	0	0
44	Privately Owned	0	0	0	0	0	0	0	0	0	0
138	Privately Owned	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0
199	Privately Owned	0	0	0	0	0	0	0	0	0	0
40	Privately Owned	0	0	0	0	0	0	0	0	0	0
2128	Privately Owned	0	0	0	0	0	0	0	0	0	0
38	Privately Owned	0	0	0	0	0	0	0	0	0	0
133	Privately Owned	0	0	0	0	0	0	0	0	0	0
208	Privately Owned	0	0	0	0	0	0	0	0	0	0
2121	Privately Owned	0	0	0	0	0	0	0	0	0	0
2127	Privately Owned	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0
423	Privately Owned	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0
405	Privately Owned	0	0	0	0	0	0	0	0	0	0
2162	Privately Owned	0	0	0	0	0	0	0	0	0	0
198	Privately Owned	0	0	0	0	0	0	0	0	0	0
198	Privately Owned	0	0	0	0	0	0	0	0	0	0
2163	Privately Owned	0	0	0	0	0	0	0	0	0	0
380	Privately Owned	0	0	0	0	0	0	0	0	0	0
197	Privately Owned	0	0	0	0	0	0	0	0	0	0
193	Privately Owned	0	0	0	0	0	0	0	0	0	0
196	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0
195	Privately Owned	0	0	0	0	0	0	0	0	0	0
2040	Privately Owned	0	0	0	0	0	0	0	0	0	0
207	Privately Owned	0	0	0	0	0	0	0	0	0	0
417	Privately Owned	0	0	0	0	0	0	0	0	0	0
2039	Privately Owned	0	0	0	0	0	0	0	0	0	0
207	Privately Owned	0	0	0	0	0	0	0	0	0	0
190	Privately Owned	0	0	0	0	0	0	0	0	0	0
34	Privately Owned	0	0	0	0	0	0	0	0	0	0
34	Privately Owned	0	0	0	0	0	0	0	0	0	0
416	Privately Owned	0	0	0	0	0	0	0	0	0	0
161	Privately Owned	0	0	0	0	0	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0
204	Privately Owned	0	0	0	0	0	0	0	0	0	0
424	Privately Owned	0	0	0	0	0	0	0	0	0	0
206	Privately Owned	0	0	0	0	0	0	0	0	0	0
203	Privately Owned	0	0	0	0	0	0	0	0	0	0
182	Privately Owned	0	0	0	0	0	0	0	0	0	0
202	Privately Owned	0	0	0	0	0	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0
118	Privately Owned	0	0	0	0	0	0	0	0	0	0
30	Privately Owned	0	0	0	0	0	0	0	0	0	0
117	Privately Owned	0	0	0	0	0	0	0	0	0	0
286	Privately Owned	0	0	0	0	0	0	0	0	0	0
32	Privately Owned	0	0	0	0	0	0	0	0	0	0
160	Privately Owned	0	0	0	0	0	0	0	0	0	0
173	Privately Owned	0	0	0	0	0	0	0	0	0	0
403	Privately Owned	0	0	0	0	0	0	0	0	0	0
285	Privately Owned	0	0	0	0	0	0	0	0	0	0
2014	Privately Owned	0	0	0	0	0	0	0	0	0	0
185	Privately Owned	0	0	0	0	0	0	0	0	0	0
400	Privately Owned	0	0	0	0	0	0	0	0	0	0
31	Privately Owned	0	0	0	0	0	0	0	0	0	0
156	Privately Owned	0	0	0	0	0	0	0	0	0	0
125	Privately Owned	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0

Modelled number of days above 25 ug/m3 PM2.5

Receptor	Description	Modelled due to CVO							Modelled due to CVO and background levels			Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
153	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
23	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
165	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2042	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
31	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
166	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
116	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2024	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
140	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
397	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
141	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
131	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
288	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
396	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
123	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
124	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
123	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
28	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
127	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
281	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2116	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
108	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
108	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
125	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
110	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
92	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
20	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
94	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
98	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2077	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2077	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2076	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
94	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2113	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
97	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
105	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2036	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
105	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2036	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
94	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2112	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
13	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
91	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
93	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
90	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2002	State Forest	0	0	0	0	0	0	0	0	0	0	0
94	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2112	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
107	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
14	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
84	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
107	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2013	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
107	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
50	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
107	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2035	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
15	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
178	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2034	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
72	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2028	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
7	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
8	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
67	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2075	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
82	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
9	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
6	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2117	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2063	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
374	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2064	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2115	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
4	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
1	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
373	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2118	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2118	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2010	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2101	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2019	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
59	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2032	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
280	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
358	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2100	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2024	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2160	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
104	CHPL Owned	0	0	0	0	0	0	0	0	0	0	0
178	Privately Owned	0	0	0	0	0	0	0	0	0	0	0
2130	Privately Owned	0	0	0	0	0	0	0	0	0	0	0

Modelled annual average PM2.5 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO										Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
-	TEOM1 (Bundarra)		0.5	0.5	0.5	0.5	4.5	4.5	4.5	4.5	8	
-	TEOM2 (Flyers Creek Weir)		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
-	TEOM3 (Triangle Flat)		0.5	0.4	0.4	0.4	4.5	4.5	4.4	4.4	8	
-	TEOM4 (Meribah)		0.8	0.4	0.4	0.4	4.9	4.7	4.6	4.6	8	
-	BAM1 (Bundarra)	3.5	0.5	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8	
-	BAM2 (Woodville)	5.1	1.4	1.1	1.1	1.1	5.5	5.2	5.2	5.1	8	
-	BAM3 (Triangle Flat)	3.4	0.5	0.4	0.4	0.3	4.5	4.4	4.4	4.4	8	
-	BAM4 (Meribah)	4.2	0.8	0.6	0.5	0.5	4.8	4.7	4.6	4.6	8	
-	HVAS1 (Bundarra)		0.5	0.5	0.5	0.5	4.5	4.5	4.5	4.5	8	
-	HVAS2 (Flyers Creek Weir)		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
-	HVAS3 (Triangle Flat)		0.5	0.4	0.4	0.4	4.5	4.5	4.4	4.4	8	
-	HVAS4 (Meribah)		0.8	0.7	0.6	0.5	4.9	4.7	4.6	4.6	8	
-	DG9A (DG9A)		0.9	0.8	0.8	0.8	4.9	4.8	4.8	4.8	8	
-	DG5A (DG5A)		0.2	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
-	DG15A (DG15A)		0.5	0.5	0.5	0.5	4.5	4.5	4.5	4.5	8	
-	DG17 (DG17)		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8	
-	DG12A (DG12A)		0.7	0.6	0.5	0.5	4.7	4.6	4.6	4.6	8	
-	DG18 (DG18)		2.8	2.1	1.7	1.6	6.9	6.1	5.7	5.7	8	
-	DG19 (DG19)		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8	
-	DG29A (DG29A)		0.8	0.7	0.6	0.5	4.9	4.7	4.6	4.6	8	
65	Privately Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8	
205	Crown Land		0.3	0.3	0.2	0.2	4.4	4.3	4.3	4.3	8	
2058	Privately Owned		0.3	0.3	0.2	0.2	4.4	4.3	4.3	4.3	8	
2156	Privately Owned		0.2	0.2	0.1	0.1	4.2	4.2	4.2	4.2	8	
62	Privately Owned		0.3	0.3	0.2	0.2	4.4	4.3	4.3	4.3	8	
57	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8	
60	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.3	4.3	8	
2142	Privately Owned		0.2	0.2	0.1	0.1	4.2	4.2	4.2	4.2	8	
2136	Privately Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8	
2141	Privately Owned		0.2	0.2	0.2	0.1	4.2	4.2	4.2	4.2	8	
2041	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8	
2135	Privately Owned		0.2	0.2	0.2	0.1	4.2	4.2	4.2	4.2	8	
54	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
54	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
150	Privately Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8	
150	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8	
150	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8	
2125	Privately Owned		0.3	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
104	CHPL Owned		0.8	0.6	0.5	0.5	4.8	4.7	4.6	4.6	8	
125	CHPL Owned		0.6	0.6	0.5	0.5	4.6	4.7	4.6	4.6	8	
125	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
2124	Privately Owned		0.3	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
2132	Privately Owned		0.2	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8	
104	CHPL Owned		0.6	0.4	0.4	0.4	4.6	4.5	4.4	4.4	8	
2132	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8	
104	Mine Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8	
137	Privately Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8	
104	CHPL Owned		0.8	0.7	0.6	0.5	4.9	4.7	4.6	4.6	8	
104	CHPL Owned		0.3	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
104	CHPL Owned		0.4	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
147	Privately Owned		0.3	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
104	CHPL Owned		0.6	0.4	0.4	0.4	4.6	4.5	4.4	4.4	8	
2126	Privately Owned		0.4	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8	
2155	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
104	CHPL Owned		1.7	1.4	1.4	1.4	5.7	5.4	5.4	5.4	8	
2072	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.4	4.4	8	
2148	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
2072	Privately Owned		0.5	0.4	0.3	0.3	4.5	4.4	4.4	4.4	8	
2149	Privately Owned		0.3	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
2131	Privately Owned		0.1	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8	
2150	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
2152	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.3	4.3	4.3	8	
104	CHPL Owned		2.0	1.8	1.8	1.8	6.1	5.8	5.8	5.8	8	
2147	Privately Owned		0.3	0.3	0.3	0.2	4.4	4.3	4.3	4.3	8	
2123	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.4	4.4	8	
135	Privately Owned		0.3	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8	
210	CHPL Owned		1.1	0.8	0.7	0.7	5.1	4.8	4.7	4.7	8	
44	Privately Owned		0.5	0.4	0.4	0.3	4.5	4.4	4.4	4.4	8	
138	Privately Owned		0.4	0.4	0.4	0.4	4.4	4.4	4.4	4.4	8	
199	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.3	4.3	8	
199	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.4	4.4	8	
199	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8	
40	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8	
2128	Privately Owned		0.3	0.3	0.3	0.3	4.4	4.4	4.4	4.4	8	
38	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8	
133	Privately Owned		0.3	0.3	0.3	0.3	4.3	4.3	4.3	4.3	8	
208	Privately Owned		0.6	0.5	0.4	0.4	4.6	4.5	4.5	4.5	8	
2121	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.6	4.6	8	
2127	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.5	4.5	4.5	8	
125	CHPL Owned		0.5	0.5	0.5	0.5	4.5	4.5	4.5	4.5	8	
423	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8	
190	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8	
190	Privately Owned		0.5	0.4	0.3	0.3	4.5	4.4	4.4	4.4	8	
405	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.4	4.4	8	
2162	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
198	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8	
198	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8	
2163	Privately Owned		0.8	0.7	0.7	0.6	4.9	4.7	4.7	4.7	8	
380	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8	
197	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8	
193	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8	
196	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
104	CHPL Owned		0.6	0.7	0.7	0.7	4.6	4.7	4.7	4.7	8	
195	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
2040	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8	
207	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8	
417	Privately Owned		0.5	0.4	0.4	0.3	4.5	4.4	4.4	4.4	8	
2039	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8	
207	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.4	4.4	4.4	8	
190	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8	
34	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
34	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
416	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8	
161	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
2014	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8	
204	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8	
424	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8	
206	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8	
203	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
182	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
202	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
2014	Privately Owned		0.1	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8	
125	CHPL Owned		0.8	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8	
118	Privately Owned		0.7	0.6	0.5	0.5	4.8	4.6	4.6	4.6	8	
30	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.8	4.8	8	
117	Privately Owned		0.7	0.6	0.5	0.5	4.8	4.6	4.6	4.6	8	
286	Privately Owned		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8	
32	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.8	4.8	8	
160	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8	
173	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
403	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
285	Privately Owned		0.9	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8	
2014	Privately Owned		0.1	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8	
185	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
400	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8	
31	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.8	4.8	8	
156	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8	

Modelled annual average PM2.5 concentrations (ug/m3)

Receptor	Description	Modelled due to CVO				Modelled due to CVO and background levels				Criteria	
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2		with MOD 16-3
125	CHPL Owned		1.1	0.9	0.9	0.9	5.2	4.9	4.9	4.9	8
153	Privately Owned		1.0	0.7	0.7	0.7	5.0	4.8	4.8	4.8	8
23	Privately Owned		0.8	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
165	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
2042	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8
31	Privately Owned		0.9	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
166	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
116	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8
2024	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.6	8
104	CHPL Owned		1.7	1.3	1.3	1.3	5.7	5.3	5.3	5.3	8
125	CHPL Owned		0.2	0.2	0.2	0.2	4.3	4.3	4.3	4.3	8
140	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
397	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8
141	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
131	Privately Owned		0.9	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
288	Privately Owned		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8
396	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8
123	Privately Owned		0.7	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8
124	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8
125	CHPL Owned		0.2	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8
125	CHPL Owned		0.7	0.6	0.6	0.6	4.8	4.7	4.6	4.6	8
123	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
28	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.7	4.7	8
127	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
281	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.7	4.7	8
2116	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.6	8
108	Privately Owned		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8
108	Privately Owned		0.9	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
125	CHPL Owned		1.5	1.2	1.2	1.2	5.5	5.2	5.2	5.2	8
110	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
92	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8
20	Privately Owned		0.8	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
94	Privately Owned		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8
98	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
2077	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
2077	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
2076	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
94	Privately Owned		0.9	0.7	0.7	0.7	5.0	4.8	4.8	4.8	8
2113	Privately Owned		1.0	0.8	0.8	0.8	5.1	4.9	4.9	4.9	8
97	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
105	Privately Owned		0.2	0.1	0.1	0.1	4.2	4.2	4.2	4.2	8
2036	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
105	Privately Owned		0.2	0.2	0.2	0.2	4.3	4.2	4.2	4.2	8
2036	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.6	4.6	8
94	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
2112	Privately Owned		0.8	0.7	0.7	0.7	4.8	4.7	4.7	4.7	8
13	Privately Owned		0.7	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
91	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.6	4.6	8
93	Privately Owned		0.8	0.6	0.6	0.6	4.9	4.7	4.7	4.7	8
90	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
2002	State Forest		1.0	0.9	0.9	0.9	5.1	5.0	5.0	5.0	8
94	Privately Owned		0.8	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
2112	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8
107	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8
14	Privately Owned		0.9	0.8	0.7	0.7	4.9	4.8	4.8	4.8	8
84	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.6	8
104	CHPL Owned		0.9	0.8	0.8	0.8	4.9	4.9	4.9	4.9	8
107	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8
2013	Privately Owned		0.8	0.6	0.6	0.6	4.8	4.7	4.7	4.7	8
107	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8
50	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8
107	Privately Owned		0.1	0.1	0.1	0.1	4.1	4.1	4.1	4.1	8
2035	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
15	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8
76	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
2034	Privately Owned		0.7	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
72	Privately Owned		0.7	0.6	0.6	0.6	4.8	4.6	4.6	4.6	8
2028	Privately Owned		0.7	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
104	CHPL Owned		0.6	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
104	CHPL Owned		0.7	0.7	0.7	0.7	4.8	4.8	4.8	4.8	8
7	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
8	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
67	Privately Owned		0.7	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
2075	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.6	4.6	4.6	8
82	Privately Owned		0.6	0.5	0.5	0.5	4.7	4.5	4.5	4.5	8
9	Privately Owned		0.6	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
6	Privately Owned		0.7	0.6	0.6	0.6	4.7	4.6	4.6	4.6	8
2117	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.5	4.5	4.5	8
2063	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8
374	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
2064	Privately Owned		0.6	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8
2115	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
4	Privately Owned		0.5	0.5	0.5	0.5	4.6	4.5	4.5	4.5	8
1	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.5	4.5	4.5	8
373	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
2118	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
2	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.5	4.5	4.5	8
2118	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
2010	Privately Owned		0.5	0.4	0.4	0.4	4.6	4.5	4.5	4.5	8
2101	Privately Owned		0.5	0.4	0.4	0.4	4.5	4.5	4.5	4.5	8
2019	Privately Owned		0.4	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8
59	Privately Owned		0.4	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8
2032	Privately Owned		0.4	0.3	0.3	0.3	4.5	4.4	4.4	4.4	8
280	Privately Owned		0.4	0.4	0.4	0.4	4.5	4.4	4.4	4.4	8
358	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.4	4.4	8
2100	Privately Owned		0.4	0.4	0.4	0.4	4.4	4.4	4.4	4.4	8
2024	Privately Owned		0.4	0.3	0.3	0.3	4.4	4.4	4.4	4.4	8
2160	Privately Owned		0.9	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
104	CHPL Owned		1.3	1.0	1.0	0.9	5.4	5.0	5.0	5.0	8
178	Privately Owned		0.8	0.7	0.7	0.7	4.9	4.7	4.7	4.7	8
2130	Privately Owned		0.2	0.2	0.2	0.2	4.2	4.2	4.2	4.2	8

Modelled annual average TSP concentrations (ug/m3)

Receptor	Description	Modelled due to CVO					Modelled due to CVO and background levels					Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
-	TEOM1 (Bundarra)	25.0	2.6	2.7	2.6	2.6	25.6	25.6	25.6	25.6	90	
-	TEOM2 (Flyers Creek Weir)	25.0	3.3	2.7	2.7	2.7	26.3	25.7	25.7	25.7	90	
-	TEOM3 (Triangle Flat)	20.0	2.4	2.0	1.9	1.8	25.4	24.9	24.8	24.8	90	
-	TEOM4 (Merbah)	23.0	4.1	3.2	2.9	2.9	26.2	25.3	25.3	25.3	90	
-	BAM1 (Bundarra)		2.7	2.7	2.7	2.7	25.7	25.7	25.7	25.7	90	
-	BAM2 (Woodville)		6.7	5.1	5.1	5.1	29.6	28.1	28.1	28.1	90	
-	BAM3 (Triangle Flat)		2.4	1.9	1.8	1.7	25.3	24.9	24.8	24.7	90	
-	BAM4 (Merbah)		4.0	3.1	2.8	2.8	27.0	26.1	25.8	25.8	90	
-	HVAS1 (Bundarra)		2.6	2.7	2.6	2.6	25.6	25.6	25.6	25.6	90	
-	HVAS2 (Flyers Creek Weir)		3.3	2.7	2.7	2.7	26.3	25.7	25.7	25.7	90	
-	HVAS3 (Triangle Flat)		2.4	2.0	1.9	1.8	25.4	24.9	24.8	24.8	90	
-	HVAS4 (Merbah)		4.1	3.2	2.9	2.9	27.1	26.2	25.9	25.9	90	
-	DG9A (DG9A)		3.1	3.1	3.1	3.1	26.1	26.1	26.1	26.1	90	
-	DG5A (DG5A)		1.1	1.2	1.2	1.2	24.1	24.2	24.2	24.2	90	
-	DG15A (DG15A)		2.6	2.6	2.6	2.6	25.6	25.6	25.6	25.6	90	
-	DG17 (DG17)		0.4	0.4	0.4	0.4	23.4	23.4	23.4	23.4	90	
-	DG12A (DG12A)		3.3	2.7	2.7	2.7	26.3	25.7	25.7	25.7	90	
-	DG18 (DG18)		23.3	17.0	15.5	15.2	46.3	40.0	38.5	38.2	90	
-	DG19 (DG19)		4.8	3.6	3.5	3.5	27.8	26.6	26.6	26.6	90	
-	DG29A (DG29A)		4.1	3.2	2.9	2.9	27.1	26.2	25.9	25.9	90	
65	Privately Owned		1.0	0.7	0.7	0.7	23.9	23.7	23.7	23.7	90	
205	Crown Land		1.3	1.0	1.0	1.0	24.4	24.0	24.0	24.0	90	
2058	Privately Owned		1.4	1.1	1.0	1.0	24.4	24.1	24.1	24.0	90	
2156	Privately Owned		0.7	0.6	0.6	0.6	23.7	23.6	23.6	23.6	90	
62	Privately Owned		1.4	1.1	1.1	1.1	24.4	24.1	24.1	24.1	90	
57	Privately Owned		0.8	0.6	0.6	0.6	23.8	23.6	23.6	23.6	90	
60	Privately Owned		1.7	1.3	1.3	1.3	24.7	24.3	24.3	24.3	90	
2142	Privately Owned		0.6	0.5	0.5	0.5	23.5	23.5	23.5	23.5	90	
2136	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
2141	Privately Owned		0.7	0.5	0.5	0.5	23.7	23.5	23.5	23.5	90	
2041	Privately Owned		0.7	0.5	0.5	0.5	23.7	23.5	23.5	23.5	90	
2135	Privately Owned		0.8	0.6	0.6	0.6	23.8	23.6	23.6	23.6	90	
54	Privately Owned		1.2	1.0	1.0	1.0	24.2	24.0	24.0	24.0	90	
54	Privately Owned		1.2	1.0	1.0	1.0	24.2	24.0	24.0	24.0	90	
150	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
150	Privately Owned		0.9	0.8	0.8	0.8	23.9	23.8	23.8	23.7	90	
150	Privately Owned		0.9	0.7	0.7	0.7	23.9	23.7	23.7	23.7	90	
2125	Privately Owned		1.5	1.2	1.2	1.2	24.5	24.2	24.2	24.2	90	
104	CHPL Owned		3.9	2.9	2.6	2.6	26.9	25.9	25.6	25.6	90	
125	CHPL Owned		3.6	2.6	2.6	2.6	26.8	25.9	25.6	25.6	90	
2126	Privately Owned		1.2	0.9	0.9	0.9	24.2	24.0	23.9	23.9	90	
2124	Privately Owned		1.5	1.2	1.2	1.1	24.5	24.2	24.2	24.2	90	
2132	Privately Owned		0.7	0.6	0.6	0.6	23.7	23.6	23.6	23.6	90	
104	CHPL Owned		2.6	2.1	1.9	1.9	25.6	25.1	24.9	24.9	90	
2132	Privately Owned		0.8	0.7	0.7	0.7	23.8	23.7	23.7	23.7	90	
104	Mine Owned		0.9	0.7	0.7	0.7	23.9	23.7	23.7	23.6	90	
137	Privately Owned		1.0	0.9	0.9	0.9	24.0	23.9	23.9	23.9	90	
104	CHPL Owned		4.2	3.3	2.9	2.9	27.2	26.3	26.0	25.9	90	
104	CHPL Owned		1.7	1.4	1.4	1.4	24.7	24.4	24.4	24.4	90	
104	CHPL Owned		1.7	1.4	1.4	1.4	24.7	24.4	24.4	24.4	90	
147	Privately Owned		1.6	1.4	1.4	1.4	24.6	24.4	24.4	24.4	90	
104	CHPL Owned		2.7	2.0	1.9	1.9	25.7	25.0	25.0	25.0	90	
2126	Privately Owned		2.3	1.9	1.9	1.9	25.3	24.9	24.9	24.9	90	
2155	Privately Owned		0.9	0.7	0.7	0.7	23.9	23.7	23.7	23.7	90	
104	CHPL Owned		11.9	9.5	9.6	9.4	34.9	32.5	32.6	32.4	90	
2072	Privately Owned		2.4	1.9	1.8	1.8	25.4	24.9	24.8	24.8	90	
2148	Privately Owned		0.9	0.8	0.8	0.7	23.9	23.7	23.7	23.7	90	
2072	Privately Owned		2.3	1.8	1.8	1.7	25.3	24.8	24.8	24.7	90	
2149	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
2131	Privately Owned		0.6	0.6	0.6	0.6	23.6	23.6	23.6	23.6	90	
2150	Privately Owned		1.2	0.9	0.9	0.9	24.2	23.9	23.9	23.9	90	
2152	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
104	CHPL Owned		17.3	15.5	15.7	15.5	40.3	38.5	38.7	38.5	90	
2147	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
2123	Privately Owned		2.7	2.1	2.0	2.0	25.7	25.1	25.1	25.1	90	
135	Privately Owned		1.1	1.2	1.2	1.2	24.1	24.2	24.2	24.2	90	
210	CHPL Owned		6.2	4.7	4.4	4.3	29.2	27.7	27.4	27.3	90	
44	Privately Owned		2.3	1.9	1.8	1.7	25.3	24.9	24.8	24.7	90	
138	Privately Owned		1.9	1.9	1.8	1.8	24.9	24.9	24.9	24.8	90	
199	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
199	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
199	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
40	Privately Owned		1.8	1.5	1.4	1.4	24.9	24.5	24.5	24.4	90	
2128	Privately Owned		1.6	1.7	1.7	1.7	24.6	24.7	24.7	24.6	90	
38	Privately Owned		2.3	1.9	1.9	1.8	25.3	24.9	24.9	24.8	90	
133	Privately Owned		1.3	1.5	1.5	1.5	24.3	24.5	24.5	24.5	90	
2087	Privately Owned		2.8	2.3	2.3	2.3	25.3	25.3	25.3	25.2	90	
2121	Privately Owned		4.4	3.5	3.5	3.3	27.4	26.5	26.5	26.4	90	
2127	Privately Owned		2.4	2.4	2.4	2.4	25.4	25.4	25.4	25.4	90	
125	CHPL Owned		2.6	2.6	2.6	2.6	25.6	25.6	25.6	25.6	90	
423	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
190	Privately Owned		1.2	1.0	1.0	0.9	24.2	24.0	23.9	23.9	90	
190	Privately Owned		1.4	1.1	1.1	1.1	24.3	24.1	24.0	24.0	90	
405	Privately Owned		1.1	0.9	0.8	0.8	24.1	23.8	23.8	23.8	90	
2162	Privately Owned		2.6	2.1	2.1	2.0	25.6	25.0	25.0	25.0	90	
198	Privately Owned		2.3	1.8	1.8	1.7	25.3	24.8	24.8	24.8	90	
198	Privately Owned		2.3	1.8	1.8	1.8	25.3	24.8	24.8	24.7	90	
2163	Privately Owned		3.9	3.1	3.1	3.0	26.9	26.1	26.1	26.1	90	
380	Privately Owned		3.6	2.8	2.8	2.7	26.8	25.9	25.8	25.8	90	
197	Privately Owned		2.0	1.6	1.6	1.6	25.1	24.6	24.6	24.6	90	
193	Privately Owned		2.2	1.8	1.8	1.7	25.2	24.8	24.8	24.7	90	
196	Privately Owned		2.7	2.1	2.1	2.1	25.7	25.1	25.1	25.1	90	
104	CHPL Owned		3.0	4.0	4.0	4.0	26.0	27.0	27.0	27.0	90	
195	Privately Owned		2.7	2.1	2.1	2.1	25.7	25.1	25.1	25.1	90	
2040	Privately Owned		2.0	1.6	1.6	1.5	25.0	24.6	24.6	24.5	90	
207	Privately Owned		1.3	1.1	1.1	1.1	24.3	24.1	24.1	24.0	90	
417	Privately Owned		1.2	1.0	1.0	1.0	24.2	24.0	24.0	24.0	90	
2039	Privately Owned		2.0	1.6	1.6	1.6	25.0	24.6	24.6	24.5	90	
207	Privately Owned		1.5	1.2	1.2	1.2	24.5	24.2	24.2	24.1	90	
190	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
34	Privately Owned		2.6	2.0	2.0	2.0	25.6	25.0	25.0	25.0	90	
34	Privately Owned		2.5	2.0	2.0	2.0	25.5	25.0	25.0	24.9	90	
416	Privately Owned		1.3	1.0	1.0	1.0	24.3	24.0	24.0	24.0	90	
161	Privately Owned		2.2	1.7	1.7	1.7	25.2	24.8	24.8	24.7	90	
2014	Privately Owned		0.3	0.3	0.3	0.3	23.3	23.3	23.3	23.3	90	
204	Privately Owned		1.9	1.5	1.5	1.5	24.9	24.5	24.5	24.5	90	
424	Privately Owned		1.7	1.3	1.3	1.3	24.7	24.3	24.3	24.3	90	
206	Privately Owned		1.9	1.5	1.5	1.5	24.9	24.5	24.5	24.5	90	
203	Privately Owned		2.1	1.7	1.7	1.7	25.1	24.7	24.7	24.7	90	
182	Privately Owned		2.0	1.6	1.6	1.6	25.0	24.6	24.6	24.6	90	
202	Privately Owned		2.1	1.7	1.7	1.7	25.2	24.7	24.7	24.7	90	
2014	Privately Owned		0.5	0.5	0.5	0.5	23.5	23.5	23.5	23.5	90	
125	CHPL Owned		3.6	3.1	3.1	3.0	26.8	26.1	26.1	26.1	90	
118	Privately Owned		2.2	1.8	1.7	1.7	25.2	24.7	24.7	24.7	90	
30	Privately Owned		3.9	3.1	3.1	3.0	26.9	26.1	26.1	26.1	90	
117	Privately Owned		2.2	1.7	1.7	1.7	25.2	24.7	24.7	24.7	90	
286	Privately Owned		2.9	2.3	2.3	2.3	25.9	25.3	25.3	25.3	90	
32	Privately Owned		3.8	2.9	2.9	2.9	26.7	26.0	26.0	25.9	90	
160	Privately Owned		2.8	2.2	2.2	2.2	25.8	25.2	25.2	25.2	90	
173	Privately Owned		1.9	1.5	1.5	1.5	24.9	24.5	24.5	24.5	90	
403	Privately Owned		1.9	1.5								

Modelled annual average TSP concentrations (ug/m3)

Receptor	Description	Modelled due to CVO					Modelled due to CVO and background levels					Criteria
		Measured (2022-23)	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	With MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3		
125	CHPL Owned		5.0	4.0	3.9	3.9	28.0	26.9	26.9	26.9	90	
153	Privately Owned		3.8	3.0	3.0	3.0	26.9	26.0	26.0	26.0	90	
23	Privately Owned		3.0	2.4	2.4	2.4	26.0	25.4	25.4	25.4	90	
165	Privately Owned		2.2	1.7	1.7	1.7	25.1	24.7	24.7	24.7	90	
2042	Privately Owned		1.8	1.4	1.4	1.4	24.8	24.4	24.4	24.4	90	
31	Privately Owned		3.3	2.6	2.6	2.6	26.3	25.6	25.6	25.6	90	
166	Privately Owned		2.2	1.8	1.8	1.7	25.2	24.8	24.8	24.8	90	
116	Privately Owned		2.0	1.6	1.6	1.6	25.0	24.6	24.6	24.6	90	
2024	Privately Owned		2.5	2.0	2.0	2.0	25.5	25.0	25.0	25.0	90	
104	CHPL Owned		7.5	5.7	5.7	5.7	30.5	28.8	28.8	28.7	90	
125	CHPL Owned		1.2	1.3	1.3	1.3	24.2	24.3	24.3	24.3	90	
140	Privately Owned		2.4	1.9	1.9	1.9	25.5	25.0	25.0	24.9	90	
397	Privately Owned		1.7	1.4	1.4	1.4	24.7	24.4	24.4	24.4	90	
141	Privately Owned		2.1	1.7	1.7	1.7	25.1	24.7	24.7	24.7	90	
131	Privately Owned		2.8	2.2	2.2	2.2	25.8	25.3	25.3	25.2	90	
288	Privately Owned		2.6	2.1	2.1	2.1	25.6	25.1	25.1	25.1	90	
396	Privately Owned		1.9	1.5	1.5	1.5	24.9	24.5	24.5	24.5	90	
123	Privately Owned		1.9	1.6	1.5	1.5	24.9	24.5	24.5	24.5	90	
124	Privately Owned		0.4	0.4	0.4	0.4	23.4	23.4	23.4	23.4	90	
125	CHPL Owned		0.7	0.7	0.7	0.7	23.7	23.7	23.7	23.7	90	
125	CHPL Owned		2.7	2.2	2.2	2.2	25.6	25.2	25.2	25.2	90	
123	Privately Owned		2.1	1.6	1.6	1.6	25.0	24.6	24.6	24.6	90	
28	Privately Owned		3.0	2.4	2.4	2.4	26.0	25.4	25.4	25.3	90	
127	Privately Owned		2.0	1.6	1.6	1.6	25.0	24.6	24.6	24.6	90	
281	Privately Owned		3.0	2.3	2.3	2.3	25.9	25.3	25.3	25.3	90	
2116	Privately Owned		2.6	2.1	2.1	2.1	25.6	25.1	25.2	25.1	90	
108	Privately Owned		2.5	1.9	1.9	1.9	25.4	24.9	24.9	24.9	90	
108	Privately Owned		2.6	2.0	2.0	2.0	25.5	25.0	25.0	25.0	90	
125	CHPL Owned		5.6	4.6	4.6	4.6	28.6	27.6	27.6	27.6	90	
110	Privately Owned		2.2	1.7	1.7	1.7	25.2	24.7	24.7	24.7	90	
92	Privately Owned		1.5	1.2	1.2	1.2	24.5	24.2	24.2	24.2	90	
20	Privately Owned		2.4	2.1	2.1	2.0	25.4	25.0	25.0	25.0	90	
94	Privately Owned		2.3	1.8	1.8	1.8	25.3	24.8	24.8	24.8	90	
98	Privately Owned		2.1	1.7	1.7	1.7	25.1	24.7	24.7	24.7	90	
2077	Privately Owned		1.7	1.4	1.4	1.4	24.7	24.4	24.4	24.4	90	
2077	Privately Owned		1.9	1.5	1.5	1.5	24.8	24.5	24.5	24.5	90	
2076	Privately Owned		1.8	1.5	1.5	1.4	24.8	24.5	24.5	24.4	90	
94	Privately Owned		2.6	2.1	2.1	2.1	25.6	25.1	25.1	25.1	90	
2113	Privately Owned		3.1	2.7	2.7	2.6	26.0	25.6	25.6	25.6	90	
97	Privately Owned		2.1	1.6	1.6	1.6	25.1	24.6	24.6	24.6	90	
105	Privately Owned		0.8	0.8	0.8	0.8	23.8	23.8	23.8	23.8	90	
2036	Privately Owned		1.8	1.4	1.4	1.4	24.8	24.4	24.4	24.4	90	
105	Privately Owned		1.1	1.1	1.1	1.1	24.1	24.1	24.1	24.1	90	
2036	Privately Owned		1.9	1.5	1.5	1.5	24.9	24.5	24.5	24.5	90	
94	Privately Owned		2.0	1.6	1.6	1.6	25.0	24.6	24.6	24.6	90	
2112	Privately Owned		2.2	2.0	2.0	2.0	25.2	25.0	25.0	25.0	90	
13	Privately Owned		1.7	1.6	1.6	1.6	24.7	24.6	24.6	24.6	90	
91	Privately Owned		1.8	1.5	1.5	1.5	24.8	24.5	24.5	24.5	90	
93	Privately Owned		2.1	1.7	1.7	1.7	25.1	24.7	24.7	24.7	90	
90	Privately Owned		1.9	1.6	1.6	1.6	24.9	24.6	24.6	24.6	90	
2002	State Forest		3.6	3.5	3.5	3.5	26.7	26.5	26.5	26.5	90	
94	Privately Owned		2.1	1.8	1.8	1.8	25.1	24.8	24.8	24.8	90	
2112	Privately Owned		1.6	1.5	1.5	1.5	24.6	24.5	24.5	24.5	90	
107	Privately Owned		0.3	0.3	0.3	0.3	23.3	23.3	23.3	23.3	90	
14	Privately Owned		2.6	2.4	2.4	2.4	25.6	25.4	25.4	25.4	90	
84	Privately Owned		1.8	1.5	1.5	1.5	24.8	24.5	24.5	24.5	90	
104	CHPL Owned		3.3	3.3	3.3	3.3	26.3	26.3	26.3	26.3	90	
107	Privately Owned		0.3	0.3	0.3	0.2	23.3	23.2	23.2	23.2	90	
2013	Privately Owned		2.0	1.7	1.7	1.7	25.0	24.7	24.7	24.7	90	
107	Privately Owned		0.3	0.2	0.2	0.2	23.3	23.2	23.2	23.2	90	
50	Privately Owned		1.3	1.1	1.1	1.1	24.3	24.1	24.1	24.1	90	
107	Privately Owned		0.4	0.4	0.4	0.4	23.4	23.4	23.4	23.4	90	
2035	Privately Owned		1.6	1.4	1.4	1.4	24.6	24.4	24.4	24.3	90	
15	Privately Owned		1.4	1.3	1.3	1.3	24.4	24.3	24.3	24.3	90	
76	Privately Owned		1.7	1.5	1.5	1.5	24.7	24.5	24.5	24.5	90	
2034	Privately Owned		1.6	1.3	1.3	1.3	24.6	24.3	24.3	24.3	90	
72	Privately Owned		1.7	1.5	1.5	1.5	24.7	24.5	24.5	24.5	90	
2028	Privately Owned		1.6	1.4	1.4	1.4	24.6	24.4	24.4	24.4	90	
104	CHPL Owned		2.2	2.2	2.2	2.2	25.1	25.2	25.2	25.2	90	
104	CHPL Owned		5.0	4.9	4.9	4.9	28.0	27.9	27.9	27.9	90	
7	Privately Owned		1.2	1.2	1.2	1.2	24.2	24.2	24.2	24.2	90	
8	Privately Owned		1.2	1.2	1.2	1.2	24.2	24.2	24.2	24.2	90	
67	Privately Owned		1.6	1.4	1.4	1.4	24.7	24.4	24.4	24.4	90	
2075	Privately Owned		1.3	1.2	1.2	1.1	24.3	24.1	24.1	24.1	90	
82	Privately Owned		1.3	1.1	1.1	1.1	24.3	24.1	24.1	24.1	90	
9	Privately Owned		2.0	1.9	1.9	1.9	25.0	24.9	24.9	24.9	90	
6	Privately Owned		1.9	1.9	1.9	1.9	25.0	24.9	24.9	24.9	90	
2117	Privately Owned		1.1	1.1	1.1	1.1	24.1	24.0	24.0	24.0	90	
2063	Privately Owned		1.3	1.1	1.1	1.1	24.3	24.1	24.1	24.1	90	
374	Privately Owned		1.1	0.9	0.9	0.9	24.1	23.9	23.9	23.9	90	
2064	Privately Owned		1.4	1.2	1.2	1.2	24.4	24.2	24.2	24.2	90	
2115	Privately Owned		1.2	1.1	1.1	1.1	24.2	24.1	24.1	24.1	90	
4	Privately Owned		1.5	1.4	1.4	1.4	24.4	24.4	24.4	24.4	90	
1	Privately Owned		1.5	1.5	1.5	1.5	24.4	24.4	24.4	24.4	90	
373	Privately Owned		1.1	1.0	1.0	1.0	24.1	24.0	24.0	24.0	90	
2118	Privately Owned		1.2	1.1	1.1	1.1	24.3	24.1	24.1	24.1	90	
2	Privately Owned		1.4	1.4	1.4	1.4	24.4	24.4	24.4	24.4	90	
2118	Privately Owned		1.2	1.1	1.1	1.1	24.2	24.1	24.1	24.1	90	
2010	Privately Owned		1.2	1.1	1.1	1.1	24.2	24.1	24.1	24.1	90	
2101	Privately Owned		1.3	1.3	1.3	1.3	24.3	24.3	24.3	24.3	90	
2019	Privately Owned		0.9	0.8	0.8	0.8	23.9	23.8	23.8	23.8	90	
59	Privately Owned		1.0	0.8	0.8	0.8	24.0	23.8	23.8	23.8	90	
2032	Privately Owned		0.8	0.7	0.7	0.7	23.8	23.7	23.7	23.7	90	
280	Privately Owned		1.2	1.1	1.1	1.1	24.2	24.1	24.1	24.1	90	
358	Privately Owned		0.8	0.7	0.7	0.7	23.7	23.6	23.6	23.6	90	
2100	Privately Owned		1.1	1.0	1.0	1.0	24.1	24.0	24.0	24.0	90	
2024	Privately Owned		1.2	1.2	1.2	1.2	24.2	24.1	24.1	24.1	90	
2160	Privately Owned		3.7	2.9	2.9	2.9	26.7	26.0	26.0	26.0	90	
104	CHPL Owned		7.3	5.3	5.2	5.1	30.3	28.3	28.2	28.1	90	
178	Privately Owned		3.6	2.9	2.9	2.9	26.6	25.9	25.9	25.9	90	
2130	Privately Owned		1.1	1.1	1.1	1.1	24.1	24.1	24.1	24.1	90	

Modelled annual average deposited dust (g/m<sup>2</sup>/month)

Receptor	Description	Measured (2022-23)	Modelled due to CVO				Modelled due to CVO and background levels				Criteria
			with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	
-	TEOM1 (Bundarra)		0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
-	TEOM2 (Flyers Creek Weir)		1.0	0.8	0.8	0.8	2.6	2.4	2.4	2.4	4
-	TEOM3 (Triangle Flat)		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
-	TEOM4 (Meribah)		0.6	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
-	BAM1 (Bundarra)		0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
-	BAM2 (Woodville)		1.9	1.4	1.4	1.4	3.5	3.0	3.0	3.0	4
-	BAM3 (Triangle Flat)		0.5	0.4	0.4	0.3	2.1	2.0	2.0	1.9	4
-	BAM4 (Meribah)		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
-	HVAS1 (Bundarra)		0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
-	HVAS2 (Flyers Creek Weir)		1.0	0.8	0.8	0.8	2.6	2.4	2.4	2.4	4
-	HVAS3 (Triangle Flat)		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
-	HVAS4 (Meribah)		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
-	DG9A (DG9A)	3.8	0.8	0.8	0.8	0.8	2.4	2.4	2.4	2.4	4
-	DG5A (DG5A)	1.6	0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
-	DG15A (DG15A)	1.2	0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
-	DG17 (DG17)	0.7	0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
-	DG12A (DG12A)	1.5	1.0	0.8	0.8	0.8	2.6	2.4	2.4	2.4	4
-	DG18 (DG18)	1.8	3.6	2.7	2.5	2.5	5.2	4.3	4.1	4.1	4
-	DG19 (DG19)	1.2	0.9	0.6	0.6	0.6	2.5	2.2	2.2	2.2	4
-	DG29A (DG29A)	1.1	0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
65	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
205	Crown Land		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2058	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2156	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
62	Privately Owned		0.3	0.3	0.2	0.2	1.9	1.9	1.8	1.8	4
57	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
60	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2142	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
2136	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2141	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
2041	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
2135	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
54	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
54	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
150	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
150	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
150	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2125	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
104	CHPL Owned		0.8	0.5	0.5	0.5	2.4	2.1	2.1	2.1	4
125	CHPL Owned		0.8	0.5	0.5	0.5	2.4	2.1	2.1	2.1	4
1	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2124	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2132	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
104	CHPL Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
2132	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
104	Mine Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
137	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
104	CHPL Owned		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
104	CHPL Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
104	CHPL Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
147	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
104	CHPL Owned		0.5	0.4	0.4	0.4	2.1	2.1	2.0	2.0	4
2126	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2155	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
104	CHPL Owned		1.9	1.4	1.4	1.4	3.5	3.0	3.0	3.0	4
2072	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2148	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2072	Privately Owned		0.4	0.4	0.3	0.3	2.0	2.0	1.9	1.9	4
2149	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2131	Privately Owned		0.1	0.2	0.2	0.2	1.7	1.8	1.8	1.8	4
2150	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2152	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
104	CHPL Owned		2.7	2.3	2.4	2.3	4.3	3.9	4.0	3.9	4
2147	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2123	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
135	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
210	CHPL Owned		1.1	0.9	0.8	0.8	2.7	2.5	2.4	2.4	4
44	Privately Owned		0.5	0.4	0.4	0.3	2.1	2.0	2.0	1.9	4
138	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
199	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
199	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
199	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
40	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2128	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
38	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
133	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
208	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
2121	Privately Owned		1.2	0.9	0.9	0.9	2.8	2.5	2.5	2.5	4
2127	Privately Owned		0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
125	CHPL Owned		0.6	0.6	0.6	0.6	2.2	2.2	2.2	2.2	4
423	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
190	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
190	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
405	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2162	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
198	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
198	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2163	Privately Owned		0.8	0.7	0.7	0.6	2.4	2.3	2.3	2.2	4
380	Privately Owned		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
197	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
193	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
196	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
104	CHPL Owned		0.7	0.9	0.9	0.9	2.3	2.5	2.5	2.5	4
195	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
2040	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
207	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
417	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2039	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
207	Privately Owned		0.3	0.3	0.3	0.2	1.9	1.9	1.9	1.8	4
190	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
34	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
34	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
416	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
161	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2014	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
204	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
424	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
206	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
203	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
182	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
202	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2014	Privately Owned		1.0	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
125	CHPL Owned		1.0	0.8	0.8	0.8	2.6	2.4	2.4	2.4	4
118	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
30	Privately Owned		0.9	0.7	0.7	0.7	2.5	2.3	2.3	2.3	4
117	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4

Modelled annual average deposited dust (g/m2/month)

Receptor	Description	Measured (2022-23)	with MOD 15	Modelled due to CVO			Modelled due to CVO and background levels				Criteria
				with MOD 16-1	with MOD 16-2	with MOD 16-3	with MOD 15	with MOD 16-1	with MOD 16-2	with MOD 16-3	
286	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
32	Privately Owned		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
160	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
173	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
403	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
285	Privately Owned		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
2014	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
185	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
400	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
31	Privately Owned		0.8	0.6	0.6	0.6	2.4	2.2	2.2	2.2	4
156	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
125	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
104	CHPL Owned		2.0	1.5	1.5	1.5	3.6	3.1	3.1	3.1	4
125	CHPL Owned		1.3	1.0	1.0	1.0	2.9	2.6	2.6	2.6	4
153	Privately Owned		0.9	0.7	0.7	0.7	2.5	2.3	2.3	2.2	4
23	Privately Owned		0.7	0.5	0.5	0.5	2.3	2.1	2.1	2.1	4
165	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2042	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
31	Privately Owned		0.7	0.6	0.6	0.6	2.3	2.2	2.2	2.2	4
166	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
116	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2024	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
104	CHPL Owned		2.0	1.5	1.5	1.5	3.6	3.1	3.1	3.1	4
125	CHPL Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
140	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
397	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
141	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
131	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
288	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
396	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
123	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
124	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
125	CHPL Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
125	CHPL Owned		0.7	0.6	0.6	0.6	2.3	2.2	2.2	2.2	4
123	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
28	Privately Owned		0.7	0.5	0.5	0.5	2.3	2.1	2.1	2.1	4
127	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
281	Privately Owned		0.7	0.5	0.5	0.5	2.3	2.1	2.1	2.1	4
2116	Privately Owned		0.7	0.6	0.6	0.6	2.3	2.2	2.2	2.2	4
108	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
108	Privately Owned		0.6	0.4	0.4	0.4	2.2	2.0	2.0	2.0	4
125	CHPL Owned		1.8	1.5	1.5	1.5	3.4	3.1	3.1	3.1	4
110	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
92	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
20	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
94	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
98	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2077	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2077	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2076	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
94	Privately Owned		0.6	0.5	0.5	0.5	2.2	2.1	2.1	2.1	4
2113	Privately Owned		0.8	0.7	0.7	0.7	2.4	2.3	2.3	2.3	4
97	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
105	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2036	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
105	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2036	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
94	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2112	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
13	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
91	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
93	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
90	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2002	State Forest		1.0	1.0	1.0	1.0	2.6	2.6	2.6	2.6	4
94	Privately Owned		0.5	0.4	0.4	0.4	2.1	2.0	2.0	2.0	4
2112	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
107	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
14	Privately Owned		0.7	0.6	0.6	0.6	2.3	2.2	2.2	2.2	4
84	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
104	CHPL Owned		0.8	0.8	0.8	0.8	2.4	2.4	2.4	2.4	4
107	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
2013	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
107	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
50	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
107	Privately Owned		0.1	0.1	0.1	0.1	1.7	1.7	1.7	1.7	4
2035	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
15	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
76	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2034	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
72	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2028	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
104	CHPL Owned		0.5	0.5	0.5	0.5	2.1	2.1	2.1	2.1	4
104	CHPL Owned		1.3	1.2	1.2	1.2	2.9	2.8	2.8	2.8	4
7	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
8	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
67	Privately Owned		0.4	0.3	0.3	0.3	2.0	1.9	1.9	1.9	4
2075	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
82	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
9	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
6	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
2117	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2063	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
374	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2064	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2115	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
4	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
1	Privately Owned		0.4	0.4	0.4	0.4	2.0	2.0	2.0	2.0	4
373	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2118	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2118	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2010	Privately Owned		0.3	0.2	0.2	0.2	1.9	1.8	1.8	1.8	4
2101	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2019	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
59	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
2032	Privately Owned		0.2	0.2	0.2	0.2	1.8	1.8	1.8	1.8	4
280	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
358	Privately Owned		0.2	0.1	0.1	0.1	1.8	1.7	1.7	1.7	4
2100	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2024	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4
2160	Privately Owned		0.8	0.7	0.7	0.7	2.4	2.3	2.3	2.3	4
104	CHPL Owned		1.3	0.9	0.8	0.8	2.9	2.5	2.4	2.4	4
178	Privately Owned		0.9	0.7	0.7	0.7	2.5	2.3	2.3	2.3	4
2130	Privately Owned		0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	4