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Mount Pleasant Operation

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## Appendix B

Air Quality Impact Assessment





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AIR SCIENCES

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# MOUNT PLEASANT OPERATION MODIFICATION 8 AIR QUALITY IMPACT ASSESSMENT

MACH Energy Australia Pty Ltd

4 December 2025

Job Number 23071614A

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# Mount Pleasant Operation Modification 8

## Air Quality Impact Assessment

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## TABLE OF CONTENTS

|       |                                                                                          |    |
|-------|------------------------------------------------------------------------------------------|----|
| 1     | INTRODUCTION.....                                                                        | 1  |
| 2     | LOCAL SETTING.....                                                                       | 2  |
| 3     | AIR QUALITY ASSESSMENT CRITERIA .....                                                    | 5  |
| 3.1   | Development Consent limits .....                                                         | 5  |
| 3.2   | Environment Protection Licence conditions.....                                           | 5  |
| 3.3   | NSW Environment Protection Authority impact assessment criteria .....                    | 7  |
| 3.4   | NSW Voluntary Land Acquisition and Mitigation Policy .....                               | 8  |
| 4     | EXISTING ENVIRONMENT.....                                                                | 9  |
| 4.1   | Local climate .....                                                                      | 9  |
| 4.2   | Local meteorological conditions.....                                                     | 10 |
| 4.3   | Local air quality monitoring .....                                                       | 12 |
| 4.3.1 | PM <sub>10</sub> and TSP monitoring.....                                                 | 12 |
| 4.3.2 | PM <sub>2.5</sub> monitoring.....                                                        | 18 |
| 4.3.3 | Dust deposition monitoring .....                                                         | 19 |
| 4.4   | Review of air quality related complaints.....                                            | 21 |
| 5     | DISPERSION MODELLING APPROACH .....                                                      | 22 |
| 5.1   | Meteorological modelling .....                                                           | 22 |
| 5.2   | Meteorological modelling evaluation.....                                                 | 23 |
| 5.3   | Dispersion modelling .....                                                               | 26 |
| 5.4   | Modelling scenarios.....                                                                 | 26 |
| 5.4.1 | Emission estimation .....                                                                | 29 |
| 5.4.2 | Ancillary construction activity .....                                                    | 31 |
| 5.4.3 | Haul road silt sensitivity analysis .....                                                | 32 |
| 5.4.4 | Emissions from other mining operations .....                                             | 33 |
| 5.5   | Dust mitigation and management.....                                                      | 34 |
| 5.6   | Accounting for background dust levels.....                                               | 35 |
| 6     | DISPERSION MODELLING RESULTS.....                                                        | 38 |
| 6.1   | Summary of modelling results.....                                                        | 38 |
| 6.1.1 | Cumulative annual average impacts .....                                                  | 38 |
| 6.1.2 | Other assessed receptors .....                                                           | 39 |
| 6.2   | Assessment of 24-hour average PM <sub>2.5</sub> and PM <sub>10</sub> concentrations..... | 39 |
| 6.2.1 | Impacts without implementation of predictive/ reactive measures.....                     | 41 |
| 6.2.2 | Impacts with adoption of predictive/ reactive measures.....                              | 41 |
| 6.3   | Dust impacts on more than 25 per cent of privately-owned land .....                      | 44 |
| 6.4   | Sensitivity analysis .....                                                               | 45 |
| 7     | SUMMARY AND CONCLUSIONS .....                                                            | 47 |
| 8     | REFERENCES .....                                                                         | 49 |



## **LIST OF APPENDICES**

Appendix A – Receiver Locations

Appendix B – Selection of Modelling Year

Appendix C – Emission Calculation

Appendix D – Modelling Predictions

Appendix E – Isopleth Diagrams

Appendix F – Further Detail Regarding 24-hour PM<sub>2.5</sub> Analysis

Appendix G – Further Detail Regarding 24-hour PM<sub>10</sub> Analysis

## LIST OF TABLES

|                                                                                                                                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 3-1: Summary of applicable air quality criteria .....                                                                                                                         | 5  |
| Table 3-2: NSW EPA air quality impact assessment criteria .....                                                                                                                     | 7  |
| Table 3-3: Particulate matter mitigation criteria .....                                                                                                                             | 8  |
| Table 3-4: Particulate matter acquisition criteria .....                                                                                                                            | 8  |
| Table 4-1: Monthly climate statistics summary – Scone Airport AWS .....                                                                                                             | 9  |
| Table 4-2: Summary of ambient PM <sub>10</sub> levels from UHAQMN (µg/m <sup>3</sup> ) .....                                                                                        | 13 |
| Table 4-3: Summary of annual average PM <sub>10</sub> levels from surrounding mining operations (µg/m <sup>3</sup> ) .....                                                          | 17 |
| Table 4-4: Summary of annual average TSP levels from surrounding mining operations (µg/m <sup>3</sup> ) .....                                                                       | 17 |
| Table 4-5: Summary of ambient PM <sub>2.5</sub> levels from UHAQMN Muswellbrook (µg/m <sup>3</sup> ) .....                                                                          | 18 |
| Table 4-6: Summary of ambient PM <sub>2.5</sub> levels from Mount Pleasant Operation monitoring (µg/m <sup>3</sup> ) .....                                                          | 19 |
| Table 4-7: Summary of dust deposition levels (g/m <sup>2</sup> /month) .....                                                                                                        | 20 |
| Table 5-1: Surface observation stations .....                                                                                                                                       | 22 |
| Table 5-2: Seven critical parameters used in CALMET .....                                                                                                                           | 22 |
| Table 5-3: Estimated emission for the Modification (kg of TSP) .....                                                                                                                | 30 |
| Table 5-4: Estimated emissions for the ancillary construction activities (kg of TSP) .....                                                                                          | 32 |
| Table 5-5: Comparison of estimated TSP emissions for the Modification applying different haul road silt content .....                                                               | 33 |
| Table 5-6: Estimated emissions from nearby mining operations (kg of TSP) .....                                                                                                      | 33 |
| Table 5-7: Extent of approved/ proposed mining period for nearby mining operations .....                                                                                            | 33 |
| Table 5-8: Dust mitigation measures applied at the Mount Pleasant Operation .....                                                                                                   | 35 |
| Table 5-9: Estimated contribution from other non-modelled dust sources .....                                                                                                        | 37 |
| Table 6-1: Summary of modelling results where residential receptors are predicted to exceed criteria (µg/m <sup>3</sup> ) .....                                                     | 39 |
| Table 6-2: NSW EPA contemporaneous assessment - maximum number of additional days in a year above 24-hour average criterion depending on background level at monitoring sites ..... | 41 |
| Table 6-3: Number of additional days in a year above 24-hour average criterion on background level at monitoring sites with implementation of reactive measures .....               | 42 |
| Table 6-4: Summary of predicted annual average PM <sub>2.5</sub> and PM <sub>10</sub> impacts with haul road silt content of 3% for Scenario 1 .....                                | 46 |

## LIST OF FIGURES

|                                                                                                                                                                                         |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 2-1: Local setting for the Mount Pleasant Operation and assessed receiver locations .....                                                                                        | 3  |
| Figure 2-2: Topography surrounding the Mount Pleasant Operation .....                                                                                                                   | 4  |
| Figure 4-1: Monthly climate statistics summary – Scone Airport AWS.....                                                                                                                 | 10 |
| Figure 4-2: Annual windroses for 2015.....                                                                                                                                              | 11 |
| Figure 4-3: Ambient PM <sub>10</sub> and TSP monitoring locations .....                                                                                                                 | 12 |
| Figure 4-4: 24-hour average PM <sub>10</sub> concentrations at UHAQMN monitoring stations .....                                                                                         | 14 |
| Figure 4-5: Annual average PM <sub>10</sub> concentrations at UHAQMN monitoring stations .....                                                                                          | 15 |
| Figure 4-6: Diurnal levels at Muswellbrook monitor (2015).....                                                                                                                          | 16 |
| Figure 4-7: 24-hour average PM <sub>2.5</sub> concentrations from UHAQMN Muswellbrook monitoring station.....                                                                           | 18 |
| Figure 4-8: 24-hour average PM <sub>2.5</sub> concentrations from Mount Pleasant Operation monitoring stations .....                                                                    | 19 |
| Figure 4-9: Dust deposition monitoring locations .....                                                                                                                                  | 20 |
| Figure 4-10: Summary of air quality related complaints .....                                                                                                                            | 21 |
| Figure 5-1: Example of the wind field for one of the 8,760 hours of the year that are modelled .....                                                                                    | 23 |
| Figure 5-2: Windroses from CALMET extract Cell ref 6463 (2015) .....                                                                                                                    | 24 |
| Figure 5-3: Meteorological analysis of CALMET extract Cell ref 6463 (2015).....                                                                                                         | 25 |
| Figure 5-4: Indicative mine plan for Scenario 1.....                                                                                                                                    | 27 |
| Figure 5-5: Indicative mine plan for Scenario 2.....                                                                                                                                    | 28 |
| Figure 5-6: Indicative mine plan for Scenario 3.....                                                                                                                                    | 29 |
| Figure 5-7: Spatially varying background level (due to non-modelled sources) for PM <sub>10</sub> .....                                                                                 | 36 |
| Figure 6-1: Locations available for contemporaneous cumulative impact assessment .....                                                                                                  | 40 |
| Figure 6-2: Predicted 24-hour average PM <sub>10</sub> and PM <sub>2.5</sub> concentrations for receptor location 153a during Scenario 3 (without predictive/ reactive mitigation)..... | 43 |
| Figure 6-3: Predicted 24-hour average PM <sub>10</sub> and PM <sub>2.5</sub> concentrations for receptor location 153a during Scenario 3 (with predictive/ reactive mitigation) .....   | 44 |
| Figure 6-4: Predicted 6 <sup>th</sup> highest 24-hour average PM <sub>10</sub> level for all scenarios.....                                                                             | 45 |



## 1 INTRODUCTION

Todoroski Air Sciences has prepared this report for MACH Energy Australia Pty Ltd (MACH Energy). It provides an assessment of the potential air quality impacts associated with the proposed Mount Pleasant Modification 8 (the Modification).

The approved Mount Pleasant Operation is an open cut coal mine and associated infrastructure located approximately 3 kilometres (km) north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Mount Pleasant Operation Pty Ltd is the manager of the Mount Pleasant Operation as agent for and on behalf of the unincorporated Mount Pleasant Joint Venture between MACH Energy Australia Pty Ltd (MACH Energy) (95 percent [%] owner) and J.C.D. Australia Pty Ltd (5% owner)<sup>[1]</sup>.

Under Development Consent 92/97, the Mount Pleasant Operation is approved to produce up to 10.5 million tonnes per annum (Mtpa) of run-of-mine (ROM) coal. Thermal coal products from the Mount Pleasant Operation are transported by rail to the Port of Newcastle for export, or to domestic customers for use in electricity generation.

This Air Quality Impact Assessment (AQIA) has been prepared to assess a proposed modification to the Mount Pleasant Operation Development Consent DA 92/97.

The Modification would include the following key changes to the approved Mount Pleasant Operation under Development Consent DA 92/97:

- ✦ a six year extension of permitted (ROM coal) mining operations to 31 December 2032; and,
- ✦ an increase in the approved ROM coal extraction rate from 10.5 Mtpa to 12.5 Mtpa.

The Modification would involve no material changes to existing:

- ✦ mining tenements;
- ✦ mining methods;
- ✦ primary site access;
- ✦ electricity supply and distribution;
- ✦ mine infrastructure area;
- ✦ Coal Handling and Processing Plant (CHPP), coal stockpile and rail loading facilities;
- ✦ rehabilitation objectives and methods; and,
- ✦ hours of operation and key on-site activities.

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<sup>[1]</sup> MACH Mount Pleasant Operation Pty Ltd and the unincorporated Mount Pleasant Joint Venture are herein referred to as MACH.



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## 2 LOCAL SETTING

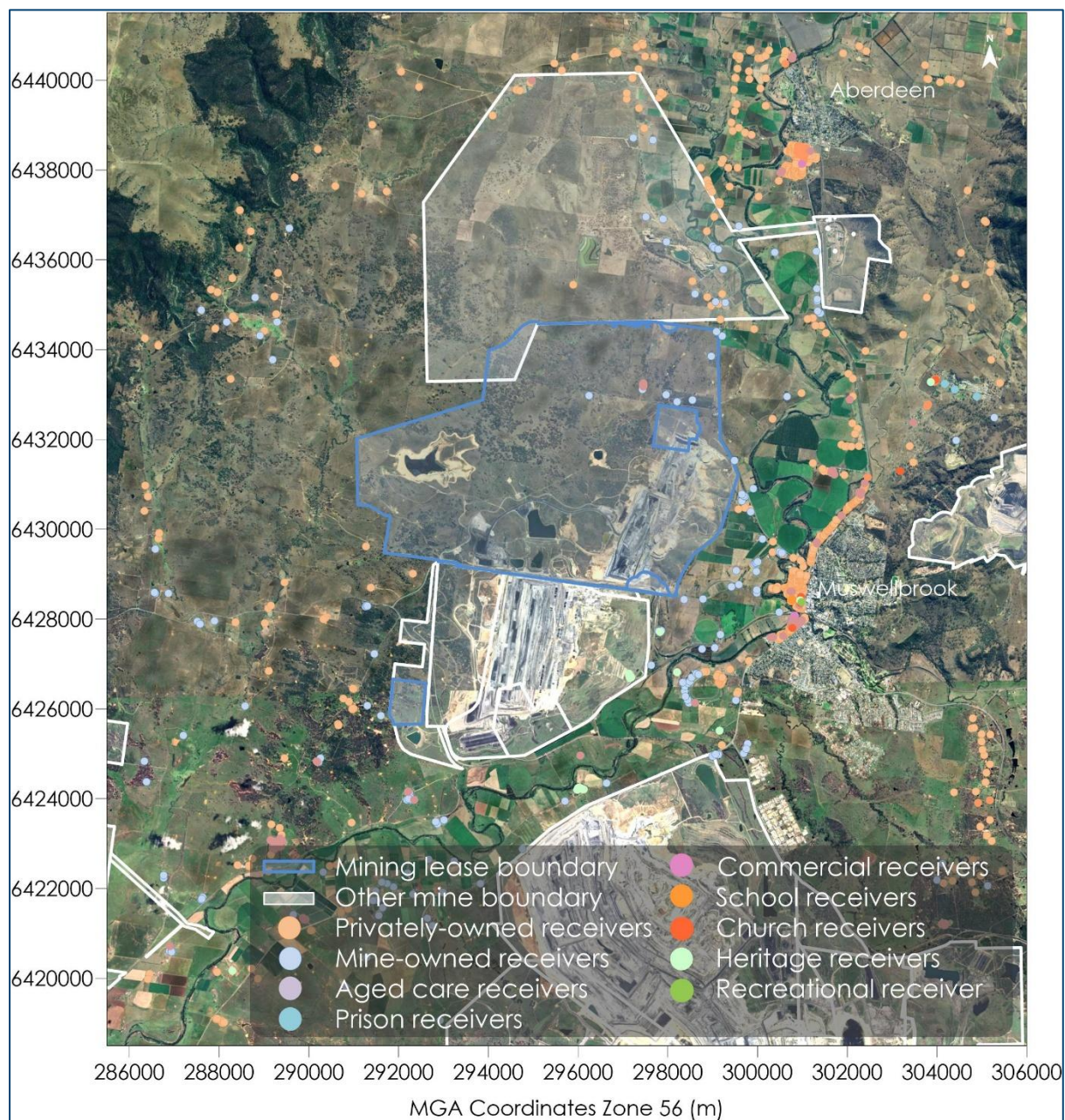
The general area surrounding the Mount Pleasant Operation is comprised of various open cut coal mining operations, agricultural land, rural residential areas and the township of Muswellbrook to the south-east and the village of Aberdeen to the north-east.

**Figure 2-1** presents the location of the Mount Pleasant Operation in relation to the neighbouring coal mining operations and the identified receivers of relevance to this study.

To determine the receivers of relevance to the study, a comprehensive receiver identification and verification study was completed in early 2020 by a Muswellbrook-based surveying company. In 2024, this comprehensive study was supplemented with a review of current land ownership within 3 km of the site.

**Appendix A** provides a detailed list of all the receivers considered in this assessment and figures showing the locations and identification numbers of key receivers (privately-owned and mine-owned dwellings).

**Figure 2-2** presents a three-dimensional visualisation of the topography in the vicinity of the Mount Pleasant Operation. The surrounding topography is characterised by the mountainous region of the Barrington Tops to the east and the open Hunter Valley region to the south-east. To the east, the Hunter River and associated floodplain separates the Mount Pleasant Operation from Muswellbrook. Steep escarpments and defined valleys are characteristic features of the topography to the west and south. The terrain features of the surrounding area have a significant effect on the local wind distribution patterns and flows, as discussed further in **Section 5**.



Note: m = metres

**Figure 2-1: Local setting for the Mount Pleasant Operation and assessed receiver locations**



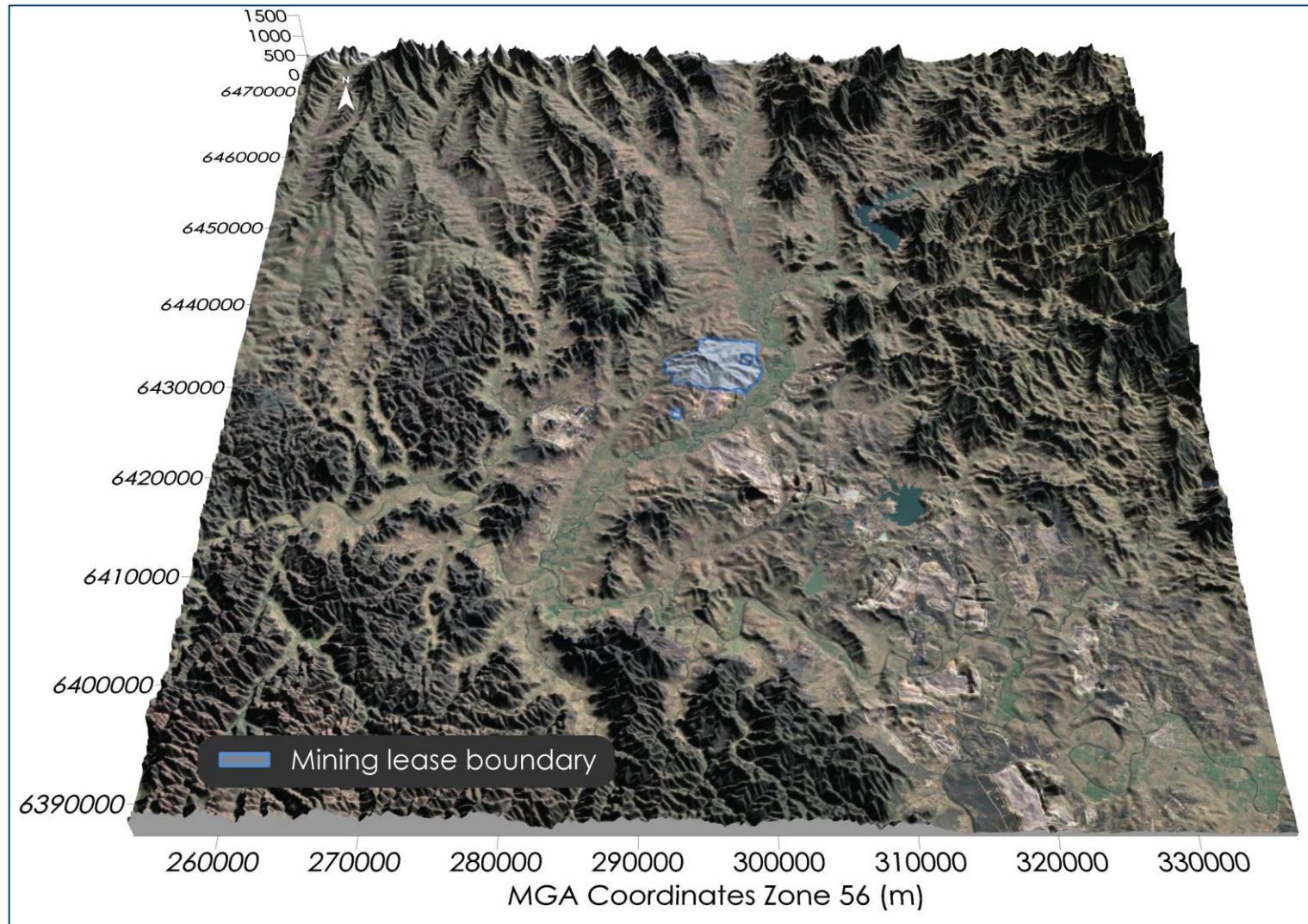


Figure 2-2: Topography surrounding the Mount Pleasant Operation



### 3 AIR QUALITY ASSESSMENT CRITERIA

Air quality criteria are benchmarks set to protect the general health and amenity of the community in relation to air quality. The sections below identify the applicable air quality criteria for the Mount Pleasant Operation and the Modification.

#### 3.1 Development Consent limits

A summary of the applicable air quality criteria for the Mount Pleasant Operation as outlined in Development Consent DA 92/97 is presented in **Table 3-1**.

The Mount Pleasant Operation must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not exceed the criteria in **Table 3-1** at any residence on privately-owned land (except for those residences with rights to acquisition upon request).

**Table 3-1: Summary of applicable air quality criteria**

| Pollutant                                      | Averaging period | <sup>d</sup> Criterion                |
|------------------------------------------------|------------------|---------------------------------------|
| Total suspended particulates (TSP)             | Annual           | <sup>a</sup> 90µg/m <sup>3</sup>      |
| Particulate matter ≤10µm (PM <sub>10</sub> )   | Annual           | <sup>a</sup> 25µg/m <sup>3</sup>      |
|                                                | 24-hour          | <sup>b</sup> 50µg/m <sup>3</sup>      |
| Particulate matter ≤2.5µm (PM <sub>2.5</sub> ) | Annual           | <sup>a</sup> 8µg/m <sup>3</sup>       |
|                                                | 24-hour          | <sup>b</sup> 25µg/m <sup>3</sup>      |
| <sup>c</sup> Deposited dust                    | Annual           | <sup>b</sup> 2g/m <sup>2</sup> /month |
|                                                |                  | <sup>a</sup> 4g/m <sup>2</sup> /month |

Notes:

- Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources);
- Incremental impact (i.e. incremental increase in concentrations due to the development on its own);
- 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; and
- Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

µg/m<sup>3</sup> = micrograms per cubic metre, µm = micrometres and g/m<sup>2</sup>/month = grams per square metre per month.

#### 3.2 Environment Protection Licence conditions

Air quality criteria and other air quality related conditions stipulated in Environment Protection Licence (EPL) 20850 for the Mount Pleasant Operation are generally consistent with those prescribed in Development Consent DA 92/97, apart from Conditions O3.4 to O3.9, which state:

##### **O3 Dust**

**O3.4** The licensee must cease all dust generating activities during adverse conditions being the occurrence of both:

- the adverse wind conditions set out in Condition O3.5 (b) and
- the adverse PM<sub>10</sub> concentrations set out in Condition O3.5(c).

**O3.5** For the purpose of Condition O3.4 the following definitions apply.

- 'dust generating activities' means all drilling activities, blasting, earthworks, construction activities, all hauling activities on unsealed haul roads, all overburden and coal extraction operations including loading and dumping activities and grader, loader, dozer and dragline operations.

- (b) 'adverse wind conditions' means the 1-hour average wind direction between 250 degrees and 340 degrees (inclusive) measured at the Muswellbrook NW Upper Hunter Air Quality Monitoring Network monitor. Australian Standard AS3580.14-2014 is to be used to calculate the 1 hour average wind direction.
- (c) 'adverse PM<sub>10</sub> concentrations' means a rolling 24-hour average PM<sub>10</sub> concentration of equal to or greater than 44 micrograms per cubic metre measured at the Muswellbrook NW Upper Hunter Air Quality Monitoring Network monitoring station.
- (d) Operation of watercarts is permitted at all times.
- (e) Activities within the Coal Handling and Preparation Plant and Materials Handling Area, including run-of-mine (ROM) coal, product coal handling (including dozer/loader operations) and train loading operations as identified in blue on plan titled 'MACH Energy Materials Handling Area Dust Exclusion Zone General Arrangement Mount Pleasant Coal Drawing 90500-51-1-SV-Material Handling Area Update-r1' (EPA ref DOC23/37979-1) are not included as dust generating activities provided all automated dust suppression spray systems at the ROM hopper, conveyor transfer points and product stockpiles are in use, at least one water cart is in use on the ROM stockpile and an adjustable hood is lowered onto rail wagons loadings.
- (f) Exploration drilling operations using 'wet drilling methods' (as per definition in EPA ref DOC24/944673) are not included as a dust generating activity as defined in Condition O3.5(a).
- O3.6 Shutdown of dust generating activities required by Condition O3.4 must be completed within 1 hour of receiving data that triggers action required by Condition O3.5(a).
- O3.7 The licensee may resume dust generating activities at the premises when:
- (a) adverse wind conditions as defined in Condition O3.5(b); or
- (b) adverse PM<sub>10</sub> concentrations as defined in Condition O3.5(c)
- are not measured for a minimum time period of 1 hour from the time that cessation of dust generation activities is completed.
- O3.8 At any time when there is no access to the meteorological data or PM<sub>10</sub> data from the Muswellbrook NW Upper Hunter Air Quality Monitoring Network monitoring station, definitions of 'adverse wind conditions' and 'adverse PM<sub>10</sub> concentrations' in condition O3.5 are replaced with:
- 'adverse wind conditions' means a 1-hour average wind direction between 245 and 345 degrees (inclusive) measured at EPA Monitoring Point 11, identified in condition P1.3.
  - 'adverse PM<sub>10</sub> concentrations' means a rolling 24-hour average PM<sub>10</sub> concentration of equal to or greater than 44 micrograms per cubic metre measured at the EPA Monitoring Point 1, identified in condition P1.3.
- Note: If at any time, there is no access to the Muswellbrook NW Upper Hunter Air Quality Monitoring Network monitoring station and to either 1-hour average wind direction data from monitoring point 11 or PM<sub>10</sub> data from monitoring point 1 the licensee must cease dust generating activities at the premises.
- O3.9 For the purpose of condition O3.5 (e), dust suppression systems must be operated in a manner to ensure that there is no visible dust emissions emitted from the premises.

### 3.3 NSW Environment Protection Authority impact assessment criteria

The NSW Environment Protection Authority (NSW EPA) document *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (NSW EPA, 2022) includes criteria for a range of pollutants that may be emitted from a development or facility.

The key emissions generated by mining operations are particulate matter/ dust. While the combustion of fuels in mining equipment releases other combustion products such as carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>), the emissions are typically of such a low magnitude, and spread over such a large spatial extent, that the ground-level concentrations are very low.

The *Mount Pleasant Operation Mine Optimisation Modification Air Quality and Greenhouse Gas Assessment* (Todoroski Air Sciences, 2017) included a comprehensive assessment of the potential impacts of diesel emissions from the Mount Pleasant Operation. The analysis indicated that for all receivers assessed, the likelihood of exceedances of the relevant criteria for combustion products was very low. As such, assessment of diesel combustion is not considered warranted for the Modification for pollutants other than particulate matter.

Notwithstanding, nitrogen dioxide (NO<sub>2</sub>) may also be emitted from some blasts (i.e. blast fumes) under certain conditions. The *Mount Pleasant Operation Mine Optimisation Modification Air Quality and Greenhouse Gas Assessment* (Todoroski Air Sciences, 2017) included a qualitative assessment of potential blast impacts from the Mount Pleasant Operation which suggested that these can be managed via the Blast Management Plan (BMP) (MACH, 2020a). A more recent study (Todoroski Air Sciences, 2020) included a quantitative assessment of potential blast impacts from the Mount Pleasant Operation. It concluded that there is no significant potential for impacts during the middle of day but highlighted the need for careful consideration of meteorological conditions during afternoon periods. Effective management of potential blast impacts can be achieved through the implementation of a blast management plan and a suitable blast predictive/ real-time management system. Thus, an assessment of potential NO<sub>2</sub> associated with blast fumes is not considered warranted for the Modification, provided that a best-practice operational blast predictive/ real-time management system is used.

**Table 3-2** summarises the air quality goals that are relevant to this assessment as outlined in the NSW EPA document *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (NSW EPA, 2022).

The air quality goals for total impact relate to the total dust burden in the air and not just the incremental dust from the Modification. Consideration of background dust levels needs to be made when using these goals to assess potential total impacts.

**Table 3-2: NSW EPA air quality impact assessment criteria**

| Pollutant         | Averaging period | Impact      | Criterion                |
|-------------------|------------------|-------------|--------------------------|
| TSP               | Annual           | Total       | 90µg/m <sup>3</sup>      |
| PM <sub>10</sub>  | Annual           | Total       | 25µg/m <sup>3</sup>      |
|                   | 24 hour          | Total       | 50µg/m <sup>3</sup>      |
| PM <sub>2.5</sub> | Annual           | Total       | 8µg/m <sup>3</sup>       |
|                   | 24 hour          | Total       | 25µg/m <sup>3</sup>      |
| Deposited dust    | Annual           | Incremental | 2g/m <sup>2</sup> /month |
|                   |                  | Total       | 4g/m <sup>2</sup> /month |

Source: NSW EPA, 2022





### 3.4 NSW Voluntary Land Acquisition and Mitigation Policy

Part of the NSW Voluntary Land Acquisition and Mitigation Policy (VLAMP) dated September 2018 describes the NSW Government's policy for voluntary mitigation and land acquisition to address particulate matter impacts from state significant mining, petroleum and extractive industry developments.

Voluntary mitigation rights may apply per the VLAMP where, even with best practice management, the development contributes to exceedances of the criteria in **Table 3-3** at any residence on privately owned land or workplace on privately owned land.<sup>2</sup>

**Table 3-3: Particulate matter mitigation criteria**

| Pollutant         | Averaging period | Mitigation criterion       |                           | Impact type  |
|-------------------|------------------|----------------------------|---------------------------|--------------|
| PM <sub>2.5</sub> | Annual           | 8µg/m <sup>3</sup> *       |                           | Human health |
| PM <sub>2.5</sub> | 24 hour          | 25µg/m <sup>3</sup> **     |                           | Human health |
| PM <sub>10</sub>  | Annual           | 25µg/m <sup>3</sup> *      |                           | Human health |
| PM <sub>10</sub>  | 24 hour          | 50µg/m <sup>3</sup> **     |                           | Human health |
| TSP               | Annual           | 90µg/m <sup>3</sup> *      |                           | Amenity      |
| Deposited dust    | Annual           | 2g/m <sup>2</sup> /month** | 4g/m <sup>2</sup> /month* | Amenity      |

Source: NSW Government (2018)

\*Cumulative impact (i.e. increase in concentration 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 per the VLAMP where, even with best practice management, the development contributes to exceedances of the criteria in **Table 3-4** at any residence on privately owned land, workplace on privately owned land or on more than 25% of any privately owned land where there is an existing dwelling or where a dwelling could be built under existing planning controls (vacant land).

**Table 3-4: Particulate matter acquisition criteria**

| Pollutant         | Averaging period | Acquisition criterion      |                           | Impact type  |
|-------------------|------------------|----------------------------|---------------------------|--------------|
| PM <sub>2.5</sub> | Annual           | 8µg/m <sup>3</sup> *       |                           | Human health |
| PM <sub>2.5</sub> | 24 hour          | 25µg/m <sup>3</sup> **     |                           | Human health |
| PM <sub>10</sub>  | Annual           | 25µg/m <sup>3</sup> *      |                           | Human health |
| PM <sub>10</sub>  | 24-hour          | 50µg/m <sup>3</sup> **     |                           | Human health |
| TSP               | Annual           | 90µg/m <sup>3</sup> *      |                           | Amenity      |
| Deposited dust    | Annual           | 2g/m <sup>2</sup> /month** | 4g/m <sup>2</sup> /month* | Amenity      |

Source: NSW Government (2018)

\*Cumulative impact (i.e. increase in concentration 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 up to five allowable exceedances of the criteria over the life of the development.

<sup>[2]</sup> Where any exceedance would be unreasonably detrimental to workers' health or carrying out of the business at that workplace.

## 4 EXISTING ENVIRONMENT

This section provides a summary of the local climate and ambient air quality in the area surrounding the Mount Pleasant Operation.

### 4.1 Local climate

Long-term climatic data collected at the closest Bureau of Meteorology (BoM) weather station at Scone Airport Automatic Weather Station (AWS) (Station Number 061363) were analysed to characterise the local climate in the proximity of the Mount Pleasant Operation. The Scone Airport AWS is located approximately 25km north of the Mount Pleasant Operation.

**Table 4-1** and **Figure 4-1** show climatic parameters which have been collected from the Scone Airport AWS over a 14 to 34 year period. This data assists in characterising the local climatic conditions based on the long-term meteorological parameters.

The data indicate that January is the hottest month, with a mean maximum temperature of 31.8 degrees Celsius (°C) and July is the coldest month, with a mean minimum temperature of 3.4°C.

Rainfall peaks during the summer months and declines during winter. The data show November is the wettest month, with an average rainfall of 77.0 millimetres (mm) over 6.7 days and April is the driest month, with an average rainfall of 35.2mm over 4.2 days.

Relative humidity levels exhibit variability over the day and seasonal fluctuations. Mean 9am relative humidity levels range from 62% in October to 86% in June. Mean 3pm relative humidity levels vary from 41% in January to 58% in June.

Wind speeds during the warmer months have a greater spread between the 9am and 3pm conditions compared to the colder months. The mean 9am wind speeds range from 7.0 kilometres per hour (km/h) in May and July to 12.7km/h in October and November. The mean 3pm wind speeds vary from 16.0km/h in June to 20.6km/h in November.

**Table 4-1: Monthly climate statistics summary – Scone Airport AWS**

| Parameter               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Ann.  |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| <b>Temperature</b>      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Mean max. temp. (°C)    | 31.8 | 30.7 | 28.2 | 24.6 | 20.4 | 17.1 | 16.7 | 18.9 | 22.3 | 25.6 | 28.3 | 30.6 | 24.6  |
| Mean min. temp. (°C)    | 17.2 | 16.6 | 14.4 | 10.0 | 6.5  | 4.7  | 3.4  | 3.8  | 6.7  | 9.7  | 13.0 | 15.4 | 10.1  |
| <b>Rainfall</b>         |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Rainfall (mm)           | 62.3 | 58.7 | 65.4 | 35.2 | 37.9 | 44.6 | 40.5 | 38.9 | 36.3 | 51.0 | 77.0 | 73.9 | 620.7 |
| No. of rain days (≥1mm) | 6.2  | 5.8  | 6.7  | 4.2  | 4.5  | 5.9  | 5.1  | 4.4  | 4.9  | 5.7  | 6.7  | 6.7  | 66.8  |
| <b>9am conditions</b>   |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Mean temp. (°C)         | 22.3 | 21.3 | 19.0 | 17.0 | 13.0 | 10.0 | 9.4  | 11.3 | 15.3 | 18.3 | 19.7 | 21.6 | 16.5  |
| Mean R.H. (%)           | 70   | 77   | 82   | 77   | 81   | 86   | 83   | 73   | 66   | 62   | 66   | 67   | 74    |
| Mean W.S. (km/h)        | 11.3 | 10.0 | 8.9  | 8.2  | 7.0  | 7.5  | 7.0  | 9.9  | 11.4 | 12.7 | 12.7 | 11.9 | 9.9   |
| <b>3pm conditions</b>   |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Mean temp. (°C)         | 29.9 | 28.9 | 26.7 | 23.4 | 19.4 | 16.1 | 15.6 | 17.7 | 20.8 | 23.6 | 26.0 | 28.4 | 23.0  |
| Mean R.H. (%)           | 41   | 47   | 47   | 49   | 51   | 58   | 55   | 47   | 44   | 42   | 43   | 42   | 47    |
| Mean W.S. (km/h)        | 19.2 | 18.7 | 18.6 | 18.0 | 16.1 | 16.0 | 16.5 | 18.7 | 18.9 | 19.1 | 20.6 | 20.0 | 18.4  |

Source: **BoM, 2025**



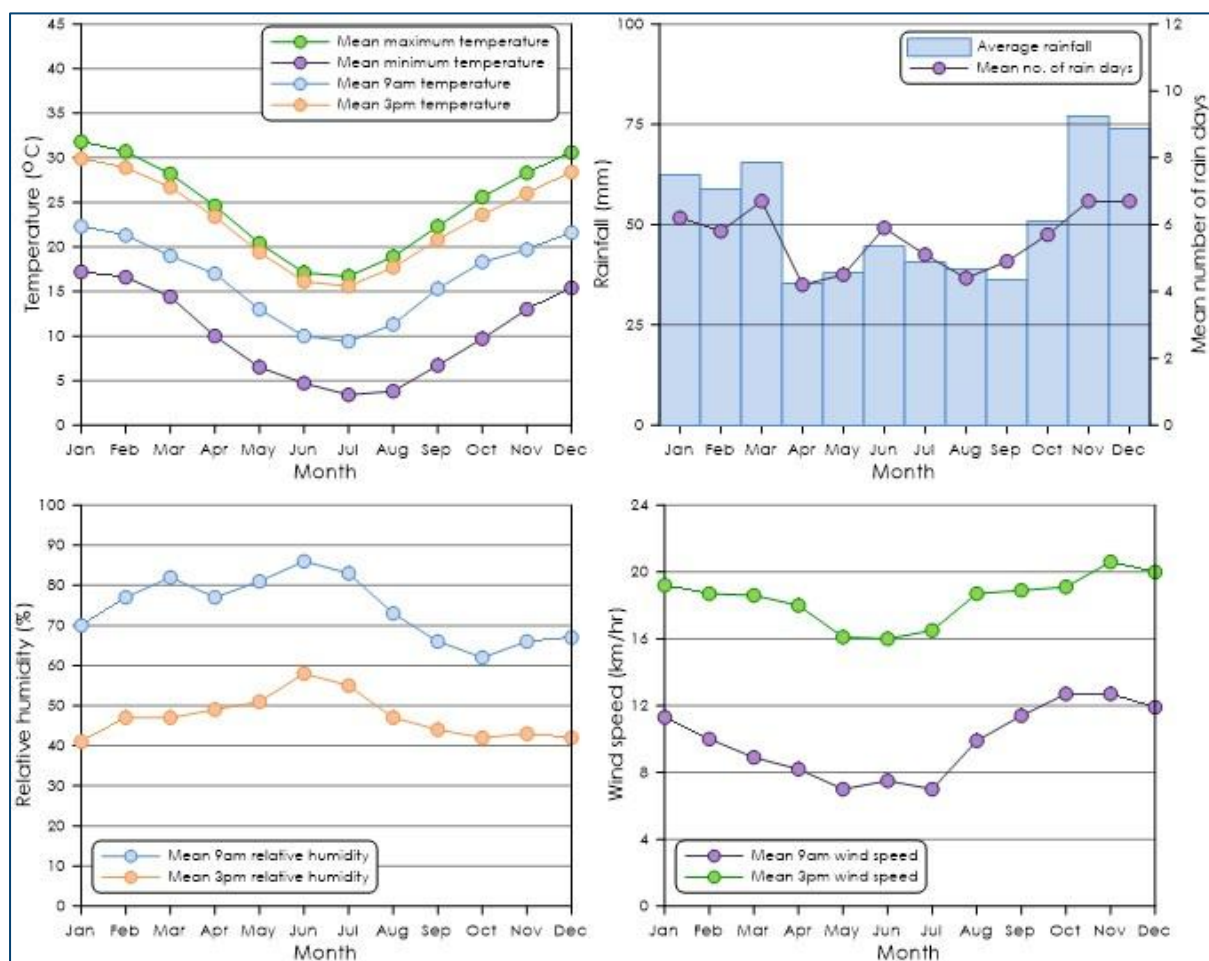


Figure 4-1: Monthly climate statistics summary – Scone Airport AWS

## 4.2 Local meteorological conditions

Three weather stations are in close proximity to the Mount Pleasant Operation and the data recorded at these stations have been reviewed. The locations of these weather stations are shown in **Figure 4-2**, which presents the locations of these stations overlaid with the annual windroses from the available data during 2015.

The 2015 calendar year has been selected as the meteorological year for the dispersion modelling based on analysis of 12 contiguous years of data (2013 – 2024) against the long-term meteorological data trends and other factors discussed in detail in **Appendix B**.

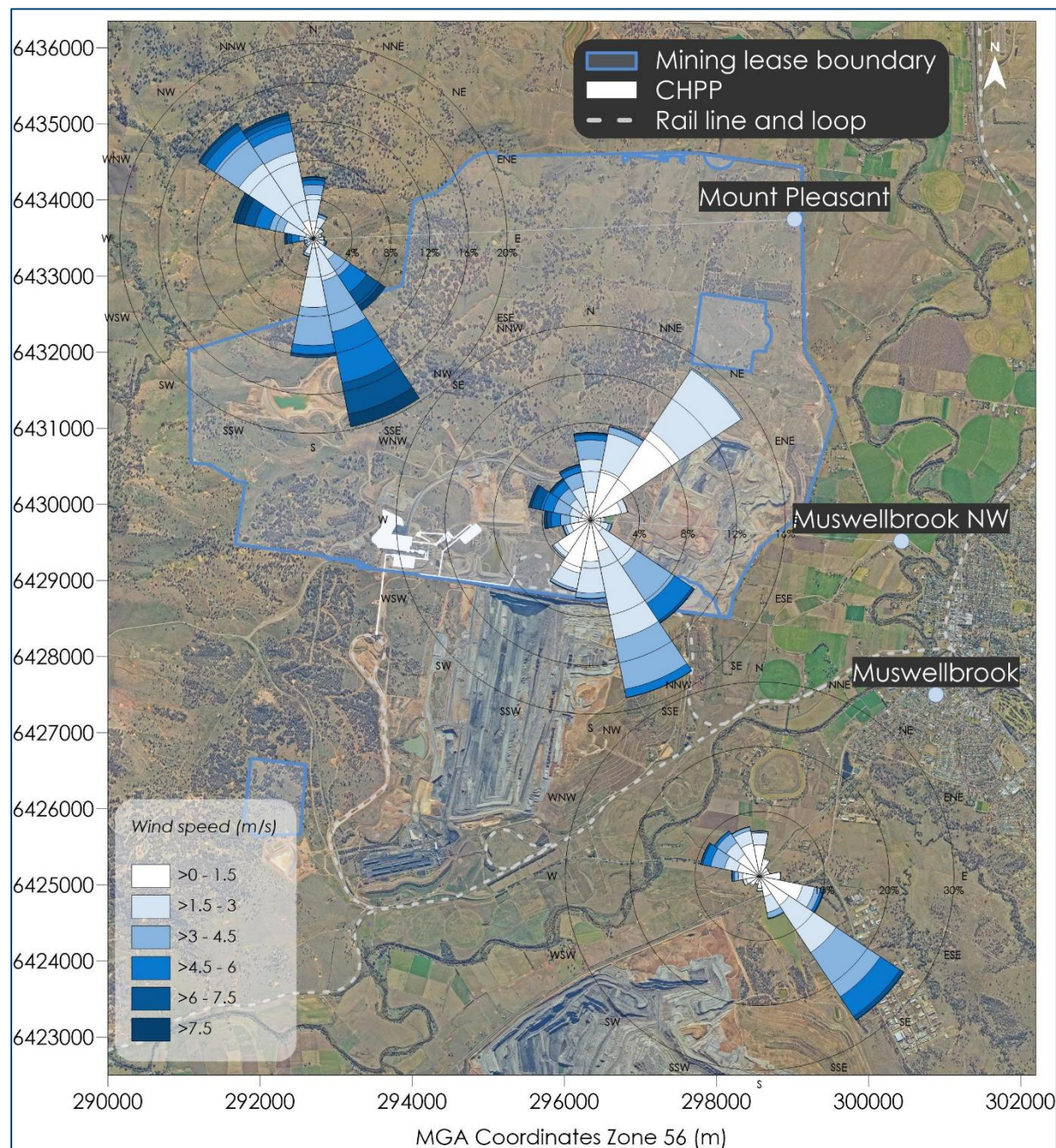
It can be seen that the annual windroses for each station show similar inter-annual patterns in each year, and indicate the expected variability in the measured meteorological data due to the location of the weather station in the surrounding terrain.

For the Mount Pleasant Operation weather station, on an annual basis, winds typically flow along a north-northwest/ north-west to a south-southeast axis, with very few winds arising from the north-east and south-west quadrants.



At the Muswellbrook NW weather station, winds are more varied and wind speeds are relatively lower in comparison to the Mount Pleasant Operation weather station. Winds from the south-southeast and north-east dominate the distribution. Winds from the north-east are identified as drainage flows along the Hunter River floodplain.

The Muswellbrook weather station indicates that winds are typically from the south-east, with fewer winds from the north-west quadrant. Very few winds occur from the north-east and south-west quadrants.



Note: m/s = metres per second

**Figure 4-2: Annual windroses for 2015**

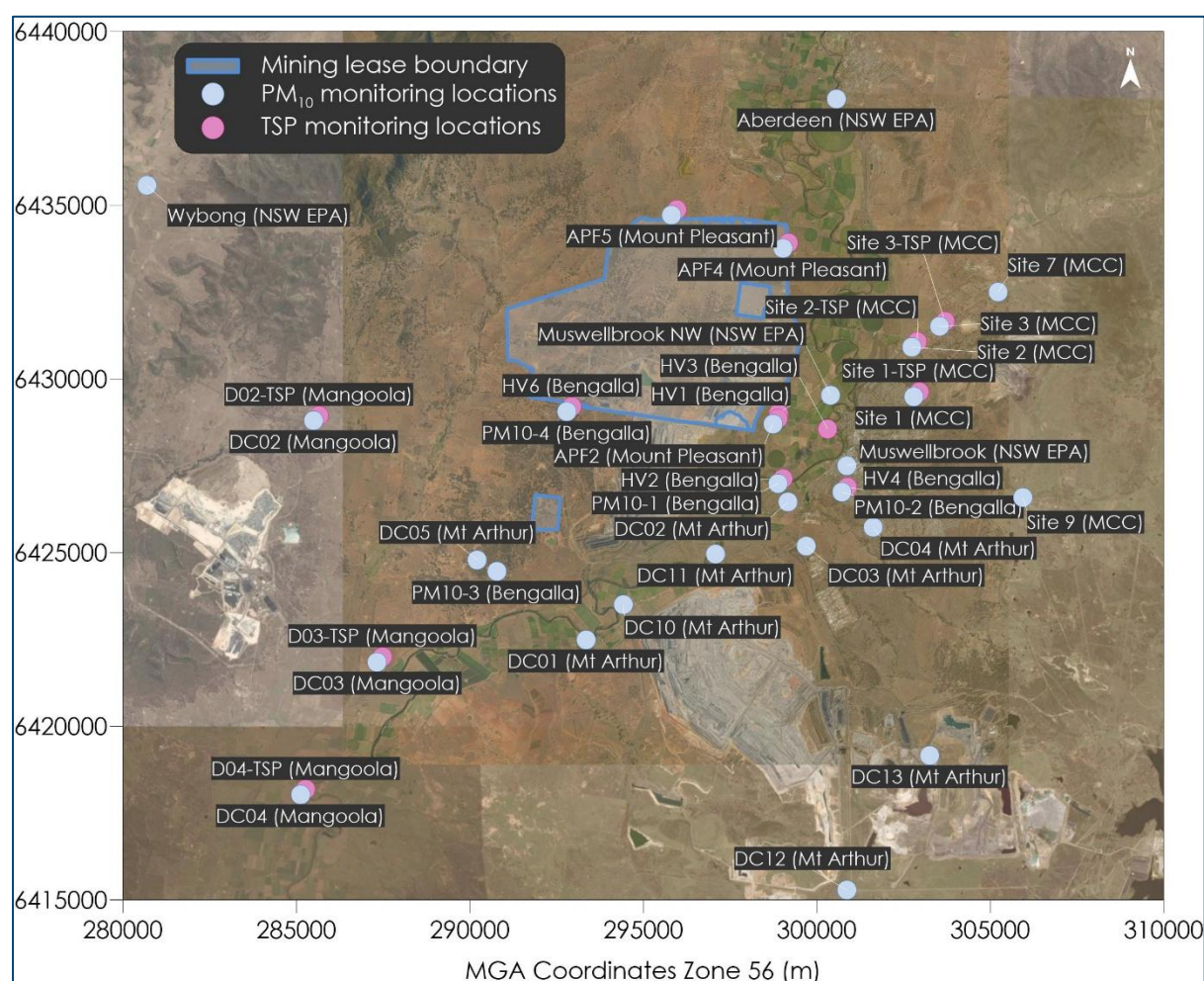


### 4.3 Local air quality monitoring

The main sources of particulate matter in the wider area include active mining, agricultural activities, emissions from local anthropogenic activities such as motor vehicle exhaust and domestic wood heaters, urban activity and various other commercial and industrial activities including power generation such as the Bayswater power station.

#### 4.3.1 PM<sub>10</sub> and TSP monitoring

Ambient PM<sub>10</sub> and TSP monitoring data sourced from 39 stations have been reviewed. **Figure 4-3** shows the approximate location of each of the monitoring stations with reference to the Mount Pleasant Operation (except for the Mangoola D05-DC and D06-DC monitors, which are west of the figure extent). The type of air quality monitors used to measure ambient PM<sub>10</sub> and TSP include Tapered Element Oscillating Microbalances (TEOMs), High Volume Air Samplers (HVAS) and Palas Fidas monitors.



**Figure 4-3: Ambient PM<sub>10</sub> and TSP monitoring locations**

The available PM<sub>10</sub> monitoring data from the Upper Hunter air quality monitoring network (UHAQMN) monitoring stations are summarised in **Table 4-2**, and indicate that the annual average PM<sub>10</sub> concentrations are below the relevant criterion of 25µg/m<sup>3</sup>, with the exception of Muswellbrook in 2018 and all stations in 2019. The maximum 24-hour average PM<sub>10</sub> concentrations recorded at these stations exceed the relevant criterion of 50µg/m<sup>3</sup> at times during the review period.

Table 4-2: Summary of ambient PM<sub>10</sub> levels from UHAQMN (µg/m<sup>3</sup>)

| Location        | 2012                    | 2013 | 2014 | 2015 | 2016 | 2017 | 2018        | 2019        | 2020  | 2021 | 2022 | 2023 | 2024 |
|-----------------|-------------------------|------|------|------|------|------|-------------|-------------|-------|------|------|------|------|
|                 | Annual average          |      |      |      |      |      |             |             |       |      |      |      |      |
| Muswellbrook NW | 19.1                    | 18.9 | 19.2 | 16.7 | 16.6 | 18.5 | 25.0        | <b>33.7</b> | 21.0  | 15.6 | 14.3 | 19.8 | 16.3 |
| Muswellbrook    | 21.8                    | 22.6 | 21.4 | 19.1 | 19.2 | 21.7 | <b>27.2</b> | <b>34.4</b> | 22.5  | 18.2 | 16.6 | 21.9 | 18.5 |
| Aberdeen        | 17.0                    | 17.3 | 17.9 | 15.2 | 15.6 | 17.6 | 22.3        | <b>29.5</b> | 17.9  | 12.9 | 12.3 | 15.5 | 14.0 |
| Wybong          | 15.4                    | 15.5 | 17.0 | 14.8 | 15.3 | 16.6 | 21.6        | <b>28.5</b> | 18.2  | 12.6 | 11.7 | 16.2 | 15.7 |
| Location        | Maximum 24-hour average |      |      |      |      |      |             |             |       |      |      |      |      |
|                 |                         |      |      |      |      |      |             |             |       |      |      |      |      |
| Muswellbrook NW | 55.8                    | 52.4 | 50.8 | 72.9 | 44.8 | 51.0 | 195.4       | 244.6       | 238.6 | 38.2 | 55.5 | 57.5 | 54.1 |
| Muswellbrook    | 51.0                    | 55.6 | 53.0 | 72.6 | 43.9 | 56.5 | 185.9       | 231.3       | 181.0 | 43.5 | 37.1 | 59.4 | 41.5 |
| Aberdeen        | 45.8                    | 42.7 | 50.4 | 64.8 | 41.2 | 59.4 | 178.9       | 246.7       | 267.7 | 33.2 | 32.1 | 61.2 | 30.8 |
| Wybong          | 54.4                    | 83.0 | 67.7 | 79.5 | 52.1 | 64.3 | 179.6       | 277.2       | 373.6 | 37.9 | 31.7 | 52.5 | 57.4 |

The recorded 24-hour average PM<sub>10</sub> concentrations include the contribution from all emission sources in the vicinity, and are presented graphically in **Figure 4-4**.

The figure shows that PM<sub>10</sub> concentrations are highest in the 2018 and 2019 periods as a result of the occurrence of dust associated with drought conditions and the severe bushfire season.

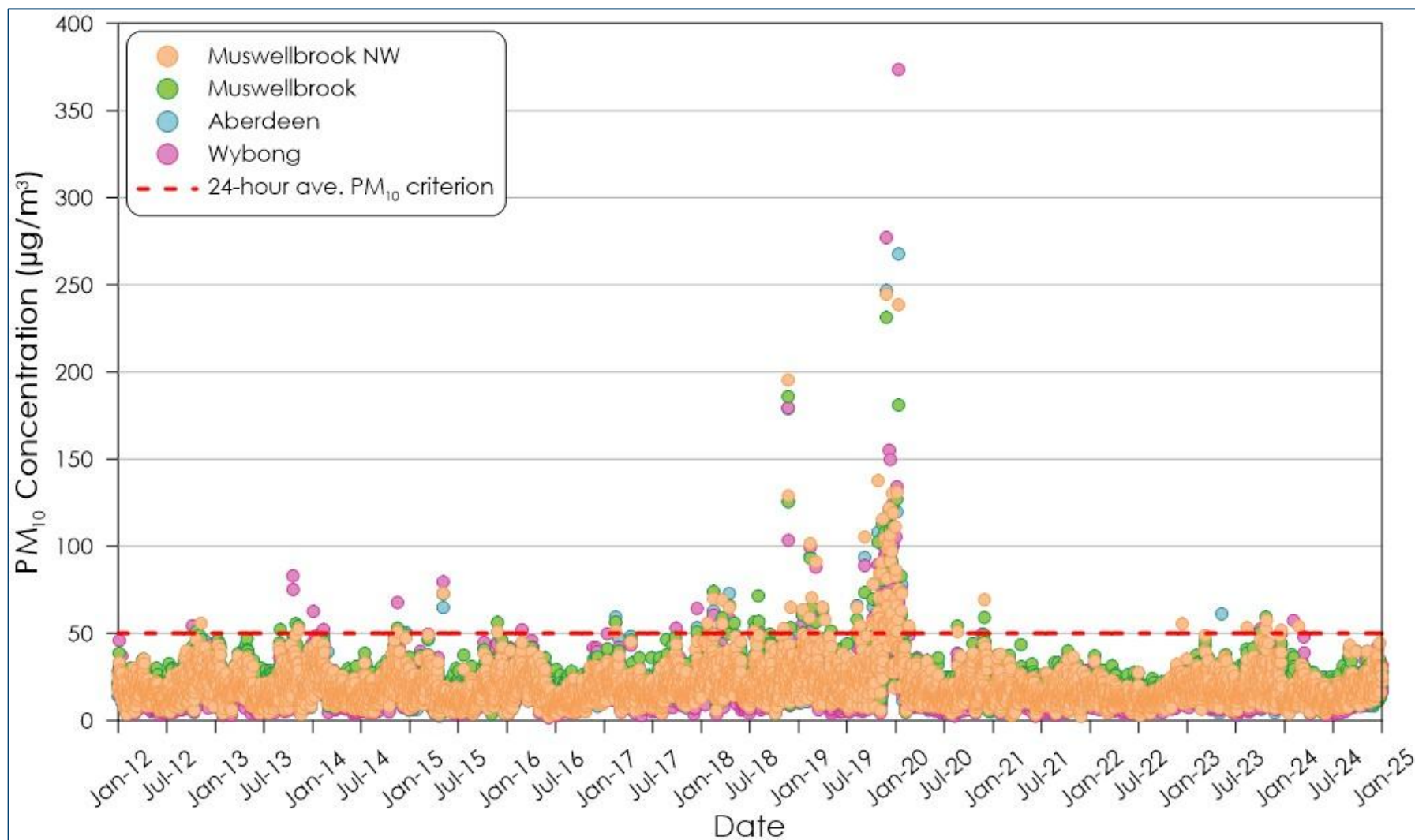
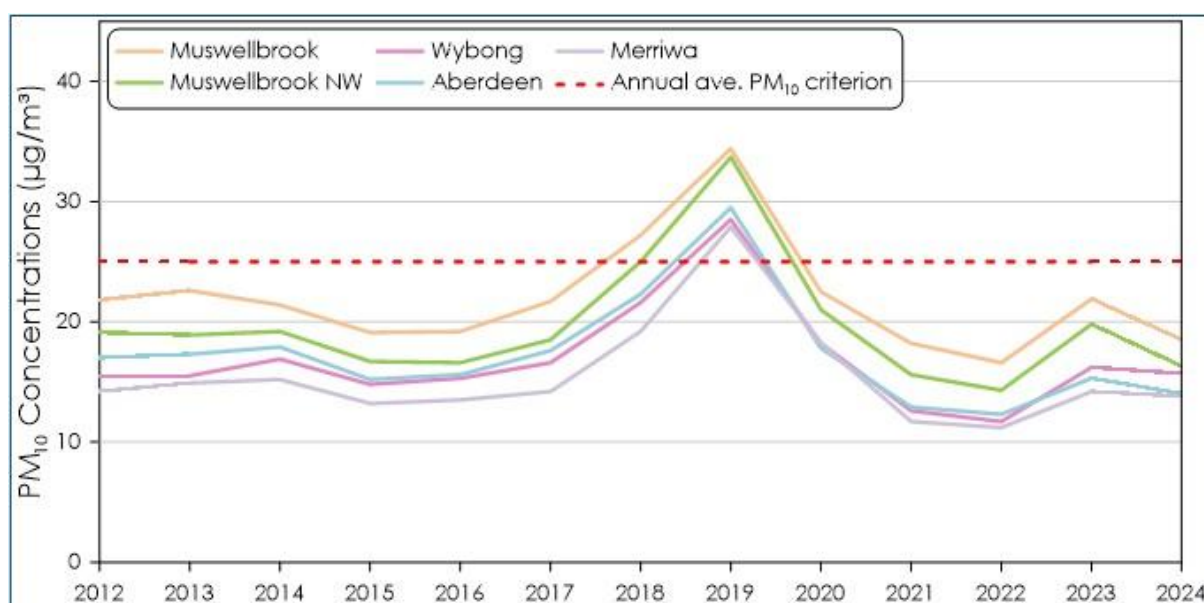


Figure 4-4: 24-hour average PM<sub>10</sub> concentrations at UHAQMN monitoring stations

**Figure 4-5** presents the annual average PM<sub>10</sub> monitoring data for the period reviewed for a selection of UHAQMN monitoring stations. In 2019 the annual average PM<sub>10</sub> levels at all monitors exceeded the relevant criterion of 25µg/m<sup>3</sup>. The graph shows there was a significant increase in the dust levels during 2018 and 2019 compared to previous and subsequent years. This increase occurs at all stations in the UHAQMN including the Merriwa monitor, which is generally considered to be unaffected by mining activities.

The increase in dust levels in 2018 is primarily due to drought conditions and the increase in 2019 is due to a combination of the intensifying drought conditions and a severe bushfire season. The following years show the annual average levels reducing as weather conditions improved, which indicates that regional environmental conditions are key factor of the elevated annual average readings.



**Figure 4-5: Annual average PM<sub>10</sub> concentrations at UHAQMN monitoring stations**

The diurnal profile of dust levels at the Muswellbrook monitor has been investigated. **Figure 4-6** presents an analysis of the measured PM<sub>10</sub> and PM<sub>2.5</sub> levels per time of day.

The figure indicates the PM<sub>10</sub> levels show only a slight trend with higher levels occurring in the early morning and evening periods compared to the middle of the day. This is as expected due to the better dispersion conditions occurring during daytime periods.

The PM<sub>2.5</sub> levels show a more noticeable trend with the higher levels occurring in the night-time periods compared to the day. Further analysis by season shows the maximum PM<sub>2.5</sub> levels occur in winter and autumn compared to the other seasons, which coincides with a higher occurrence of inversions.

The likely cause of these elevated PM<sub>2.5</sub> levels can be attributed to domestic wood heater emissions from within the town. Whilst dust from mining would also contribute to these levels, it needs to be acknowledged that domestic wood smoke is a key issue for potential human health impacts as wood heaters are located inside living rooms and the chimney discharge is closer to residents, which means the air that the population breathes will be affected by wood heater emissions to a much greater degree than by mining operations.



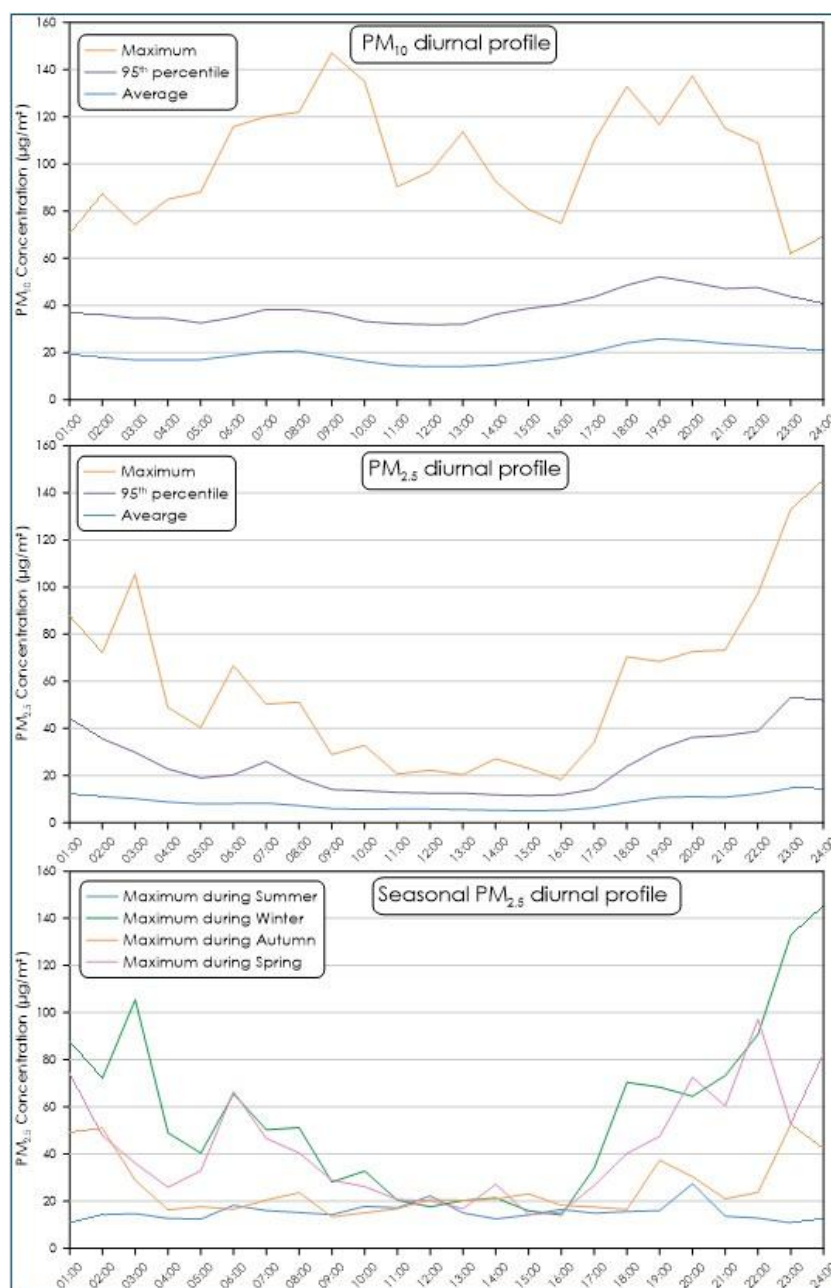


Figure 4-6: Diurnal levels at Muswellbrook monitor (2015)

**Table 4-3** summarises the annual average PM<sub>10</sub> levels from monitoring stations operated by the Mount Pleasant Operation and nearby mining operations, including; Mt Arthur Coal Mine, Mangoola Coal, Bengalla Mine and Muswellbrook Coal Mine (MCM). The ambient air quality monitoring data for these stations were obtained from publicly available sources including annual reviews and published monitoring data records. It should be noted that some of the monitors may be used for operational purposes only and not for compliance purposes.

For the 2012 to 2024 period, all monitoring stations recorded levels below 25µg/m<sup>3</sup> with the exception of the PM10-1 station which recorded a level of 26.0µg/m<sup>3</sup> in 2013, the PM10-4 station which recorded a level of 28.0µg/m<sup>3</sup> in 2017, PM10-2 in 2018 and 2019, DC02, PM10-1, PM10-3 and PM10-4 stations in 2018-2020, PM10-1 and PM10-3 in 2023 and DC05 in 2024.

The recorded annual average levels at these monitors typically show similar levels to those recorded at the UHAQMN stations for the same period. Monitoring stations located closer to mining operations generally indicate higher levels of PM<sub>10</sub> compared to those located further away.

**Table 4-3: Summary of annual average PM<sub>10</sub> levels from surrounding mining operations (µg/m<sup>3</sup>)**

| Location              | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018  | 2019  | 2020  | 2021 | 2022 | 2023 | 2024 |
|-----------------------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|
| APF2 (Mount Pleasant) | -    | -    | -    | -    | -    | 17.4 | 23.4* | 23.4* | 16.8* | 16.1 | 14.4 | 20.4 | 14.9 |
| APF4 (Mount Pleasant) | -    | -    | -    | -    | -    | 8.9  | 16.0* | 16.3* | 13.3* | 11.8 | 10.8 | 13.4 | 14.7 |
| APF5 (Mount Pleasant) | -    | -    | -    | -    | -    | -    | 15.4* | 17.5* | 10.7* | 13.1 | 12.4 | 15.3 | 14.6 |
| DC01 (Mt Arthur)      | 16.7 | -    | -    | -    | -    | -    | -     | -     | -     | -    | -    | -    | -    |
| DC02 (Mt Arthur)      | 16.7 | 22.4 | 21.3 | 18.5 | 17.8 | 17.9 | 29^   | 30^   | 27^   | 20^  | 16^  | 17^  | 17^  |
| DC03 (Mt Arthur)      | 18.9 | -    | -    | -    | -    | -    | -     | -     | -     | -    | -    | -    | -    |
| DC04 (Mt Arthur)      | 18.3 | 20.8 | 20.4 | 18.4 | 18.0 | 19.6 | 22^   | 25^   | 20^   | 19^  | 17^  | 17^  | 20^  |
| DC05 (Mt Arthur)      | 10.8 | 16.1 | 16.3 | 14.1 | 12.2 | 11.5 | 19^   | 21^   | 13^   | 11^  | 14^  | 19^  | 26^  |
| D02-DC (Mangoola)     | 13.3 | 14.5 | 14.4 | 11.4 | 11.7 | 12.9 | 17.2  | 17.6  | 12.3  | 12.8 | 12.8 | 17.4 | 17.1 |
| D03-DC (Mangoola)     | 13.6 | 14.9 | 15.4 | 12.3 | 13.6 | 14.6 | 20.3  | 21.0  | 17.2  | 15.4 | 13.3 | 20.1 | 18.1 |
| D04-DC (Mangoola)     | 11.1 | 12.2 | 12.2 | 9.9  | 9.9  | 12.7 | 18.0  | 20.6  | 13.6  | 13.2 | 11.3 | 16.3 | 15.2 |
| D05-DC (Mangoola)     | -    | -    | -    | 10.5 | 9.9  | 9.0  | 17.0  | 15.6  | 10.5  | 9.2  | 7.6  | 11.0 | 9.9  |
| D06-DC (Mangoola)     | -    | -    | -    | -    | -    | -    | 20.9  | 20.0  | 14.6  | 12.3 | 12.0 | 16.5 | 15.3 |
| PM10-1 (Bengalla)     | 24.4 | 26.0 | 23.5 | 20.0 | 18.1 | 23.1 | 33.3  | 49.3  | 25.7  | 20.1 | 16.5 | 28.5 | 20.6 |
| PM10-2 (Bengalla)     | 25.0 | 22.5 | 23.6 | 18.9 | 17.0 | 19.2 | 27.1  | 37.9  | 22.7  | 17.0 | 15.6 | -    | -    |
| PM10-3 (Bengalla)     | 16.2 | 17.7 | 23.7 | 18.9 | 17.9 | 20.9 | 27.5  | 38.7  | 26.5  | 15.6 | 16.0 | 26.3 | 21.6 |
| PM10-4 (Bengalla)     | 20.1 | 20.2 | 23.7 | 22.7 | 21.1 | 28.0 | 38.2  | 48.9  | 32.0  | 24.1 | 22.3 | -    | -    |
| Site 1 (MCM)          | -    | 16.6 | 17.2 | 14.9 | 14.3 | 17.1 | -     | -     | -     | -    | -    | -    | -    |
| Site 2 (MCM)          | -    | 17.3 | 17.6 | 14.9 | 15.5 | 17.2 | -     | -     | -     | -    | -    | -    | -    |
| Site 3 (MCM)          | -    | 18.6 | 15.3 | 13.7 | 12.3 | 15.7 | -     | -     | -     | -    | -    | -    | -    |
| Site 7 (MCM)          | -    | -    | -    | -    | -    | 15.6 | 20.2  | 26.7  | 17.1  | 13.1 | 13.1 | 14.5 | 14.4 |
| Site 9 (MCM)          | -    | -    | -    | -    | -    | 16.7 | 17.8  | 24.2  | 18.1  | 14.4 | 13.1 | 15.8 | 14.3 |

Note: \* Results exclude 'extraordinary events' (e.g. dust storms and bushfire activity).

^ Results are for financial year, not calendar year.

**Table 4-4** summarises the available annual average TSP levels for monitoring stations operated by nearby mining operations. For the 2012 to 2024 period, all monitoring stations recorded levels below 90µg/m<sup>3</sup>, with the exception of HV6 in 2017, HV1, HV2 and HV6 in 2018 and 2019, HV4 in 2019 and HV6 in 2020.

**Table 4-4: Summary of annual average TSP levels from surrounding mining operations (µg/m<sup>3</sup>)**

| Location           | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018  | 2019  | 2020  | 2021 | 2022 | 2023  | 2024 |
|--------------------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|------|
| A-HV2              | -    | -    | -    | -    | -    | 52.9 | 89.6* | 80.6* | 51.8* | 49.3 | 39.3 | 61.9  | 46.3 |
| A-HV4              | -    | -    | -    | -    | -    | 30.5 | 45.5* | 46.7* | 32.7* | 27.6 | 30.1 | 39.9  | 32.9 |
| A-HV5              | -    | -    | -    | -    | -    | 25.4 | 43.7* | 48.3* | 31.6* | 29.8 | 26.8 | 56.3  | 44.5 |
| D02-TSP (Mangoola) | 41.4 | 42.9 | 47   | 37.3 | 35.4 | 42.9 | 61.2  | 54.0  | 34.5  | 27.8 | 28.0 | 45.7  | 42.1 |
| D03-TSP (Mangoola) | 37.7 | 43.5 | 50   | 38   | 41.7 | 41.7 | 60.0  | 62.1  | 42.1  | 30.3 | 27.2 | 50.51 | 47.1 |
| D04-TSP (Mangoola) | 28.7 | 36.7 | 38.6 | 39.5 | 35.0 | 37.8 | 50.4  | 49.9  | 32.9  | 23.8 | 23.3 | 37.8  | 33.6 |
| HV1 (Bengalla)     | 50.1 | 45.5 | 60.3 | 45.8 | 52.8 | 58.9 | 94.3  | 124   | 74    | 64.1 | 50.4 | -     | -    |
| HV2 (Bengalla)     | 60.9 | 61.3 | 67.3 | 54.1 | 52.7 | 60.0 | 91.4  | 112.5 | 70.2  | 55.3 | 48.2 | 85.1  | 61.2 |
| HV3 (Bengalla)     | 43.5 | 42.6 | 49.3 | 39.1 | 37.6 | 43.9 | 69.7  | 85.2  | 50.9  | 41.7 | 34.2 | 51.5  | 41.1 |
| HV4 (Bengalla)     | 55   | 51.6 | 60.9 | 44.5 | 44.9 | 49.6 | 71.5  | 95.1  | 58.8  | 44.7 | 37.8 | -     | -    |
| HV6 (Bengalla)     | 64.6 | 66.1 | 80.1 | 73.1 | 68.7 | 96.4 | 112.0 | 143   | 96.5  | 76.0 | 80.4 | -     | -    |
| Site 1 (MCM)       | -    | 33.0 | 39.5 | 29.8 | 28.2 | 32.6 | -     | -     | -     | -    | -    | -     | -    |
| Site 2 (MCM)       | -    | 37.5 | 39.4 | 29.7 | 30.1 | 32.9 | -     | -     | -     | -    | -    | -     | -    |
| Site 3 (MCM)       | -    | 38.2 | 51.4 | 32.9 | 35.9 | 36.7 | -     | -     | -     | -    | -    | -     | -    |

Note: \* Results exclude 'extraordinary events' (e.g. dust storms and bushfire activity).

### 4.3.2 PM<sub>2.5</sub> monitoring

A summary of the available PM<sub>2.5</sub> monitoring data from the UHAQMN Muswellbrook monitoring station is provided in **Table 4-5**, and is presented graphically in **Figure 4-7**.

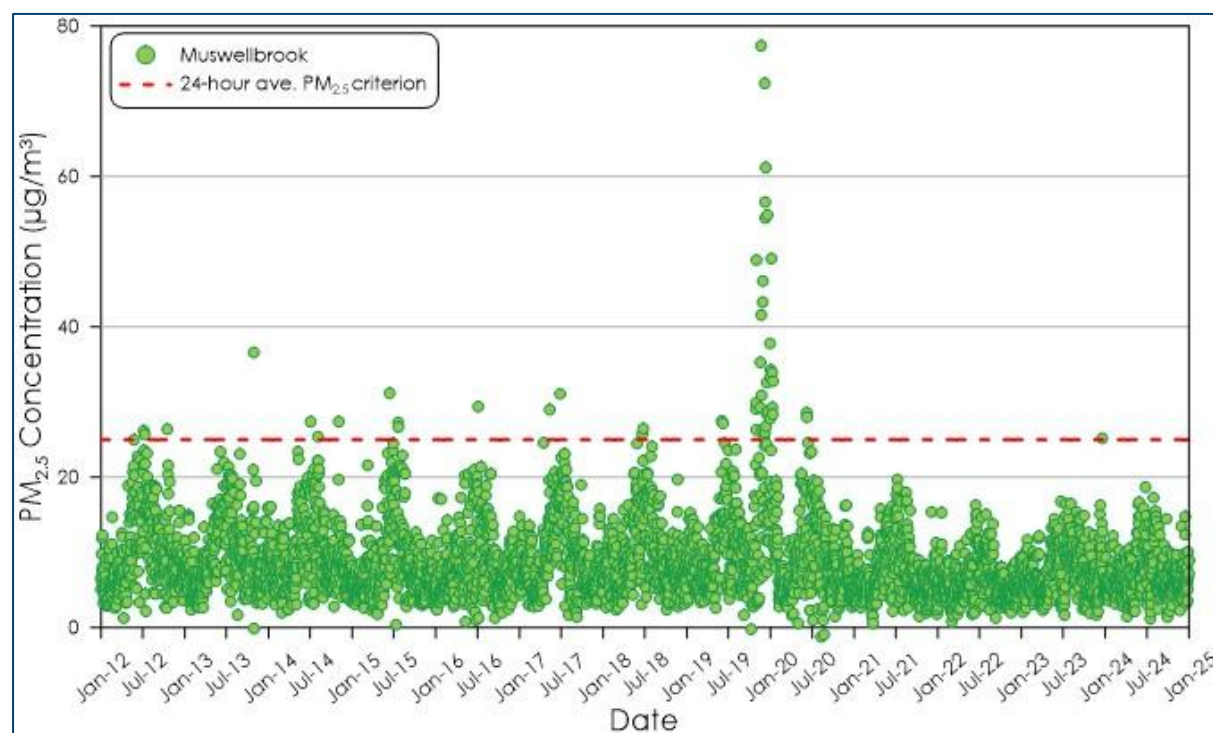
**Table 4-5** indicates that the annual average PM<sub>2.5</sub> concentrations in Muswellbrook were above the relevant criterion of 8µg/m<sup>3</sup> for the period 2012 to 2020, and that the maximum 24-hour average PM<sub>2.5</sub> concentrations exceeded the relevant criterion of 25µg/m<sup>3</sup> at times during the period reviewed.

**Table 4-5: Summary of ambient PM<sub>2.5</sub> levels from UHAQMN Muswellbrook (µg/m<sup>3</sup>)**

| Location                | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Annual average          |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Muswellbrook            | 10.1 | 9.4  | 9.7  | 8.7  | 8.4  | 9.4  | 9.4  | 12.2 | 9.4  | 7.3  | 6.2  | 7.5  | 7.1  |
| Maximum 24-hour average |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Muswellbrook            | 26.4 | 36.6 | 27.4 | 31.2 | 29.4 | 31.1 | 26.5 | 77.4 | 49.1 | 19.7 | 16.3 | 25.2 | 18.7 |

A clear seasonal trend in 24-hour average PM<sub>2.5</sub> concentrations can be seen in **Figure 4-7**, with elevated levels occurring in the cooler months. This is opposite to the seasonal trend for PM<sub>10</sub> concentrations, which has elevated levels during the warmer months.

**Figure 4-7** also shows a large spike in 24-hour average PM<sub>2.5</sub> concentrations during the severe drought and bushfire season in 2019.



**Figure 4-7: 24-hour average PM<sub>2.5</sub> concentrations from UHAQMN Muswellbrook monitoring station**

Ambient PM<sub>2.5</sub> levels at the Muswellbrook monitoring station would be governed by non-mining background sources such as wood heaters. The wintertime peak in PM<sub>2.5</sub> levels would arise due to emissions from urban wood heaters in the nearby residential areas.

PM<sub>2.5</sub> monitors located near mining operations (away from towns) are found to have little seasonal trend in comparison to the Muswellbrook monitoring station (**Todoroski Air Sciences, 2014**). This suggests that the influence of anthropogenic sources on PM<sub>2.5</sub> levels is localised to the towns and does not significantly affect the areas that are more sparsely populated.

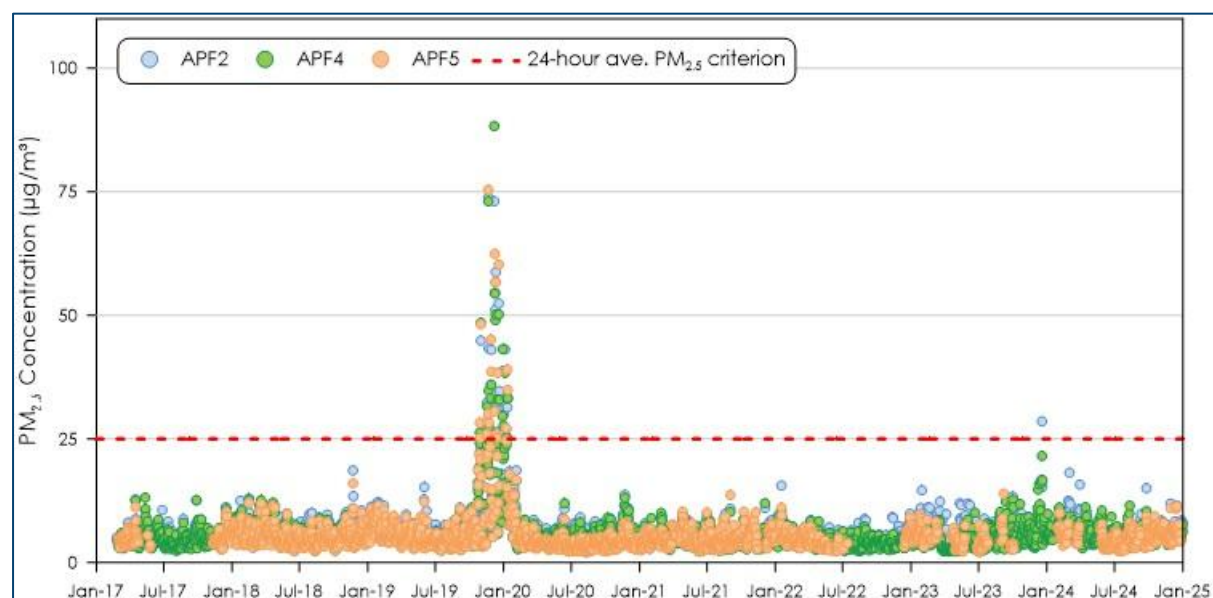
A summary of the available PM<sub>2.5</sub> monitoring data from the Mount Pleasant Operation monitoring stations is tabled in **Table 4-6**, and is presented graphically in **Figure 4-8**.

**Table 4-6** indicates that the annual average PM<sub>2.5</sub> concentrations surrounding the Mount Pleasant Operation were below the relevant criterion of 8µg/m<sup>3</sup> for the periods reviewed. **Figure 4-8** does not show the same seasonal trend as the Muswellbrook monitoring station and would confirm that the influence of anthropogenic sources on PM<sub>2.5</sub> levels is localised to the town.

**Table 4-6: Summary of ambient PM<sub>2.5</sub> levels from Mount Pleasant Operation monitoring (µg/m<sup>3</sup>)**

| Location              | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|-----------------------|------|------|------|------|------|------|------|------|
| APF2 (Mount Pleasant) | 5.1  | 6.1* | 6.4* | 5.8* | 5.2  | 4.8  | 6.0  | 6.4  |
| APF4 (Mount Pleasant) | 4.8  | 5.5* | 5.4* | 5.3* | 4.8  | 4.3  | 5.1  | 5.7  |
| APF5 (Mount Pleasant) | -    | 5.2* | 5.5* | 4.6* | 4.9  | 4.6  | 5.0  | 5.2  |

Note: \* Results exclude 'extraordinary events' (e.g. dust storms and bushfire activity).



**Figure 4-8: 24-hour average PM<sub>2.5</sub> concentrations from Mount Pleasant Operation monitoring stations**

#### 4.3.3 Dust deposition monitoring

Dust deposition monitoring conducted by the Mount Pleasant Operation has been reviewed. **Figure 4-9** presents the location of the dust deposition monitors.



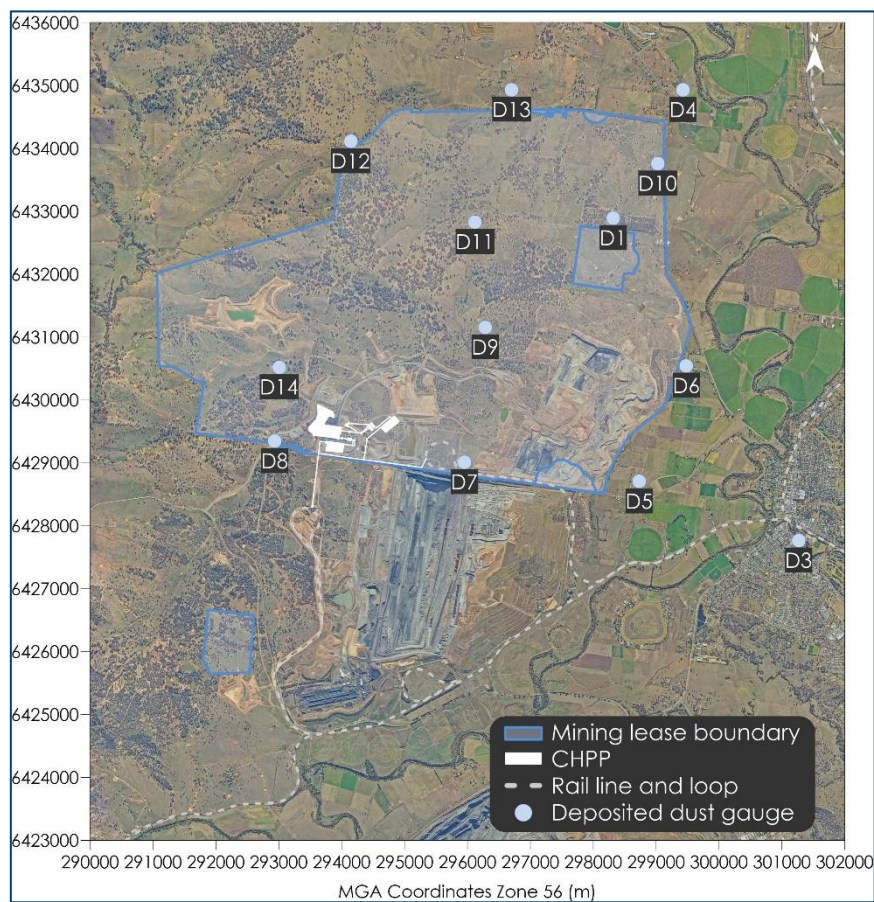


Figure 4-9: Dust deposition monitoring locations

Table 4-7 presents the annual average dust deposition levels during 2012 to 2024.

The results indicate that dust deposition levels are typically highest near mining activity, such as at D7. All other monitors recorded levels below the relevant criterion of  $4\text{g/m}^2/\text{month}$  and indicate dust deposition levels are generally good in the vicinity of the Mount Pleasant Operation, with the exception of gauge D8 in 2013, 2017, 2019, 2020 and 2024 and gauges D6, D8, D9 and D14 in 2019.

As described in the *Mount Pleasant Operation 2019 Annual Review & Annual Rehabilitation Report (MACH, 2020b)*, a number of these monitors are not representative of sensitive receivers and are used for operational management purposes only. While gauge D6 is considered representative of sensitive receivers, a significant increase in dust levels was recorded over a three-month period that was likely due to local agricultural activities (MACH, 2020b).

Table 4-7: Summary of dust deposition levels ( $\text{g/m}^2/\text{month}$ )

| Location | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| D1       | 1.4  | 1.2  | 1.3  | 1.0  | 1.3  | 1.3  | 1.6  | 2.4  | 2.6  | 2.4  | 2.3  | 1.9  | 2.2  |
| D3       | 2.2  | 1.8  | 1.8  | 1.5  | 1.5  | 1.9  | 2.9  | 3.6  | 2.6  | 1.6  | -    | -    | 1.2  |
| D4       | 1.6  | 1.3  | 1.6  | 2.4  | 1.5  | 1.4  | 1.8  | 2.5  | 2.8  | 1.6  | 1.0  | 1.3  | 1.1  |
| D5       | 2.9  | 3.2  | 3.9  | 2.4  | 2.2  | -    | 2.5  | 3.3  | 3.1  | 2.9  | 2.2  | 2.8  | 2.1  |
| D6       | 2.2  | 3.3  | 3.7  | 2.5  | 2.3  | 2.6  | 3.2  | 6.4  | 3.3  | 2.7  | 1.6  | 2.5  | 1.9  |
| D7       | 13.0 | 11.5 | 12.3 | 5.8  | 6.8  | -    | 8.5  | 7.6  | 6.0  | 7.9  | 6.2  | 8    | 8.6  |
| D8       | 3.4  | 4.4  | 3.7  | 3.0  | 3.7  | 5.9  | 3.9  | 5.0  | 4.7  | 3.5  | 3.2  | 3.8  | 4.6  |
| D9       | 1.3  | 1.4  | 1.5  | 1.3  | 1.6  | 1.7  | 1.9  | 4.3  | 3.7  | 1.6  | 2.4  | 4.2  | 3.4  |

| Location | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019       | 2020 | 2021 | 2022 | 2023 | 2024 |
|----------|------|------|------|------|------|------|------|------------|------|------|------|------|------|
| D10      | 2.0  | -    | 1.0  | 0.8  | 1.1  | 1.3  | 1.5  | 1.8        | 1.7  | 1.0  | 0.9  | 1.1  | 1.1  |
| D11      | 2.0  | 1.3  | 1.6  | 1.4  | 1.3  | 1.7  | 2.0  | 3.0        | 3.2  | 1.7  | 1.9  | 3    | 3.1  |
| D12      | 1.1  | 0.7  | 1.0  | 0.8  | 0.7  | 0.9  | 1.5  | 1.5        | -    | 0.7  | 0.6  | 1    | 1.0  |
| D13      | 2.2  | 3.2  | 3.2  | 2.1  | 2.0  | 3.3  | 2.7  | -          | -    | 1.5  | 1.1  | 1.4  | 1.4  |
| D14      | 2.4  | 3.0  | 3.4  | 2.2  | 3.2  | 2.5  | 3.7  | <b>4.3</b> | 3.2  | 2.9  | 2.8  | 3.7  | 3.0  |

#### 4.4 Review of air quality related complaints

A summary of the air quality related complaints received by the Mount Pleasant Operation between 2017 to 2024 is presented in **Figure 4-10**. The number of air quality complaints received follows a similar trend to the measured dust levels, which show increased dust during the 2018 and 2019 periods and decreasing following this.

In response to the complaints, appropriate management actions are implemented as outlined in the *Mount Pleasant Operation Air Quality and Greenhouse Gas Management Plan (MACH, 2019)*. These include recording details of the complaint, review of particulate matter levels at nearby monitoring locations, review of meteorological conditions and identifying the potential cause of the complaint and if adjustments to existing management/operational approaches could be applied.

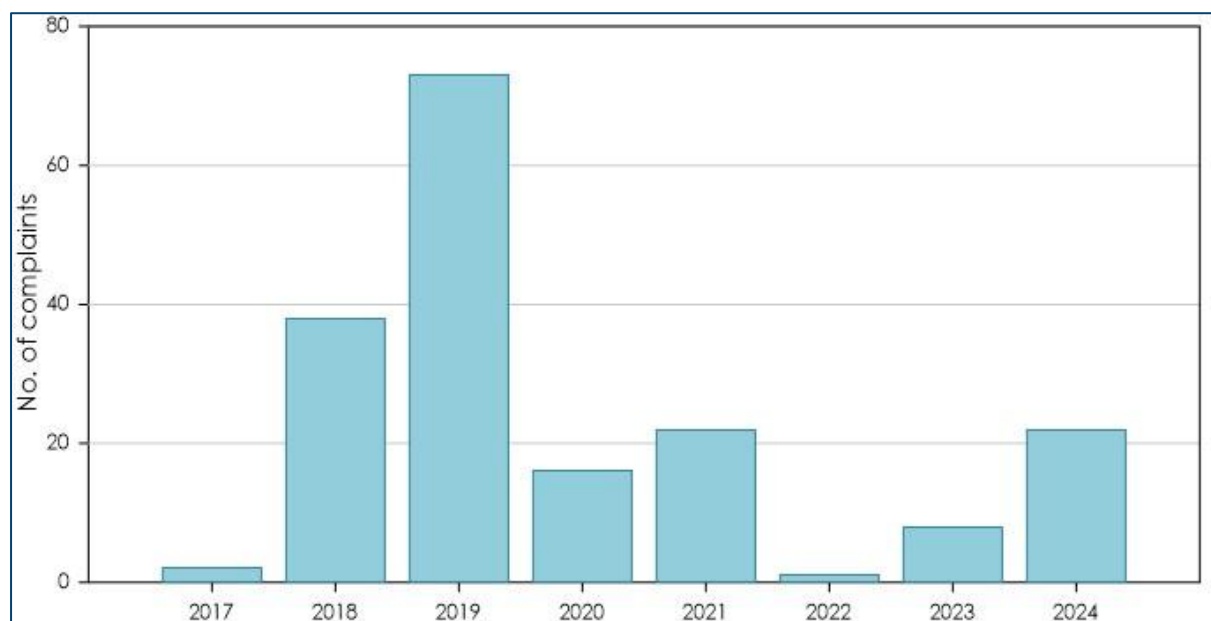


Figure 4-10: Summary of air quality related complaints

## 5 DISPERSION MODELLING APPROACH

The dispersion modelling approach applies the CALPUFF modelling suite, as per previous assessments for the Mount Pleasant Operation and similar recent projects conducted by Todoroski Air Sciences.

The model was set up in general accordance with the NSW EPA's *Generic Guidance and Optimum Model Settings for the CALPUFF Modeling System for Inclusion into the 'Approved Methods for the Modeling and Assessments of Air Pollutants in NSW, Australia'* (TRC Environmental Corporation, 2011).

### 5.1 Meteorological modelling

The meteorological modelling methodology applied a 'hybrid' approach that includes a combination of prognostic model data from The Air Pollution Model (TAPM) with surface observations.

TAPM was applied to generate prognostic upper air data for use in CALMET. The centre of analysis for the TAPM modelling used is 32deg15min south (295,000m) and 150deg49.5min east (6,430,000m). The TAPM simulation involved an outer grid of 30km, with three nested grids of 10km, 3km and 1km with 35 vertical grid levels.

The CALMET modelling used a nested approach where the wind field from the coarser grid outer domain is used as the initial (or starting) field for the finer grid inner domains. The CALMET initial domain was an 85 x 85km grid with a 1.7km grid resolution, the second domain used a 50 x 50km grid with a 1.0km grid resolution and final, high resolution domain used a 30 x 30km grid with a 0.3km grid resolution.

The 2015 calendar year was selected as the period for modelling the Modification based on the evaluation in **Appendix B**. The available meteorological data from nearby meteorological monitoring sites were included in the simulation. **Table 5-1** outlines the parameters used from each station.

**Table 5-1: Surface observation stations**

| Weather Stations                                               | Parameters |    |    |    |   |    |     |
|----------------------------------------------------------------|------------|----|----|----|---|----|-----|
|                                                                | WS         | WD | CH | CC | T | RH | SLP |
| Mount Pleasant Operation                                       | ✓          | ✓  |    |    | ✓ | ✓  |     |
| Muswellbrook NW (DCCEEW)                                       | ✓          | ✓  |    |    | ✓ | ✓  |     |
| Muswellbrook (DCCEEW)                                          | ✓          | ✓  |    |    | ✓ | ✓  |     |
| Scone Airport AWS (BoM) (Station No. 061363)                   | ✓          | ✓  |    |    | ✓ | ✓  | ✓   |
| Murrurundi Gap AWS (BoM) (Station No. 061392)                  | ✓          | ✓  | ✓  | ✓  | ✓ | ✓  | ✓   |
| Merriwa (Roscommon) Weather Station (BoM) (Station No. 061287) | ✓          | ✓  | ✓  | ✓  | ✓ | ✓  | ✓   |
| Cessnock Airport AWS (BoM) (Station No. 061260)                | ✓          | ✓  |    |    | ✓ | ✓  | ✓   |
| Nullo Mountain AWS (BoM) (Station No. 062100)                  | ✓          | ✓  |    |    | ✓ | ✓  |     |

WS = wind speed, WD= wind direction, CH = cloud height, CC = cloud cover, T = temperature, RH = relative humidity, SLP = station level pressure, DCCEEW = Department of Climate Change, Energy, the Environment and Water

The seven critical parameters used in the CALMET modelling are presented in **Table 5-2**.

**Table 5-2: Seven critical parameters used in CALMET**

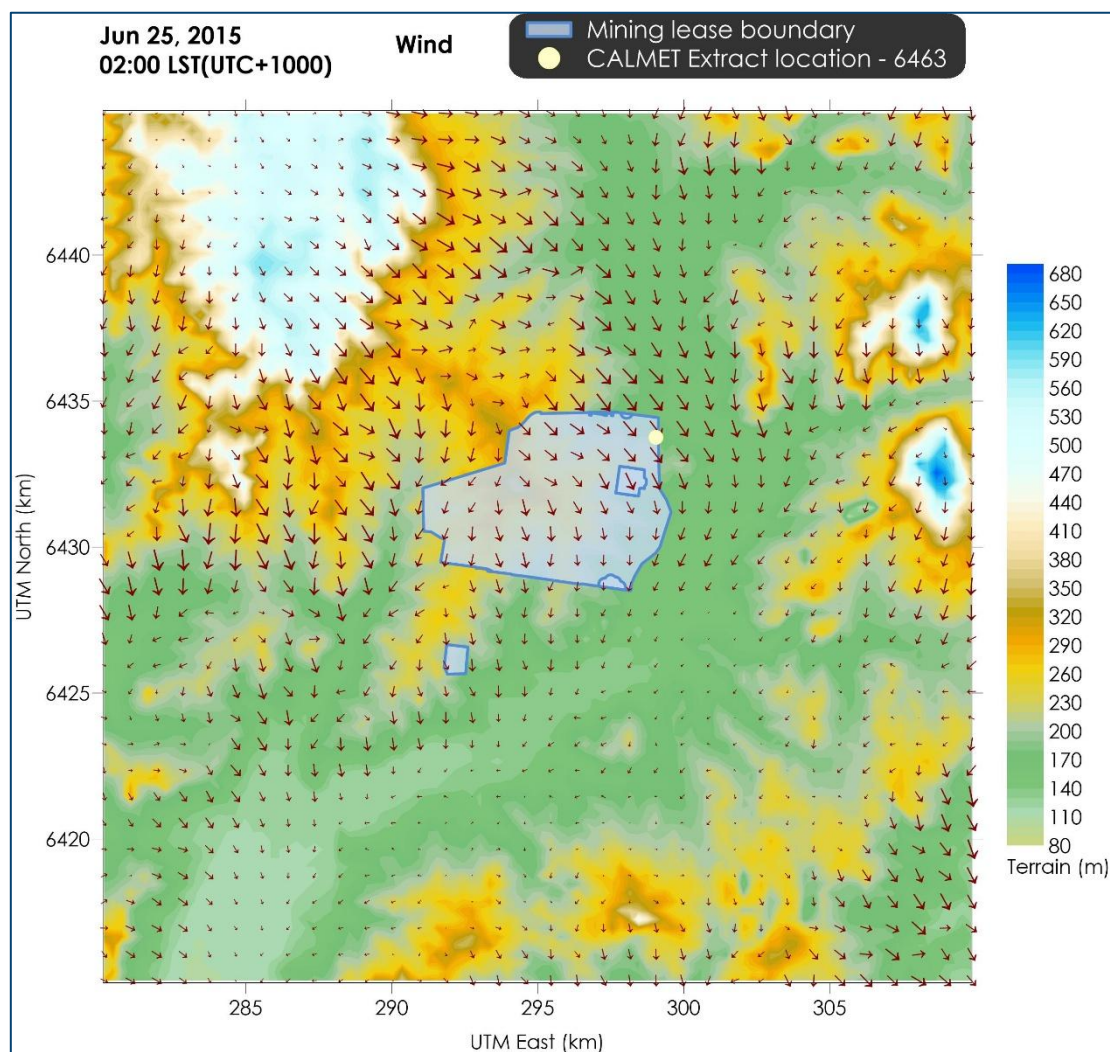
| Parameter       | Value                          |          |          |
|-----------------|--------------------------------|----------|----------|
|                 | Domain 3                       | Domain 2 | Domain 1 |
| TERRAD          | 10                             |          |          |
| IEXTRP          | -4                             |          |          |
| BIAS (NZ)       | -1, -0.5, -0.25, 0, 0, 0, 0, 0 |          |          |
| R1 and R2       | 2.5,2.5                        | 5,5      | 10,10    |
| RMAX1 and RMAX2 | 5,5                            | 10,10    | 20,20    |



## 5.2 Meteorological modelling evaluation

The outputs of the CALMET modelling are evaluated using visual analysis of the wind fields and extracted data and through statistical evaluation.

**Figure 5-1** presents a visualisation of the wind field generated by CALMET for a single hour of the modelling period. The wind fields are seen to follow the terrain well and indicate the simulation produces realistic fine scale flow fields (such as terrain forced flows) in surrounding areas.



**Figure 5-1: Example of the wind field for one of the 8,760 hours of the year that are modelled**

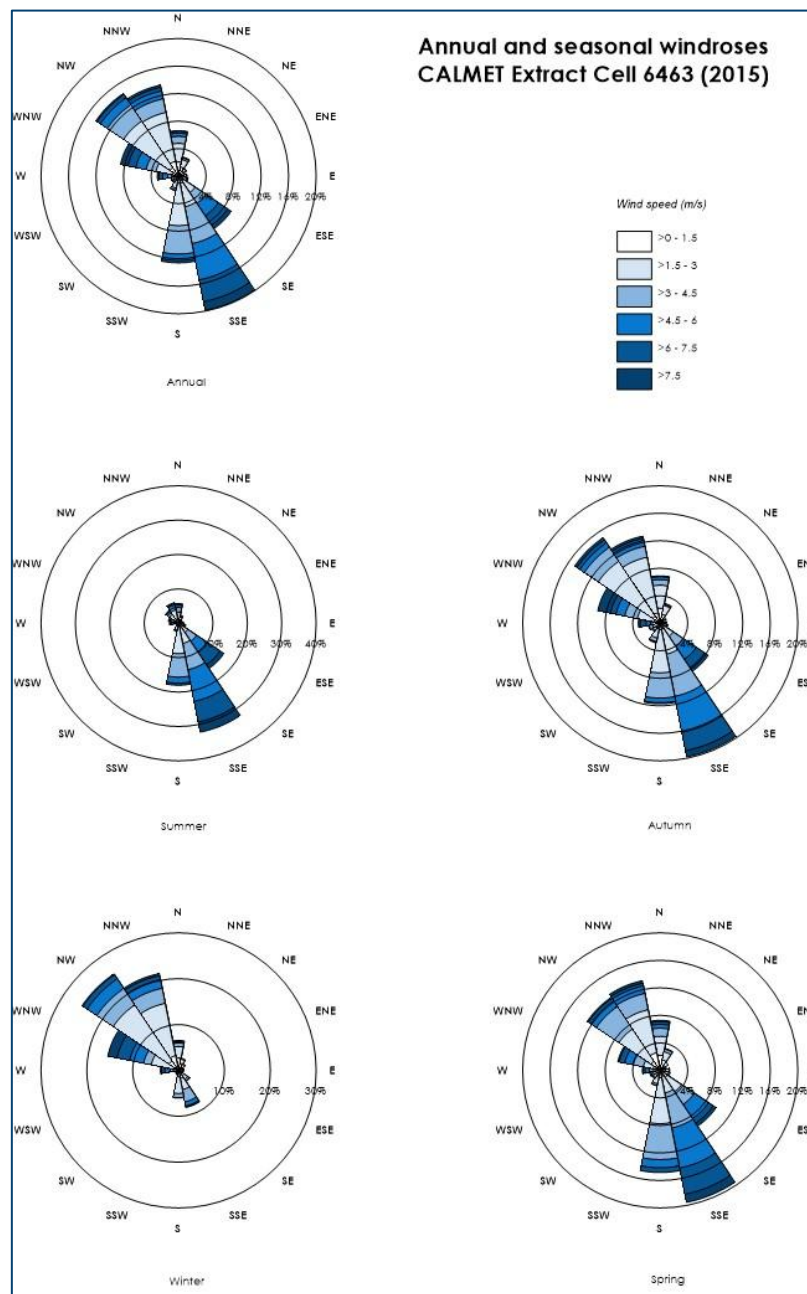
CALMET-generated meteorological data were extracted at a location within the CALMET domain (see **Figure 5-1**) and are graphically represented in **Figure 5-2** and **Figure 5-3**.

**Figure 5-2** presents annual and seasonal windroses extracted at a location within the CALMET domain. On an annual basis, winds from the south-southeast are most frequent followed by winds from the north-west. During summer, winds from the south-southeast dominate the distribution with fewer winds from the south and south-east. The autumn and spring wind distribution patterns are similar to the annual distribution, with most winds originating from the south-southeast and north-west. In winter, winds from the north-west are the most predominant.



Overall, the windroses generated in the CALMET modelling reflect the expected wind distribution patterns of the area as determined based on the available measured data and the expected terrain effects on the prevailing winds. This is evident as the windroses based on the CALMET data also compare well with the windroses generated with the measured data.

**Figure 5-3** includes graphs of the temperature, wind speed, mixing height and stability classification over the modelling period and shows sensible trends considered to be representative of the area.



**Figure 5-2: Windroses from CALMET extract Cell ref 6463 (2015)**

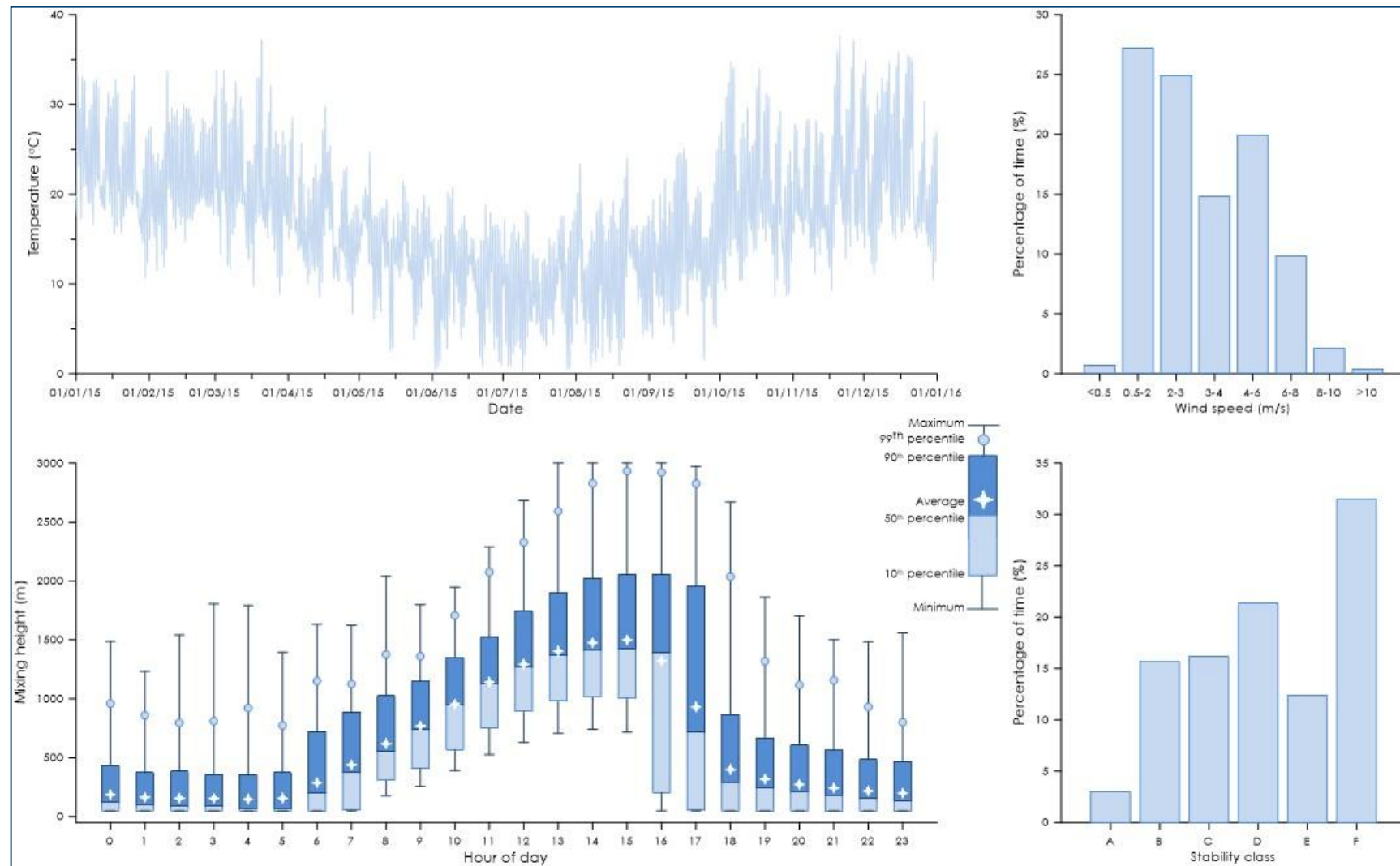


Figure 5-3: Meteorological analysis of CALMET extract Cell ref 6463 (2015)



### 5.3 Dispersion modelling

CALPUFF modelling is based on the distribution of particles for each particle size category derived from the applied emission factor equations. Emissions from each activity were represented by a series of volume sources and were included in the CALPUFF model via an hourly varying emission file. Meteorological conditions associated with dust generation (such as wind speed) and levels of dust-generating activity were considered in calculating the hourly varying emission rate for each source. It should be noted that as a conservative measure, the effect of the precipitation rate (rainfall) in removing dust emissions from the atmosphere has not been considered in this assessment.

### 5.4 Modelling scenarios

The assessment considers three indicative mine plan years (scenarios) to represent the Modification. The scenarios were chosen to represent potential worst-case impacts with consideration of the quantity of material extracted and handled in each year, the location of the activity and the potential to generate dust at the sensitive receptor locations.

Mining operations would consist of a drill and blast, truck and shovel operation to remove overburden material and extract the coal resources. Mining activity is currently at its closest to Muswellbrook and would continue its progression to the north and west away from Muswellbrook. The ROM coal mining rate would increase to 12.5 Mtpa if the Modification is approved. Overburden emplacement would typically occur behind the progression of the mine extraction with rehabilitation of emplacement areas progressing as they are completed. The active mining areas and exposed areas are to be kept to a minimum for the efficiency of the operation and to minimise visual impacts. This also has a positive effect in minimising the potential amount of dust levels generated from the operations.

Key aspects of the three scenarios selected for the assessment are described below:

- ✦ Scenario 1 (approximately Year 2027) – this scenario represents Modification mining activity occurring closest to Muswellbrook, with a notable increase in overburden handling as the mine reaches the full extent to the north. A ROM coal extraction rate of 12.5Mtpa is occurring.
- ✦ Scenario 2 (approximately Year 2029) – the mining continues to progress to the west in the north with the western extent reached in the south. A peak in the amount of material handling (i.e. overburden + ROM) occurs in this scenario.
- ✦ Scenario 3 (approximately Year 2031) – Activity primarily occurs in the northern extent of the mine with the southern component largely rehabilitated. The second highest amount of material handling occurs in this period.

Indicative mine plans for each of the respective scenarios are presented in **Figure 5-4** to **Figure 5-6**.

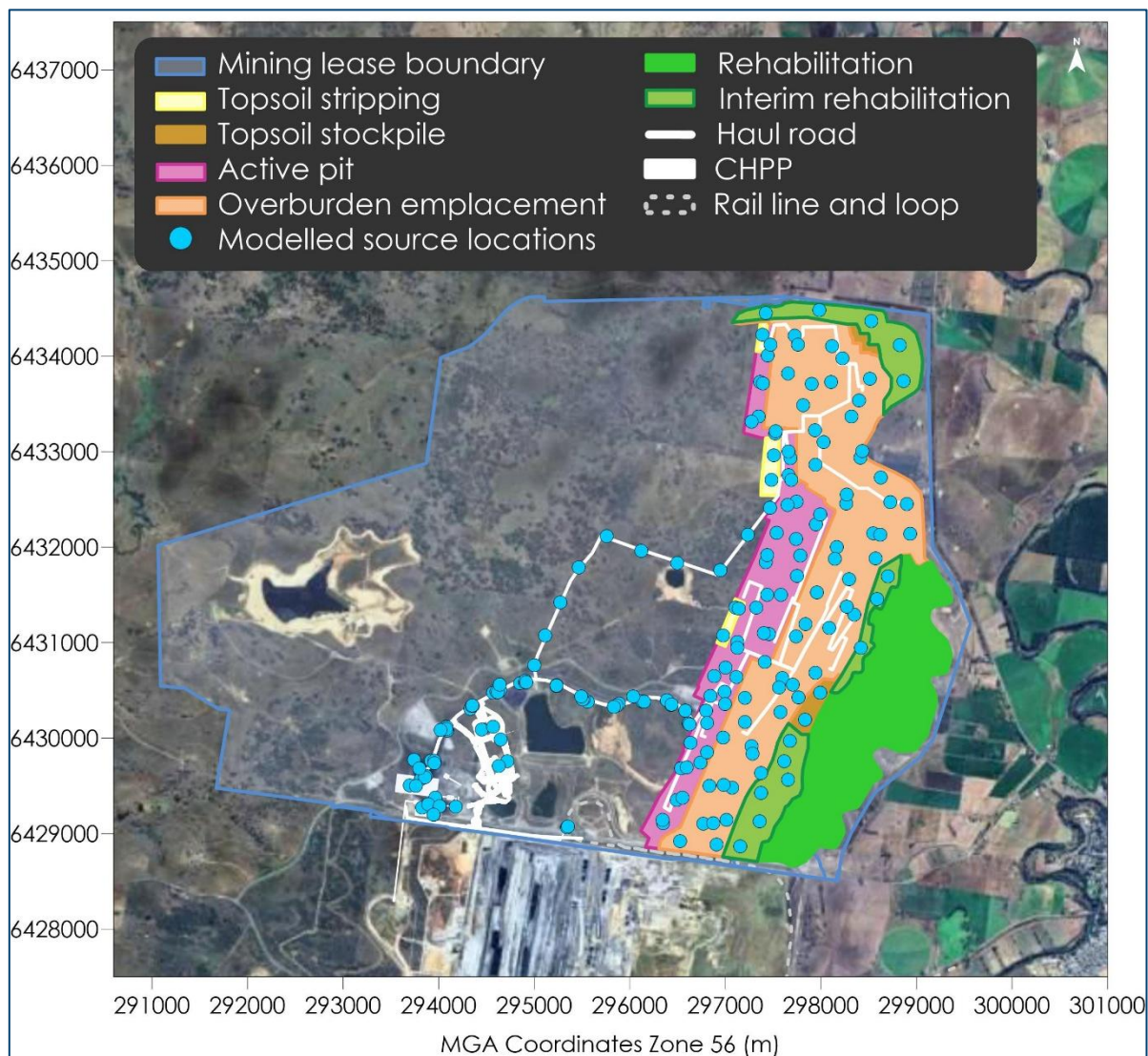


Figure 5-4: Indicative mine plan for Scenario 1



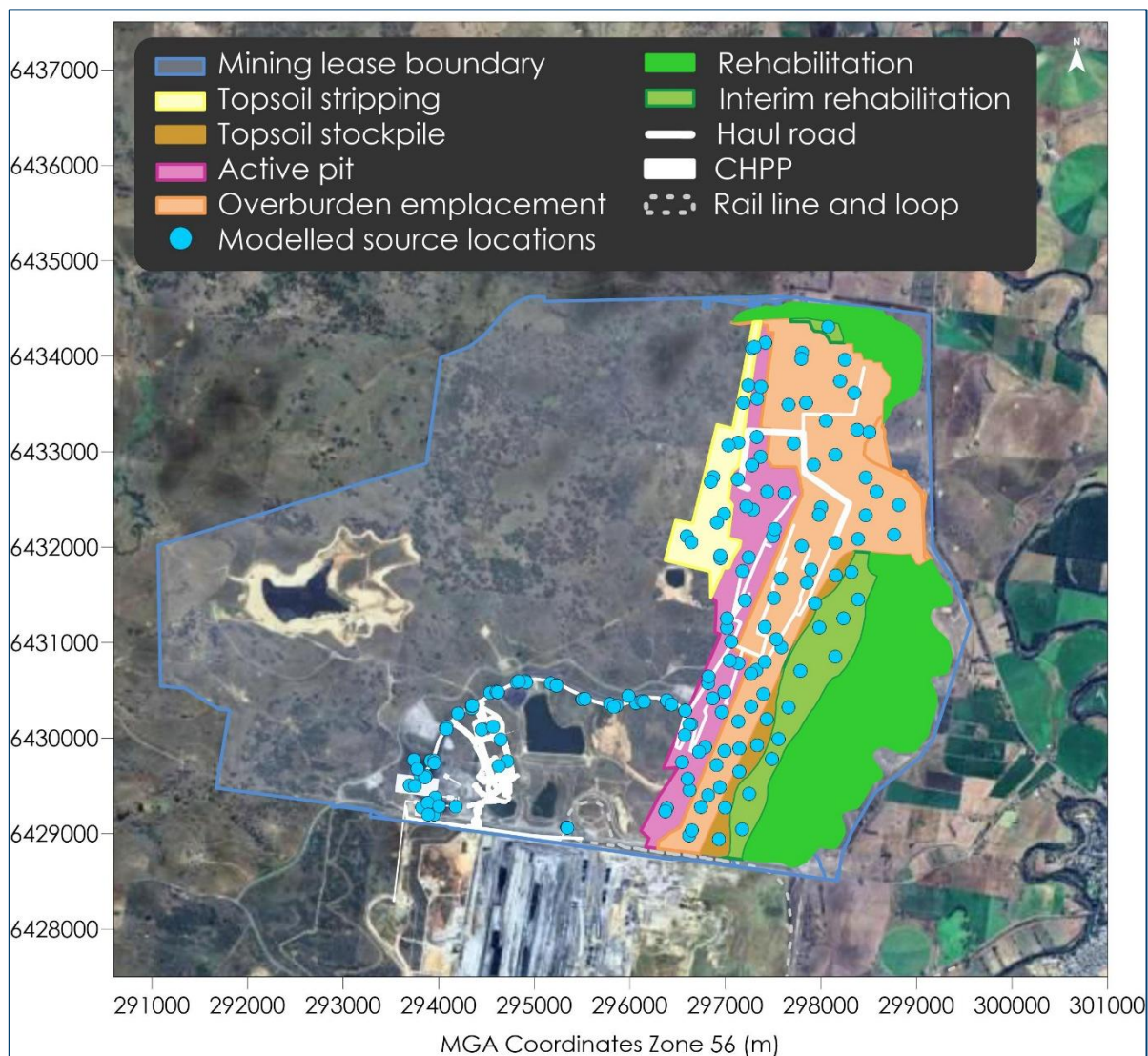


Figure 5-5: Indicative mine plan for Scenario 2

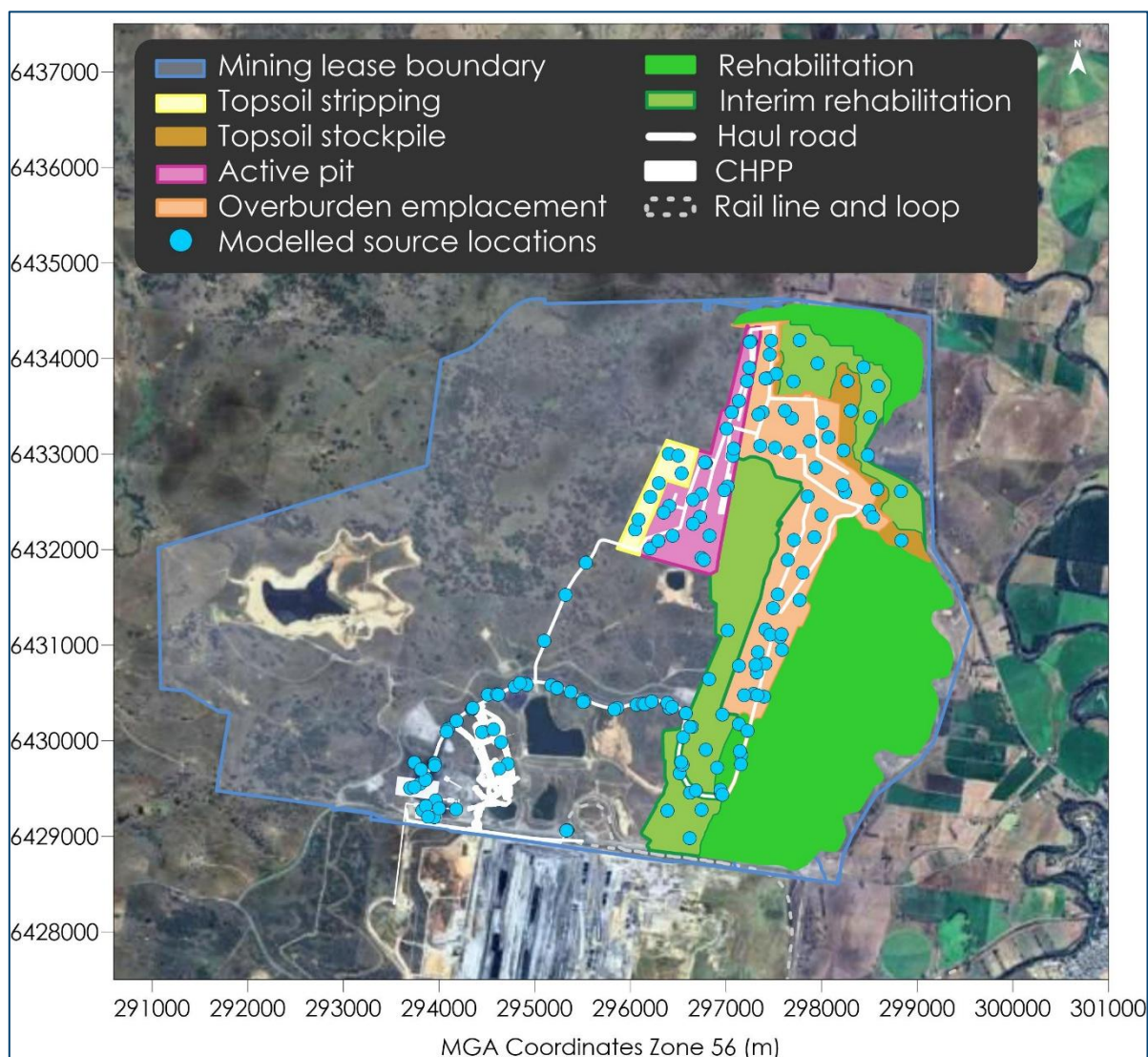


Figure 5-6: Indicative mine plan for Scenario 3

#### 5.4.1 Emission estimation

For each of the chosen modelling scenarios, emission estimates have been calculated by analysing the various types of dust-generating activities taking place and utilising suitable emission factors.

The emission factors were sourced from both locally developed and United States Environmental Protection Agency (US EPA) developed documentation. Total TSP emissions from all significant activities for the Modification are presented in **Table 5-3**. Full emission inventories for TSP, PM<sub>10</sub> and PM<sub>2.5</sub> and associated calculations are presented in **Appendix C**.

The estimated emissions presented in **Table 5-3** are commensurate with a mining operation utilising reasonable and feasible best practice dust mitigation applied where applicable. Further details on the dust control measures applied for the Modification are outlined in **Section 5.5**.

Table 5-3: Estimated emission for the Modification (kg of TSP)

| Activity                                            | Scenario 1 | Scenario 2 | Scenario 3 |
|-----------------------------------------------------|------------|------------|------------|
| N - Topsoil removal with dozer                      | 4,226      | 15,666     | 15,666     |
| N - Excavator loading topsoil to haul truck         | 51         | 846        | 346        |
| N - Hauling topsoil to dump                         | 460        | 6,185      | 3,544      |
| N - Emplacing topsoil at dump                       | 51         | 846        | 346        |
| N - Drilling                                        | 5,377      | 11,702     | 14,028     |
| N - Blasting                                        | 52,447     | 114,140    | 136,831    |
| N - Excavator loading overburden (OB) to haul truck | 62,745     | 145,026    | 170,246    |
| N - Hauling to dump (Day)                           | 257,940    | 486,209    | 799,663    |
| N - Hauling to dump (Night)                         | 287,987    | 578,952    | 887,280    |
| N - Emplacing at dump                               | 62,745     | 145,026    | 170,246    |
| N - Rehandle OB                                     | 6,275      | 14,503     | 17,025     |
| N - Dozers on OB in pit (Day)                       | 33,026     | 71,874     | 86,162     |
| N - Dozers on OB in pit (Night)                     | 39,031     | 84,942     | 101,828    |
| N - Dozers on OB working on OB (Day)                | 33,026     | 71,874     | 86,162     |
| N - Dozers on OB working on OB (Night)              | 39,031     | 84,942     | 101,828    |
| N - Dozers ripping/pushing/clean-up                 | 26,744     | 54,890     | 70,642     |
| N - Loading ROM coal to haul truck                  | 196,521    | 403,348    | 476,727    |
| N - Hauling ROM to hopper (Day)                     | 41,816     | 77,764     | 98,842     |
| N - Hauling ROM to hopper (Night)                   | 49,419     | 91,902     | 116,814    |
| C - Topsoil removal with dozer                      | 11,440     |            |            |
| C - Excavator loading topsoil to haul truck         | 139        |            |            |
| C - Hauling topsoil to dump                         | 1,317      |            |            |
| C - Emplacing topsoil at dump                       | 139        |            |            |
| C - Drilling                                        | 6,226      |            |            |
| C - Blasting                                        | 60,730     |            |            |
| C - Excavator loading OB to haul truck              | 72,655     |            |            |
| C - Hauling to dump (Day)                           | 316,016    |            |            |
| C - Hauling to dump (Night)                         | 383,097    |            |            |
| C - Emplacing at dump                               | 72,655     |            |            |
| C - Rehandle OB                                     | 7,265      |            |            |
| C - Dozers on OB in pit (Day)                       | 38,242     |            |            |
| C - Dozers on OB in pit (Night)                     | 45,195     |            |            |
| C - Dozers on OB working on OB (Day)                | 38,242     |            |            |
| C - Dozers on OB working on OB (Night)              | 45,195     |            |            |
| C - Dozers ripping/pushing/clean-up                 | 27,266     |            |            |
| C - Loading ROM coal to haul truck                  | 200,356    |            |            |
| C - Hauling ROM to hopper (Day)                     | 38,789     |            |            |
| C - Hauling ROM to hopper (Night)                   | 45,842     |            |            |
| S - Drilling                                        | 2,425      | 2,326      |            |
| S - Blasting                                        | 23,653     | 22,691     |            |
| S - Excavator loading OB to haul truck              | 28,297     | 28,831     |            |
| S - Hauling to dump (Day)                           | 183,795    | 145,944    |            |
| S - Hauling to dump (Night)                         | 221,835    | 172,479    |            |
| S - Emplacing at dump                               | 28,297     | 28,831     |            |
| S - Rehandle OB                                     | 2,830      | 2,883      |            |
| S - Dozers on OB in pit (Day)                       | 14,894     | 14,288     |            |
| S - Dozers on OB in pit (Night)                     | 17,602     | 16,886     |            |
| S - Dozers on OB working on OB (Day)                | 14,894     | 14,288     |            |
| S - Dozers on OB working on OB (Night)              | 17,602     | 16,886     |            |
| S - Dozers ripping/pushing/clean-up                 | 16,632     | 15,752     |            |

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| Activity                                         | Scenario 1       | Scenario 2       | Scenario 3       |
|--------------------------------------------------|------------------|------------------|------------------|
| S - Loading ROM coal to haul truck               | 122,218          | 115,747          |                  |
| S - Hauling ROM to hopper (Day)                  | 17,058           | 16,195           |                  |
| S - Hauling ROM to hopper (Night)                | 20,160           | 19,139           |                  |
| CHPP - Unloading ROM to hopper                   | 77,864           | 77,864           | 71,509           |
| CHPP - Rehandle ROM at hopper                    | 103,819          | 103,819          | 95,345           |
| CHPP - Primary crushing                          | 33,750           | 33,750           | 30,995           |
| CHPP - Transfer                                  | 1,010            | 1,010            | 928              |
| CHPP - Conveying to secondary crusher            | 6                | 6                | 6                |
| CHPP - Secondary crushing                        | 33,750           | 33,750           | 30,995           |
| CHPP - Tertiary crushing                         | 33,750           | 33,750           | 30,995           |
| CHPP - Transfer                                  | 1,010            | 1,010            | 928              |
| CHPP - Conveying to 1000t bin                    | 9                | 9                | 9                |
| CHPP - Transfer                                  | 1,010            | 1,010            | 928              |
| CHPP - Conveying to Coal Preparation Plant (CPP) | 5                | 5                | 5                |
| CHPP - Transfer                                  | 524              | 524              | 524              |
| CHPP - Conveying to product stockpile            | 27               | 27               | 27               |
| CHPP - Unloading to product stockpile            | 1,310            | 1,310            | 1,310            |
| CHPP - Transfer                                  | 524              | 524              | 524              |
| CHPP - Conveying to train load-out               | 80               | 80               | 80               |
| CHPP - Loading coal to train                     | 1,747            | 1,747            | 1,747            |
| CHPP - Dozers on ROM stockpiles                  | 70,642           | 70,642           | 70,642           |
| CHPP - Dozers on product stockpiles              | 54,421           | 54,421           | 54,421           |
| OB - Loading reject to haul truck                | 5,326            | 4,923            | 3,538            |
| OB - Hauling reject to dump                      | 58,279           | 53,813           | 39,401           |
| OB - Emplacing reject at dump                    | 5,326            | 4,923            | 3,538            |
| WE - Overburden emplacement areas                | 328,317          | 290,345          | 173,591          |
| WE - Open pit                                    | 157,677          | 195,273          | 97,862           |
| WE - ROM stockpiles                              | 8,395            | 8,395            | 8,395            |
| WE - Product stockpiles                          | 4,324            | 4,324            | 4,324            |
| WE - Topsoil stockpiles                          | 6,935            | 14,068           | 14,192           |
| WE - Initial rehab                               | 45,637           | 45,556           | 104,264          |
| OB - Grading roads                               | 98,374           | 98,374           | 98,374           |
| Diesel mining equipment                          | 5,333            | 5,529            | 4,207            |
| Locomotive idling                                | 515              | 515              | 515              |
| <b>Total emissions (kg/yr)</b>                   | <b>4,481,615</b> | <b>4,235,097</b> | <b>4,298,346</b> |

N – North Pit, C – Central Pit, S – South Pit, WE – wind erosion, kg = kilograms, kg/yr = kilograms per year

#### 5.4.2 Ancillary construction activity

In addition to the mining activity, ancillary construction activities are also proposed to occur which includes bulk earthworks. These include the construction of a mine water dam (MWD2) and raises to the existing Fines Emplacement Area (FEA) at the site (Stages 4 and 5). Construction activities associated with MWD2 and an FEA embankment raise have been included in Scenario 1 and Scenario 2, respectively.





Total TSP emissions from the MWD2 and FEA embankment raise construction activities are presented in **Table 5-4**. Full emission inventories for TSP, PM<sub>10</sub> and PM<sub>2.5</sub> and associated calculations are presented in **Appendix C**. The estimated emissions presented in **Table 5-4** include utilising physical dust mitigation applied where applicable for the construction activities.

**Table 5-4: Estimated emissions for the ancillary construction activities (kg of TSP)**

| Activity                          | Scenario 1 | Scenario 2 | Scenario 3 |
|-----------------------------------|------------|------------|------------|
| MWD2 Construction                 | 177,849    | -          | -          |
| FEA Embankment Raise Construction | -          | 416,049    | -          |

Completion of construction of the Northern Link Road would occur within 2026. The earthworks associated with the Northern Link Road realignment are not expected to be as significant as the MWD2 and FEA embankment raise construction activities and would generate less dust. Additionally, accurately quantifying the total amount of dust from the Northern Link Road realignment construction activity would be difficult on any given day due to the short sporadic periods of dust generating activity which may occur over the construction timeframe. Given that these activities would occur for a limited period, no significant or prolonged effect at any off-site receptor are predicted to arise. To ensure dust generation is adequately controlled during the construction of the Northern Link Road realignment and the potential for off-site impacts is reduced, appropriate operational and physical mitigation measures should be implemented as necessary.

#### 5.4.3 Haul road silt sensitivity analysis

Site specific haul road silt samples were collected on the main haul roads at the Mount Pleasant Operation between individual coal-truck pass-bys on an active, in-use road. These samples represent the closest practical measurement of the actual silt content on an operational haul road.

The samples were analysed by Port Hunter Environmental (pHE) in accordance with the US EPA methodology in AP-42. The silt fraction (particles smaller than 75µm in diameter) was determined by measuring the proportion of loose, dry surface material passing a 200-mesh screen using the ASTM C-136 method.

The result indicate silt contents ranged from 0.5% to 0.76%, with an average of 0.66%, which is consistent with a well-managed haul road surface. This is significantly lower than the adopted value of 2%, which has been used in previous assessments for the site and remains representative of a well-managed haul road.

Publicly available silt data for haul roads at the Bengalla Mine and Mt Arthur Coal Mine, two similar large scale coal mines located in close proximity to the Mount Pleasant Operation, show average silt contents of 1.6% for Mt Arthur, and 2.6% for both mines combined. Excluding one outlier measurement (6.3% at Bengalla), the combined average is 2.16%.

A sensitivity analysis assuming a haul road silt content of 3% for the Modification has been conducted to understand the sensitivity of predictions to silt content assumptions. **Table 5-5** presents a comparison of the estimated TSP emissions for the Modification for Scenario 1 with a haul road silt content of 2% and assuming a haul road silt content of 3%. Applying a haul road silt content of 3% results in an increase of approximately 14% for the different modelling scenario.

Modelling sensitivity of this scenario is conducted to determine the potential change in impacts.

**Table 5-5: Comparison of estimated TSP emissions for the Modification applying different haul road silt content**

| Scenario                                              | Estimated TSP emissions (kg/year) | Change in TSP emissions |
|-------------------------------------------------------|-----------------------------------|-------------------------|
| Scenario 1 (with 2% silt content)                     | 4,481,615                         |                         |
| Scenario 1 with 3% silt content applied to haul roads | 5,113,011                         | 14%                     |

#### 5.4.4 Emissions from other mining operations

In addition to the estimated dust emissions from the Modification, emissions from all nearby approved mining operations were also modelled in accordance with their current consent (or current proposed project), to assess potential cumulative dust effects.

Emissions estimates from these sources were derived from information provided in the air quality assessments available in the public domain at the time of modelling. These estimates are likely to be conservative, as in many cases, mines do not continually operate at the maximum extraction rates assessed in their respective environmental assessments. This is evident when examining Annual Reviews for coal mines in the Hunter Valley that show that the mines' actual rates of activity are generally below the approved level of activity.

**Table 5-6** summarises the emissions adopted in this assessment for each nearby mining operation.

**Table 5-6: Estimated emissions from nearby mining operations (kg of TSP)**

| Operation                             | Scenario 1 | Scenario 2 | Scenario 3 |
|---------------------------------------|------------|------------|------------|
| Bengalla Mine <sup>(1)</sup>          | 8,598,794  | 8,838,957  | 9,057,226  |
| Mt Arthur Coal Mine <sup>(2)(7)</sup> | 12,421,910 | 12,421,910 | 11,864,280 |
| Mangoola Coal <sup>(3)</sup>          | 3,506,849  | 3,427,659  | 2,720,561  |
| Maxwell Project <sup>(4)</sup>        | 353,825    | 353,825    | 353,825    |
| Muswellbrook Coal Mine <sup>(5)</sup> | 968,910    | 968,910    | 968,910    |
| Dartbrook Mine <sup>(6)</sup>         | 390,111    | 390,111    | 390,111    |

<sup>(1)</sup> Todoroski Air Sciences (2013) <sup>(2)</sup> PAEHolmes (2013) <sup>(3)</sup> Jacobs (2019) <sup>(4)</sup> Todoroski Air Sciences (2019) <sup>(5)</sup> Todoroski Air Sciences (2016) <sup>(6)</sup> Pacific Environment Limited (2018) <sup>(7)</sup> Todoroski Air Sciences (2023).

It is also noted that current consents for some mining operations would expire during the Modification period. The approved/ proposed period of mining for each of the nearby mining operations is outlined in **Table 5-7**.

For the purpose of this assessment and to determine the potential worst-case cumulative dust effects, it has been assumed all of these operations continue until the end of the Modification period. This adds considerable conservatism to the model predictions for cumulative impacts.

**Table 5-7: Extent of approved/ proposed mining period for nearby mining operations**

| Operation                | Extent of approved/ proposed mining |
|--------------------------|-------------------------------------|
| Bengalla Mine            | February 2039                       |
| Mt Arthur Coal Mine      | June 2030                           |
| Mangoola Coal            | 2030                                |
| Maxwell Underground Mine | June 2047 (commenced in 2022)       |
| Muswellbrook Coal Mine   | December 2022                       |
| Dartbrook Mine           | December 2027                       |

The emission estimates for Mt Arthur Coal Mine were adjusted to account for the different meteorological conditions in this assessment compared with the conditions applied in the original assessment. The methodology applied is identical to the methodology applied in the *Cumulative Impact Assessment Mt Arthur, Bengalla and Mangoola Coal Mines* (**Todoroski Air Sciences, 2014**), a study commissioned by the Department of Planning and Infrastructure.

The adjustments made relate to a subset of the emission sources that use emission estimation equations sensitive to wind speed, such as wind erosion and the loading and emplacing of material. For these emission sources, more dust would be produced if there is a higher wind speed.

The *Cumulative Impact Assessment Mt Arthur, Bengalla and Mangoola Coal Mines* (**Todoroski Air Sciences, 2014**) identified that the *Air Quality and Greenhouse Gas Assessment Mt Arthur Coal Open Cut Modification* (**PAEHolmes, 2013**) used meteorological data collected from a monitoring station on elevated terrain (a hill). The monitoring station therefore recorded excessively high wind speeds that were not representative of the actual wind conditions in the vicinity of the emission sources at the Mt Arthur Coal Mine. Using wind speeds that correspond to those experienced at the emission source has been shown to produce more accurate dispersion predictions.

When the wind-sensitive sources were adjusted as part of the *Cumulative Impact Assessment Mt Arthur, Bengalla and Mangoola Coal Mines* (**Todoroski Air Sciences, 2014**), the dispersion modelling results correlated exceptionally well with the measured air quality data, verifying that using more representative wind speed data in the emissions calculations is necessary for an accurate assessment.

In addition to the emissions from nearby mining operations, there would be numerous smaller or more distant sources that contribute to the total background dust level. Modelling of these sources explicitly is impractical; however, the residual level of dust due to all other such non-modelled sources has been included in the cumulative results.

## 5.5 Dust mitigation and management

Consideration has been made of the possible range of mitigation measures that can be applied for the Modification.

The measures applied are commensurate with those for the approved Mount Pleasant Operation, and outlined in the NSW EPA document, *NSW Coal Mining Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining*, prepared by Katestone Environmental Pty Ltd (**Katestone Environmental, 2011**).

A summary of the key dust controls for the approved Mount Pleasant Operation, which would continue to be applied, is shown in **Table 5-8**. Where applicable these controls have been applied in the dust emission estimates shown in **Table 5-3**. Further specific detail on the level of control applied is set out in **Appendix C**.

Table 5-8: Dust mitigation measures applied at the Mount Pleasant Operation

| Activity                               | Dust control                                                                                                                           |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Drilling                               | Use of water (i.e. wet suppression) to minimise dust emissions.                                                                        |
| Loading/ emplacing overburden material | Minimise fall height of materials where practicable.                                                                                   |
| Hauling on unsealed surfaces           | Application of water and regular maintenance of unsealed surfaces.                                                                     |
| Dozer activity                         | Keep travel routes and work areas moist.                                                                                               |
| Unloading ROM to hopper at CHPP        | Three-sided enclosure and activation fogging sprays during unloading process.                                                          |
| Conveyors and transfers                | Enclosures for conveyors and transfer points with application of water sprays at transfer points.                                      |
| Stacking coal to stockpiles            | Luffing stacker to reduce fall height of materials at stockpiles.                                                                      |
| Wind erosion on stockpiles             | Water application to stabilise surface of stockpile and vegetative wind breaks to reduce wind speed over surface of stockpile.         |
| Wind erosion of exposed surfaces       | Water application to stabilise surface of inactive exposed surfaces and primary rehabilitation on areas inactive for extended periods. |

In addition to the physical mitigation measures described above, reactive operational dust mitigation strategies and management measures would be implemented per the EPL conditions, to minimise potential for dust impacts during mining operations in the surrounding environment.

Reactive dust mitigation strategies include high dust concentration alarms to alert staff of the potential for dust impacts to arise based on a rolling 24-hour average level (which is updated on an hourly basis). High dust concentration alarms trigger the implementation of dust management actions that appropriately modify any mining activities depending on weather conditions. Alarm triggers are set on a range of time intervals to ensure excessive dust levels due to the operations do not occur.

The actions can include temporarily ceasing the on-site operations causing levels at dust monitors to reach the criterion level, or ceasing operations that are likely to have a significant off-site impact due to adverse weather conditions. For example, the reactive dust mitigation strategies would also incorporate the condition outlined in EPL 20850 requiring all dust-generating activities to cease during specific adverse conditions.

A predictive system is also utilised to supplement the reactive operational dust mitigation strategies. This system provides daily forecast meteorological and dust dispersion predictions which allows the mine operators to make proactive operational adjustments and allow for the prospect of averting any triggering of the reactive controls due to excessive dust levels.

Further detail regarding the reactive operational dust mitigation strategies and management measures and the predictive system are outlined in the *Mount Pleasant Operation Air Quality and Greenhouse Gas Management Plan* (MACH, 2019).

## 5.6 Accounting for background dust levels

To account for the contribution from other non-mining sources of particulate matter in the wider area, an allowance has been added to the modelling predictions to fully assess the total potential impact.

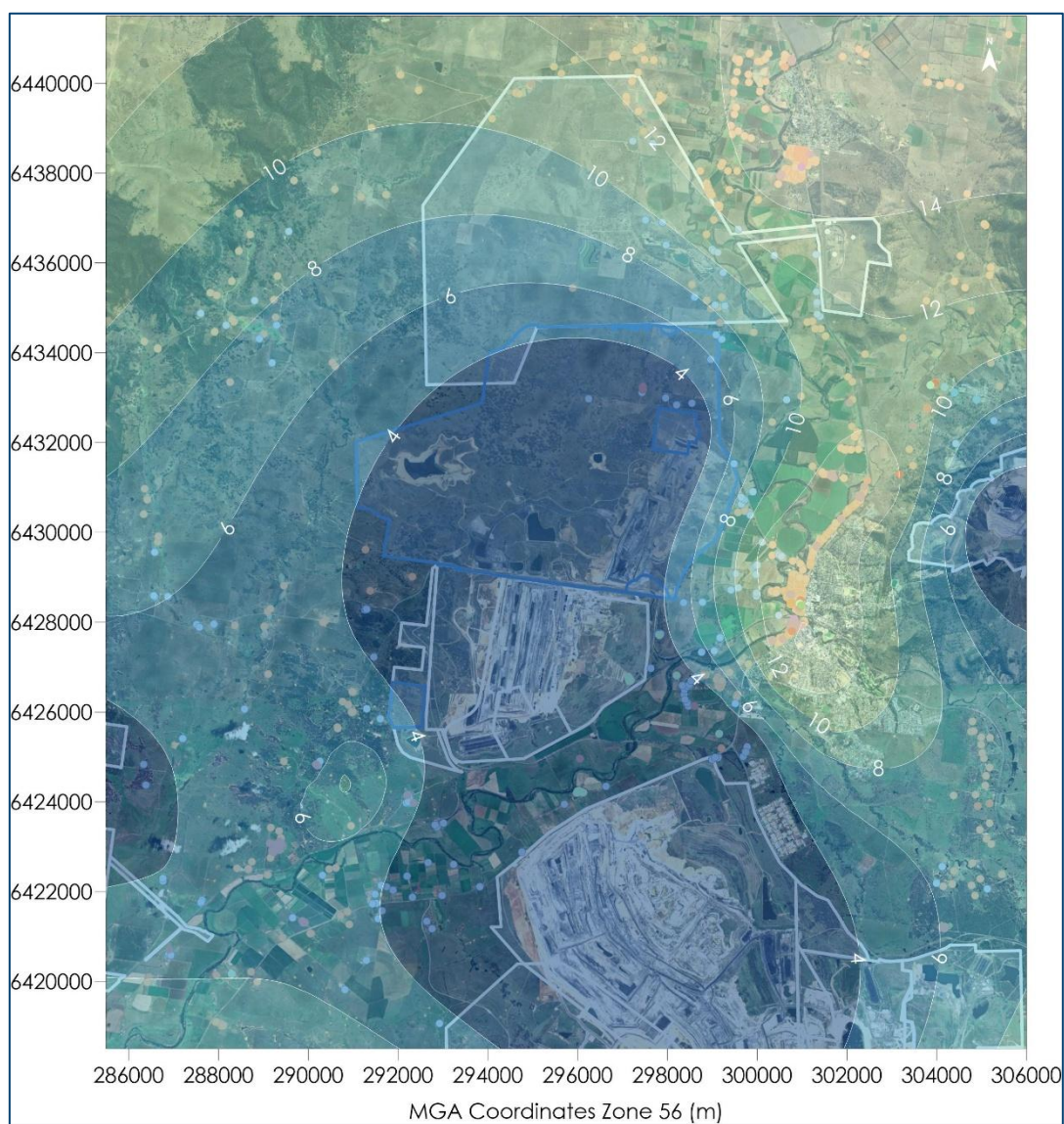
The contribution to the prevailing annual average background dust level of other non-modelled dust sources was estimated by modelling the past (known) mining activities (including Bengalla Mine, Mt Arthur Coal Mine, Mangoola Coal, MCM and the former Drayton Mine [now Maxwell Infrastructure]) during 2012 to 2015 and comparing model predictions with the actual measured data from the corresponding monitoring stations.





The average difference between the measured and predicted  $PM_{10}$ , TSP and deposited dust levels from each of the monitoring points was considered to be the contribution from other non-modelled dust sources, and was added to the future predicted values to account for the background dust levels (not explicitly in the model and arising from numerous small or distant, non-modelled dust sources).

Due to the high density of available  $PM_{10}$  monitors in the central area of the modelling domain, and the presence of Muswellbrook, a large but unmodelled source of emissions, it is possible to apply various spatially varying background levels to account for the variation in the background dust level in the central modelling domain. This provides a more realistic representation of background dust levels in this area than adding a constant level across the domain. **Figure 5-7** presents the spatially varying background levels for  $PM_{10}$  applied in the assessment.



**Figure 5-7: Spatially varying background level (due to non-modelled sources) for  $PM_{10}$**

Local anthropogenic sources occurring during the colder months, i.e. wood heater emissions (**Todoroski Air Sciences, 2014**), appear to be significantly influencing  $PM_{2.5}$  levels at the UHAQMN Muswellbrook monitor and, to a lesser extent, the Mount Pleasant Operation Palas Fidas monitors

A-PF2, A-PF4 and A-PF5. As such, the PM<sub>2.5</sub> contribution from non-modelled dust sources has been sourced from the cumulative impact assessment of Mt Arthur Coal Mine, Bengalla Mine and Mangoola Coal (**Todoroski Air Sciences, 2014**) based on monitoring data from other stations less influenced by wood heater emissions.

Thus, the annual average PM<sub>2.5</sub> level taken to account for non-modelled other sources applied in this assessment is 2.9µg/m<sup>3</sup>. Using this level in the assessment would not represent the already elevated levels recorded within Muswellbrook, but may reasonably represent the levels at the nearest, potentially most-affected locations around the Mount Pleasant Operation which are of primary relevance to the assessment.

For those receivers located close to the edge of Muswellbrook, a separate analysis of cumulative annual average PM<sub>2.5</sub> levels has been considered based on the measured levels in Muswellbrook. The measured annual average PM<sub>2.5</sub> level at the Muswellbrook monitor during 2015 was 8.7µg/m<sup>3</sup> (**Table 5-5**). As noted, the ambient PM<sub>2.5</sub> levels would be governed by non-mining background sources such as wood heaters (as evidenced by the wintertime peak), which would be more concentrated in the vicinity of the Muswellbrook monitor than at the edge of Muswellbrook. The *Upper Hunter Valley Particle Characterization Study* (**Commonwealth Scientific and Industrial Research Organisation, 2013**) identified the composition of PM<sub>2.5</sub> in Muswellbrook to be comprised of 30% wood smoke. Excluding the contribution of wood smoke from the measured annual average level provides an estimated background level of 6.1µg/m<sup>3</sup>. It is noted this level is consistent with annual average background levels recorded at APF2, the Mount Pleasant Operation monitor located on the outskirts of Muswellbrook, in years not heavily influenced by bushfires (**Table 5-6**). After removing the contribution from modelled sources, the estimated contribution from non-modelled dust sources at the edge of Muswellbrook would be approximately 5.4µg/m<sup>3</sup>. This background annual average PM<sub>2.5</sub> level is therefore considered representative of background at the edge of Muswellbrook (i.e. within approximately 700m of built-up areas in Muswellbrook, from Dalwood Place in the south to Lonhro Place in the north) and has been applied for modelled receivers located close to the edge of Muswellbrook to determine potential cumulative annual average PM<sub>2.5</sub> impacts.

The estimated annual average contribution from other non-modelled dust sources applied in the assessment is presented in **Table 5-9**.

**Table 5-9: Estimated contribution from other non-modelled dust sources**

| Dust metric                              | Averaging period | Unit                    | Estimated contribution |
|------------------------------------------|------------------|-------------------------|------------------------|
| TSP                                      | Annual           | µg/m <sup>3</sup>       | 34.8                   |
| PM <sub>10</sub>                         | Annual           | µg/m <sup>3</sup>       | Variable grid          |
| PM <sub>2.5</sub>                        | Annual           | µg/m <sup>3</sup>       | 2.9                    |
| PM <sub>2.5</sub> (edge of Muswellbrook) | Annual           | µg/m <sup>3</sup>       | 5.4                    |
| Dust deposition                          | Annual           | g/m <sup>2</sup> /month | 1.9                    |

It is important that the above values are not confused with measured background levels, background levels excluding only the Mount Pleasant Operation, or the change in existing levels as a result of the Modification. The values above are not background levels in that sense, but are the residual amount of the background dust that is not accounted for directly in the air dispersion modelling of the Modification and other local mining operations.

## 6 DISPERSION MODELLING RESULTS

The dispersion modelling predictions for each of the assessed scenarios are presented in this section. The results presented include those for the operation in isolation (incremental impact) and the operation with other sources and background levels (total [cumulative] impact).

Each of the receivers of relevance to this study shown in **Figure 2-1** and detailed in **Appendix A**, were assessed individually as discrete receptors with the predicted results presented in tabular form for each of the assessed years in **Appendix D**. Associated isopleth diagrams of the dispersion modelling results are presented in **Appendix E**.

### 6.1 Summary of modelling results

The modelling results indicate that incremental impacts for privately-owned receptors would be below the applicable criteria for 24-hour average PM<sub>2.5</sub>, PM<sub>10</sub> and annual average dust deposition in each scenario. Some cumulative annual average impacts are predicted to arise and are discussed in detail below.

#### 6.1.1 Cumulative annual average impacts

The predicted cumulative impacts considering the extent of the approved/ proposed period of mining for each of the nearby mining operations (refer to **Table 5-7**) are summarised in **Table 6-1**.

- ✦ Two receptors (Receptors 43 and 249) are predicted to experience cumulative annual average PM<sub>10</sub> levels above 25µg/m<sup>3</sup> irrespective of the Modification. Receptor 43 is predicted to exceed 25µg/m<sup>3</sup> in all three modelling scenarios while Receptor 249 is predicted to exceed 25µg/m<sup>3</sup> in Scenario 3 only. We note that Receptor 43 is already afforded acquisition rights under both Development Consent DA 92/97 and Development Consent SSD 5170 for Bengalla Mine. We also note that Receptor 249 is afforded acquisition rights under MP 09\_0062 for Mt Arthur Coal Mine (for air quality) and Development Consent SSD 5170 for Bengalla Mine (for noise only).
- ✦ One receptor (Receptor 43) is predicted to also experience cumulative annual average TSP levels above the 90µg/m<sup>3</sup> amenity criteria in all three modelling scenarios. As noted above, Receptor 43 is already afforded acquisition rights under both Development Consent DA 92/97 and Development Consent SSD 5170 for Bengalla Mine.

All the predicted cumulative annual average PM<sub>10</sub> exceedances would occur due to background PM<sub>10</sub> levels and other nearby mining activities (i.e. in the absence of the Modification) (**Table 6-1**). The results in **Table 6-1** also indicate the Modification is predicted to contribute approximately 1.3% to 3.9% to the predicted cumulative level at the receptors that are predicted to experience exceedances of the relevant cumulative criteria. The Bengalla Mine and Mt Arthur Coal Mine are predicted to be the largest contributors to the receptors that are predicted to experience exceedances of the relevant cumulative criteria, with Bengalla Mine contributing approximately 70% to 80% to the predicted cumulative level at Receptor 43 and Mt Arthur Coal contributing approximately 71% to the predicted cumulative level at Receptor 249.

Given the PM<sub>10</sub> predicted cumulative exceedances would occur with or without the Modification at each receiver, it is considered that the Modification would not contribute to an exceedance of the relevant cumulative annual average PM<sub>10</sub> criteria at any of the receivers.

It is also noted that Receptor 43 is above or within approximately one microgram of the cumulative TSP (amenity) criteria without the Modification, with the Modification contributing 1% to 4% of the cumulative TSP level at this receptor, depending on the scenario.

**Table 6-1: Summary of modelling results where residential receptors are predicted to exceed criteria ( $\mu\text{g}/\text{m}^3$ )**

| Dust metric       | Receptor ID | Other mines + background ( $\mu\text{g}/\text{m}^3$ ) | Modification-only annual ave. ( $\mu\text{g}/\text{m}^3$ ) | Cumulative annual ave. ( $\mu\text{g}/\text{m}^3$ ) | Criteria ( $\mu\text{g}/\text{m}^3$ ) |
|-------------------|-------------|-------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|
| <b>Scenario 1</b> |             |                                                       |                                                            |                                                     |                                       |
| PM <sub>10</sub>  | 43          | 40.7                                                  | 1.7                                                        | 42.4                                                | <b>25</b>                             |
| TSP               | 43          | 89.4                                                  | 3.5                                                        | 92.9                                                | <b>90</b>                             |
| <b>Scenario 2</b> |             |                                                       |                                                            |                                                     |                                       |
| PM <sub>10</sub>  | 43          | 40.2                                                  | 1.2                                                        | 41.4                                                | <b>25</b>                             |
| TSP               | 43          | 89.0                                                  | 2.4                                                        | 91.3                                                | <b>90</b>                             |
| <b>Scenario 3</b> |             |                                                       |                                                            |                                                     |                                       |
| PM <sub>10</sub>  | 43          | 48.8                                                  | 0.7                                                        | 49.5                                                | <b>25</b>                             |
|                   | 249         | 25.9                                                  | 0.2                                                        | 26.1                                                | <b>25</b>                             |
| TSP               | 43          | 99.6                                                  | 1.3                                                        | 100.9                                               | <b>90</b>                             |

### 6.1.2 Other assessed receptors

The modelling results also indicate predicted levels would exceed relevant assessment criteria at several mine-owned properties surrounding the Modification. The predicted levels are detailed in **Appendix D**.

Several commercial premises located within the Modification boundary and located to the south of Bengalla Mine and north of Mt Arthur Coal Mine are also predicted to exceed relevant assessment criteria. It is anticipated the commercial premises located within the Modification boundary would cease to operate in the future as these are positioned in the path of the mining progression.

Heritage properties are also predicted to exceed the relevant assessment criteria. A number of these are located to the south of Bengalla Mine and north of Mt Arthur Coal Mine and are not significantly affected by the Modification.

A review of the *Bengalla Mine Historic Heritage Management Plan* (**Bengalla Mining Company, 2017**) indicates these properties are of local significance, are known to have potential dust impacts and are not inhabited. Further, mitigation and management measures are in place for these properties (**Bengalla Mining Company, 2017**).

## 6.2 Assessment of 24-hour average PM<sub>2.5</sub> and PM<sub>10</sub> concentrations

It is important to note that when assessing impacts per the maximum 24-hour average PM<sub>2.5</sub> and PM<sub>10</sub> criteria, the predictions show the highest predicted 24-hour average concentrations that were modelled at each point within the modelling domain for the worst day (a 24-hour period). When assessing the total (cumulative) 24-hour average impacts based on model predictions, challenges arise with identification and quantification of emissions from non-modelled sources over the 365 separate 24-hour periods modelled in the year.

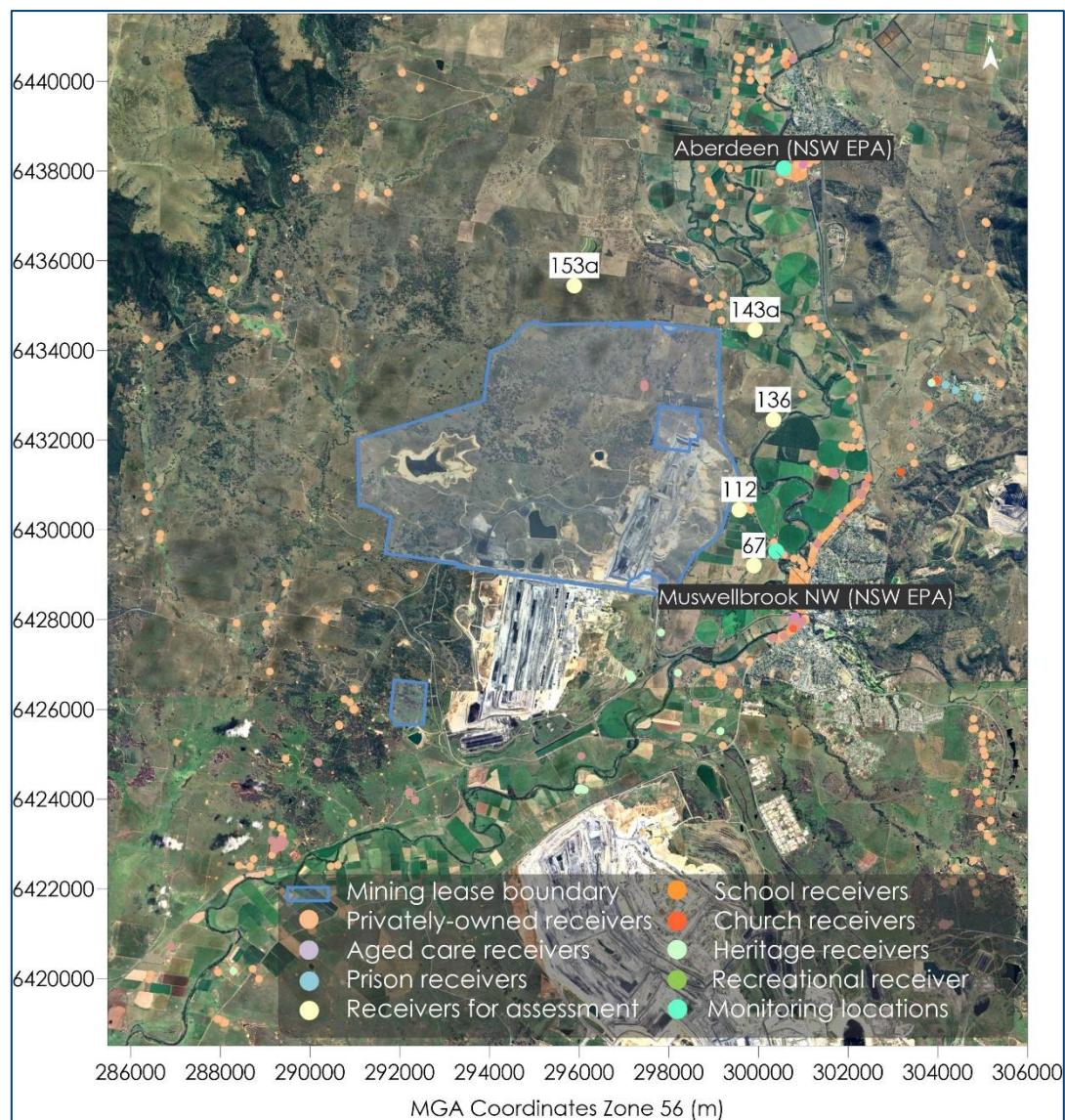
Due to these factors, an assessment of cumulative 24-hour average PM<sub>2.5</sub> and PM<sub>10</sub> impacts was undertaken in accordance with Section 11.2 of the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA, 2022**). The "Level 2 assessment - Contemporaneous impact and background approach" was applied to assess potential impacts.



The analysis has focussed on the privately-owned receivers at which the data required to conduct this assessment are available, and represent the closest and most likely impacted privately-owned receiver locations surrounding the Modification.

There are three surrounding PM<sub>10</sub> monitoring stations which are part of the UHAQMN where suitable ambient monitoring data are available (note contemporaneous data was not available from the Mount Pleasant Operation Palas Fidas monitors). Only the Muswellbrook PM<sub>2.5</sub> monitoring station, which is part of the UHAQMN, has PM<sub>2.5</sub> data available for use in this assessment. The assessment of cumulative impacts uses the monitoring data from the closest monitor. For the privately-owned receivers located to the west of the Modification, it has been assumed the measured levels at Aberdeen best represent the background levels experienced at these locations.

**Figure 6-1** shows the location of each of these monitors in relation to the Modification and assessed receiver locations.



**Figure 6-1: Locations available for contemporaneous cumulative impact assessment**

### 6.2.1 Impacts without implementation of predictive/ reactive measures.

**Table 6-2** provides a summary of the contemporaneous assessment at each assessed receiver location. The results in **Table 6-2** indicate that for the assessed sensitive receptors, potential cumulative 24-hour average PM<sub>2.5</sub> and PM<sub>10</sub> impacts may occur without proactive/ reactive mitigation.

Detailed tables of the full assessment results are provided in **Appendix F** and **Appendix G**.

**Table 6-2: NSW EPA contemporaneous assessment - maximum number of additional days in a year above 24-hour average criterion depending on background level at monitoring sites**

| Receptor ID | Scenario 1                 | Scenario 2 | Scenario 3 |
|-------------|----------------------------|------------|------------|
|             | PM <sub>2.5</sub> analysis |            |            |
| 67          | 2                          | 2          | 2          |
| 112         | 6                          | 6          | 2          |
| 136         | 1                          | 0          | 1          |
| 143a        | 1                          | 1          | 1          |
| 153a        | 1                          | 1          | 4          |
|             | PM <sub>10</sub> analysis  |            |            |
|             | Scenario 1                 | Scenario 2 | Scenario 3 |
| 67          | 1                          | 0          | 0          |
| 112         | 1                          | 1          | 0          |
| 136         | 0                          | 1          | 1          |
| 143a        | 0                          | 0          | 0          |
| 153a        | 1                          | 1          | 4          |

Further analysis of the predicted cumulative PM<sub>10</sub> and PM<sub>2.5</sub> impacts at Receptor 153a (where some exceedances are predicted without the implementation of predictive/ reactive measures) is presented in **Figure 6-2**. The figure shows time series plots of the 24-hour average concentrations predicted to be experienced as a result of the Mount Pleasant Operation incorporating the Modification. The blue bars represent the existing ambient background level at the monitoring location and the orange bars represent the predicted incremental contribution due to the Modification.

### 6.2.2 Impacts with adoption of predictive/ reactive measures

To demonstrate the effectiveness of the implementation of predictive/ reactive measures at the Modification, the dispersion modelling was re-run to consider the effects of temporarily pausing activities in the pit and overburden areas during periods of elevated dust. These periods tend to occur under similar conditions per the real-time response trigger levels in *Mount Pleasant Operation Air Quality and Greenhouse Gas Management Plan (MACH, 2019)* for the different locations assessed.

Only the activities that can be controlled in the pit and overburden areas were ceased in the model, and dust from other sources such as wind erosion was still assumed for the purpose of the revised modelling.

**Table 6-3** outlines the maximum number of additional days in a year predicted to exceed the 24-hour criterion with the implementation of reactive measures.

**Table 6-3: Number of additional days in a year above 24-hour average criterion on background level at monitoring sites with implementation of reactive measures**

| Receptor ID | Scenario 1                 | Scenario 2 | Scenario 3 |
|-------------|----------------------------|------------|------------|
|             | PM <sub>2.5</sub> analysis |            |            |
| 67          | 0                          | 0          | 0          |
| 118         | 0                          | 0          | 0          |
| 136         | 0                          | 0          | 0          |
| 143a        | 0                          | 0          | 0          |
| 153a        | 0                          | 0          | 0          |
|             | PM <sub>10</sub> analysis  |            |            |
|             |                            |            |            |
| 67          | 0                          | 0          | 0          |
| 118         | 0                          | 0          | 0          |
| 136         | 0                          | 0          | 0          |
| 143a        | 0                          | 0          | 0          |
| 153a        | 0                          | 0          | 0          |

The results indicate that all of the predicted additional exceedance days due to the Modification can be prevented using the reactive controls.

Analysis of the predicted cumulative PM<sub>10</sub> and PM<sub>2.5</sub> impacts at Receptor 153a, with the adoption of predictive/ reactive mitigation measures, is presented in **Figure 6-3**.

Overall, the reactive controls would be effective at reducing the incremental contribution of the Modification to cumulative levels.

While the modelling methodology is inherently conservative, the effectiveness of these measures would be further enhanced on a case-by-case basis as required.

Enhancements include using the real-time/ predictive management system for pre-planning of temporary cessation of dust-generating activities, increased watering or re-scheduling of certain activities. Through such measures, the potential impacts in the surrounding environment could be further minimised.

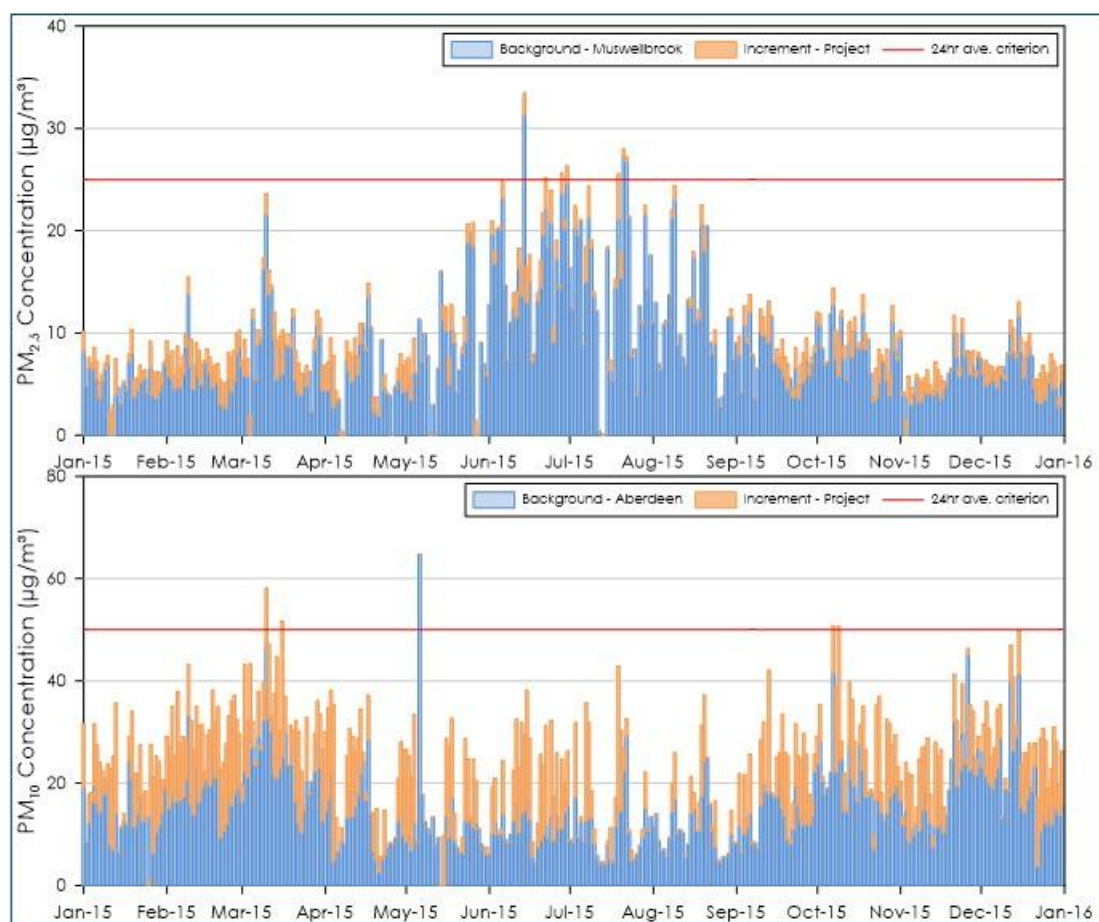


Figure 6-2: Predicted 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> concentrations for receptor location 153a during Scenario 3 (without predictive/ reactive mitigation)



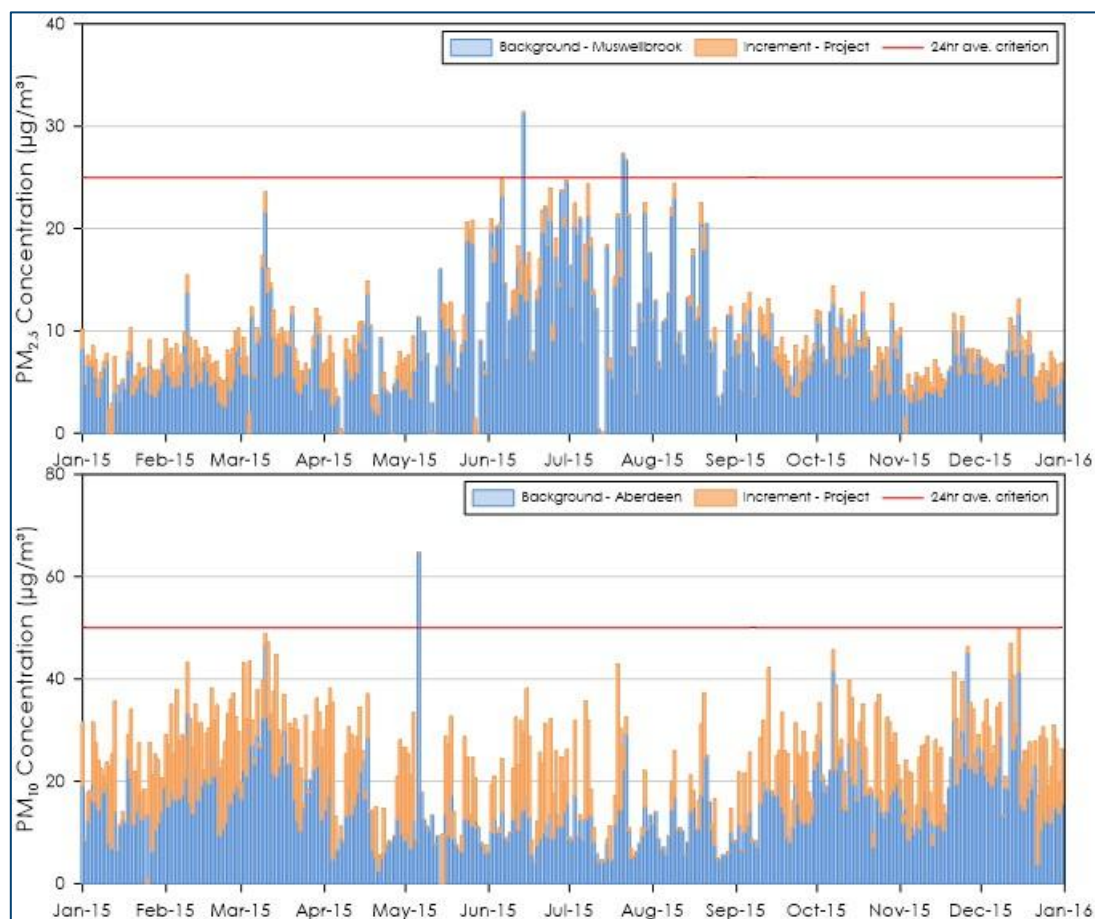


Figure 6-3: Predicted 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> concentrations for receptor location 153a during Scenario 3 (with predictive/ reactive mitigation)

### 6.3 Dust impacts on more than 25 per cent of privately-owned land

The potential impacts due to the Modification, extending over more than 25% of any privately-owned land, have been evaluated using the predicted pollutant dispersion contours.

The 6<sup>th</sup> highest 24-hour average PM<sub>10</sub> levels were found to have the greatest extent of any of the other assessed dust metrics relevant to the application of acquisition upon request rights on vacant land in accordance with the VLAMP. **Figure 6-4** presents the extent of the 6<sup>th</sup> highest 24-hour average PM<sub>10</sub> level (50µg/m<sup>3</sup>) due to the Modification in isolation. The 6<sup>th</sup> highest 24-hour average PM<sub>10</sub> levels accounts for five exceedances (i.e. five days) above the criteria, consistent with the VLAMP.

The isopleth in **Figure 6-4** indicates one vacant privately-owned land parcel to the north of the mining boundary would be considered air quality-affected, namely parcel 143e. It is noted this land parcel currently has acquisition upon request rights for noise impacts in Development Consent DA 92/97.

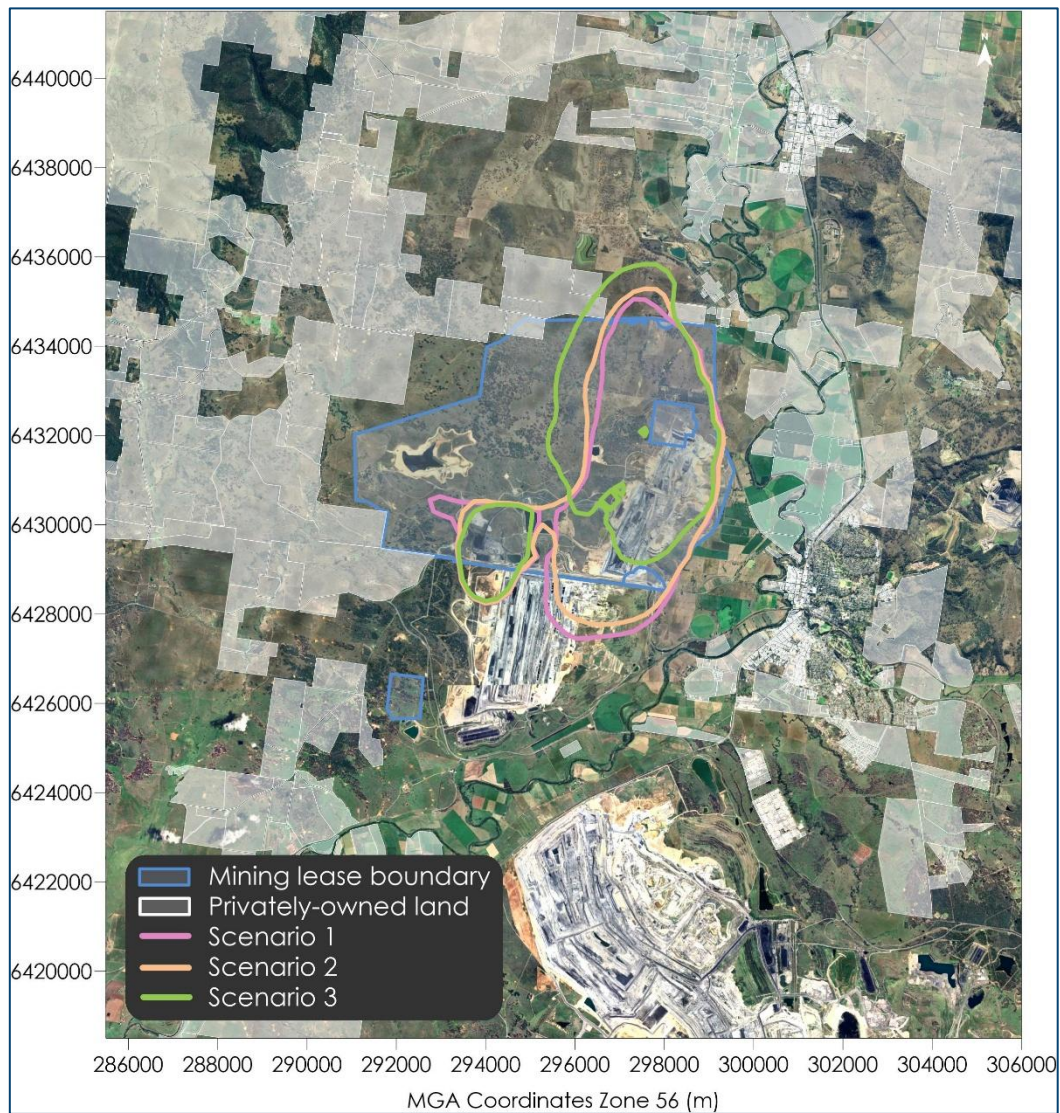


Figure 6-4: Predicted 6<sup>th</sup> highest 24-hour average PM<sub>10</sub> level for all scenarios

## 6.4 Sensitivity analysis

The sensitivity analysis for haul road silt focuses on selected privately-owned receivers positioned to the east of the Modification, and most likely to be impacted by dust.

The dispersion modelling results showing the predicted annual average PM<sub>2.5</sub> and PM<sub>10</sub> concentrations assuming a haul road silt content of 3% are summarised in **Table 6-4**, for Scenario 1. The results indicate that the Modification would not result in an exceedance of the annual average PM<sub>2.5</sub> and PM<sub>10</sub> criteria with this tested by a 50% increase in the haul road silt content.

**Table 6-4: Summary of predicted annual average PM<sub>2.5</sub> and PM<sub>10</sub> impacts with haul road silt content of 3% for Scenario 1**

| Receptor ID      | Annual average PM <sub>2.5</sub> (µg/m³) |            | Annual average PM <sub>10</sub> (µg/m³) |            |
|------------------|------------------------------------------|------------|-----------------------------------------|------------|
|                  | Incremental                              | Cumulative | Incremental                             | Cumulative |
| 67               | 1.1                                      | 4.0        | 6.4                                     | 18.0       |
| 112              | 1.5                                      | 4.4        | 8.9                                     | 18.1       |
| 136              | 0.7                                      | 3.6        | 4.4                                     | 13.2       |
| 143a             | 0.4                                      | 3.3        | 2.3                                     | 11.1       |
| 154              | 1.2                                      | 4.1        | 7.2                                     | 15.1       |
| <b>Criterion</b> | -                                        | <b>8</b>   | -                                       | <b>25</b>  |

For 24-hour average impacts, assuming a haul road silt content of 3% would likely result in an increase in the predicted impacts. However, the implementation of the predictive/ reactive mitigation measures as described would show that these impacts can be averted. In other words, the predictive/ reactive mitigation measures would need to be applied more often.

The haul road silt content was further analysed to determine its influence for each of the sensitivity analysis receivers. The analysis investigated the haul road silt content which could be applied before a potential exceedance of the annual average PM<sub>10</sub> would occur. The results of the analysis indicate that a haul road silt content of between 7-8% would be required for a potential exceedance to occur (i.e., a much higher silt content level than measured or appropriate for a site like the Mount Pleasant Operation).

In summary, the silt content adopted in the AQIA is considered representative of the site. To materially change the outcomes of the assessment, the sensitivity analysis shows that the silt level would need to be increased to an unrealistically high value, much higher than has been measured, and this is not appropriate.

## 7 SUMMARY AND CONCLUSIONS

The Mount Pleasant Operation has been operating under MACH since 2016 with a strong air quality compliance record.

This study has examined the air quality impacts that may arise from the Modification for three key indicative mine plan years.

The air dispersion modelling methodology uses local weather and dust monitoring data, incorporates conservative emission estimation and considers activity at other nearby coal mining operations.

The results indicate that cumulative dust impacts may potentially arise at two privately-owned receptor locations surrounding the Mount Pleasant Operation as follows:

- ★ Two receptors (Receptors 43 and 249) are predicted to experience cumulative annual average PM<sub>10</sub> levels above 25µg/m<sup>3</sup> irrespective of the Modification. Receptor 43 is predicted to exceed 25µg/m<sup>3</sup> in all three modelling scenarios while Receptor 249 is predicted to exceed 25µg/m<sup>3</sup> in Scenario 3 only. We note that Receptor 43 is already afforded acquisition rights under both Development Consent DA 92/97 and Development Consent SSD 5170 for Bengalla Mine. We also note that Receptor 249 is afforded acquisition rights under MP 09\_0062 for Mt Arthur Coal Mine (for air quality) and Development Consent SSD 5170 for Bengalla Mine (for noise only).
- ★ One receptor (Receptor 43) is predicted to also experience cumulative annual average TSP levels above the 90µg/m<sup>3</sup> amenity criteria in all three modelling scenarios. As noted above, Receptor 43 is already afforded acquisition rights under both Development Consent DA 92/97 and Development Consent SSD 5170 for Bengalla Mine.

All the predicted cumulative annual average PM<sub>10</sub> exceedances would occur due to background PM<sub>10</sub> levels and other nearby mining activities (i.e. in the absence of the Modification).

The Modification is predicted to contribute approximately 1.3% to 3.9% to the predicted cumulative level at these receptors, whereas other Mines are predicted to contribute 70% to 80% and 71% to the predicted cumulative level at Receptors 43 and 249, respectively.

Given the PM<sub>10</sub> predicted cumulative exceedances would occur with or without the Modification at each receptor, and noting both receptors are already afforded acquisition rights, it is considered the Modification would not contribute to an exceedance of the relevant cumulative annual average PM<sub>10</sub> criteria at any of the receptors.

It is also noted that Receptor 43 is above or within one microgram of the cumulative TSP (amenity) criteria without the Modification, with the Modification contributing 1.3% to 3.7% of the cumulative TSP level at this receptor, depending on the scenario evaluated.

No privately-owned receptors are predicted to exceed the Modification-only 24-hour average PM<sub>2.5</sub>, PM<sub>10</sub> or annual average dust deposition criteria.





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Some cumulative 24-hour average PM<sub>2.5</sub> and PM<sub>10</sub> levels exceeding the NSW EPA impact assessment criteria were predicted to occur in the nearby surrounding environment in the absence of the implementation of reactive measures. With the application of a reactive dust mitigation strategy and incorporation of real-time/ predicted management systems, no privately-owned receivers are predicted to exceed the cumulative 24-hour average PM<sub>10</sub> and 24-hour average PM<sub>2.5</sub> criterion.

One parcel of vacant land to the north of the Mount Pleasant Operation, parcel 143e, is predicted to exceed the relevant VLAMP criteria for vacant land. It is noted this parcel currently has acquisition upon request rights for noise impacts in Development Consent DA 92/97.

These results indicate that the Modification's proposed increase to ROM coal extraction rate and mine life extension would have minimal air quality impacts surrounding the Mount Pleasant Operation, beyond what is already approved.

Predicted levels for the assessed dust metrics would be above the relevant criterion at a number of mine-owned receptor locations, mine-owned commercial premises and two heritage properties (which have previously been identified as having the potential for dust impacts due to nearby mining operations).

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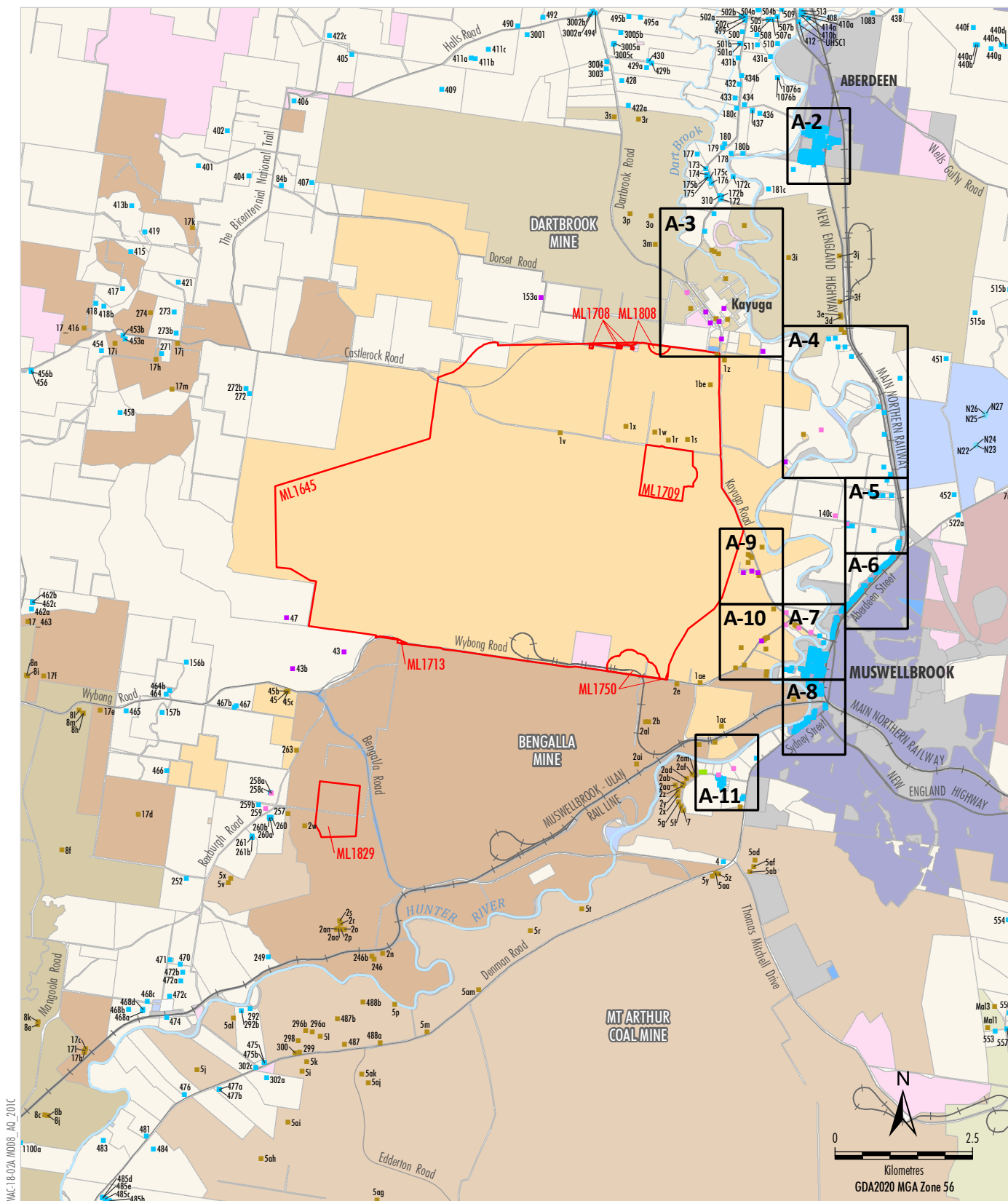


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## **Appendix A**

### ***Receiver Locations***





Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-2 to A-11 for Insets.

- LEGEND**
- Mining Lease Boundary (Mount Pleasant Operation)
  - Mount Pleasant-controlled
  - Bengalla-controlled
  - Dartbrook-controlled
  - Mangoola-controlled
  - Muswellbrook Coal-controlled
  - Mt Arthur-controlled
  - Other Mining/Resource-controlled
  - Crown
  - The State of NSW
  - Muswellbrook Shire Council
  - Upper Hunter Shire Council
  - Privately-owned Land
  - LEP Zones E1, E2, E3, R1, R5
  - LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

Category of Rural Residence under DA92/97

- Mine-owned
- Privately-owned - Acquisition on Request
- Privately-owned - Mitigation on Request
- Privately-owned - Mitigation/Acquisition on Request\*
- Other Privately-owned

\* Mitigation on Request - rail noise/Acquisition on Request - air quality.  
MACH is only required to acquire and/or install air quality mitigation measures at this property if not reasonably achievable under a separate approval for the Bengalla Mine.

**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Overview

**Figure A-1**



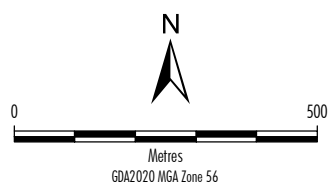


Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.

- LEGEND**
- Mining Lease Boundary (Mount Pleasant Operation)
  - Mount Pleasant-controlled
  - Dartbrook-controlled
  - Crown
  - Muswellbrook Shire Council
  - Privately-owned Land
  - LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

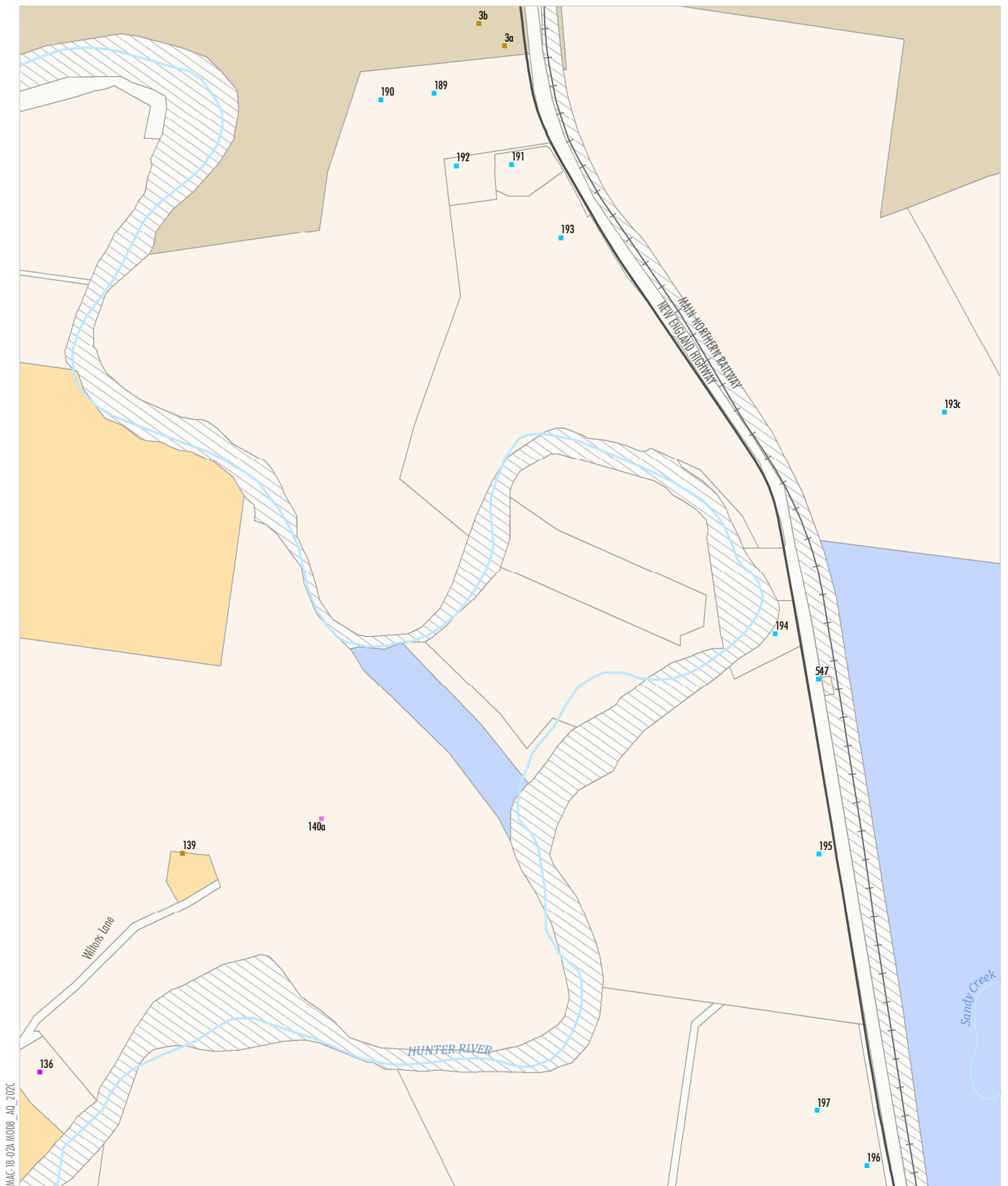
- Category of Residence under DA92/97
- Mine-owned
  - Privately-owned - Acquisition on Request
  - Privately-owned - Mitigation on Request
  - Other Privately-owned



**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-3**





IMAC:18-02A MODB\_AQ\_202C

#### LEGEND

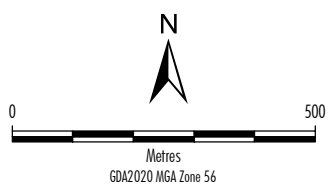
- Mount Pleasant-controlled
- Dartbrook-controlled
- The State of NSW
- Privately-owned Land
- LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

#### Category of Residence under DA92/97

- Mine-owned
- Privately-owned - Acquisition on Request
- Privately-owned - Mitigation on Request
- Other Privately-owned

Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.



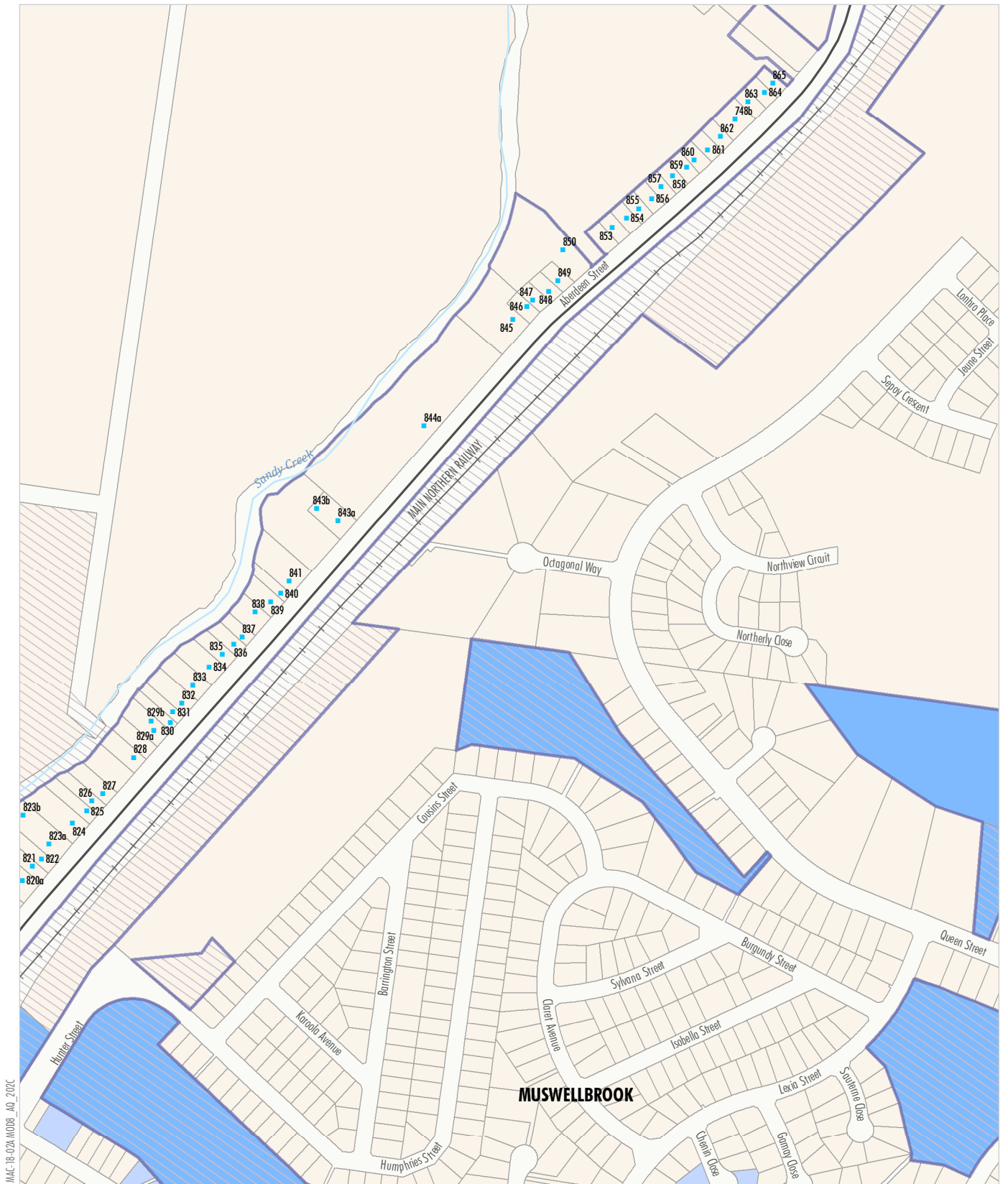
**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-4**



**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-5**



IMAC-18-02A MODB\_AQ\_202C

#### LEGEND

- The State of NSW
- Muswellbrook Shire Council
- Privately-owned Land
- LEP Zones E1, E2, E3, R1, R5
- LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

#### Category of Residence under DA92/97

- Other Privately-owned

Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.



**MACH**Energy  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-6**



IMAC-18-02A.M008\_A0\_202C

#### LEGEND

- Mount Pleasant-controlled
- The State of NSW
- Muswellbrook Shire Council
- Privately-owned Land
- LEP Zones E1, E2, E3, R1, R5
- LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

#### Category of Residence under DA92/97

- Mine-owned
- Privately-owned - Mitigation on Request
- Other Privately-owned

Source: MACH (2025); NSW Spatial Services (2025)

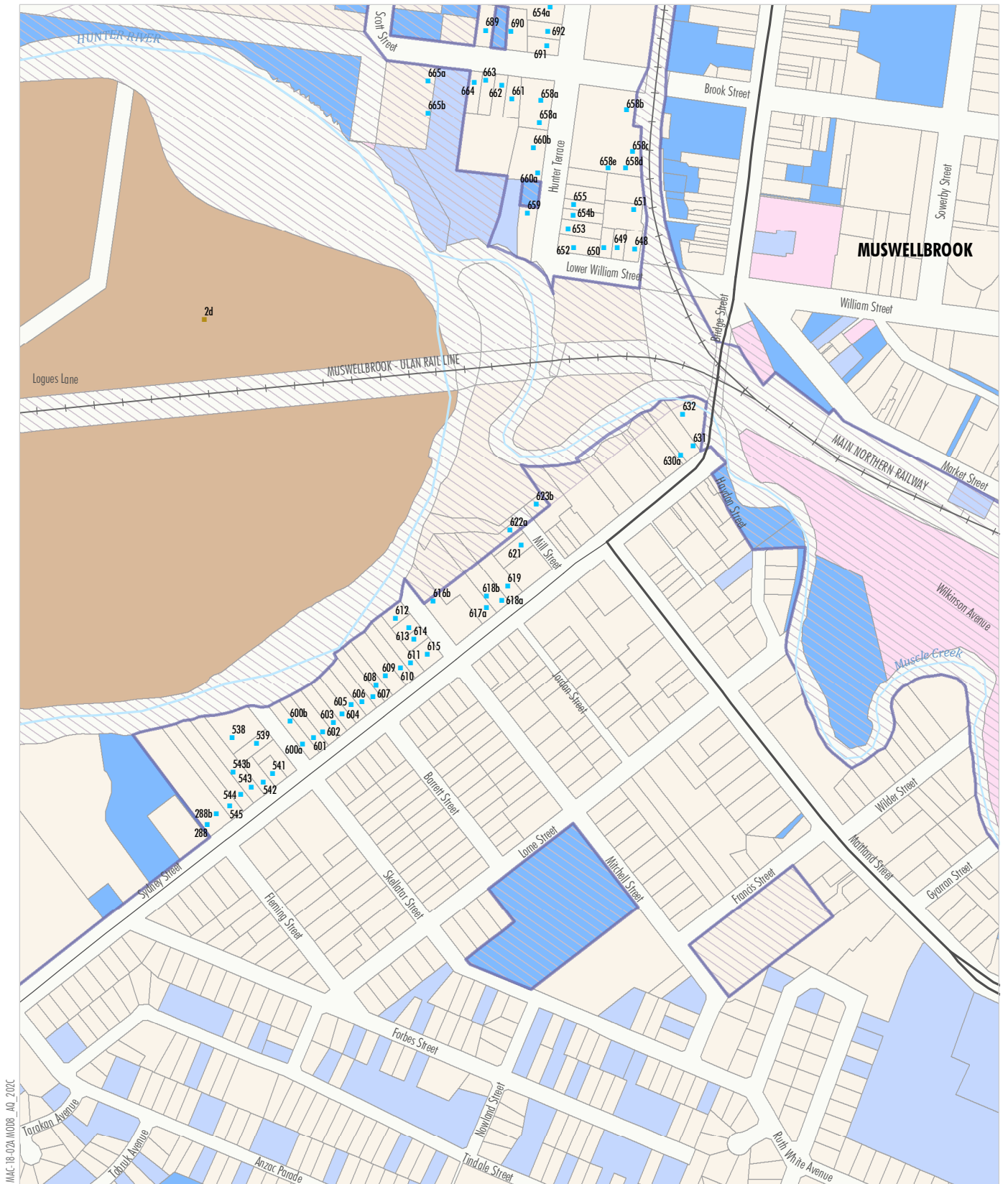
Refer Figures A-1 for Overview.



**MACH**Energy  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-7**



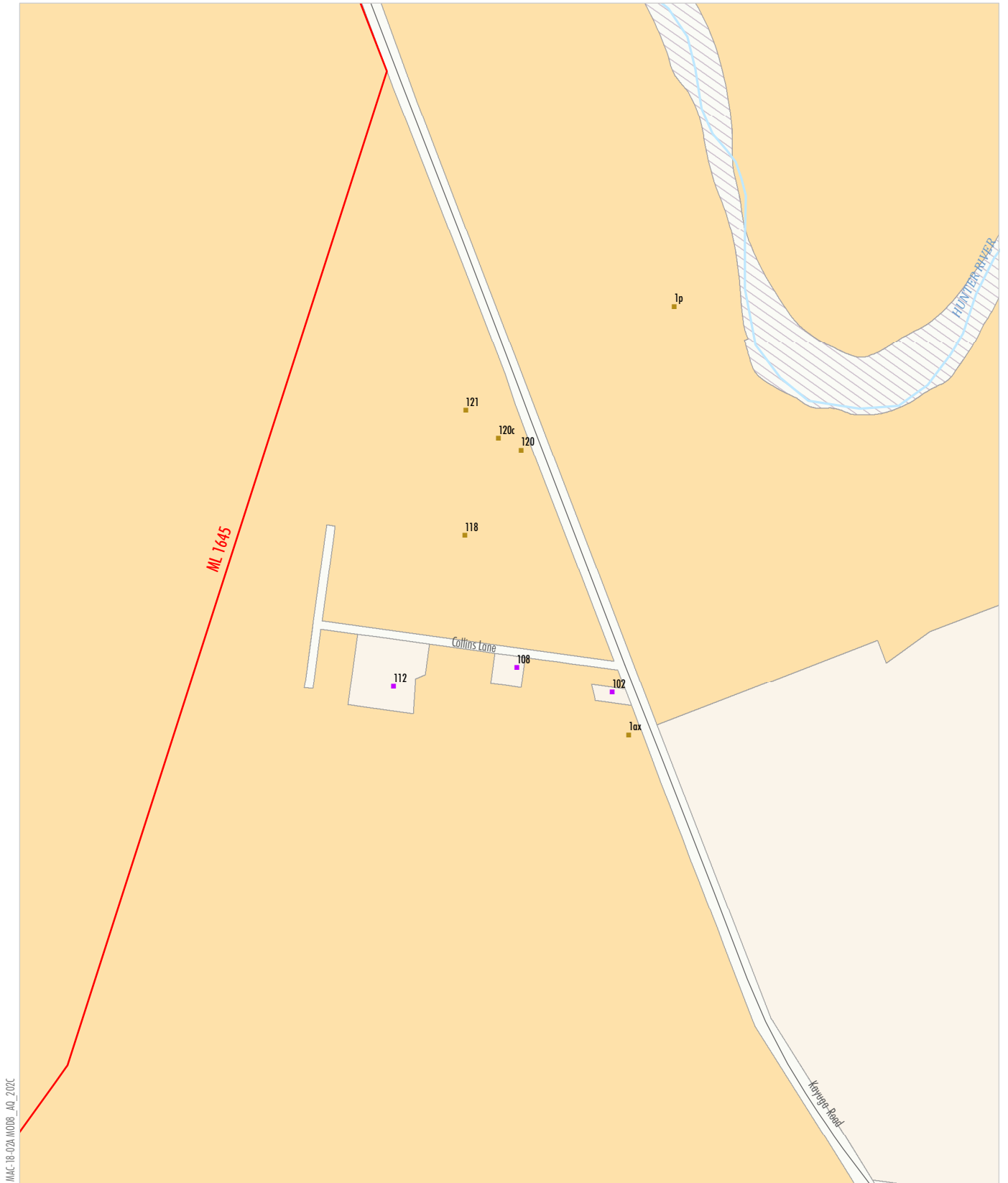


Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.

**MACH**Energy  
MOUNT PLEASANT OPERATION  
Receiver Locations

Figure A-8



MAC-18-02A MODB\_AQ\_202C

- LEGEND**
- Mining Lease Boundary (Mount Pleasant Operation)
  - Mount Pleasant-controlled
  - Privately-owned Land
  - LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

- Category of Residence under DA92/97
- Mine-owned
  - Privately-owned - Acquisition on Request

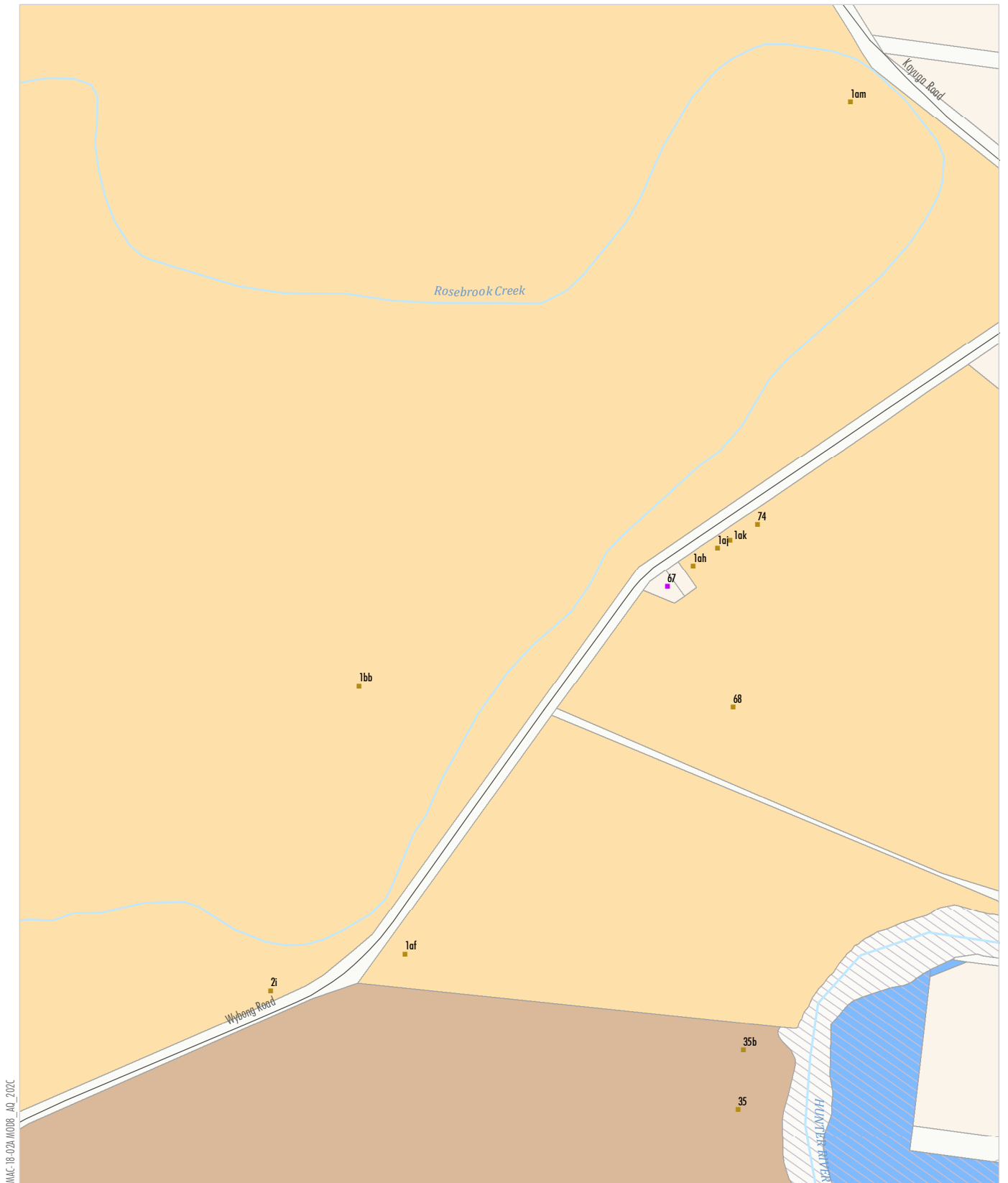
Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.



**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-9**



MAC-18-02A MODB\_AQ\_202C

#### LEGEND

- Mount Pleasant-controlled
- Bengalla-controlled
- Muswellbrook Shire Council
- Privately-owned Land
- LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

#### Category of Residence under DA92/97

- Mine-owned
- Privately-owned - Acquisition on Request

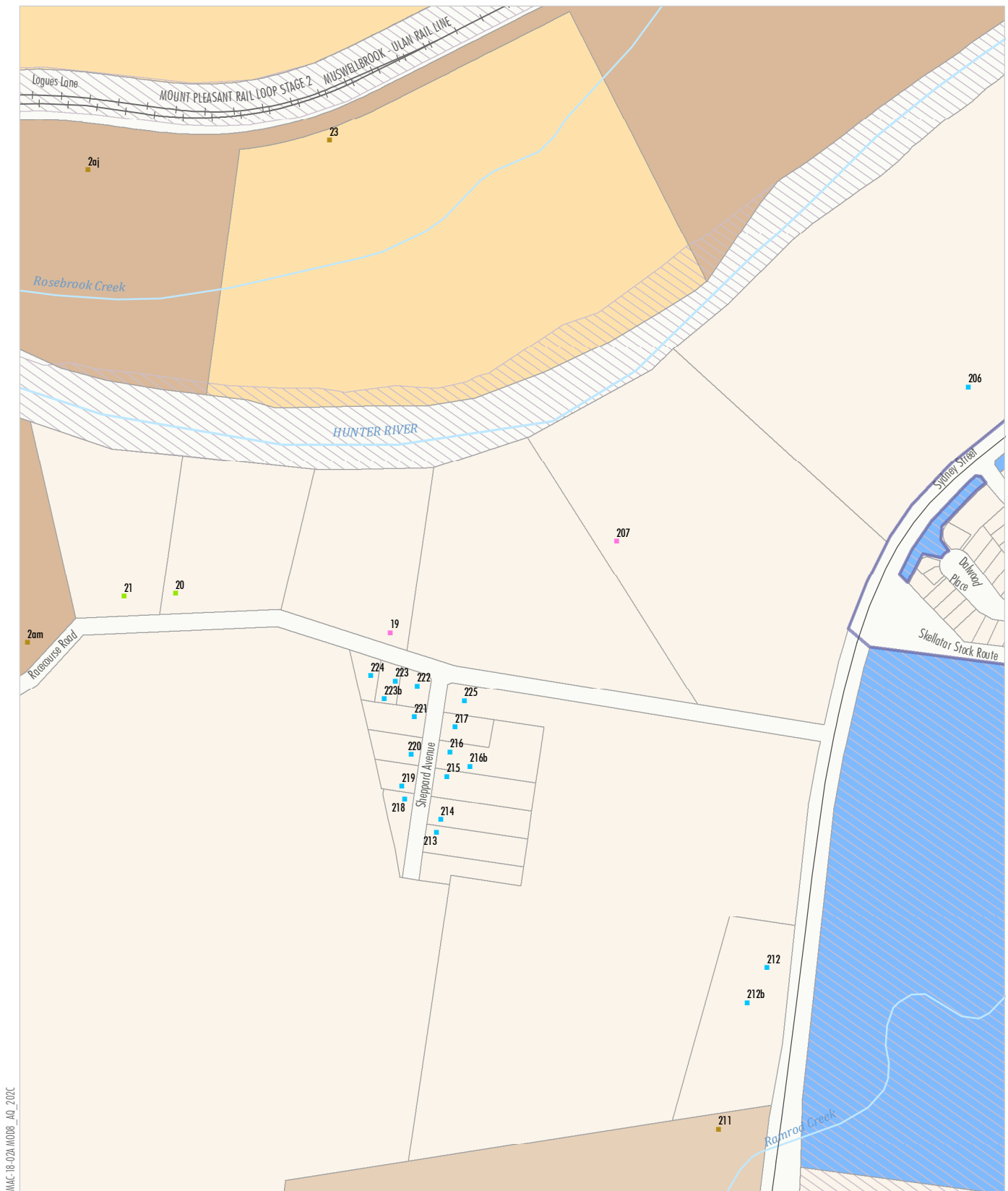
Source: MACH (2025); NSW Spatial Services (2025)

Refer Figures A-1 for Overview.



**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

**Figure A-10**



MAC-18-02A MODB\_AQ\_2020

Source: MACH (2025); NSW Spatial Services (2025)

- LEGEND**
- Mount Pleasant-controlled
  - Bengalla-controlled
  - Mt Arthur-controlled
  - Muswellbrook Shire Council
  - Privately-owned Land
  - LEP Zones E1, E2, E3, R1, R5
  - LEP Zones E4, MU1, RE1, RE2, SP1, SP2, W1

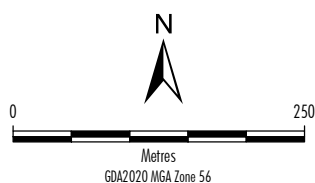
Category of Residence under DA92/97

- Mine-owned
- Privately-owned - Mitigation on Request
- Privately-owned - Mitigation/Acquisition on Request\*
- Other Privately-owned

Refer Figures A-1 for Overview.

**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Receiver Locations

\* Mitigation on Request - rail noise/Aquisition on Request - air quality.  
MACH is only required to acquire and/or install air quality mitigation measures at this property if not reasonably achievable under a separate approval for the Bengalla Mine.



**Figure A-11**



Table A-1: Receiver locations

| Name                      | Easting | Northing | Name | Easting | Northing | Name | Easting | Northing |
|---------------------------|---------|----------|------|---------|----------|------|---------|----------|
| Privately-owned receptors |         |          |      |         |          |      |         |          |
| 4                         | 299204  | 6425199  | 522b | 301251  | 6429626  | 811  | 301200  | 6429390  |
| 19                        | 299120  | 6426780  | 522c | 301256  | 6429585  | 812  | 301200  | 6429408  |
| 20                        | 298865  | 6426827  | 522d | 301266  | 6429599  | 813  | 301209  | 6429429  |
| 21                        | 298804  | 6426823  | 527  | 300601  | 6428695  | 814  | 301214  | 6429448  |
| 43                        | 292319  | 6429013  | 528  | 300622  | 6428695  | 815a | 301220  | 6429487  |
| 43b                       | 291386  | 6428704  | 529  | 300642  | 6428694  | 815b | 301215  | 6429465  |
| 47                        | 291276  | 6429621  | 530  | 300678  | 6428689  | 816  | 301224  | 6429510  |
| 67                        | 299896  | 6429203  | 531  | 300678  | 6428671  | 817  | 301248  | 6429567  |
| 77                        | 300331  | 6429494  | 531b | 300659  | 6428664  | 819  | 301374  | 6429740  |
| 79                        | 300571  | 6429446  | 532  | 300677  | 6428650  | 820a | 301396  | 6429771  |
| 82                        | 301019  | 6429169  | 533  | 300673  | 6428629  | 820b | 301373  | 6429781  |
| 83                        | 300958  | 6429302  | 534  | 300670  | 6428613  | 821  | 301408  | 6429788  |
| 84a                       | 300797  | 6429363  | 535  | 300661  | 6428594  | 822  | 301419  | 6429797  |
| 84b                       | 291180  | 6437474  | 536  | 300665  | 6428573  | 823a | 301428  | 6429815  |
| 86a                       | 300343  | 6429725  | 537  | 300663  | 6428556  | 823b | 301397  | 6429849  |
| 86b                       | 301866  | 6431881  | 538  | 300511  | 6427653  | 824  | 301456  | 6429839  |
| 102                       | 299830  | 6430444  | 539  | 300540  | 6427646  | 825  | 301473  | 6429854  |
| 108                       | 299716  | 6430474  | 541  | 300559  | 6427610  | 826  | 301479  | 6429866  |
| 112                       | 299569  | 6430451  | 542  | 300548  | 6427600  | 827  | 301492  | 6429875  |
| 136                       | 300332  | 6432454  | 543  | 300534  | 6427594  | 828  | 301529  | 6429918  |
| 140a                      | 300978  | 6433036  | 543b | 300512  | 6427612  | 829a | 301553  | 6429950  |
| 140c                      | 301238  | 6431475  | 544  | 300521  | 6427585  | 829b | 301550  | 6429962  |
| 143a                      | 299926  | 6434460  | 545  | 300508  | 6427571  | 830  | 301573  | 6429960  |
| 143b                      | 299210  | 6435242  | 547  | 302119  | 6433355  | 831  | 301576  | 6429972  |
| 147                       | 299170  | 6434677  | 549  | 305106  | 6423175  | 832  | 301587  | 6429983  |
| 153a                      | 295895  | 6435445  | 550  | 304389  | 6422458  | 833  | 301600  | 6430004  |
| 154                       | 298545  | 6435526  | 552  | 304864  | 6424159  | 834  | 301619  | 6430026  |
| 156a                      | 298884  | 6435174  | 553  | 304139  | 6422116  | 835  | 301635  | 6430041  |
| 156b                      | 289455  | 6428817  | 554  | 304376  | 6424137  | 836  | 301649  | 6430053  |
| 157a                      | 298964  | 6434979  | 557  | 304348  | 6422171  | 837  | 301659  | 6430062  |
| 157b                      | 289022  | 6427911  | 559  | 304853  | 6421916  | 838  | 301674  | 6430092  |
| 159                       | 299130  | 6435011  | 560  | 304780  | 6422140  | 839  | 301693  | 6430104  |
| 169                       | 298867  | 6436641  | 561  | 304794  | 6422638  | 840  | 301705  | 6430114  |
| 171                       | 299038  | 6436959  | 562  | 304976  | 6422282  | 841  | 301715  | 6430129  |
| 172                       | 299157  | 6437229  | 563  | 305453  | 6422383  | 843a | 301773  | 6430201  |
| 172b                      | 299167  | 6437280  | 564  | 305221  | 6423060  | 843b | 301748  | 6430215  |
| 172c                      | 299380  | 6437633  | 565  | 304962  | 6423375  | 844a | 301876  | 6430314  |
| 310                       | 299136  | 6437287  | 566  | 305174  | 6423525  | 845  | 301982  | 6430441  |
| 173                       | 298878  | 6437774  | 569  | 305079  | 6424360  | 846  | 301999  | 6430457  |
| 174                       | 298907  | 6437677  | 570  | 305097  | 6424577  | 847  | 302006  | 6430465  |
| 175                       | 298924  | 6437623  | 571  | 305190  | 6425431  | 848  | 302025  | 6430475  |
| 175b                      | 298907  | 6437621  | 572  | 305176  | 6424761  | 849  | 302036  | 6430488  |
| 175c                      | 298949  | 6437595  | 573  | 305051  | 6424972  | 850  | 302042  | 6430525  |
| 176                       | 298986  | 6437511  | 574  | 305016  | 6425085  | 853  | 302101  | 6430551  |
| 177                       | 298729  | 6438048  | 575  | 304989  | 6425269  | 854  | 302118  | 6430563  |
| 178                       | 299347  | 6438055  | 576  | 304990  | 6425435  | 855  | 302133  | 6430574  |
| 179                       | 299188  | 6438161  | 577a | 304767  | 6425562  | 856  | 302148  | 6430586  |
| 180                       | 299231  | 6438235  | 577b | 304829  | 6425572  | 857  | 302159  | 6430600  |
| 180b                      | 299556  | 6438056  | 578  | 304802  | 6425787  | 858  | 302173  | 6430613  |
| 180c                      | 299443  | 6438875  | 583  | 305401  | 6433259  | 859  | 302190  | 6430623  |
| 181                       | 300473  | 6437761  | 586  | 305175  | 6435729  | 860  | 302199  | 6430632  |
| 181c                      | 300024  | 6437408  | 587a | 305086  | 6436842  | 861  | 302215  | 6430644  |
| 182                       | 300847  | 6437842  | 587b | 305063  | 6436875  | 862  | 302230  | 6430660  |
| 189                       | 301237  | 6434699  | 588  | 305203  | 6435904  | 863  | 302263  | 6430702  |
| 190                       | 301114  | 6434684  | 589a | 305612  | 6441086  | 864  | 302283  | 6430713  |
| 191                       | 301415  | 6434535  | 589b | 305511  | 6442424  | 865  | 302293  | 6430724  |

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| Name | Easting | Northing | Name | Easting | Northing | Name | Easting | Northing |
|------|---------|----------|------|---------|----------|------|---------|----------|
| 192  | 301288  | 6434533  | 600a | 300595  | 6427645  | 866  | 302369  | 6430885  |
| 193  | 301528  | 6434368  | 600b | 300580  | 6427673  | 867  | 302373  | 6430903  |
| 193c | 302408  | 6433967  | 601  | 300608  | 6427653  | 868  | 302380  | 6430923  |
| 194  | 302020  | 6433459  | 602  | 300619  | 6427660  | 870  | 302386  | 6430958  |
| 195  | 302120  | 6432953  | 603  | 300632  | 6427671  | 871  | 302395  | 6430982  |
| 197  | 302116  | 6432365  | 604  | 300642  | 6427681  | 872a | 302397  | 6431001  |
| 196  | 302230  | 6432239  | 605  | 300653  | 6427693  | 900a | 300949  | 6438379  |
| 204  | 302172  | 6432125  | 606  | 300666  | 6427696  | 900b | 300714  | 6437904  |
| 198  | 301994  | 6431849  | 607  | 300679  | 6427702  | 901  | 300593  | 6437924  |
| 198b | 301949  | 6431847  | 608  | 300683  | 6427716  | 902  | 300594  | 6437940  |
| 199  | 302093  | 6431847  | 609  | 300694  | 6427727  | 903  | 300598  | 6437957  |
| 200  | 302256  | 6431849  | 610  | 300712  | 6427736  | 904  | 300601  | 6437976  |
| 202  | 301547  | 6431296  | 611  | 300724  | 6427742  | 905  | 300603  | 6437993  |
| 202b | 301939  | 6431208  | 612  | 300706  | 6427795  | 906  | 300606  | 6438012  |
| 203  | 301444  | 6431329  | 613  | 300722  | 6427784  | 907  | 300607  | 6438029  |
| 203b | 301482  | 6431298  | 614  | 300728  | 6427771  | 908  | 300607  | 6438051  |
| 203c | 301446  | 6431341  | 615  | 300744  | 6427752  | 909  | 300615  | 6438078  |
| 206  | 299807  | 6427072  | 616a | 300995  | 6428951  | 911  | 300648  | 6438099  |
| 207  | 299389  | 6426888  | 616b | 300751  | 6427816  | 912  | 300643  | 6438048  |
| 212  | 299568  | 6426382  | 617a | 300815  | 6427808  | 913  | 300688  | 6438094  |
| 212b | 299544  | 6426340  | 618a | 300833  | 6427817  | 914  | 300712  | 6438090  |
| 213  | 299175  | 6426542  | 618b | 300815  | 6427822  | 915  | 300732  | 6438082  |
| 214  | 299180  | 6426558  | 619  | 300840  | 6427834  | 916  | 300759  | 6438082  |
| 215  | 299187  | 6426609  | 621  | 300856  | 6427883  | 917  | 300788  | 6438081  |
| 216  | 299191  | 6426638  | 622a | 300843  | 6427901  | 918  | 300774  | 6438046  |
| 216b | 299215  | 6426621  | 623a | 300931  | 6438285  | 919  | 300768  | 6438029  |
| 217  | 299197  | 6426668  | 623b | 300874  | 6427932  | 920  | 300740  | 6438038  |
| 218  | 299137  | 6426582  | 630a | 301047  | 6427990  | 921  | 300720  | 6438043  |
| 219  | 299134  | 6426597  | 631  | 301062  | 6428001  | 922  | 300700  | 6438042  |
| 220  | 299145  | 6426635  | 632  | 301049  | 6428039  | 924  | 300663  | 6438004  |
| 221  | 299149  | 6426680  | 648  | 300992  | 6428237  | 925  | 300661  | 6437985  |
| 222  | 299152  | 6426716  | 649  | 300971  | 6428239  | 926  | 300655  | 6437968  |
| 223  | 299126  | 6426722  | 650  | 300955  | 6428238  | 927  | 300649  | 6437951  |
| 223b | 299113  | 6426701  | 651  | 300991  | 6428284  | 928  | 300645  | 6437931  |
| 224  | 299097  | 6426729  | 652  | 300919  | 6428239  | 929  | 300634  | 6437913  |
| 225  | 299208  | 6426699  | 653  | 300912  | 6428261  | 930  | 300667  | 6437905  |
| 249  | 290948  | 6423469  | 654a | 300891  | 6428526  | 931  | 300685  | 6437903  |
| 252  | 289458  | 6424902  | 654b | 300918  | 6428277  | 932a | 300714  | 6437939  |
| 258a | 291000  | 6426444  | 655  | 300919  | 6428290  | 932b | 300729  | 6437938  |
| 258c | 290978  | 6426456  | 658a | 300878  | 6428388  | 933  | 300709  | 6437960  |
| 259  | 290893  | 6426165  | 659  | 300864  | 6428280  | 934  | 300715  | 6437979  |
| 259b | 290771  | 6426234  | 660a | 300876  | 6428328  | 935a | 300732  | 6437994  |
| 260  | 291001  | 6426005  | 660b | 300871  | 6428358  | 935b | 300713  | 6437998  |
| 260a | 290975  | 6425981  | 661  | 300845  | 6428416  | 936  | 300770  | 6437985  |
| 260b | 290967  | 6426001  | 662  | 300833  | 6428433  | 937  | 300762  | 6437965  |
| 261  | 290650  | 6425665  | 663  | 300814  | 6428439  | 938  | 300756  | 6437947  |
| 261b | 290655  | 6425637  | 664  | 300800  | 6428436  | 939  | 300758  | 6437927  |
| 271  | 289007  | 6434419  | 665a | 300745  | 6428438  | 940  | 300752  | 6437907  |
| 272b | 290544  | 6433781  | 665b | 300745  | 6428399  | 941  | 300755  | 6437886  |
| 272  | 290599  | 6433699  | 667a | 300416  | 6428684  | 942  | 300812  | 6437876  |
| 273  | 289237  | 6435182  | 667b | 300443  | 6428720  | 943  | 300820  | 6437894  |
| 273b | 289270  | 6434795  | 667c | 300417  | 6428676  | 944  | 300818  | 6437917  |
| 288  | 300481  | 6427549  | 667d | 300414  | 6428656  | 945a | 300828  | 6437934  |
| 288b | 300492  | 6427562  | 667e | 300427  | 6428663  | 945b | 300838  | 6437938  |
| 289  | 300328  | 6428693  | 667f | 301345  | 6429739  | 946  | 300831  | 6437952  |
| 292  | 290619  | 6422528  | 669  | 300714  | 6428535  | 947  | 300833  | 6437974  |
| 292b | 290459  | 6422499  | 671  | 300719  | 6428557  | 948  | 300887  | 6437989  |
| 302a | 290912  | 6421269  | 672  | 300719  | 6428569  | 949  | 300833  | 6438002  |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Name | Easting | Northing | Name | Easting | Northing | Name | Easting | Northing |
|------|---------|----------|------|---------|----------|------|---------|----------|
| 302c | 290718  | 6421467  | 673  | 300722  | 6428586  | 950  | 300835  | 6438022  |
| 401  | 289678  | 6437838  | 675  | 300736  | 6428644  | 951  | 300838  | 6438066  |
| 402  | 290202  | 6438460  | 676  | 300731  | 6428682  | 952  | 300859  | 6438063  |
| 404  | 290589  | 6437642  | 677  | 300749  | 6428673  | 953  | 300888  | 6438063  |
| 405  | 292459  | 6439852  | 678  | 300764  | 6428667  | 954  | 300912  | 6438057  |
| 406  | 291408  | 6439011  | 679  | 300781  | 6428674  | 955  | 300900  | 6438012  |
| 407  | 291737  | 6437529  | 680  | 300795  | 6428667  | 956  | 300950  | 6438058  |
| 408  | 300656  | 6440603  | 681  | 300814  | 6428669  | 957a | 300833  | 6438430  |
| 409  | 294094  | 6439216  | 682a | 300851  | 6428664  | 957b | 300946  | 6438038  |
| 410a | 300631  | 6440563  | 682b | 300851  | 6428647  | 958  | 300943  | 6438018  |
| 410b | 300610  | 6440560  | 683  | 300868  | 6428664  | 959  | 300940  | 6438000  |
| 411a | 294623  | 6439788  | 684  | 300904  | 6428651  | 960  | 300937  | 6437979  |
| 411b | 294701  | 6439774  | 685  | 300911  | 6428625  | 961  | 300931  | 6437958  |
| 411c | 294939  | 6439950  | 686  | 300907  | 6428610  | 962  | 300929  | 6437932  |
| 412  | 300573  | 6440442  | 687  | 300905  | 6428587  | 963  | 300921  | 6437912  |
| 413b | 288466  | 6437109  | 688  | 300896  | 6428571  | 964  | 300914  | 6437888  |
| 414a | 300751  | 6440513  | 689  | 300814  | 6428498  | 965  | 300955  | 6437879  |
| 415  | 288449  | 6436268  | 690  | 300844  | 6428497  | 966  | 300984  | 6437891  |
| 417  | 288298  | 6435593  | 691  | 300887  | 6428480  | 967a | 300987  | 6437911  |
| 418  | 287815  | 6435334  | 692  | 300888  | 6428497  | 967b | 300999  | 6437917  |
| 418b | 287964  | 6435284  | 693  | 300959  | 6428566  | 968  | 300985  | 6437932  |
| 419  | 288702  | 6436633  | 694a | 300965  | 6428589  | 969  | 300995  | 6437949  |
| 421  | 289314  | 6435712  | 694b | 300996  | 6428583  | 970  | 300992  | 6437972  |
| 422a | 297479  | 6438929  | 695  | 300963  | 6428608  | 971  | 300993  | 6437991  |
| 422c | 292052  | 6440193  | 697  | 300976  | 6428649  | 972  | 301000  | 6438007  |
| 428  | 297359  | 6439377  | 698  | 301022  | 6428640  | 973  | 300997  | 6438031  |
| 429a | 297808  | 6439616  | 715  | 300858  | 6438168  | 974  | 301000  | 6438051  |
| 429b | 297897  | 6439690  | 728  | 301028  | 6428693  | 976  | 301013  | 6438179  |
| 430  | 297849  | 6439727  | 729  | 301009  | 6428698  | 977a | 300784  | 6438419  |
| 431a | 300058  | 6439816  | 730  | 300986  | 6428697  | 977b | 300951  | 6438140  |
| 431b | 299476  | 6439794  | 731  | 300973  | 6428704  | 978  | 301027  | 6438198  |
| 432  | 299493  | 6439313  | 732  | 300978  | 6428739  | 979a | 301007  | 6438441  |
| 433  | 299413  | 6439062  | 733  | 300989  | 6428754  | 979b | 301028  | 6438222  |
| 434  | 299588  | 6438944  | 735a | 301000  | 6428829  | 980  | 301040  | 6438271  |
| 434b | 299533  | 6439471  | 735b | 300987  | 6428831  | 981a | 301024  | 6438278  |
| 436  | 299862  | 6438782  | 736  | 301037  | 6428854  | 981b | 301017  | 6438263  |
| 437  | 299724  | 6438830  | 737  | 300996  | 6428858  | 982  | 301007  | 6438278  |
| 438  | 302429  | 6440644  | 738  | 301002  | 6428880  | 983  | 300983  | 6438280  |
| 440a | 303777  | 6440030  | 739  | 300997  | 6428902  | 984  | 300983  | 6438239  |
| 440b | 303810  | 6440026  | 740a | 301066  | 6428914  | 985  | 300968  | 6438215  |
| 440c | 304527  | 6439929  | 740b | 301045  | 6428916  | 986  | 300948  | 6438280  |
| 440d | 304322  | 6440005  | 740c | 301025  | 6428919  | 987  | 300912  | 6438286  |
| 440e | 304249  | 6440021  | 740d | 301022  | 6428898  | 988a | 300893  | 6438295  |
| 440f | 303736  | 6440339  | 740e | 301039  | 6428895  | 988b | 300897  | 6438272  |
| 440g | 304063  | 6439958  | 740f | 301060  | 6428893  | 989a | 300872  | 6438298  |
| 441  | 301154  | 6438223  | 741  | 300983  | 6428927  | 989b | 300878  | 6438278  |
| 442  | 304683  | 6437541  | 742  | 300974  | 6428946  | 990  | 300870  | 6438266  |
| 443  | 301121  | 6438168  | 743  | 300969  | 6428958  | 991  | 300868  | 6438244  |
| 451  | 303247  | 6434331  | 744  | 301013  | 6428958  | 992  | 300869  | 6438224  |
| 452  | 303395  | 6431851  | 745  | 301029  | 6428960  | 993a | 300920  | 6438139  |
| 453a | 288347  | 6434692  | 746  | 301048  | 6428958  | 993b | 300904  | 6438167  |
| 453b | 288309  | 6434747  | 747  | 301067  | 6428962  | 994a | 300868  | 6438203  |
| 454  | 287915  | 6434470  | 748a | 301085  | 6428965  | 994b | 300880  | 6438197  |
| 455  | 286340  | 6434252  | 748b | 302248  | 6430681  | 995  | 300870  | 6438186  |
| 456  | 286643  | 6434110  | 749a | 300910  | 6428705  | 997  | 300853  | 6438146  |
| 456b | 286650  | 6434092  | 749b | 300920  | 6428704  | 998  | 300852  | 6438129  |
| 458  | 288255  | 6433351  | 750  | 300916  | 6428724  | 999  | 300660  | 6438419  |
| 460  | 286411  | 6430732  | 751  | 300924  | 6428739  | 1000 | 300727  | 6438401  |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Name | Easting | Northing | Name | Easting | Northing | Name  | Easting | Northing |
|------|---------|----------|------|---------|----------|-------|---------|----------|
| 460b | 286350  | 6430974  | 752a | 300888  | 6428717  | 1001  | 300732  | 6438426  |
| 461  | 286335  | 6430403  | 752b | 300897  | 6428740  | 1002  | 300736  | 6438444  |
| 462a | 286649  | 6429789  | 753  | 300873  | 6428717  | 1003  | 300738  | 6438463  |
| 462b | 286664  | 6429919  | 754  | 300858  | 6428719  | 1004  | 300741  | 6438483  |
| 462c | 286664  | 6429905  | 755  | 300841  | 6428721  | 1005  | 300743  | 6438502  |
| 464  | 289094  | 6428237  | 756  | 300826  | 6428721  | 1006  | 300747  | 6438518  |
| 464b | 289152  | 6428303  | 757  | 300814  | 6428725  | 1007  | 300745  | 6438538  |
| 465  | 288368  | 6427932  | 758  | 300803  | 6428731  | 1008  | 300750  | 6438557  |
| 466  | 289104  | 6426843  | 759a | 300786  | 6428727  | 1009  | 300799  | 6438542  |
| 467  | 290362  | 6428029  | 759b | 300787  | 6428749  | 1010  | 300797  | 6438502  |
| 467b | 290329  | 6428001  | 760  | 300775  | 6428730  | 1011  | 300789  | 6438473  |
| 468a | 288663  | 6422488  | 761  | 300762  | 6428734  | 1012  | 300785  | 6438447  |
| 468b | 288413  | 6422516  | 762  | 300740  | 6428731  | 1014  | 300778  | 6438400  |
| 468c | 288744  | 6422670  | 763  | 300745  | 6428742  | 1015  | 300776  | 6438377  |
| 468d | 288667  | 6422511  | 764  | 300741  | 6428757  | 1016  | 300826  | 6438384  |
| 470  | 289352  | 6423345  | 765a | 300751  | 6428773  | 1017  | 300832  | 6438412  |
| 471  | 289166  | 6423423  | 765b | 300743  | 6428780  | 1018  | 300836  | 6438450  |
| 472a | 289359  | 6423042  | 766  | 300751  | 6428787  | 1019  | 300832  | 6438466  |
| 472b | 289391  | 6423191  | 767  | 300756  | 6428808  | 1020  | 300844  | 6438485  |
| 472c | 289154  | 6422757  | 768  | 300759  | 6428834  | 1021  | 300845  | 6438503  |
| 474  | 289101  | 6422375  | 769  | 300811  | 6428845  | 1022  | 300846  | 6438524  |
| 475  | 290871  | 6421547  | 770  | 300762  | 6428854  | 1023  | 300848  | 6438542  |
| 475b | 290870  | 6421557  | 771  | 300765  | 6428876  | 1024  | 300911  | 6438498  |
| 476  | 289424  | 6420979  | 772  | 300765  | 6428894  | 1025  | 300889  | 6438389  |
| 477a | 290061  | 6421069  | 773  | 300767  | 6428909  | 1026  | 300882  | 6438359  |
| 477b | 290048  | 6421063  | 774  | 300804  | 6428923  | 1027  | 300904  | 6438357  |
| 481  | 288729  | 6420219  | 775  | 300803  | 6428938  | 1028  | 300944  | 6438351  |
| 483  | 287951  | 6420135  | 776  | 300774  | 6428966  | 1029  | 300954  | 6438396  |
| 484  | 288861  | 6419989  | 777  | 300788  | 6428979  | 1030  | 300953  | 6438411  |
| 485a | 288071  | 6419004  | 778a | 300797  | 6428997  | 1031  | 300957  | 6438462  |
| 485b | 288066  | 6419050  | 778b | 300782  | 6428994  | 1032  | 300968  | 6438476  |
| 485c | 287988  | 6419082  | 779a | 300804  | 6429006  | 1033  | 300966  | 6438490  |
| 485d | 287933  | 6419095  | 779b | 300826  | 6428997  | 1034  | 300975  | 6438518  |
| 485e | 287953  | 6419103  | 780  | 300795  | 6429023  | 1035  | 301012  | 6438510  |
| 485f | 288112  | 6419015  | 781  | 300783  | 6429038  | 1036a | 301035  | 6438511  |
| 490  | 295469  | 6440374  | 782  | 300793  | 6429053  | 1036b | 301025  | 6438487  |
| 492  | 295927  | 6440522  | 783  | 300790  | 6429071  | 1037  | 301021  | 6438472  |
| 494  | 296874  | 6440609  | 784  | 300924  | 6428755  | 1038  | 301009  | 6438458  |
| 495a | 297697  | 6440526  | 785  | 300926  | 6428773  | 1039  | 301008  | 6438422  |
| 495b | 297490  | 6440531  | 786  | 300907  | 6428792  | 1040  | 301000  | 6438406  |
| 496a | 297307  | 6440734  | 787a | 300928  | 6428805  | 1041  | 301003  | 6438386  |
| 496b | 297413  | 6440820  | 787b | 300881  | 6428810  | 1042  | 301000  | 6438373  |
| 496c | 297448  | 6440787  | 788  | 300924  | 6428824  | 1043  | 300987  | 6438342  |
| 499  | 299595  | 6440475  | 789  | 300920  | 6428843  | 1044  | 301011  | 6438341  |
| 500  | 299549  | 6440260  | 790a | 300937  | 6428855  | 1045  | 301071  | 6438451  |
| 501a | 299518  | 6440043  | 790b | 300919  | 6428867  | 1046  | 301080  | 6438506  |
| 501b | 299501  | 6440052  | 791a | 300936  | 6428872  | 1076a | 300189  | 6439437  |
| 502a | 299525  | 6440537  | 791b | 300918  | 6428881  | 1076b | 300182  | 6439425  |
| 502b | 299575  | 6440542  | 792a | 300880  | 6428899  | 1077  | 301135  | 6438268  |
| 502c | 299598  | 6440534  | 792b | 300928  | 6428892  | 1078  | 301224  | 6438257  |
| 504a | 299827  | 6440661  | 793  | 300937  | 6428910  | 1079  | 301297  | 6438248  |
| 504b | 299849  | 6440673  | 794  | 300929  | 6428923  | 1080  | 301305  | 6438291  |
| 505  | 300012  | 6440495  | 795  | 300916  | 6428944  | 1081  | 301224  | 6438311  |
| 506  | 300054  | 6440492  | 796  | 300907  | 6428957  | 1082a | 301176  | 6438317  |
| 507a | 300091  | 6440496  | 797a | 300903  | 6428972  | 1082b | 301128  | 6438325  |
| 507b | 300176  | 6440541  | 797b | 300882  | 6428980  | 1083  | 301910  | 6440602  |
| 508  | 299810  | 6440203  | 798  | 300890  | 6428996  | 1084  | 302272  | 6440756  |
| 509  | 300258  | 6440669  | 801  | 300861  | 6429044  | 1100a | 286450  | 6420099  |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx





| Name                        | Easting | Northing | Name | Easting | Northing | Name  | Easting | Northing |
|-----------------------------|---------|----------|------|---------|----------|-------|---------|----------|
| 510                         | 300185  | 6440043  | 802  | 300854  | 6429062  | 1100b | 286413  | 6419986  |
| 511                         | 299817  | 6440019  | 803a | 300931  | 6429019  | 3001  | 295638  | 6440217  |
| 513                         | 300618  | 6440648  | 803b | 300938  | 6429034  | 3002a | 296832  | 6440636  |
| 515a                        | 303771  | 6435159  | 804  | 300939  | 6429005  | 3002b | 296781  | 6440589  |
| 515b                        | 304395  | 6435587  | 805  | 300950  | 6428993  | 3003  | 297083  | 6439587  |
| 516                         | 304535  | 6436159  | 806  | 301182  | 6429263  | 3004  | 297087  | 6439710  |
| 517                         | 304772  | 6434939  | 807  | 301188  | 6429285  | 3005a | 297221  | 6440054  |
| 518                         | 305208  | 6433773  | 808  | 301193  | 6429304  | 3005b | 297344  | 6440245  |
| 519                         | 304636  | 6435454  | 809  | 301186  | 6429322  | 3005c | 297211  | 6440039  |
| 522a                        | 303468  | 6431491  | 810  | 301192  | 6429342  |       |         |          |
| <b>Mine-owned receptors</b> |         |          |      |         |          |       |         |          |
| 246                         | 292869  | 6423439  | 8e   | 286763  | 6422241  | 5t    | 296635  | 6424344  |
| 246b                        | 292827  | 6423488  | 8f   | 287201  | 6425412  | 5v    | 290218  | 6424814  |
| 2b                          | 297852  | 6427740  | 8h   | 287586  | 6427892  | 5x    | 290262  | 6424901  |
| 2d                          | 300478  | 6428153  | 8i   | 286574  | 6428572  | 5y    | 298999  | 6424940  |
| 2e                          | 298360  | 6428431  | 8j   | 286934  | 6420591  | 5z    | 299120  | 6424980  |
| 2n                          | 293016  | 6423529  | 8k   | 286767  | 6422296  | 5aa   | 299061  | 6424990  |
| 2o                          | 292327  | 6423978  | 8l   | 287514  | 6427944  | 5ab   | 299688  | 6425014  |
| 2p                          | 292261  | 6423979  | 8m   | 287576  | 6427885  | 5ad   | 299776  | 6425226  |
| 2r                          | 292255  | 6424068  | 8n   | 286556  | 6428591  | 5af   | 299751  | 6425111  |
| 2s                          | 292244  | 6424131  | 8o   | 286387  | 6424379  | 5ag   | 292922  | 6419062  |
| 2w                          | 291603  | 6425848  | 8p   | 286336  | 6424834  | 5ah   | 290815  | 6419814  |
| 2x                          | 298372  | 6426397  | 23   | 299048  | 6427365  | 5ai   | 291298  | 6420470  |
| 2y                          | 298379  | 6426499  | 68   | 299975  | 6429059  | 5aj   | 292757  | 6421175  |
| 2z                          | 298455  | 6426572  | 80a  | 300556  | 6429466  | 5ak   | 292638  | 6421335  |
| 2aa                         | 298331  | 6426590  | 139  | 300660  | 6432955  | 5al   | 290316  | 6422361  |
| 2ab                         | 298487  | 6426609  | 158  | 299069  | 6435065  | 5am   | 294763  | 6422881  |
| 2ad                         | 298532  | 6426702  | 231  | 300494  | 6429495  | 274   | 288805  | 6435160  |
| 2af                         | 298638  | 6426785  | 263  | 291456  | 6427229  | 7_416 | 287603  | 6434882  |
| 2ai                         | 297627  | 6426970  | 1p   | 299904  | 6430905  | 7_463 | 286578  | 6429561  |
| 2aj                         | 298761  | 6427330  | 1r   | 298205  | 6432843  | 7b    | 287607  | 6421748  |
| 2al                         | 297792  | 6427735  | 1s   | 298548  | 6432873  | 7c    | 287634  | 6421808  |
| 2am                         | 298689  | 6426768  | 1v   | 296246  | 6432980  | 7d    | 288584  | 6426061  |
| 2an                         | 292183  | 6423976  | 1w   | 297962  | 6432999  | 7e    | 287897  | 6427953  |
| 2ao                         | 292219  | 6423991  | 1x   | 297435  | 6433109  | 7f    | 286866  | 6428574  |
| 257                         | 291300  | 6426071  | 1z   | 299217  | 6434301  | 7h    | 288912  | 6434317  |
| 296a                        | 291746  | 6422106  | 1ab  | 299083  | 6434402  | 7i    | 288167  | 6434615  |
| 296b                        | 291623  | 6422136  | 1ac  | 299172  | 6427657  | 7j    | 289296  | 6434614  |
| 35                          | 299981  | 6428578  | 1ae  | 298781  | 6428443  | 7k    | 289565  | 6436700  |
| 35b                         | 299987  | 6428649  | 1af  | 299583  | 6428764  | 7l    | 287617  | 6421769  |
| 3a                          | 301399  | 6434808  | 1ah  | 299927  | 6429227  | 7m    | 289194  | 6433777  |
| 3b                          | 301340  | 6434860  | 1aj  | 299956  | 6429248  | 7n    | 304429  | 6431978  |
| 3c                          | 299281  | 6435044  | 1ak  | 299971  | 6429258  | 7o    | 305277  | 6432484  |
| 3d                          | 301334  | 6435088  | 1am  | 300115  | 6429782  | Mal1  | 303998  | 6422187  |
| 3e                          | 301328  | 6435121  | 1bb  | 299528  | 6429084  | Mal2  | 305129  | 6422061  |
| 3f                          | 301318  | 6435358  | 1be  | 298964  | 6433850  | Mal3  | 304124  | 6422562  |
| 3g                          | 299244  | 6435790  | 118  | 299654  | 6430631  | 300   | 291433  | 6421730  |
| 3i                          | 300385  | 6436172  | 2i   | 299422  | 6428720  | 298   | 291487  | 6421947  |
| 3j                          | 301314  | 6436186  | 7    | 298473  | 6426130  | 45    | 291265  | 6428277  |
| 3k                          | 298996  | 6436304  | 211  | 299510  | 6426190  | 45b   | 291282  | 6428296  |
| 3m                          | 297969  | 6436400  | 299  | 291514  | 6421737  | 45c   | 291304  | 6428289  |
| 3n                          | 299588  | 6436754  | 487b | 292201  | 6422345  | 120   | 299721  | 6430733  |
| 3o                          | 297891  | 6436910  | 5f   | 298436  | 6426200  | 120c  | 299694  | 6430747  |
| 3p                          | 297513  | 6436961  | 5g   | 298394  | 6426282  | 121   | 299655  | 6430781  |
| 3r                          | 297666  | 6438671  | 5i   | 291555  | 6421395  | 526   | 300536  | 6429474  |
| 3s                          | 297228  | 6438718  | 5j   | 289651  | 6421421  | 1ax   | 299850  | 6430393  |
| 3t                          | 299041  | 6436269  | 5k   | 291644  | 6421571  | 74    | 300004  | 6429277  |
| 3u                          | 299122  | 6436239  | 5l   | 291885  | 6422033  | 487   | 292323  | 6421880  |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Name                                   | Easting | Northing | Name  | Easting | Northing | Name  | Easting | Northing |
|----------------------------------------|---------|----------|-------|---------|----------|-------|---------|----------|
| 3v                                     | 298608  | 6435243  | 5m    | 293826  | 6422113  | 488a  | 292981  | 6421913  |
| 8b                                     | 286950  | 6420596  | 5p    | 293238  | 6422606  | 488b  | 292667  | 6422647  |
| 8c                                     | 286886  | 6420607  | 5r    | 295705  | 6423948  |       |         |          |
| <b>Residential - Council and State</b> |         |          |       |         |          |       |         |          |
| 286e                                   | 304914  | 6423909  | N9    | 300896  | 6438422  | N20   | 301049  | 6438328  |
| 286f                                   | 305181  | 6423967  | N10   | 300890  | 6438403  | N21   | 301035  | 6438241  |
| UHSC1                                  | 300616  | 6440363  | N11   | 300924  | 6438351  | N22   | 303781  | 6432747  |
| N1                                     | 300905  | 6438529  | N12   | 301077  | 6438487  | N23   | 303791  | 6432764  |
| N2                                     | 300925  | 6438525  | N13   | 301073  | 6438470  | N24   | 303802  | 6432778  |
| N3                                     | 300943  | 6438524  | N14   | 301069  | 6438434  | N25   | 303952  | 6433292  |
| N4                                     | 300960  | 6438523  | N15   | 301068  | 6438416  | N26   | 303940  | 6433330  |
| N5                                     | 300905  | 6438483  | N16   | 301066  | 6438399  | N27   | 303973  | 6433346  |
| N6                                     | 300902  | 6438470  | N17   | 301062  | 6438381  | N28   | 302450  | 6431157  |
| N7                                     | 300899  | 6438454  | N18   | 301058  | 6438363  |       |         |          |
| N8                                     | 300898  | 6438435  | N19   | 301056  | 6438345  |       |         |          |
| <b>Aged Care</b>                       |         |          |       |         |          |       |         |          |
| 658a                                   | 300880  | 6428415  | 658c  | 300989  | 6428353  | 658e  | 300960  | 6428334  |
| 658b                                   | 300982  | 6428403  | 658d  | 300981  | 6428334  |       |         |          |
| <b>Prison</b>                          |         |          |       |         |          |       |         |          |
| MP1                                    | 304175  | 6433242  | MP42  | 304401  | 6433111  | MP80  | 304883  | 6432951  |
| <b>Commercial (accommodation)</b>      |         |          |       |         |          |       |         |          |
| 622b                                   | 300813  | 6428070  | 622m  | 300805  | 6428015  | 622x  | 300788  | 6427916  |
| 622c                                   | 300810  | 6428060  | 622n  | 300805  | 6428005  | 622y  | 300808  | 6427915  |
| 622d                                   | 300822  | 6428053  | 622o  | 300811  | 6427986  | 622z  | 300824  | 6427913  |
| 622e                                   | 300828  | 6428059  | 622p  | 300813  | 6427981  | 622aa | 300833  | 6427918  |
| 622f                                   | 300833  | 6428065  | 622q  | 300819  | 6427974  | 622ab | 300839  | 6427923  |
| 622g                                   | 300837  | 6428070  | 622r  | 300828  | 6427967  | 622ac | 300779  | 6427938  |
| 622h                                   | 300818  | 6428046  | 622s  | 300839  | 6427963  | 622ad | 300782  | 6427943  |
| 622i                                   | 300815  | 6428042  | 622t  | 300844  | 6427958  | 622ae | 300786  | 6427956  |
| 622j                                   | 300810  | 6428032  | 622u  | 300775  | 6427926  | 622af | 300789  | 6427963  |
| 622k                                   | 300813  | 6428036  | 622v  | 300777  | 6427932  | 622ag | 300792  | 6427970  |
| 622l                                   | 300806  | 6428022  | 622w  | 300853  | 6427954  | 975   | 300992  | 6438136  |
| <b>Commercial</b>                      |         |          |       |         |          |       |         |          |
| 6                                      | 298610  | 6426132  | 546b  | 300339  | 6427586  | 872b  | 302387  | 6431018  |
| 195e                                   | 302049  | 6432884  | 546c  | 300347  | 6427604  | 1085  | 301174  | 6438420  |
| 140b-1                                 | 302278  | 6430796  | 617b  | 300800  | 6427830  | 1bi   | 297450  | 6433177  |
| 140b-2                                 | 302298  | 6430770  | 617c  | 300748  | 6427882  | 1bj   | 297451  | 6433185  |
| 140b-3                                 | 302319  | 6430829  | 617d  | 300745  | 6427854  | 1bk   | 297452  | 6433192  |
| 140b-4                                 | 302269  | 6430825  | 617e  | 300733  | 6427864  | 1bl   | 297453  | 6433200  |
| 202c                                   | 301708  | 6431218  | 617f  | 300741  | 6427866  | 1bm   | 297454  | 6433208  |
| 202d                                   | 301641  | 6431256  | 617g  | 300800  | 6427807  | 1bn   | 297455  | 6433216  |
| 202e                                   | 301651  | 6431306  | 617h  | 300771  | 6427818  | 1bo   | 297456  | 6433223  |
| 202f                                   | 301684  | 6431300  | 617i  | 300782  | 6427846  | 1bp   | 297457  | 6433231  |
| 202g                                   | 301677  | 6431286  | 620   | 300874  | 6427863  | 1bq   | 297458  | 6433239  |
| 411d                                   | 294973  | 6439996  | 622ah | 300810  | 6427938  | 1br   | 297459  | 6433246  |
| 414b                                   | 300767  | 6440483  | 622ai | 300812  | 6427950  | 2ap   | 292350  | 6423979  |
| 414c                                   | 300775  | 6440491  | 611aj | 300848  | 6427943  | 2aq   | 292215  | 6424163  |
| 414d                                   | 300775  | 6440479  | 622ak | 300862  | 6427948  | 2ar   | 292208  | 6424153  |
| 414e                                   | 300763  | 6440517  | 625   | 300904  | 6427946  | 5h    | 289886  | 6421308  |
| 414f                                   | 300784  | 6440530  | 629   | 300925  | 6427900  | 5w    | 290175  | 6424831  |
| 472d                                   | 289233  | 6422879  | 626   | 300902  | 6427878  | 5an   | 289922  | 6421309  |
| 472e                                   | 289198  | 6422896  | 627   | 300911  | 6427885  | 5ao   | 289865  | 6421347  |
| 472f                                   | 289322  | 6422944  | 628   | 300918  | 6427890  | 5ap   | 290190  | 6424811  |
| 472g                                   | 289359  | 6422932  | 630a  | 300969  | 6427939  | 8q    | 286898  | 6420715  |
| 472h                                   | 289316  | 6423002  | 630b  | 300949  | 6427957  | Mal4  | 304171  | 6421187  |
| 472i                                   | 289286  | 6423020  | 630c  | 300951  | 6427920  | Mal5  | 304178  | 6421225  |
| 472j                                   | 289216  | 6423051  | 630d  | 300994  | 6427975  | Mal6  | 304108  | 6421201  |
| 472k                                   | 289150  | 6423080  | 656   | 300927  | 6428312  | UHSC2 | 300508  | 6437938  |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Name            | Easting | Northing | Name | Easting | Northing | Name  | Easting | Northing |
|-----------------|---------|----------|------|---------|----------|-------|---------|----------|
| 472l            | 289413  | 6423059  | 674a | 300764  | 6428614  | UHSC3 | 300538  | 6437969  |
| 472m            | 289357  | 6423114  | 674b | 300732  | 6428613  | UHSC4 | 300529  | 6437944  |
| 489             | 296045  | 6424961  | 818a | 301322  | 6429712  | N29   | 303474  | 6432379  |
| 540             | 300567  | 6427625  | 818b | 301318  | 6429690  |       |         |          |
| 546a            | 300298  | 6427589  | 844b | 301864  | 6430299  |       |         |          |
| <b>School</b>   |         |          |      |         |          |       |         |          |
| N30             | 300752  | 6428412  | N32  | 300783  | 6428432  | N33   | 300762  | 6428447  |
| N31             | 300779  | 6428412  |      |         |          |       |         |          |
| <b>Church</b>   |         |          |      |         |          |       |         |          |
| 520             | 303177  | 6431293  | 658c | 300960  | 6428359  | N34   | 303965  | 6433325  |
| 658b            | 300972  | 6428497  | 616c | 300772  | 6427803  |       |         |          |
| <b>Heritage</b> |         |          |      |         |          |       |         |          |
| H1              | 288293  | 6420171  | H8   | 297137  | 6426744  | H15   | 296060  | 6424240  |
| H2              | 300946  | 6428412  | H9   | 297131  | 6426788  | H16   | 296080  | 6424229  |
| H3              | 298206  | 6426818  | H10  | 297825  | 6427713  | H17   | 296100  | 6424213  |
| H4              | 297179  | 6426711  | H11  | 299151  | 6425520  | H18   | 296125  | 6424212  |
| H5              | 297181  | 6426697  | H12  | 295976  | 6424195  | H19   | 303858  | 6433274  |
| H6              | 297156  | 6426693  | H13  | 296002  | 6424237  |       |         |          |
| H7              | 297151  | 6426735  | H14  | 296019  | 6424249  |       |         |          |



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## **Appendix B**

### ***Selection of Modelling Year***





A statistical analysis of 12 contiguous years of meteorological data from the Scone Airport Automatic Weather Station (AWS) is presented in **Table B-1**. The standard deviation of the 12 years was analysed against the long-term measured wind speed, temperature and relative humidity spanning a 14 to 19-year period recorded at the station.

The analysis indicates that 2020 is closest to the long-term average for wind speed followed by 2021. The closest year to the long-term average for temperature is 2021, followed by 2020. For relative humidity, 2020 is the closest followed by 2021 and 2015. We note that when considering other meteorological conditions, the 2020 and 2021 periods were influenced by high annual rainfall. The 2015 period is shown to be in the middle of the range for wind speed and temperature and in the next closest for relative humidity.

This analysis suggests 2015 could be considered as the most representative of the long-term measured wind speed, temperature and relative humidity. Further analysis of 2015 against the other years was performed to determine its suitability.

**Table B-1: Statistical analysis results of standard deviation from long-term meteorological data at Scone Airport AWS**

| Year | Wind speed | Temperature | Relative humidity |
|------|------------|-------------|-------------------|
| 2013 | 0.38       | 0.9         | 5.4               |
| 2014 | 0.30       | 1.0         | 5.8               |
| 2015 | 0.32       | 1.0         | 3.8               |
| 2016 | 0.30       | 1.2         | 6.3               |
| 2017 | 0.36       | 1.5         | 8.3               |
| 2018 | 0.34       | 1.2         | 9.4               |
| 2019 | 0.39       | 1.6         | 10.8              |
| 2020 | 0.23       | 0.8         | 3.2               |
| 2021 | 0.27       | 0.6         | 3.5               |
| 2022 | 0.32       | 0.8         | 6.5               |
| 2023 | 0.30       | 1.3         | 7.3               |
| 2024 | 0.44       | 1.1         | 4.9               |

**Figure B-1** presents a graphical analysis of monthly meteorological conditions at the Scone Airport AWS from 2013 to 2024. The monthly conditions for a range of meteorological parameters are expressed as the maximum, minimum and 25<sup>th</sup> and 75<sup>th</sup> percentiles. The 2015 data are presented as the orange line for comparison with the range of the data set shown in the blue colours.

The 2015 data trend relatively well with the monthly average of the dataset values for temperature and overall show little inter-annual variation for temperature. The relative humidity during 2015 shows typically above-average levels for most of the year. The wind speed indicates levels above the monthly average in the first half of the year and typically below in the second half.

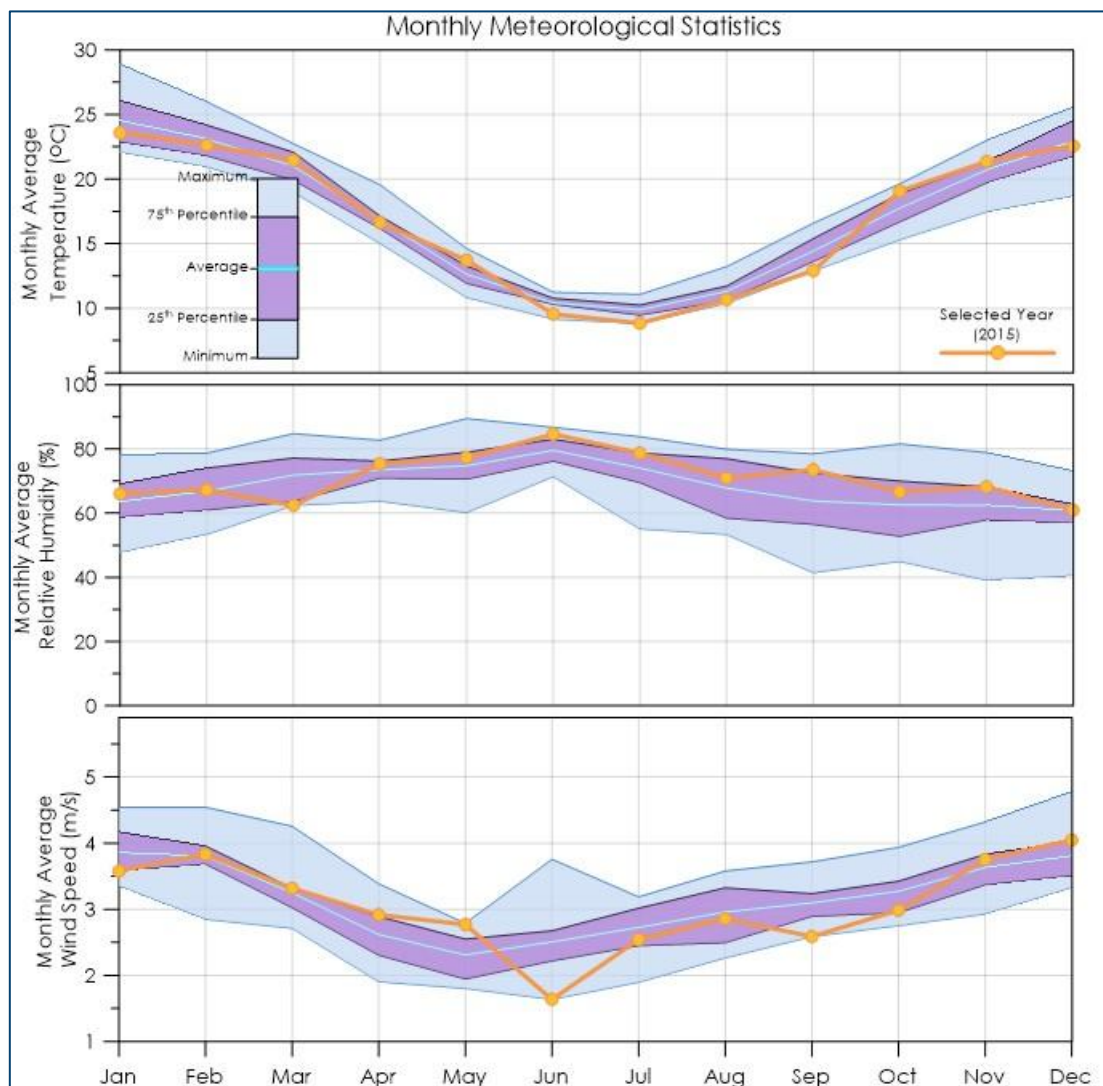


Figure B-1: Graphical analysis of meteorological conditions at Scone Airport AWS

A frequency distribution of the meteorological parameters is shown in **Figure B-2**. The graphs indicate that 2015 trends very close to the mean value for each of the meteorological parameters assessed.

Further detailed analysis of the distribution of the meteorological parameters is shown in **Figure B-3**. The graphs on the left-hand side show the frequency distribution for each year and the graphs on the right-hand side show the deviation from the mean value for each of the years.

For wind speed, each year shows a similar deviation from the mean. The wind direction in 2014 and 2016 shows noticeable deviation in frequency of winds from the south and from the north-west in 2016. Temperature in 2015 indicates a higher frequency of values approximately at 20 degrees Celsius and during 2017, 2022 and 2023 for temperatures approximately ranging from 10 to 20 degrees Celsius. For relative humidity, 2018, 2019 and 2022 values at approximately 30% show noticeable deviation.

Overall, this analysis indicates that 2015 is generally representative of the long-term average and does not indicate any significant variation of the last five years of data.

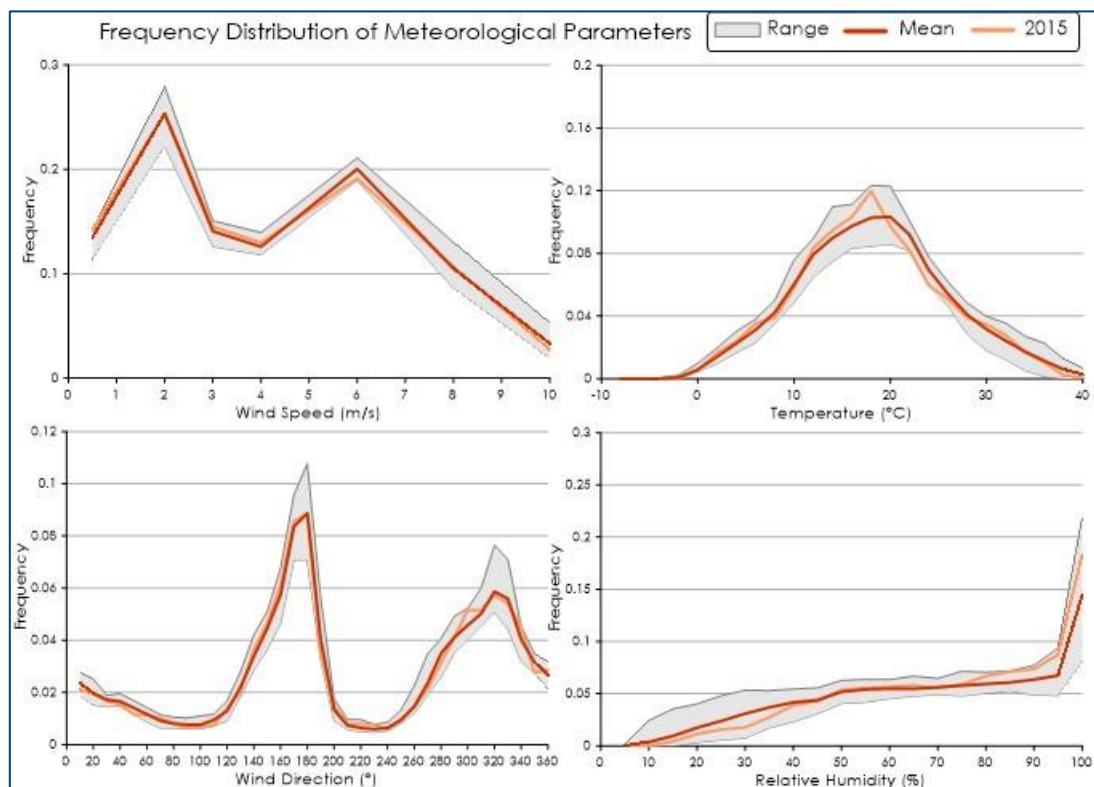


Figure B-2: Frequency distribution of meteorological parameters (2013 – 2024)

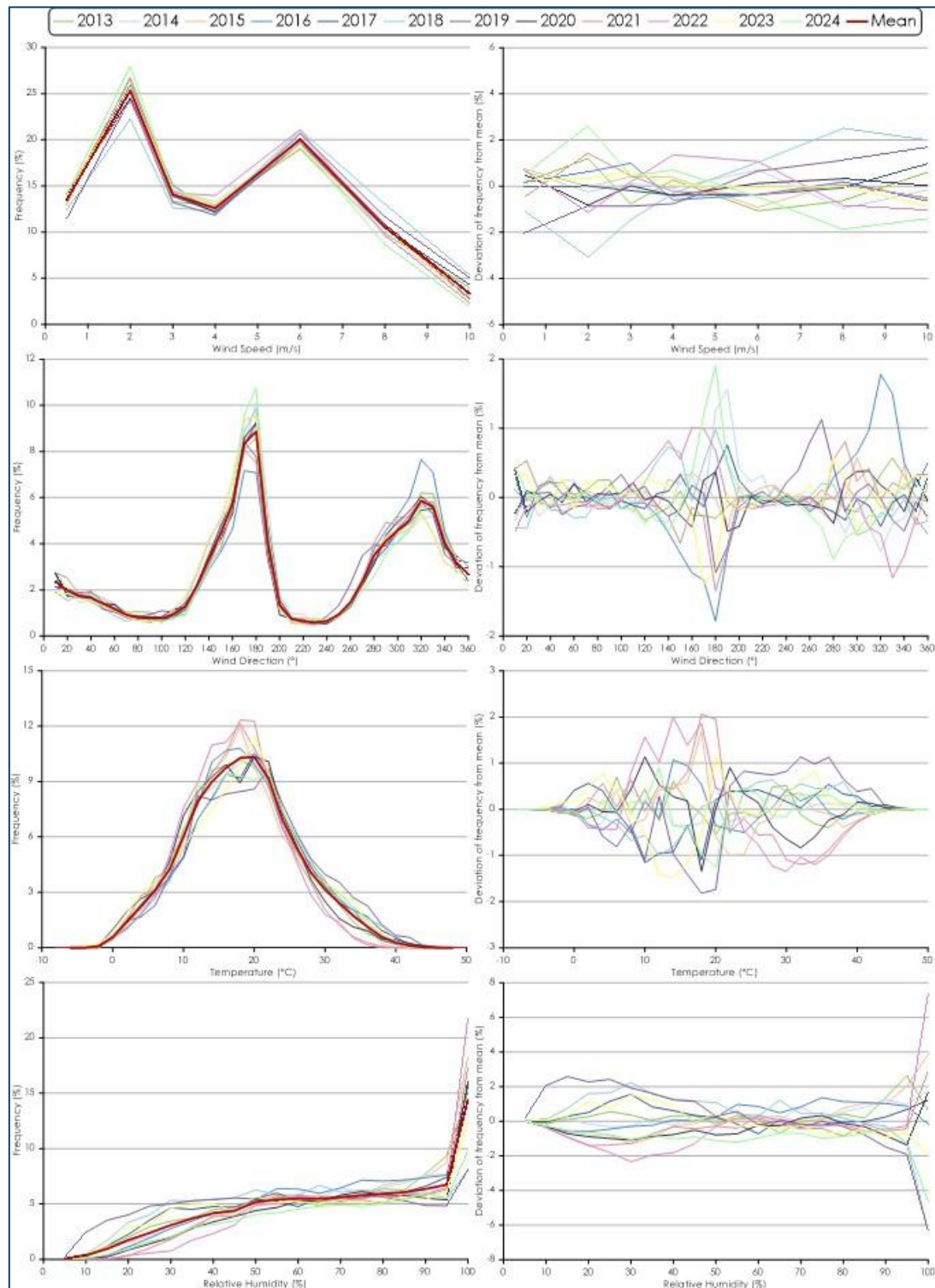


Figure B-3: Frequency distribution of meteorological parameters and standard deviation from mean (2013 – 2024)

Annual rainfall over the last seven-year period at the Scone Airport AWS with the long-term average is shown in **Figure B-4**. Annual rainfall during 2014, 2017, 2018, 2019 and 2023 were below the long-term average of 620.7 millimetres (mm) with the 2013, 2015, 2016, 2020, 2021, 2022 and 2024 above the long-term average.

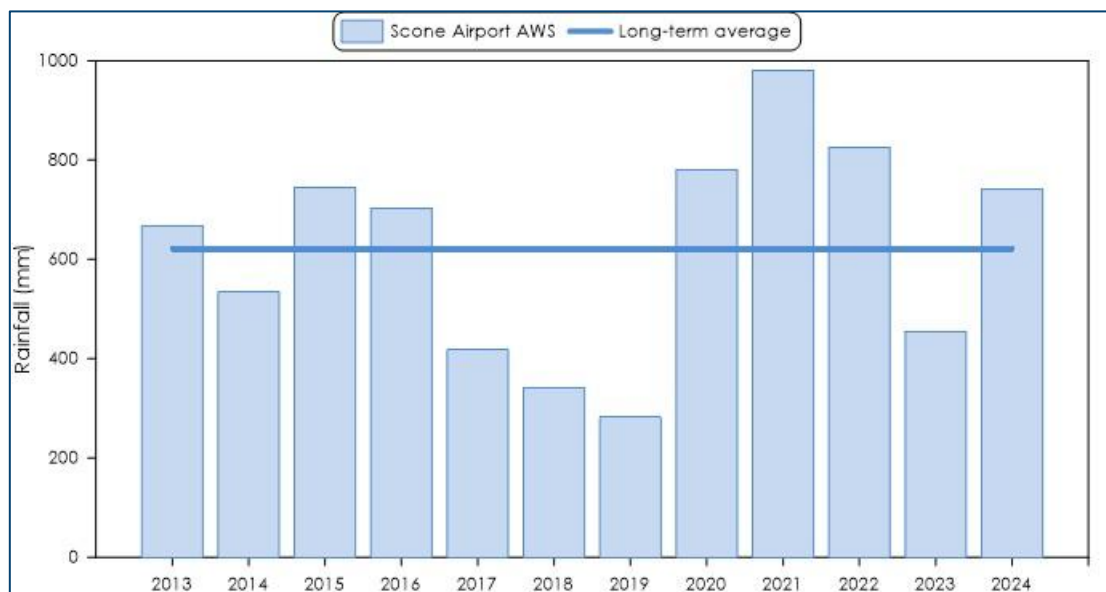


Figure B-4: Annual rainfall – Scone Airport AWS

Background dust levels can reduce due to rainfall. **Figure B-5** shows the monthly average PM<sub>10</sub> concentrations with monthly rainfall levels in Muswellbrook. However, this does not mean there will be a relationship between high rainfall and low dust levels over the long-term, as can be seen in **Figure B-6**. The figure presents annual average PM<sub>10</sub> and PM<sub>2.5</sub> levels from the Muswellbrook monitor compared with the annual rainfall for the 2013 to 2024 period from the Muswellbrook BoM station. It can be seen from the graphs in **Figure B-6** that there is no clear correlation between annual dust levels and annual rainfall over the last five years of data in this location.

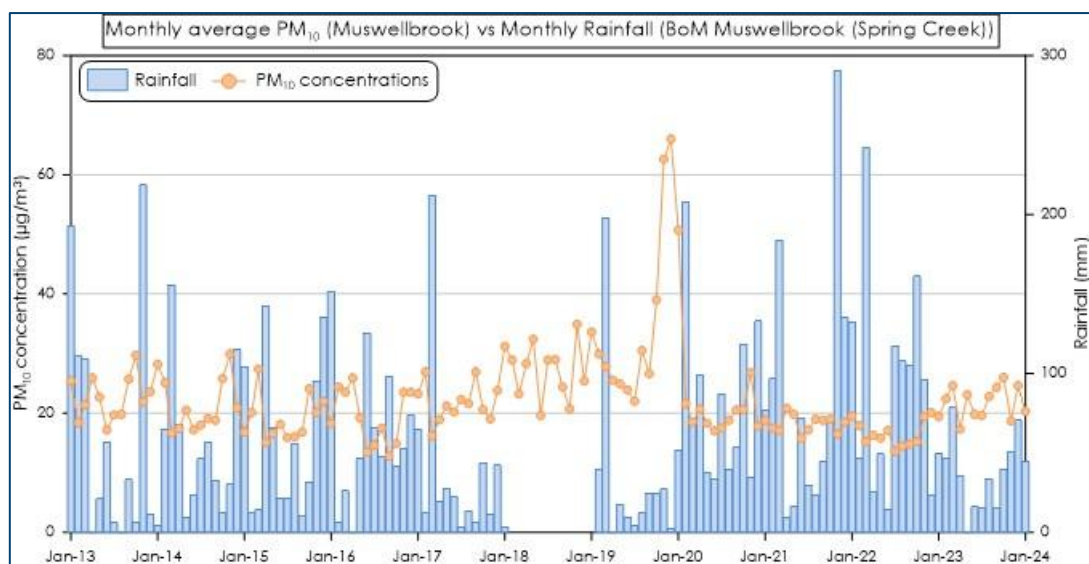


Figure B-5: Monthly average PM<sub>10</sub> levels vs monthly rainfall for Muswellbrook



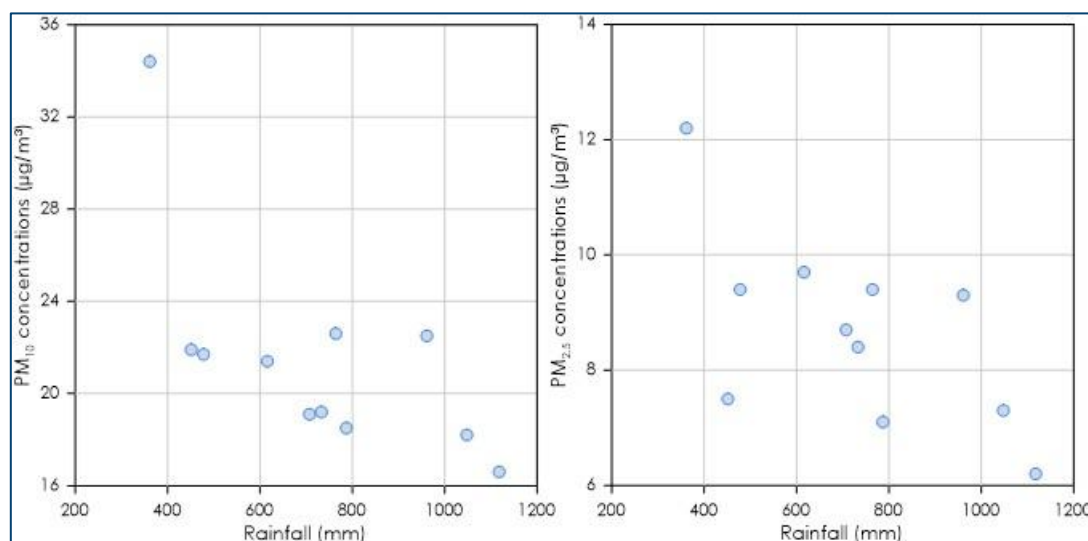


Figure B-6: Correlation of annual average PM<sub>10</sub> and PM<sub>2.5</sub> concentrations with rainfall

A score weighting analysis was performed to consider the deviation from the average for each of the last 12 years of meteorological and dust monitoring data in **Table B-2**. The values shaded in light-blue indicate the lowest deviation and in orange the highest deviation.

The score value is based on the weighting of the different parameters as considered most relevant for the purposes of air dispersion modelling and assessment. The score for 2015 is lowest indicating it is most representative. The meteorological year is generally selected only by considering representative meteorological data. In this case 2015 is also the most representative year, even when dust levels are also considered.

Table B-2: Score weighting analysis of modelling year selection

|           | WS   | WD   | Temp. | R.H. | PM <sub>10</sub> | PM <sub>2.5</sub> | Score with dust | Score |
|-----------|------|------|-------|------|------------------|-------------------|-----------------|-------|
| Weighting | 2    | 4    | 1     | 1    | 1                | 2                 |                 |       |
| 2013      | 0.45 | 0.18 | 0.13  | 0.38 | 1.03             | 1.08              | 5.31            | 2.12  |
| 2014      | 0.27 | 0.29 | 0.13  | 0.34 | 0.98             | 1.11              | 5.36            | 2.16  |
| 2015      | 0.26 | 0.13 | 0.20  | 0.54 | 0.87             | 1.00              | 4.64            | 1.78  |
| 2016      | 0.35 | 0.33 | 0.14  | 0.41 | 0.88             | 0.96              | 5.38            | 2.58  |
| 2017      | 0.46 | 0.19 | 0.26  | 0.58 | 0.99             | 1.08              | 5.65            | 2.51  |
| 2018      | 0.64 | 0.37 | 0.22  | 0.61 | 1.24             | 1.08              | 7.00            | 3.60  |
| 2019      | 0.55 | 0.39 | 0.32  | 0.88 | 1.57             | 1.40              | 8.23            | 3.86  |
| 2020      | 0.34 | 0.22 | 0.21  | 0.53 | 1.03             | 1.07              | 5.47            | 2.31  |
| 2021      | 0.41 | 0.19 | 0.30  | 0.51 | 0.83             | 0.84              | 4.89            | 2.39  |
| 2022      | 0.60 | 0.21 | 0.39  | 0.65 | 0.76             | 0.71              | 5.25            | 3.07  |
| 2023      | 0.64 | 0.24 | 0.21  | 0.44 | 1.00             | 0.86              | 5.59            | 2.87  |
| 2024      | 0.44 | 0.21 | 0.24  | 0.48 | 0.84             | 0.81              | 4.88            | 2.41  |

WS = wind speed, WD = wind direction, Temp. = temperature, R.H. = relative humidity

Based on the analysis presented in **Table B-2**, the 2015 calendar year was chosen to be most suitable for use in dispersion modelling. It is noted that use of the 2015 calendar year allows direct comparison of modelling results to previous assessment conducted for the Mount Pleasant Operation (Todoroski Air Sciences, 2017, 2020).

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## **Appendix C**

### ***Emission Calculation***



## **Emission Calculation**

The mining schedule and mine plan designs provided by the Proponent have been combined with emissions factor equations that relate to the quantity of dust emitted from particular activities based on intensity, the prevailing meteorological conditions, and composition of the material being handled.

Emission factors and associated controls have been sourced from the US EPA AP42 Emission Factors (**US EPA, 1995 and Updates**), the National Pollutant Inventory document *Emission Estimation Technique Manual for Mining, Version 3.1* (**NPI, 2012**) and the NSW EPA document, *NSW Coal Mining Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining*, prepared by Katestone Environmental (**Katestone Environmental, 2011**).

The emission factor equations used for each dust-generating activity are outlined in **Table C-1** below. Detailed emission inventories for each scenario are presented in **Table C-2** to **Table C-7**.

Control factors include the following:

- ✦ Hauling on unpaved surfaces – 80% to 90% control for watering of trafficked areas. Note the control factor is only applied to the mechanically generated emissions and not the contributions from the diesel exhaust emissions.
- ✦ Drilling overburden material – 70% control for use of dust suppression.
- ✦ Unloading ROM to hopper at CHPP – 85% control for use of enclosure and fogging sprays.
- ✦ Conveyor transfer points – 70% control enclosures and water sprays.
- ✦ Conveyor – 70% control for enclosed conveyors.
- ✦ Loading product coal to stockpile – 25% for use of luffing stacker.
- ✦ Overburden emplacement areas – 21% for primary rehabilitation, watering of exposed surface and surface crusting. Control factor is based on applying 30% control to 70% of the inactive area.
- ✦ Open cut – 18% for inactivity and surface crusting/ stabilisation. Control factor is based on applying 30% control to 60% of the inactive area.
- ✦ Topsoil stockpiles – 65% for watering stockpile surface and vegetative wind breaks.
- ✦ Initial rehabilitation – 70% for vegetative ground cover.

Potential air emissions associated with locomotives idling at the rail loop have been included in the emissions inventory. Emission estimates assume three locomotives idling continuously with emission based on Class 81 locomotive emission rates (**Parsons Brinckerhoff, 2012**).

Air emissions associated with the operation of the diesel-powered equipment have been estimated based on the number of equipment, power rating, hours of operation and emission factors sourced from the NSW EPA document *NSW Coal Mining Benchmarking Study Best-practice measures for reducing non-road diesel exhaust emissions* (**NSW EPA, 2014**). Emission factors for Scenario 1 are based on Tier 2 equipment and in Scenario 2 and 3 assume Tier 4 equipment. A detailed emission inventory for diesel emissions is presented in **Table C-8**.



Table C-1: Emission factor equations

| Activity                                                                               | Emission factor equation                                                                                                                                   |                                                                                                                             |                                                                                                                              |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                        | TSP                                                                                                                                                        | PM <sub>10</sub>                                                                                                            | PM <sub>2.5</sub>                                                                                                            |
| Drilling (overburden)                                                                  | $EF = 0.59 \text{ kg/hole}$                                                                                                                                | $0.52 \times TSP$                                                                                                           | $0.03 \times TSP$                                                                                                            |
| Blasting (overburden)                                                                  | $EF = 0.00022 \times A^{1.5} \text{ kg/blast}$                                                                                                             | $0.52 \times TSP$                                                                                                           | $0.03 \times TSP$                                                                                                            |
| Loading / emplacing overburden & loading product coal to stockpile & conveyor transfer | $EF = 0.74 \times 0.0016 \times \left( \frac{U^{1.3}}{2.2} / \frac{M^{1.4}}{2} \right) \text{ kg/tonne}$                                                   | $EF = 0.35 \times 0.0016 \times \left( \frac{U^{1.3}}{2.2} / \frac{M^{1.4}}{2} \right) \text{ kg/tonne}$                    | $EF = 0.053 \times 0.0016 \times \left( \frac{U^{1.3}}{2.2} / \frac{M^{1.4}}{2} \right) \text{ kg/tonne}$                    |
| Hauling on unsealed surfaces                                                           | $EF = \left( \frac{0.4536}{1.6093} \right) \times 4.9 \times (s/12)^{0.7} \times (1.1023 \times M/3)^{0.45} \text{ kg/VKT}$                                | $EF = \left( \frac{0.4536}{1.6093} \right) \times 1.5 \times (s/12)^{0.9} \times (1.1023 \times M/3)^{0.45} \text{ kg/VKT}$ | $EF = \left( \frac{0.4536}{1.6093} \right) \times 0.15 \times (s/12)^{0.9} \times (1.1023 \times M/3)^{0.45} \text{ kg/VKT}$ |
| Dozers on overburden                                                                   | $EF = 2.6 \times \frac{s^{1.2}}{M^{1.3}} \text{ kg/hour}$                                                                                                  | $EF = 0.45 \times \frac{s^{1.5}}{M^{1.4}} \times 0.75 \text{ kg/hour}$                                                      | $EF = 0.45 \times \frac{s^{1.5}}{M^{1.4}} \times 0.105 \text{ kg/hour}$                                                      |
| Dozers on coal                                                                         | $EF = 35.6 \times \frac{s^{1.2}}{M^{1.4}} \text{ kg/hour}$                                                                                                 | $EF = 8.44 \times \frac{s^{1.5}}{M^{1.4}} \times 0.75 \text{ kg/hour}$                                                      | $EF = 8.44 \times \frac{s^{1.5}}{M^{1.4}} \times 0.022 \text{ kg/hour}$                                                      |
| Loading / emplacing coal                                                               | $EF = \frac{0.58}{M^{1.2}} \text{ kg/tonne}$                                                                                                               | $EF = \frac{0.0596}{M^{0.9}} \times 0.75 \text{ kg/tonne}$                                                                  | $EF = \frac{0.0596}{M^{0.9}} \times 0.019 \text{ kg/tonne}$                                                                  |
| Wind erosion on exposed areas & conveyors                                              | $EF = 850 \text{ kg/ha /year}$                                                                                                                             | $0.5 \times TSP$                                                                                                            | $0.075 \times TSP$                                                                                                           |
| Wind erosion on stockpiles                                                             | $EF = 1.9 \times \left( \frac{s}{1.5} \right) \times 365 \times \left( \frac{365 - p}{235} \right) \times \left( \frac{f}{15} \right) \text{ kg/ha /year}$ | $0.5 \times TSP$                                                                                                            | $0.075 \times TSP$                                                                                                           |
| Grading roads                                                                          | $EF = 0.0034 \times sp^{2.5} \text{ kg/VKT}$                                                                                                               | $EF = 0.0056 \times sp^{2.0} \times 0.6 \text{ kg/VKT}$                                                                     | $EF = 0.0056 \times sp^{2.0} \times 0.031 \text{ kg/VKT}$                                                                    |

EF = emission factor, A = area of blast (m<sup>2</sup>), U = wind speed (m/s), M = moisture content (%), s = silt content (%), VKT = vehicle kilometres travelled (km), p = number of days per year when rainfall is greater than 0.25mm (days), f = percentage of time that wind speed is greater than 5.4m/s (%), sp = speed of grader (km/h).



Table C-2: Emission inventory – Scenario 1

| Activity                                      | TSP<br>emission<br>(kg/y) | PM10<br>emission<br>(kg/y) | PM25<br>emission<br>(kg/y) | Intensity  | Units    | EF -<br>TSP | EF -<br>PM10 | EF -<br>PM25 | Units    | Var. 1 | Units            | Var. 2 | Units   | Var. 3 -<br>TSP | PM 10 | PM 25 | Unit<br>s | Var. 4 | Unit<br>s | Var. 5 | Unit<br>s | Var. 6 | Unit<br>s |
|-----------------------------------------------|---------------------------|----------------------------|----------------------------|------------|----------|-------------|--------------|--------------|----------|--------|------------------|--------|---------|-----------------|-------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|
| N - Topsoil Removal with dozer                | 4,226                     | 999                        | 444                        | 338        | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Excavator loading topsoil to haul truck   | 51                        | 24                         | 4                          | 31,657     | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Hauling topsoil to dump                   | 460                       | 98                         | 10                         | 31,657     | t/yr.    | 0.073       | 0.016        | 0.002        | kg/t     | 300    | t/load           | 6.2    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| N - Emplacing topsoil at dump                 | 51                        | 24                         | 4                          | 31,657     | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Drilling                                  | 5,377                     | 2,796                      | 161                        | 30,378     | holes/y  | 0.59        | 0.31         | 0.02         | kg/hole  |        |                  |        |         |                 |       |       |           |        |           |        |           | 70     | % C.      |
| N - Blasting                                  | 52,447                    | 27,273                     | 1,573                      | 49         | blasts/y | 1069        | 555.9        | 32.1         | kg/blast | 28,688 | Area of blast m² |        |         |                 |       |       |           |        |           |        |           |        |           |
| N - Excavator loading OB to haul truck        | 62,745                    | 29,677                     | 4,494                      | 38,756,429 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Hauling to dump (Day period)              | 257,940                   | 55,180                     | 5,518                      | 17,763,363 | t/yr.    | 0.073       | 0.016        | 0.002        | kg/t     | 300    | t/load           | 6.2    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| N - Hauling to dump (Night period)            | 287,987                   | 61,608                     | 6,161                      | 20,993,066 | t/yr.    | 0.069       | 0.015        | 0.001        | kg/t     | 300    | t/load           | 5.9    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| N - Emplacing at dump                         | 62,745                    | 29,677                     | 4,494                      | 38,756,429 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Rehandle OB                               | 6,275                     | 2,968                      | 449                        | 3,875,643  | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Dozers on OB in pit (Day period)          | 33,026                    | 7,805                      | 3,468                      | 2,638      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Dozers on OB in pit (Night period)        | 39,031                    | 9,224                      | 4,098                      | 3,117      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Dozers on OB working on OB (Day period)   | 33,026                    | 7,805                      | 3,468                      | 2,638      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Dozers on OB working on OB (Night period) | 39,031                    | 9,224                      | 4,098                      | 3,117      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Dozers ripping/pushing/clean-up           | 26,744                    | 6,186                      | 588                        | 1,895      | hr/yr.   | 14.1        | 3.3          | 0.3          | kg/h     | 5      | S.C. %           | 9      | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| N - Loading ROM coal to haul truck            | 196,521                   | 29,279                     | 3,734                      | 4,732,289  | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t     | 9      | M.C. %           |        |         |                 |       |       |           |        |           |        |           |        |           |
| N - Hauling ROM to hopper (Day period)        | 41,816                    | 8,946                      | 895                        | 2,168,966  | t/yr.    | 0.193       | 0.041        | 0.004        | kg/t     | 220    | t/load           | 13.4   | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 90     | % C.      |
| N - Hauling ROM to hopper (Night period)      | 49,419                    | 10,572                     | 1,057                      | 2,563,323  | t/yr.    | 0.193       | 0.041        | 0.004        | kg/t     | 220    | t/load           | 13.4   | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 90     | % C.      |
| C - Topsoil Removal with dozer                | 11,440                    | 2,703                      | 1,201                      | 914        | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Excavator loading topsoil to haul truck   | 139                       | 66                         | 10                         | 85,693     | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Hauling topsoil to dump                   | 1,317                     | 282                        | 28                         | 85,693     | t/yr.    | 0.077       | 0.016        | 0.002        | kg/t     | 300    | t/load           | 6.6    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| C - Emplacing topsoil at dump                 | 139                       | 66                         | 10                         | 85,693     | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Drilling                                  | 6,226                     | 3,238                      | 187                        | 35,175     | holes/y  | 0.59        | 0.31         | 0.02         | kg/hole  |        |                  |        |         |                 |       |       |           |        |           |        |           | 70     | % C.      |
| C - Blasting                                  | 60,730                    | 31,580                     | 1,822                      | 57         | blasts/y | 1069        | 555.9        | 32.1         | kg/blast | 28,688 | Area of blast m² |        |         |                 |       |       |           |        |           |        |           |        |           |
| C - Excavator loading OB to haul truck        | 72,655                    | 34,364                     | 5,204                      | 44,877,357 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Hauling to dump (Day period)              | 316,016                   | 67,604                     | 6,760                      | 20,568,789 | t/yr.    | 0.077       | 0.016        | 0.002        | kg/t     | 300    | t/load           | 6.6    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| C - Hauling to dump (Night period)            | 383,097                   | 81,955                     | 8,195                      | 24,308,569 | t/yr.    | 0.079       | 0.017        | 0.002        | kg/t     | 300    | t/load           | 6.7    | km/retu | 3.5             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 350    | t         | 80     | % C.      |
| C - Emplacing at dump                         | 72,655                    | 34,364                     | 5,204                      | 44,877,357 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Rehandle OB                               | 7,265                     | 3,436                      | 520                        | 4,487,736  | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Dozers on OB in pit (Day period)          | 38,242                    | 9,037                      | 4,015                      | 3,054      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Dozers on OB in pit (Night period)        | 45,195                    | 10,681                     | 4,745                      | 3,609      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Dozers on OB working on OB (Day period)   | 38,242                    | 9,037                      | 4,015                      | 3,054      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Dozers on OB working on OB (Night period) | 45,195                    | 10,681                     | 4,745                      | 3,609      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Dozers ripping/pushing/clean-up           | 27,266                    | 6,307                      | 600                        | 1,932      | hr/yr.   | 14.1        | 3.3          | 0.3          | kg/h     | 5      | S.C. %           | 9      | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| C - Loading ROM coal to haul truck            | 200,356                   | 29,851                     | 3,807                      | 4,824,653  | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t     | 9      | M.C. %           |        |         |                 |       |       |           |        |           |        |           |        |           |
| C - Hauling ROM to hopper (Day period)        | 38,789                    | 8,298                      | 830                        | 2,211,299  | t/yr.    | 0.175       | 0.038        | 0.004        | kg/t     | 220    | t/load           | 12.2   | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 90     | % C.      |
| C - Hauling ROM to hopper (Night period)      | 45,842                    | 9,807                      | 981                        | 2,613,353  | t/yr.    | 0.175       | 0.038        | 0.004        | kg/t     | 220    | t/load           | 12.2   | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 90     | % C.      |
| S - Topsoil Removal with dozer                | -                         | -                          | -                          | -          | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Drilling                                  | 2,425                     | 1,261                      | 73                         | 13,700     | holes/y  | 0.59        | 0.31         | 0.02         | kg/hole  |        |                  |        |         |                 |       |       |           |        |           |        |           | 70     | % C.      |
| S - Blasting                                  | 23,653                    | 12,300                     | 710                        | 22         | blasts/y | 1069        | 555.9        | 32.1         | kg/blast | 28,688 | Area of blast m² |        |         |                 |       |       |           |        |           |        |           |        |           |
| S - Excavator loading OB to haul truck        | 28,297                    | 13,384                     | 2,027                      | 17,478,704 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Hauling to dump (Day period)              | 183,795                   | 39,319                     | 3,932                      | 8,011,073  | t/yr.    | 0.115       | 0.025        | 0.002        | kg/t     | 220    | t/load           | 8.0    | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 80     | % C.      |
| S - Hauling to dump (Night period)            | 221,835                   | 47,456                     | 4,746                      | 9,467,631  | t/yr.    | 0.117       | 0.025        | 0.003        | kg/t     | 220    | t/load           | 8.1    | km/retu | 3.2             | 0.7   | 0.1   | kg/Vh     | 2.0    | S.C. %    | 280    | t         | 80     | % C.      |
| S - Emplacing at dump                         | 28,297                    | 13,384                     | 2,027                      | 17,478,704 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Rehandle OB                               | 2,830                     | 1,338                      | 203                        | 1,747,870  | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t     | 1.869  | Ave. (WS/2)      | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Dozers on OB in pit (Day period)          | 14,894                    | 3,520                      | 1,564                      | 1,190      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Dozers on OB in pit (Night period)        | 17,602                    | 4,160                      | 1,848                      | 1,406      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Dozers on OB working on OB (Day period)   | 14,894                    | 3,520                      | 1,564                      | 1,190      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Dozers on OB working on OB (Night period) | 17,602                    | 4,160                      | 1,848                      | 1,406      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h     | 10     | S.C. %           | 2.5    | M.C. %  |                 |       |       |           |        |           |        |           |        |           |
| S - Dozers ripping/pushing/clean-up           | 16,632                    | 3,847                      | 366                        | 1,178      | hr/yr.   | 14.1        | 3.3          | 0.3          | kg/h     | 5      | S.C. %           | 9      | M.C. %  |                 |       |       |           |        |           |        |           |        |           |







Table C-3: Emission inventory – Scenario 2

| Activity                                      | TSP<br>emission<br>(kg/y) | PM10<br>emission<br>(kg/y) | PM25<br>emission<br>(kg/y) | Intensity  | Units    | EF -<br>TSP | EF -<br>PM10 | EF -<br>PM25 | Units     | Var. 1 | Units            | Var. 2 | Units       | Var. 3 -<br>TSP | PM1<br>0 | PM2<br>5 | Units  | Var. 4 | Units  | Var. 5 | Units | Var. 6  | Units   |
|-----------------------------------------------|---------------------------|----------------------------|----------------------------|------------|----------|-------------|--------------|--------------|-----------|--------|------------------|--------|-------------|-----------------|----------|----------|--------|--------|--------|--------|-------|---------|---------|
| N - Topsoil Removal with dozer                | 15,666                    | 3,702                      | 1,645                      | 1,251      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Excavator loading topsoil to haul truck   | 846                       | 400                        | 61                         | 522,265    | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Hauling topsoil to dump                   | 6,185                     | 1,323                      | 132                        | 522,265    | t/yr.    | 0.059       | 0.013        | 0.001        | kg/t      | 300    | t/load           | 5.1    | km/return t | 3.5             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 350    | t     | 80      | % C.    |
| N - Emplacing topsoil at dump                 | 846                       | 400                        | 61                         | 522,265    | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Drilling                                  | 11,702                    | 6,085                      | 351                        | 66,110     | holes/y  | 0.59        | 0.31         | 0.02         | kg/hole   |        |                  |        |             |                 |          |          |        |        |        |        |       | 70      | % C.    |
| N - Blasting                                  | 114,140                   | 59,353                     | 3,424                      | 107        | blasts/y | 1069        | 555.9        | 32.1         | kg/blast  | 28,688 | Area of blast m² |        |             |                 |          |          |        |        |        |        |       |         |         |
| N - Excavator loading OB to haul truck        | 145,026                   | 68,593                     | 10,387                     | 89,579,171 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Hauling to dump (Day period)              | 486,209                   | 104,013                    | 10,401                     | 41,057,120 | t/yr.    | 0.059       | 0.013        | 0.001        | kg/t      | 300    | t/load           | 5.1    | km/return t | 3.5             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 350    | t     | 80      | % C.    |
| N - Hauling to dump (Night period)            | 578,952                   | 123,853                    | 12,385                     | 48,522,051 | t/yr.    | 0.060       | 0.013        | 0.001        | kg/t      | 300    | t/load           | 5.1    | km/return t | 3.5             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 350    | t     | 80      | % C.    |
| N - Emplacing at dump                         | 145,026                   | 68,593                     | 10,387                     | 89,579,171 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Rehandle OB                               | 14,503                    | 6,859                      | 1,039                      | 8,957,917  | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Dozers on OB in pit (Day period)          | 71,874                    | 16,985                     | 7,547                      | 5,740      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Dozers on OB in pit (Night period)        | 84,942                    | 20,074                     | 8,919                      | 6,784      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Dozers on OB working on OB (Day period)   | 71,874                    | 16,985                     | 7,547                      | 5,740      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Dozers on OB working on OB (Night period) | 84,942                    | 20,074                     | 8,919                      | 6,784      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Dozers ripping/pushing/clean-up           | 54,890                    | 12,697                     | 1,208                      | 3,889      | hr/yr.   | 14.1        | 3.3          | 0.3          | kg/h      | 5      | S.C. %           | 9      | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| N - Loading ROM coal to haul truck            | 403,348                   | 60,094                     | 7,664                      | 9,712,772  | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t      | 9      | M.C. %           |        |             |                 |          |          |        |        |        |        |       |         |         |
| N - Hauling ROM to hopper (Day period)        | 77,764                    | 16,636                     | 1,664                      | 4,451,687  | t/yr.    | 0.175       | 0.037        | 0.004        | kg/t      | 220    | t/load           | 12.1   | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 90      | % C.    |
| N - Hauling ROM to hopper (Night period)      | 91,902                    | 19,660                     | 1,966                      | 5,261,085  | t/yr.    | 0.175       | 0.037        | 0.004        | kg/t      | 220    | t/load           | 12.1   | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 90      | % C.    |
| S - Drilling                                  | 2,326                     | 1,210                      | 70                         | 13,143     | holes/y  | 0.59        | 0.31         | 0.02         | kg/hole   |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| S - Blasting                                  | 22,691                    | 11,799                     | 681                        | 21         | blasts/y | 1069        | 555.9        | 32.1         | kg/blast  | 28,688 | Area of blast m² |        |             |                 |          |          |        |        |        |        |       |         |         |
| S - Excavator loading OB to haul truck        | 28,831                    | 13,636                     | 2,065                      | 17,808,233 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Hauling to dump (Day period)              | 145,944                   | 31,221                     | 3,122                      | 8,162,107  | t/yr.    | 0.089       | 0.019        | 0.002        | kg/t      | 220    | t/load           | 6.2    | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 80      | % C.    |
| S - Hauling to dump (Night period)            | 172,479                   | 36,898                     | 3,690                      | 9,646,126  | t/yr.    | 0.089       | 0.019        | 0.002        | kg/t      | 220    | t/load           | 6.2    | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 80      | % C.    |
| S - Emplacing at dump                         | 28,831                    | 13,636                     | 2,065                      | 17,808,233 | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Rehandle OB                               | 2,883                     | 1,364                      | 206                        | 1,780,823  | t/yr.    | 0.00162     | 0.00077      | 0.00012      | kg/t      | 1.869  | Ave. (WS/2..     | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Dozers on OB in pit (Day period)          | 14,288                    | 3,377                      | 1,500                      | 1,141      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Dozers on OB in pit (Night period)        | 16,886                    | 3,991                      | 1,773                      | 1,349      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Dozers on OB working on OB (Day period)   | 14,288                    | 3,377                      | 1,500                      | 1,141      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Dozers on OB working on OB (Night period) | 16,886                    | 3,991                      | 1,773                      | 1,349      | hr/yr.   | 12.5        | 3.0          | 1.3          | kg/h      | 10     | S.C. %           | 2.5    | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Dozers ripping/pushing/clean-up           | 15,752                    | 3,644                      | 347                        | 1,116      | hr/yr.   | 14.1        | 3.3          | 0.3          | kg/h      | 5      | S.C. %           | 9      | M.C. %      |                 |          |          |        |        |        |        |       |         |         |
| S - Loading ROM coal to haul truck            | 115,747                   | 17,245                     | 2,199                      | 2,787,228  | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t      | 9      | M.C. %           |        |             |                 |          |          |        |        |        |        |       |         |         |
| S - Hauling ROM to hopper (Day period)        | 16,195                    | 3,465                      | 346                        | 1,277,480  | t/yr.    | 0.127       | 0.027        | 0.003        | kg/t      | 220    | t/load           | 8.8    | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 90      | % C.    |
| S - Hauling ROM to hopper (Night period)      | 19,139                    | 4,094                      | 409                        | 1,509,749  | t/yr.    | 0.127       | 0.027        | 0.003        | kg/t      | 220    | t/load           | 8.8    | km/return t | 3.2             | 0.7      | 0.1      | kg/VKt | 2.0    | S.C. % | 280    | t     | 90      | % C.    |
| CHPP - Unloading ROM to hopper                | 77,864                    | 11,601                     | 1,479                      | 12,500,000 | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t      | 9      | M.C. %           |        |             |                 |          |          |        |        |        |        |       |         | 85 % C. |
| CHPP - Rehandle ROM at hopper                 | 103,819                   | 15,468                     | 1,973                      | 2,500,000  | t/yr.    | 0.042       | 0.006        | 0.001        | kg/t      | 9      | M.C. %           |        |             |                 |          |          |        |        |        |        |       |         |         |
| CHPP - Primary crushing                       | 33,750                    | 15,000                     | 2,778                      | 12,500,000 | t/yr.    | 0.0027      | 0.0012       | 0.0002       | kg/t      |        |                  |        |             |                 |          |          |        |        |        |        |       |         |         |
| CHPP - Transfer                               | 1,010                     | 478                        | 72                         | 12,500,000 | t/yr.    | 0.00027     | 0.00013      | 0.00002      | kg/t      | 1.869  | Ave. (WS/2..     | 9      | M.C. %      |                 |          |          |        |        |        |        |       | 70 % C. |         |
| CHPP - Conveying to secondary crusher         | 6                         | 3                          | 0                          | 0.023      | ha       | 850         | 425          | 64           | kg/ha/yr. |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| CHPP - Secondary crushing                     | 33,750                    | 15,000                     | 2,778                      | 12,500,000 | t/yr.    | 0.0027      | 0.0012       | 0.0002       | kg/t      |        |                  |        |             |                 |          |          |        |        |        |        |       |         |         |
| CHPP - Tertiary crushing                      | 33,750                    | 15,000                     | 2,778                      | 12,500,000 | t/yr.    | 0.0027      | 0.0012       | 0.0002       | kg/t      |        |                  |        |             |                 |          |          |        |        |        |        |       |         |         |
| CHPP - Transfer                               | 1,010                     | 478                        | 72                         | 12,500,000 | t/yr.    | 0.00027     | 0.00013      | 0.00002      | kg/t      | 1.869  | Ave. (WS/2..     | 9      | M.C. %      |                 |          |          |        |        |        |        |       | 70 % C. |         |
| CHPP - Conveying to 1000t bin                 | 9                         | 4                          | 1                          | 0.034      | ha       | 850         | 425          | 64           | kg/ha/yr. |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| CHPP - Transfer                               | 1,010                     | 478                        | 72                         | 12,500,000 | t/yr.    | 0.00027     | 0.00013      | 0.00002      | kg/t      | 1.869  | Ave. (WS/2..     | 9      | M.C. %      |                 |          |          |        |        |        |        |       | 70 % C. |         |
| CHPP - Conveying to CPP                       | 5                         | 3                          | 0                          | 0.021      | ha       | 850         | 425          | 64           | kg/ha/yr. |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| CHPP - Transfer                               | 524                       | 248                        | 38                         | 8,585,985  | t/yr.    | 0.00020     | 0.00010      | 0.00001      | kg/t      | 1.869  | Ave. (WS/2..     | 11     | M.C. %      |                 |          |          |        |        |        |        |       | 70 % C. |         |
| CHPP - Conveying to Product stockpile         | 27                        | 14                         | 2                          | 0.107      | ha       | 850         | 425          | 64           | kg/ha/yr. |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| CHPP - Unloading to Product stockpile         | 1,310                     | 620                        | 94                         | 8,585,985  | t/yr.    | 0.00020     | 0.00010      | 0.00001      | kg/t      | 1.869  | Ave. (WS/2..     | 11     | M.C. %      |                 |          |          |        |        |        |        |       | 25 % C. |         |
| CHPP - Transfer                               | 524                       | 248                        | 38                         | 8,585,985  | t/yr.    | 0.00020     | 0.00010      | 0.00001      | kg/t      | 1.869  | Ave. (WS/2..     | 11     | M.C. %      |                 |          |          |        |        |        |        |       | 70 % C. |         |
| CHPP - Conveying to train loadout             | 80                        | 40                         | 6                          | 0.313      | ha       | 850         | 425          | 64           | kg/ha/yr. |        |                  |        |             |                 |          |          |        |        |        |        |       |         | 70 % C. |
| CHPP - Loading coal to train                  | 1,747                     | 826                        | 125                        | 8,585,985  | t/yr.    | 0.00020     | 0.00010      | 0.00001      | kg/t      | 1.869  | Ave. (WS/2..     | 11     | M.C. %      |                 |          |          |        |        |        |        |       |         |         |



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Table C-4: Emission inventory – Scenario 3

| Activity                                      | TSP emission<br>(kg/y) | PM10<br>emission<br>(kg/y) | PM25<br>emission<br>(kg/y) | Intensity   | Units     | EF -<br>TSP | EF<br>PM10 | EF -<br>PM25 | Units     | Var. 1 | Units                        | Var. 2 | Units                      | Var. 3 -<br>TSP | PM1<br>0 | PM2<br>5 | Unit<br>s | Var. 4 | Units  | Var. 5                       | Unit<br>s | Var. 6 | Unit<br>s |      |      |      |
|-----------------------------------------------|------------------------|----------------------------|----------------------------|-------------|-----------|-------------|------------|--------------|-----------|--------|------------------------------|--------|----------------------------|-----------------|----------|----------|-----------|--------|--------|------------------------------|-----------|--------|-----------|------|------|------|
| N - Topsoil Removal with dozer                | 15,666                 | 3,702                      | 1,645                      | 1,251       | hr/yr.    | 12.5        | 3.0        | 1.3          | kg/h      | 10     | S.C. %                       | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Excavator loading topsoil to haul truck   | 346                    | 164                        | 25                         | 213,586     | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Hauling topsoil to dump                   | 3,544                  | 758                        | 76                         | 213,586     | t/yr.     | 0.083       | 0.018      | 0.002        | kg/t      | 270    | t/load                       | 6.6    | km/return                  | 3.4             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 324                          | t         | 80     | % C.      |      |      |      |
| N - Emplacing topsoil at dump                 | 346                    | 164                        | 25                         | 213,586     | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Drilling                                  | 14,028                 | 7,294                      | 421                        | 79,253      | holes/yr  | 0.59        | 0.31       | 0.02         | kg/hole   |        |                              |        |                            |                 |          |          |           |        |        |                              |           | 70     | % C.      |      |      |      |
| N - Blasting                                  | 136,831                | 71,152                     | 4,105                      | 128         | blasts/yr | 1069        | 555.9      | 32.1         | kg/blast  | 28,688 | Area of blast m <sup>2</sup> |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Excavator loading OB to haul truck        | 170,246                | 80,522                     | 12,193                     | 105,157,318 | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Hauling to dump (Day period)              | 799,663                | 171,069                    | 17,107                     | 48,197,104  | t/yr.     | 0.083       | 0.018      | 0.002        | kg/t      | 270    | t/load                       | 6.6    | km/return                  | 3.4             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 324                          | t         | 80     | % C.      |      |      |      |
| N - Hauling to dump (Night period)            | 887,280                | 189,813                    | 18,981                     | 56,960,214  | t/yr.     | 0.078       | 0.017      | 0.002        | kg/t      | 273    | t/load                       | 6.3    | km/return                  | 3.4             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 327                          | t         | 80     | % C.      |      |      |      |
| N - Emplacing at dump                         | 170,246                | 80,522                     | 12,193                     | 105,157,318 | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Rehandle OB                               | 17,025                 | 8,052                      | 1,219                      | 10,515,732  | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Dozers on OB in pit (Day period)          | 86,162                 | 20,362                     | 9,047                      | 6,881       | hr/yr.    | 12.5        | 3.0        | 1.3          | kg/h      | 10     | S.C. %                       | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Dozers on OB in pit (Night period)        | 101,828                | 24,064                     | 10,692                     | 8,132       | hr/yr.    | 12.5        | 3.0        | 1.3          | kg/h      | 10     | S.C. %                       | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Dozers on OB working on OB (Day period)   | 86,162                 | 20,362                     | 9,047                      | 6,881       | hr/yr.    | 12.5        | 3.0        | 1.3          | kg/h      | 10     | S.C. %                       | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Dozers on OB working on OB (Night period) | 101,828                | 24,064                     | 10,692                     | 8,132       | hr/yr.    | 12.5        | 3.0        | 1.3          | kg/h      | 10     | S.C. %                       | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Dozers ripping/pushing/clean-up           | 70,642                 | 16,341                     | 1,554                      | 5,005       | hr/yr.    | 14.1        | 3.3        | 0.3          | kg/h      | 5      | S.C. %                       | 9      | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Loading ROM coal to haul truck            | 476,727                | 71,027                     | 9,058                      | 11,479,750  | t/yr.     | 0.042       | 0.006      | 0.001        | kg/t      | 9      | M.C. %                       |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| N - Hauling ROM to hopper (Day period)        | 98,842                 | 21,145                     | 2,114                      | 5,261,552   | t/yr.     | 0.188       | 0.040      | 0.004        | kg/t      | 220    | t/load                       | 13.0   | km/return                  | 3.2             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 280                          | t         | 90     | % C.      |      |      |      |
| N - Hauling ROM to hopper (Night period)      | 116,814                | 24,990                     | 2,499                      | 6,218,198   | t/yr.     | 0.188       | 0.040      | 0.004        | kg/t      | 220    | t/load                       | 13.0   | km/return                  | 3.2             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 280                          | t         | 90     | % C.      |      |      |      |
| CHPP - Unloading ROM to hopper                | 71,509                 | 10,654                     | 1,359                      | 11,479,750  | t/yr.     | 0.042       | 0.006      | 0.001        | kg/t      | 9      | M.C. %                       |        |                            |                 |          |          |           |        |        |                              |           |        | 85        | % C. |      |      |
| CHPP - Rehandle ROM at hopper                 | 95,345                 | 14,205                     | 1,812                      | 2,295,950   | t/yr.     | 0.042       | 0.006      | 0.001        | kg/t      | 9      | M.C. %                       |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Primary crushing                       | 30,995                 | 13,776                     | 2,551                      | 11,479,750  | t/yr.     | 0.0027      | 0.0012     | 0.0002       | kg/t      |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Transfer                               | 928                    | 439                        | 66                         | 11,479,750  | t/yr.     | 0.00027     | 0.00013    | 0.00002      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 9      | M.C. %                     |                 |          |          |           |        |        |                              |           |        | 70        | % C. |      |      |
| CHPP - Conveying to secondary crusher         | 6                      | 3                          | 0                          | 0.023       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           | 70   | % C. |      |
| CHPP - Secondary crushing                     | 30,995                 | 13,776                     | 2,551                      | 11,479,750  | t/yr.     | 0.0027      | 0.0012     | 0.0002       | kg/t      |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Tertiary crushing                      | 30,995                 | 13,776                     | 2,551                      | 11,479,750  | t/yr.     | 0.0027      | 0.0012     | 0.0002       | kg/t      |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Transfer                               | 928                    | 439                        | 66                         | 11,479,750  | t/yr.     | 0.00027     | 0.00013    | 0.00002      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 9      | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           | 70   | % C. |      |
| CHPP - Conveying to 1000t bin                 | 9                      | 4                          | 1                          | 0.034       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Transfer                               | 928                    | 439                        | 66                         | 11,479,750  | t/yr.     | 0.00027     | 0.00013    | 0.00002      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 9      | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Conveying to CPP                       | 5                      | 3                          | 0                          | 0.021       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Transfer                               | 524                    | 248                        | 38                         | 8,585,985   | t/yr.     | 0.00020     | 0.00010    | 0.00001      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 11     | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Conveying to Product stockpile         | 27                     | 14                         | 2                          | 0.107       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Unloading to Product stockpile         | 1,310                  | 620                        | 94                         | 8,585,985   | t/yr.     | 0.00020     | 0.00010    | 0.00001      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 11     | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      | 25   | % C. |
| CHPP - Transfer                               | 524                    | 248                        | 38                         | 8,585,985   | t/yr.     | 0.00020     | 0.00010    | 0.00001      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 11     | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Conveying to train loadout             | 80                     | 40                         | 6                          | 0.313       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 70   | % C. |
| CHPP - Loading coal to train                  | 1,747                  | 826                        | 125                        | 8,585,985   | t/yr.     | 0.00020     | 0.00010    | 0.00001      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 11     | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Dozers on ROM stockpiles               | 70,642                 | 16,341                     | 1,554                      | 5,005       | hr/yr.    | 14.1        | 3.3        | 0.3          | kg/h      | 5      | S.C. %                       | 9      | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| CHPP - Dozers on Product stockpiles           | 54,421                 | 12,339                     | 1,197                      | 5,005       | hr/yr.    | 10.9        | 2.5        | 0.2          | kg/h      | 5      | S.C. %                       | 11     | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| OB - Loading Reject to haul truck             | 3,538                  | 1,673                      | 253                        | 2,185,470   | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| OB - Hauling Reject to dump                   | 39,401                 | 8,429                      | 843                        | 2,185,470   | t/yr.     | 0.180       | 0.039      | 0.004        | kg/t      | 220    | t/load                       | 12.5   | km/return                  | 3.2             | 0.7      | 0.1      | kg/VK     | 2.0    | S.C. % | 280                          | t         | 90     | % C.      |      |      |      |
| OB - Emplacing Reject at dump                 | 3,538                  | 1,673                      | 253                        | 2,185,470   | t/yr.     | 0.00162     | 0.00077    | 0.00012      | kg/t      | 1.869  | Ave. (WS/2.2) <sup>†</sup>   | 2.5    | M.C. %                     |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| WE - Overburden emplacement areas             | 173,591                | 86,795                     | 13,019                     | 258.5       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 21   | % C. |
| WE - Open pit                                 | 97,862                 | 48,931                     | 7,340                      | 140.4       | ha        | 850         | 425        | 64           | kg/ha/yr. |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      | 18   | % C. |
| WE - ROM stockpiles                           | 8,395                  | 4,197                      | 630                        | 7.4         | ha        | 1,139       | 570        | 85           | kg/ha/yr. | 5      | S.C. %                       | 66     | No. of rain days (>0.25mm) |                 |          |          |           |        | 5.8    | % of time wind speed >5.4m/s |           |        |           |      |      |      |
| WE - Product stockpiles                       | 4,324                  | 2,162                      | 324                        | 3.8         | ha        | 1,139       | 570        | 85           | kg/ha/yr. | 5      | S.C. %                       | 66     | No. of rain days (>0.25mm) |                 |          |          |           |        | 5.8    | % of time wind speed >5.4m/s |           |        |           |      |      |      |
| WE - Topsoil stockpiles                       | 14,192                 | 7,096                      | 1,064                      | 35.6        | ha        | 1,139       | 570        | 85           | kg/ha/yr. | 5      | S.C. %                       | 66     | No. of rain days (>0.25mm) |                 |          |          |           |        | 5.8    | % of time wind speed >5.4m/s |           |        |           |      | 65   | % C. |
| WE - Initial Rehab                            | 104,264                | 52,132                     | 7,820                      | 305.1       | ha        | 1,139       | 570        | 85           | kg/ha/yr. | 5      | S.C. %                       | 66     | No. of rain days (>0.25mm) |                 |          |          |           |        | 5.8    | % of time wind speed >5.4m/s |           |        |           |      | 70   | % C. |
| OB - Grading roads                            | 98,374                 | 34,371                     | 3,050                      | 159,837     | km        | 0.62        | 0.22       | 0.02         | kg/VKt    | 8      | speed of graders in km/h     |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| Diesel mining equipment                       | 4,207                  | 4,207                      | 4,081                      |             |           |             |            |              |           |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| Locomotive idling                             | 515                    | 515                        | 499                        |             |           |             |            |              |           |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |
| <b>Total emissions (kg/yr.)</b>               | <b>4,298,346</b>       | <b>1,185,939</b>           | <b>175,948</b>             |             |           |             |            |              |           |        |                              |        |                            |                 |          |          |           |        |        |                              |           |        |           |      |      |      |



Table C-5: Emission inventory – Ancillary construction activity

| Activity - MWD2                              | TSP<br>emission<br>(kg/y) | PM10<br>emission<br>(kg/y) | PM25<br>emission<br>(kg/y) | Intensity | Units  | EF - TSP | EF -<br>PM10 | EF -<br>PM25 | Units      | Var. 1 | Units                      | Var. 2 | Units     | Var. 3 -<br>TSP | PM<br>10 | PM<br>25 | Units  | Var. 4 | Units  | Var. 5 | Units | Var. 6 | Units        |
|----------------------------------------------|---------------------------|----------------------------|----------------------------|-----------|--------|----------|--------------|--------------|------------|--------|----------------------------|--------|-----------|-----------------|----------|----------|--------|--------|--------|--------|-------|--------|--------------|
| OB - Topsoil Removal with dozer              | 21,541                    | 5,091                      | 2,262                      | 1,720     | hr/yr. | 12.5     | 3.0          | 1.3          | kg/h       | 10     | S.C. %                     | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Excavator loading topsoil to haul truck | 288                       | 136                        | 21                         | 177,856   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Hauling topsoil to dump                 | 1,701                     | 364                        | 36                         | 177,856   | t/yr.  | 0.048    | 0.010        | 0.001        | kg/t       | 36     | t/load                     | 1.2    | km/return | 1.4             | 0.3      | 0.0      | kg/VKT | 2.0    | S.C. % | 48     | Ave w | 80     | % Control    |
| OB - Emplacing topsoil at dump               | 288                       | 136                        | 21                         | 177,856   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Excavator loading OB to haul truck      | 2,048                     | 969                        | 147                        | 1,265,000 | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Hauling to dump (Day period)            | 12,101                    | 2,589                      | 259                        | 1,265,000 | t/yr.  | 0.048    | 0.010        | 0.001        | kg/t       | 36     | t/load                     | 1.2    | km/return | 1.4             | 0.3      | 0.0      | kg/VKT | 2.0    | S.C. % | 48     | Ave w | 80     | % Control    |
| OB - Emplacing at dump                       | 2,048                     | 969                        | 147                        | 1,265,000 | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Rehandle OB                             | 205                       | 97                         | 15                         | 126,500   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Dozers on OB in pit (Day period)        | 64,622                    | 15,272                     | 6,785                      | 5,161     | hr/yr. | 12.5     | 3.0          | 1.3          | kg/h       | 10     | S.C. %                     | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Scraper removing OB                     | 36,685                    | 8,670                      | 3,852                      | 1,265,000 | t/yr.  | 0.029    | 0.007        | 0.003        | kg/t       |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| OB - Scraper unloading                       | 25,300                    | 5,979                      | 2,657                      | 1,265,000 | t/yr.  | 0.02     | 0.005        | 0.002        | kg/t       |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| WE - Exposed areas                           | 10,955                    | 5,477                      | 822                        | 25.8      | ha     | 850      | 425          | 64           | kg/ha/year |        |                            |        |           |                 |          |          |        |        |        |        |       |        | 50 % Control |
| Diesel mining equipment                      | 67                        | 67                         | 65                         |           |        |          |              |              |            |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| <b>Total emissions (kg/yr.)</b>              | <b>177,849</b>            | <b>45,815</b>              | <b>17,087</b>              |           |        |          |              |              |            |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| Activity - TSF Stage 4                       | TSP<br>emission<br>(kg/y) | PM10<br>emission<br>(kg/y) | PM25<br>emission<br>(kg/y) | Intensity | Units  | EF - TSP | EF -<br>PM10 | EF -<br>PM25 | Units      | Var. 1 | Units                      | Var. 2 | Units     | Var. 3 -<br>TSP | PM<br>10 | PM<br>25 | Units  | Var. 4 | Units  | Var. 5 | Units | Var. 6 | Units        |
| OB - Topsoil Removal with dozer              | 35,901                    | 8,484                      | 3,770                      | 2,867     | hr/yr. | 12.5     | 3.0          | 1.3          | kg/h       | 10     | S.C. %                     | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Excavator loading topsoil to haul truck | 1,228                     | 581                        | 88                         | 758,598   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Hauling topsoil to dump                 | 16,932                    | 3,622                      | 362                        | 758,598   | t/yr.  | 0.112    | 0.024        | 0.002        | kg/t       | 36     | t/load                     | 2.8    | km/return | 1.4             | 0.3      | 0.0      | kg/VKT | 2.0    | S.C. % | 48     | Ave w | 80     | % Control    |
| OB - Emplacing topsoil at dump               | 1,228                     | 581                        | 88                         | 758,598   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Excavator loading OB to haul truck      | 4,468                     | 2,113                      | 320                        | 2,760,000 | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Hauling to dump (Day period)            | 61,605                    | 13,179                     | 1,318                      | 2,760,000 | t/yr.  | 0.112    | 0.024        | 0.002        | kg/t       | 36     | t/load                     | 2.8    | km/return | 1.4             | 0.3      | 0.0      | kg/VKT | 2.0    | S.C. % | 48     | Ave w | 80     | % Control    |
| OB - Emplacing at dump                       | 4,468                     | 2,113                      | 320                        | 2,760,000 | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Rehandle OB                             | 447                       | 211                        | 32                         | 276,000   | t/yr.  | 0.00162  | 0.00077      | 0.00012      | kg/t       | 1.869  | Ave. (WS/2.2) <sup>1</sup> | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Dozers on OB in pit (Day period)        | 107,703                   | 25,453                     | 11,309                     | 8,602     | hr/yr. | 12.5     | 3.0          | 1.3          | kg/h       | 10     | S.C. %                     | 2.5    | M.C. %    |                 |          |          |        |        |        |        |       |        |              |
| OB - Scraper removing OB                     | 80,040                    | 18,915                     | 8,404                      | 2,760,000 | t/yr.  | 0.029    | 0.007        | 0.003        | kg/t       |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| OB - Scraper unloading                       | 55,200                    | 13,045                     | 5,796                      | 2,760,000 | t/yr.  | 0.02     | 0.005        | 0.002        | kg/t       |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| WE - Exposed areas                           | 46,725                    | 23,363                     | 3,504                      | 109.9     | ha     | 850      | 425          | 64           | kg/ha/year |        |                            |        |           |                 |          |          |        |        |        |        |       |        | 50 % Control |
| Diesel mining equipment                      | 102                       | 102                        | 99                         |           |        |          |              |              |            |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |
| <b>Total emissions (kg/yr.)</b>              | <b>416,049</b>            | <b>111,763</b>             | <b>35,410</b>              |           |        |          |              |              |            |        |                            |        |           |                 |          |          |        |        |        |        |       |        |              |





The range of best practice control measures applied for the Modification are summarised in **Table C-9**.

**Table C-9: Summary of best practice control measures**

| Control measure                             |                                                                          | Control level applied to the Modification | Available control range | Comment                                                                                                                                                                               |
|---------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drilling                                    | Dust suppression                                                         | 70%                                       | 3% - 99%                | Drill rigs are fitted with dust aprons and utilise either water injection or dust collectors.                                                                                         |
| Blasting                                    | No blasting during unfavourable weather conditions                       | Not quantified                            | Not quantified          | Modification applies a range of blast management systems including predictive blast management system to assist with blasting                                                         |
| Hauling on unpaved surfaces                 | Watering of trafficked areas                                             | 80% – 90%                                 | 30% - 90%               | Roads are constructed to achieve a compact, stable, and durable surface, using material with a low silt/ fines content. Surface is regularly maintained and controlled with watering. |
| Unloading ROM to hopper at CHPP             | Enclosure and fogging sprays                                             | 85%                                       | 50% - 90%               | Three-sided enclosure fitted with water sprays to remove turbulence induced from dumping and influence from crosswinds.                                                               |
| Conveyor transfer points                    | Enclosures and water sprays                                              | 70%                                       | 40% - 70%               | Minimises lift-off of dust during transfer and removes influence from wind.                                                                                                           |
| Conveyor                                    | Enclosed conveyors                                                       | 70%                                       | 40% - 70%               | Enclosure acts as a wind break to prevent dust lift-off with moving material.                                                                                                         |
| Loading product coal to stockpile           | Luffing stacker                                                          | 25%                                       | 25% - 75%               | Luffing (variable height) stacker reduces drop height of material when loading stockpile and stacking can occur without dozer push.                                                   |
| Wind erosion - Overburden emplacement areas | Primary rehabilitation, watering of exposed surface and surface crusting | 30%                                       | 30% - 80%               | Watering binds loose material prevents dust lift-off when subject to winds. Natural surface crusting occurs when surface is watered and inactive for extended period.                 |
| Open pit                                    | Inactivity and surface crusting/ stabilisation                           | 30%                                       | 30% - 80%               | Natural surface crusting occurs when surface is watered and inactive for extended period.                                                                                             |
| Topsoil stockpiles                          | Watering stockpile surface and vegetative wind breaks                    | 65%                                       | 30% - 80%               | Watering binds loose material prevents dust lift-off when subject to winds. Wind breaks prevent erosive and drying effects of wind.                                                   |
| Initial rehabilitation                      | Vegetative ground cover                                                  | 70%                                       | 30% - 80%               | Vegetative ground cover acts as a natural barrier to wind erosion.                                                                                                                    |

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## **Appendix D**

### ***Modelling Predictions***



Table D-1: Modelling predictions for Scenario 1

| Receptor ID               | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|---------------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                           | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                           | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                           | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                           | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| Privately-owned receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 4                         | 2.0                          | 0.5       | 11.0                        | 2.9       | 6.1            | 0.1              | 5.1                          | 19.9                        | 60.8           | 2.3              |
| 19                        | 3.5                          | 0.9       | 20.1                        | 5.2       | 11.4           | 0.2              | 5.0                          | 22.0                        | 61.0           | 2.4              |
| 20                        | 3.9                          | 1.0       | 22.6                        | 5.7       | 12.6           | 0.2              | 5.2                          | 22.7                        | 63.2           | 2.4              |
| 21                        | 4.0                          | 1.0       | 23.1                        | 5.8       | 12.8           | 0.2              | 5.2                          | 22.9                        | 63.8           | 2.4              |
| 43                        | 5.8                          | 0.5       | 15.2                        | 1.7       | 3.5            | 0.1              | 6.9                          | 42.4                        | 92.9           | 3.6              |
| 43b                       | 1.9                          | 0.2       | 5.0                         | 0.6       | 1.2            | 0.0              | 4.5                          | 19.8                        | 56.5           | 2.6              |
| 47                        | 2.0                          | 0.1       | 6.5                         | 0.6       | 1.1            | 0.0              | 4.8                          | 22.8                        | 61.2           | 2.8              |
| 67                        | 3.8                          | 1.0       | 22.2                        | 5.6       | 12.4           | 0.3              | 4.4                          | 22.1                        | 53.4           | 2.3              |
| 77                        | 3.2                          | 0.8       | 18.5                        | 4.7       | 10.5           | 0.3              | 4.2                          | 22.2                        | 50.8           | 2.3              |
| 79                        | 2.9                          | 0.7       | 16.5                        | 4.1       | 9.2            | 0.3              | 4.1                          | 22.0                        | 49.4           | 2.2              |
| 82                        | 2.4                          | 0.6       | 14.8                        | 3.3       | 7.3            | 0.3              | 3.9                          | 21.3                        | 47.5           | 2.2              |
| 83                        | 2.4                          | 0.6       | 14.9                        | 3.4       | 7.6            | 0.3              | 3.9                          | 21.4                        | 47.6           | 2.2              |
| 84a                       | 2.6                          | 0.6       | 15.3                        | 3.7       | 8.2            | 0.3              | 4.0                          | 21.7                        | 48.3           | 2.2              |
| 84b                       | 0.6                          | 0.1       | 3.3                         | 0.8       | 1.6            | 0.1              | 3.4                          | 13.5                        | 41.5           | 2.1              |
| 86a                       | 3.4                          | 0.8       | 19.3                        | 4.8       | 10.8           | 0.3              | 4.2                          | 21.9                        | 50.9           | 2.3              |
| 86b                       | 2.2                          | 0.3       | 12.6                        | 1.8       | 3.7            | 0.1              | 3.5                          | 16.9                        | 42.5           | 2.1              |
| 102                       | 4.8                          | 1.2       | 28.8                        | 6.8       | 15.6           | 0.4              | 4.5                          | 20.4                        | 55.4           | 2.4              |
| 108                       | 5.2                          | 1.2       | 30.8                        | 7.2       | 16.6           | 0.5              | 4.6                          | 20.6                        | 56.4           | 2.4              |
| 112                       | 5.6                          | 1.3       | 33.5                        | 7.8       | 17.9           | 0.5              | 4.7                          | 21.1                        | 57.8           | 2.5              |
| 136                       | 3.2                          | 0.7       | 19.0                        | 3.9       | 8.3            | 0.3              | 3.9                          | 15.9                        | 47.5           | 2.2              |
| 140a                      | 2.1                          | 0.3       | 12.7                        | 1.9       | 3.9            | 0.1              | 3.6                          | 15.0                        | 43.0           | 2.1              |
| 140c                      | 3.0                          | 0.5       | 17.4                        | 2.8       | 6.0            | 0.2              | 3.7                          | 17.6                        | 44.9           | 2.1              |
| 143a                      | 2.1                          | 0.3       | 12.8                        | 2.0       | 4.0            | 0.1              | 3.6                          | 13.9                        | 43.4           | 2.1              |
| 143b                      | 4.5                          | 0.6       | 27.0                        | 3.3       | 7.0            | 0.1              | 3.9                          | 15.4                        | 47.3           | 2.2              |
| 147                       | 4.1                          | 0.6       | 24.5                        | 3.3       | 6.9            | 0.1              | 3.9                          | 15.0                        | 47.4           | 2.1              |
| 153a                      | 2.9                          | 0.8       | 17.8                        | 4.8       | 10.7           | 0.5              | 4.0                          | 13.5                        | 48.9           | 2.5              |
| 154                       | 7.6                          | 1.1       | 45.0                        | 6.3       | 14.6           | 0.3              | 4.8                          | 21.4                        | 62.4           | 2.6              |
| 156a                      | 6.1                          | 0.8       | 37.2                        | 4.8       | 10.9           | 0.2              | 4.3                          | 17.5                        | 53.6           | 2.3              |
| 156b                      | 0.8                          | 0.0       | 2.8                         | 0.2       | 0.4            | 0.0              | 3.9                          | 14.4                        | 47.6           | 2.2              |
| 157a                      | 5.3                          | 0.7       | 32.0                        | 4.1       | 9.0            | 0.2              | 4.1                          | 16.7                        | 50.3           | 2.2              |
| 157b                      | 0.6                          | 0.0       | 2.3                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.5                        | 46.0           | 2.2              |
| 159                       | 4.7                          | 0.6       | 28.0                        | 3.5       | 7.5            | 0.1              | 3.9                          | 15.7                        | 48.2           | 2.2              |
| 169                       | 3.0                          | 0.4       | 17.3                        | 2.6       | 5.6            | 0.1              | 3.6                          | 15.5                        | 43.3           | 2.1              |
| 171                       | 2.4                          | 0.4       | 13.8                        | 2.0       | 4.3            | 0.1              | 3.5                          | 15.5                        | 41.7           | 2.0              |
| 172                       | 2.1                          | 0.3       | 11.8                        | 1.6       | 3.4            | 0.1              | 3.4                          | 15.6                        | 40.8           | 2.0              |
| 172b                      | 2.0                          | 0.3       | 11.5                        | 1.6       | 3.3            | 0.1              | 3.4                          | 15.7                        | 40.6           | 2.0              |
| 172c                      | 1.6                          | 0.2       | 9.3                         | 1.1       | 2.3            | 0.0              | 3.3                          | 16.0                        | 39.5           | 2.0              |
| 310                       | 2.0                          | 0.3       | 11.5                        | 1.6       | 3.4            | 0.1              | 3.4                          | 15.7                        | 40.7           | 2.0              |
| 173                       | 1.7                          | 0.3       | 9.1                         | 1.6       | 3.3            | 0.1              | 3.4                          | 15.8                        | 40.6           | 2.0              |
| 174                       | 1.7                          | 0.3       | 9.4                         | 1.6       | 3.4            | 0.1              | 3.4                          | 15.8                        | 40.7           | 2.0              |
| 175                       | 1.7                          | 0.3       | 9.6                         | 1.6       | 3.5            | 0.1              | 3.4                          | 15.8                        | 40.8           | 2.0              |
| 175b                      | 1.7                          | 0.3       | 9.7                         | 1.6       | 3.5            | 0.1              | 3.4                          | 15.8                        | 40.8           | 2.0              |
| 175c                      | 1.7                          | 0.3       | 9.7                         | 1.6       | 3.4            | 0.1              | 3.4                          | 15.8                        | 40.7           | 2.0              |
| 176                       | 1.8                          | 0.3       | 10.2                        | 1.6       | 3.5            | 0.1              | 3.4                          | 15.8                        | 40.8           | 2.0              |
| 177                       | 1.6                          | 0.3       | 8.4                         | 1.5       | 3.2            | 0.1              | 3.4                          | 15.9                        | 40.5           | 2.0              |
| 178                       | 1.3                          | 0.2       | 7.5                         | 1.0       | 1.9            | 0.0              | 3.3                          | 16.1                        | 39.1           | 2.0              |
| 179                       | 1.4                          | 0.2       | 7.2                         | 1.0       | 2.1            | 0.0              | 3.3                          | 16.0                        | 39.2           | 2.0              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 180         | 1.3                          | 0.2          | 7.0                         | 1.0          | 1.9            | 0.0              | 3.3                          | 16.1                        | 39.1           | 2.0              |
| 180b        | 1.2                          | 0.2          | 7.1                         | 0.8          | 1.6            | 0.0              | 3.3                          | 16.4                        | 38.9           | 2.0              |
| 180c        | 1.0                          | 0.1          | 5.1                         | 0.6          | 1.2            | 0.0              | 3.2                          | 16.4                        | 38.3           | 2.0              |
| 181         | 1.1                          | 0.1          | 5.6                         | 0.6          | 1.1            | 0.0              | 3.4                          | 18.6                        | 40.8           | 2.1              |
| 181c        | 1.4                          | 0.1          | 7.7                         | 0.8          | 1.6            | 0.0              | 3.3                          | 16.6                        | 39.3           | 2.0              |
| 182         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.6                        | 42.5           | 2.2              |
| 189         | 1.5                          | 0.2          | 8.6                         | 1.0          | 2.0            | 0.0              | 3.5                          | 15.7                        | 42.2           | 2.1              |
| 190         | 1.6                          | 0.2          | 9.1                         | 1.1          | 2.1            | 0.0              | 3.5                          | 15.3                        | 41.8           | 2.0              |
| 191         | 1.4                          | 0.2          | 7.8                         | 1.0          | 1.9            | 0.0              | 3.5                          | 15.9                        | 42.5           | 2.1              |
| 192         | 1.5                          | 0.2          | 8.4                         | 1.0          | 2.0            | 0.0              | 3.5                          | 15.6                        | 42.1           | 2.1              |
| 193         | 1.3                          | 0.2          | 7.4                         | 0.9          | 1.8            | 0.0              | 3.5                          | 15.9                        | 42.1           | 2.1              |
| 193c        | 1.2                          | 0.1          | 7.6                         | 0.8          | 1.5            | 0.0              | 3.4                          | 16.0                        | 41.8           | 2.1              |
| 194         | 1.4                          | 0.2          | 8.7                         | 1.0          | 2.0            | 0.1              | 3.4                          | 15.7                        | 41.7           | 2.1              |
| 195         | 1.3                          | 0.2          | 8.0                         | 1.1          | 2.3            | 0.1              | 3.4                          | 15.8                        | 41.7           | 2.1              |
| 196         | 1.6                          | 0.2          | 9.1                         | 1.3          | 2.7            | 0.1              | 3.5                          | 16.4                        | 41.7           | 2.1              |
| 204         | 1.7                          | 0.3          | 9.9                         | 1.4          | 2.9            | 0.1              | 3.5                          | 16.6                        | 41.8           | 2.1              |
| 198         | 2.0                          | 0.3          | 11.9                        | 1.7          | 3.5            | 0.1              | 3.5                          | 17.0                        | 42.3           | 2.1              |
| 198b        | 2.1                          | 0.3          | 12.2                        | 1.7          | 3.6            | 0.1              | 3.5                          | 17.0                        | 42.4           | 2.1              |
| 199         | 1.9                          | 0.3          | 11.3                        | 1.6          | 3.3            | 0.1              | 3.5                          | 17.0                        | 42.1           | 2.1              |
| 200         | 1.8                          | 0.3          | 10.4                        | 1.5          | 3.0            | 0.1              | 3.5                          | 17.0                        | 41.9           | 2.1              |
| 202         | 2.5                          | 0.4          | 14.5                        | 2.4          | 5.2            | 0.2              | 3.6                          | 17.9                        | 44.0           | 2.1              |
| 202b        | 2.0                          | 0.3          | 11.7                        | 2.0          | 4.2            | 0.2              | 3.6                          | 18.1                        | 43.1           | 2.1              |
| 203         | 2.7                          | 0.4          | 15.4                        | 2.5          | 5.5            | 0.2              | 3.7                          | 17.9                        | 44.4           | 2.1              |
| 203b        | 2.6                          | 0.4          | 15.1                        | 2.5          | 5.4            | 0.2              | 3.7                          | 17.9                        | 44.3           | 2.1              |
| 203c        | 2.7                          | 0.4          | 15.4                        | 2.5          | 5.5            | 0.2              | 3.7                          | 17.9                        | 44.3           | 2.1              |
| 206         | 3.1                          | 0.8          | 17.6                        | 4.3          | 9.4            | 0.2              | 4.6                          | 22.1                        | 55.5           | 2.3              |
| 207         | 3.4                          | 0.8          | 18.9                        | 4.8          | 10.6           | 0.2              | 4.9                          | 21.8                        | 58.7           | 2.4              |
| 212         | 2.6                          | 0.7          | 14.6                        | 3.9          | 8.5            | 0.2              | 4.8                          | 20.7                        | 57.5           | 2.3              |
| 212b        | 2.6                          | 0.7          | 14.5                        | 3.9          | 8.5            | 0.2              | 4.8                          | 20.6                        | 57.7           | 2.3              |
| 213         | 3.2                          | 0.8          | 17.9                        | 4.7          | 10.3           | 0.2              | 5.0                          | 21.4                        | 60.5           | 2.4              |
| 214         | 3.2                          | 0.8          | 18.0                        | 4.7          | 10.4           | 0.2              | 5.0                          | 21.4                        | 60.5           | 2.4              |
| 215         | 3.2                          | 0.8          | 18.3                        | 4.8          | 10.5           | 0.2              | 5.0                          | 21.5                        | 60.4           | 2.4              |
| 216         | 3.3                          | 0.8          | 18.5                        | 4.8          | 10.6           | 0.2              | 5.0                          | 21.5                        | 60.4           | 2.4              |
| 216b        | 3.2                          | 0.8          | 18.2                        | 4.8          | 10.5           | 0.2              | 5.0                          | 21.4                        | 60.2           | 2.4              |
| 217         | 3.3                          | 0.8          | 18.7                        | 4.9          | 10.7           | 0.2              | 5.0                          | 21.6                        | 60.3           | 2.4              |
| 218         | 3.3                          | 0.8          | 18.5                        | 4.8          | 10.6           | 0.2              | 5.0                          | 21.6                        | 60.9           | 2.4              |
| 219         | 3.3                          | 0.8          | 18.6                        | 4.9          | 10.7           | 0.2              | 5.0                          | 21.6                        | 60.9           | 2.4              |
| 220         | 3.3                          | 0.8          | 18.8                        | 4.9          | 10.8           | 0.2              | 5.0                          | 21.6                        | 60.8           | 2.4              |
| 221         | 3.4                          | 0.9          | 19.1                        | 5.0          | 10.9           | 0.2              | 5.0                          | 21.7                        | 60.7           | 2.4              |
| 222         | 3.4                          | 0.9          | 19.4                        | 5.0          | 11.0           | 0.2              | 5.0                          | 21.8                        | 60.7           | 2.4              |
| 223         | 3.5                          | 0.9          | 19.6                        | 5.1          | 11.2           | 0.2              | 5.0                          | 21.8                        | 60.9           | 2.4              |
| 223b        | 3.4                          | 0.9          | 19.6                        | 5.1          | 11.1           | 0.2              | 5.0                          | 21.8                        | 61.1           | 2.4              |
| 224         | 3.5                          | 0.9          | 19.9                        | 5.2          | 11.3           | 0.2              | 5.1                          | 21.9                        | 61.2           | 2.4              |
| 225         | 3.3                          | 0.8          | 18.9                        | 4.9          | 10.8           | 0.2              | 5.0                          | 21.6                        | 60.3           | 2.4              |
| 249         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.4                          | 21.5                        | 53.0           | 2.1              |
| 252         | 0.6                          | 0.0          | 3.1                         | 0.2          | 0.4            | 0.0              | 3.8                          | 14.1                        | 46.2           | 2.1              |
| 258a        | 1.1                          | 0.1          | 6.3                         | 0.4          | 0.7            | 0.0              | 4.6                          | 21.1                        | 56.4           | 2.3              |
| 258c        | 1.1                          | 0.1          | 6.3                         | 0.4          | 0.7            | 0.0              | 4.6                          | 21.0                        | 56.2           | 2.3              |
| 259         | 1.0                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 4.5                          | 20.5                        | 55.0           | 2.2              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 259b        | 1.0                          | 0.1       | 5.6                         | 0.4       | 0.6            | 0.0              | 4.4                          | 19.7                        | 54.0           | 2.2              |
| 260         | 0.9                          | 0.1       | 5.2                         | 0.4       | 0.7            | 0.0              | 4.5                          | 21.4                        | 55.8           | 2.2              |
| 260a        | 0.9                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 4.5                          | 21.3                        | 55.5           | 2.2              |
| 260b        | 0.9                          | 0.1       | 5.2                         | 0.4       | 0.7            | 0.0              | 4.5                          | 21.2                        | 55.5           | 2.2              |
| 261         | 0.8                          | 0.1       | 4.4                         | 0.3       | 0.6            | 0.0              | 4.3                          | 19.5                        | 52.7           | 2.2              |
| 261b        | 0.8                          | 0.1       | 4.3                         | 0.3       | 0.6            | 0.0              | 4.3                          | 19.6                        | 52.7           | 2.2              |
| 271         | 0.5                          | 0.1       | 1.7                         | 0.4       | 0.9            | 0.0              | 3.8                          | 15.8                        | 46.4           | 2.1              |
| 272b        | 0.9                          | 0.1       | 2.4                         | 0.7       | 1.5            | 0.1              | 4.0                          | 16.2                        | 49.2           | 2.2              |
| 272         | 0.9                          | 0.2       | 2.5                         | 0.7       | 1.5            | 0.1              | 4.0                          | 16.3                        | 49.4           | 2.2              |
| 273         | 0.5                          | 0.1       | 1.8                         | 0.5       | 1.0            | 0.0              | 3.7                          | 15.6                        | 45.6           | 2.1              |
| 273b        | 0.5                          | 0.1       | 1.8                         | 0.5       | 1.0            | 0.0              | 3.8                          | 15.8                        | 46.2           | 2.1              |
| 288         | 2.8                          | 0.6       | 15.3                        | 3.6       | 7.7            | 0.2              | 4.3                          | 23.1                        | 50.9           | 2.3              |
| 288b        | 2.7                          | 0.6       | 15.3                        | 3.6       | 7.7            | 0.2              | 4.3                          | 23.1                        | 50.8           | 2.3              |
| 289         | 2.8                          | 0.7       | 16.4                        | 4.3       | 9.5            | 0.3              | 4.2                          | 22.4                        | 50.9           | 2.3              |
| 292         | 0.5                          | 0.1       | 2.0                         | 0.2       | 0.4            | 0.0              | 4.1                          | 17.3                        | 48.8           | 2.0              |
| 292b        | 0.5                          | 0.0       | 1.9                         | 0.2       | 0.4            | 0.0              | 4.0                          | 16.4                        | 47.9           | 2.0              |
| 302a        | 0.5                          | 0.0       | 2.2                         | 0.2       | 0.4            | 0.0              | 4.1                          | 16.8                        | 48.9           | 2.0              |
| 302c        | 0.5                          | 0.0       | 2.1                         | 0.2       | 0.4            | 0.0              | 4.0                          | 16.3                        | 48.2           | 2.0              |
| 401         | 0.5                          | 0.1       | 2.8                         | 0.6       | 1.2            | 0.0              | 3.4                          | 14.5                        | 41.7           | 2.0              |
| 402         | 0.6                          | 0.1       | 3.1                         | 0.7       | 1.3            | 0.0              | 3.4                          | 14.1                        | 40.9           | 2.0              |
| 404         | 0.5                          | 0.1       | 3.1                         | 0.7       | 1.4            | 0.1              | 3.4                          | 13.9                        | 41.6           | 2.1              |
| 405         | 0.8                          | 0.2       | 4.8                         | 1.0       | 1.9            | 0.1              | 3.3                          | 13.8                        | 39.6           | 2.0              |
| 406         | 0.7                          | 0.1       | 3.9                         | 0.8       | 1.6            | 0.1              | 3.3                          | 13.6                        | 40.1           | 2.0              |
| 407         | 0.7                          | 0.2       | 3.9                         | 0.9       | 1.8            | 0.1              | 3.4                          | 13.2                        | 41.3           | 2.1              |
| 408         | 0.5                          | 0.0       | 2.9                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 1.9              |
| 409         | 1.0                          | 0.2       | 5.6                         | 1.4       | 2.7            | 0.2              | 3.4                          | 13.8                        | 40.4           | 2.1              |
| 410a        | 0.6                          | 0.0       | 2.9                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.6           | 1.9              |
| 410b        | 0.6                          | 0.0       | 2.9                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.6           | 1.9              |
| 411a        | 1.3                          | 0.2       | 7.6                         | 1.3       | 2.7            | 0.1              | 3.4                          | 14.2                        | 40.2           | 2.1              |
| 411b        | 1.4                          | 0.2       | 7.9                         | 1.4       | 2.7            | 0.1              | 3.4                          | 14.2                        | 40.2           | 2.1              |
| 411c        | 1.5                          | 0.2       | 8.7                         | 1.4       | 2.7            | 0.1              | 3.4                          | 14.4                        | 40.2           | 2.1              |
| 412         | 0.6                          | 0.0       | 2.9                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.1                        | 36.7           | 2.0              |
| 413b        | 0.3                          | 0.1       | 2.0                         | 0.4       | 0.9            | 0.0              | 3.5                          | 15.3                        | 42.7           | 2.0              |
| 414a        | 0.5                          | 0.0       | 3.0                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.1                        | 36.5           | 2.0              |
| 415         | 0.3                          | 0.1       | 1.8                         | 0.4       | 0.9            | 0.0              | 3.6                          | 15.5                        | 43.7           | 2.1              |
| 417         | 0.4                          | 0.1       | 1.6                         | 0.4       | 0.8            | 0.0              | 3.7                          | 15.7                        | 44.4           | 2.1              |
| 418         | 0.4                          | 0.1       | 1.5                         | 0.3       | 0.7            | 0.0              | 3.6                          | 15.6                        | 44.0           | 2.1              |
| 418b        | 0.4                          | 0.1       | 1.5                         | 0.3       | 0.7            | 0.0              | 3.6                          | 15.6                        | 44.2           | 2.1              |
| 419         | 0.3                          | 0.1       | 2.0                         | 0.5       | 0.9            | 0.0              | 3.6                          | 15.4                        | 43.4           | 2.1              |
| 421         | 0.4                          | 0.1       | 2.0                         | 0.5       | 1.1            | 0.0              | 3.7                          | 15.4                        | 44.8           | 2.1              |
| 422a        | 1.8                          | 0.4       | 10.4                        | 2.3       | 5.2            | 0.1              | 3.6                          | 16.7                        | 43.8           | 2.1              |
| 422c        | 0.7                          | 0.2       | 4.4                         | 0.9       | 1.7            | 0.1              | 3.3                          | 13.9                        | 39.4           | 2.0              |
| 428         | 1.8                          | 0.4       | 11.1                        | 2.1       | 4.6            | 0.1              | 3.5                          | 16.5                        | 42.9           | 2.1              |
| 429a        | 1.4                          | 0.3       | 8.1                         | 1.5       | 3.3            | 0.1              | 3.4                          | 16.1                        | 41.0           | 2.0              |
| 429b        | 1.3                          | 0.2       | 7.7                         | 1.4       | 3.0            | 0.1              | 3.4                          | 16.0                        | 40.5           | 2.0              |
| 430         | 1.3                          | 0.2       | 7.8                         | 1.4       | 3.1            | 0.1              | 3.4                          | 16.1                        | 40.6           | 2.0              |
| 431a        | 0.7                          | 0.1       | 3.2                         | 0.3       | 0.6            | 0.0              | 3.1                          | 16.5                        | 37.5           | 2.0              |
| 431b        | 0.8                          | 0.1       | 3.6                         | 0.4       | 0.8            | 0.0              | 3.2                          | 16.1                        | 37.7           | 2.0              |
| 432         | 0.9                          | 0.1       | 4.2                         | 0.5       | 1.0            | 0.0              | 3.2                          | 16.3                        | 38.0           | 2.0              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx





| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 433         | 1.0                          | 0.1       | 4.7                         | 0.6       | 1.1            | 0.0              | 3.2                          | 16.3                        | 38.2           | 2.0              |
| 434         | 1.0                          | 0.1       | 4.7                         | 0.6       | 1.1            | 0.0              | 3.2                          | 16.5                        | 38.2           | 2.0              |
| 434b        | 0.9                          | 0.1       | 4.0                         | 0.5       | 0.9            | 0.0              | 3.2                          | 16.3                        | 37.8           | 2.0              |
| 436         | 1.0                          | 0.1       | 4.6                         | 0.5       | 1.0            | 0.0              | 3.2                          | 16.9                        | 38.4           | 2.0              |
| 437         | 1.0                          | 0.1       | 4.7                         | 0.5       | 1.0            | 0.0              | 3.2                          | 16.7                        | 38.3           | 2.0              |
| 438         | 0.4                          | 0.0       | 2.2                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.8                        | 35.8           | 1.9              |
| 440a        | 0.3                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.7           | 1.9              |
| 440b        | 0.3                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.7           | 1.9              |
| 440c        | 0.3                          | 0.0       | 1.4                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.5                        | 35.6           | 1.9              |
| 440d        | 0.3                          | 0.0       | 1.3                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.5                        | 35.6           | 1.9              |
| 440e        | 0.3                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.5                        | 35.6           | 1.9              |
| 440f        | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 440g        | 0.3                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 441         | 0.8                          | 0.1       | 5.0                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.8           | 2.1              |
| 442         | 0.3                          | 0.0       | 1.9                         | 0.2       | 0.3            | 0.0              | 3.0                          | 15.0                        | 36.0           | 1.9              |
| 443         | 0.8                          | 0.1       | 5.0                         | 0.4       | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.1           | 2.1              |
| 451         | 0.9                          | 0.1       | 5.4                         | 0.5       | 0.9            | 0.0              | 3.3                          | 15.7                        | 41.0           | 2.1              |
| 452         | 1.0                          | 0.2       | 6.0                         | 0.9       | 1.9            | 0.1              | 3.4                          | 16.0                        | 42.0           | 2.1              |
| 453a        | 0.4                          | 0.1       | 1.5                         | 0.4       | 0.7            | 0.0              | 3.7                          | 15.6                        | 45.1           | 2.1              |
| 453b        | 0.4                          | 0.1       | 1.5                         | 0.4       | 0.7            | 0.0              | 3.7                          | 15.6                        | 45.0           | 2.1              |
| 454         | 0.4                          | 0.1       | 1.4                         | 0.3       | 0.6            | 0.0              | 3.7                          | 15.3                        | 44.4           | 2.1              |
| 455         | 0.3                          | 0.0       | 1.1                         | 0.2       | 0.3            | 0.0              | 3.5                          | 14.7                        | 42.2           | 2.0              |
| 456         | 0.3                          | 0.0       | 1.2                         | 0.2       | 0.3            | 0.0              | 3.5                          | 14.7                        | 42.5           | 2.0              |
| 456b        | 0.3                          | 0.0       | 1.2                         | 0.2       | 0.3            | 0.0              | 3.5                          | 14.7                        | 42.6           | 2.0              |
| 458         | 0.5                          | 0.1       | 1.6                         | 0.3       | 0.5            | 0.0              | 3.7                          | 14.9                        | 45.0           | 2.1              |
| 460         | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.2            | 0.0              | 3.4                          | 12.3                        | 41.4           | 2.0              |
| 460b        | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.2            | 0.0              | 3.4                          | 12.4                        | 41.3           | 2.0              |
| 461         | 0.2                          | 0.0       | 0.7                         | 0.1       | 0.2            | 0.0              | 3.4                          | 12.2                        | 41.3           | 2.0              |
| 462a        | 0.2                          | 0.0       | 0.7                         | 0.1       | 0.2            | 0.0              | 3.5                          | 12.1                        | 41.8           | 2.0              |
| 462b        | 0.2                          | 0.0       | 0.7                         | 0.1       | 0.2            | 0.0              | 3.5                          | 12.1                        | 41.7           | 2.0              |
| 462c        | 0.2                          | 0.0       | 0.7                         | 0.1       | 0.2            | 0.0              | 3.5                          | 12.1                        | 41.7           | 2.0              |
| 464         | 0.7                          | 0.0       | 2.5                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.8                        | 46.4           | 2.2              |
| 464b        | 0.7                          | 0.0       | 2.5                         | 0.2       | 0.3            | 0.0              | 3.9                          | 13.9                        | 46.6           | 2.2              |
| 465         | 0.7                          | 0.0       | 2.2                         | 0.2       | 0.3            | 0.0              | 3.7                          | 12.5                        | 44.4           | 2.1              |
| 466         | 0.5                          | 0.0       | 2.2                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.3                        | 45.8           | 2.2              |
| 467         | 0.6                          | 0.1       | 2.7                         | 0.3       | 0.5            | 0.0              | 4.2                          | 16.6                        | 51.1           | 2.4              |
| 467b        | 0.6                          | 0.1       | 2.7                         | 0.3       | 0.5            | 0.0              | 4.2                          | 16.5                        | 51.1           | 2.4              |
| 468a        | 0.4                          | 0.0       | 1.5                         | 0.2       | 0.3            | 0.0              | 3.5                          | 11.1                        | 42.4           | 2.0              |
| 468b        | 0.4                          | 0.0       | 1.5                         | 0.1       | 0.2            | 0.0              | 3.5                          | 10.7                        | 42.0           | 2.0              |
| 468c        | 0.4                          | 0.0       | 1.5                         | 0.2       | 0.3            | 0.0              | 3.6                          | 11.4                        | 42.6           | 2.0              |
| 468d        | 0.4                          | 0.0       | 1.5                         | 0.2       | 0.3            | 0.0              | 3.5                          | 11.1                        | 42.4           | 2.0              |
| 470         | 0.4                          | 0.0       | 1.9                         | 0.2       | 0.3            | 0.0              | 3.7                          | 13.3                        | 44.4           | 2.0              |
| 471         | 0.4                          | 0.0       | 2.0                         | 0.2       | 0.3            | 0.0              | 3.7                          | 12.8                        | 43.9           | 2.0              |
| 472a        | 0.4                          | 0.0       | 1.7                         | 0.2       | 0.3            | 0.0              | 3.7                          | 13.2                        | 44.2           | 2.0              |
| 472b        | 0.4                          | 0.0       | 1.8                         | 0.2       | 0.3            | 0.0              | 3.7                          | 13.4                        | 44.4           | 2.0              |
| 472c        | 0.4                          | 0.0       | 1.7                         | 0.2       | 0.3            | 0.0              | 3.6                          | 12.4                        | 43.5           | 2.0              |
| 474         | 0.4                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.6                          | 12.1                        | 43.2           | 2.0              |
| 475         | 0.5                          | 0.0       | 2.2                         | 0.2       | 0.4            | 0.0              | 4.1                          | 17.0                        | 49.2           | 2.0              |
| 475b        | 0.5                          | 0.0       | 2.2                         | 0.2       | 0.4            | 0.0              | 4.1                          | 17.1                        | 49.2           | 2.0              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 476         | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 12.3                        | 43.0           | 2.0              |
| 477a        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.8                        | 44.9           | 2.0              |
| 477b        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.8                        | 44.8           | 2.0              |
| 481         | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.1                        | 41.1           | 2.0              |
| 483         | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.4                          | 10.4                        | 40.2           | 1.9              |
| 484         | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.3                        | 41.0           | 2.0              |
| 485a        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.3           | 1.9              |
| 485b        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.4           | 1.9              |
| 485c        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.3           | 1.9              |
| 485d        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.3           | 1.9              |
| 485e        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.3           | 1.9              |
| 485f        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.4           | 1.9              |
| 490         | 1.4                          | 0.2          | 8.4                         | 1.3          | 2.7            | 0.1              | 3.3                          | 14.8                        | 40.0           | 2.1              |
| 492         | 1.1                          | 0.2          | 6.3                         | 1.4          | 2.8            | 0.1              | 3.3                          | 15.0                        | 40.0           | 2.0              |
| 494         | 1.4                          | 0.3          | 8.3                         | 1.5          | 3.1            | 0.1              | 3.4                          | 15.7                        | 40.4           | 2.0              |
| 495a        | 1.1                          | 0.2          | 6.8                         | 1.3          | 2.7            | 0.1              | 3.3                          | 15.9                        | 40.0           | 2.0              |
| 495b        | 1.3                          | 0.2          | 8.1                         | 1.4          | 3.0            | 0.1              | 3.3                          | 16.0                        | 40.3           | 2.0              |
| 496a        | 1.4                          | 0.2          | 8.3                         | 1.4          | 3.0            | 0.1              | 3.3                          | 15.9                        | 40.2           | 2.0              |
| 496b        | 1.3                          | 0.2          | 7.9                         | 1.3          | 2.8            | 0.1              | 3.3                          | 15.9                        | 40.0           | 2.0              |
| 496c        | 1.3                          | 0.2          | 7.8                         | 1.3          | 2.8            | 0.1              | 3.3                          | 15.9                        | 40.0           | 2.0              |
| 499         | 0.6                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.0                        | 37.3           | 1.9              |
| 500         | 0.7                          | 0.1          | 3.0                         | 0.4          | 0.7            | 0.0              | 3.1                          | 16.0                        | 37.4           | 2.0              |
| 501a        | 0.7                          | 0.1          | 3.2                         | 0.4          | 0.7            | 0.0              | 3.1                          | 16.1                        | 37.5           | 2.0              |
| 501b        | 0.7                          | 0.1          | 3.2                         | 0.4          | 0.7            | 0.0              | 3.1                          | 16.1                        | 37.5           | 2.0              |
| 502a        | 0.6                          | 0.1          | 2.7                         | 0.4          | 0.6            | 0.0              | 3.1                          | 15.9                        | 37.3           | 1.9              |
| 502b        | 0.6                          | 0.1          | 2.7                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.9                        | 37.2           | 1.9              |
| 502c        | 0.6                          | 0.1          | 2.7                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.9                        | 37.2           | 1.9              |
| 504a        | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 37.0           | 1.9              |
| 504b        | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 37.0           | 1.9              |
| 505         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.1                        | 37.0           | 1.9              |
| 506         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.1                        | 37.0           | 1.9              |
| 507a        | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.1                        | 37.0           | 1.9              |
| 507b        | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.0                        | 36.9           | 1.9              |
| 508         | 0.7                          | 0.1          | 2.9                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.2                        | 37.4           | 2.0              |
| 509         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.7           | 1.9              |
| 510         | 0.7                          | 0.1          | 2.9                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.4                        | 37.2           | 2.0              |
| 511         | 0.7                          | 0.1          | 3.1                         | 0.4          | 0.6            | 0.0              | 3.1                          | 16.3                        | 37.5           | 2.0              |
| 513         | 0.5                          | 0.0          | 2.9                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 1.9              |
| 515a        | 0.5                          | 0.1          | 3.2                         | 0.3          | 0.6            | 0.0              | 3.2                          | 15.2                        | 39.3           | 2.0              |
| 515b        | 0.4                          | 0.0          | 2.4                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.4                        | 37.5           | 1.9              |
| 516         | 0.3                          | 0.0          | 1.8                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.5                        | 36.8           | 1.9              |
| 517         | 0.5                          | 0.1          | 3.3                         | 0.3          | 0.5            | 0.0              | 3.1                          | 14.0                        | 38.2           | 2.0              |
| 518         | 0.4                          | 0.1          | 2.3                         | 0.3          | 0.6            | 0.0              | 3.2                          | 13.3                        | 39.9           | 2.0              |
| 519         | 0.4                          | 0.0          | 2.6                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.1                        | 37.5           | 1.9              |
| 522a        | 1.0                          | 0.2          | 5.9                         | 1.0          | 2.0            | 0.1              | 3.5                          | 16.5                        | 42.5           | 2.0              |
| 522b        | 2.2                          | 0.5          | 13.4                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.6                        | 46.7           | 2.2              |
| 522c        | 2.2                          | 0.5          | 13.5                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.6                        | 46.7           | 2.2              |
| 522d        | 2.2                          | 0.5          | 13.4                        | 3.1          | 6.9            | 0.2              | 3.9                          | 20.6                        | 46.7           | 2.2              |
| 527         | 2.5                          | 0.7          | 15.4                        | 3.8          | 8.2            | 0.3              | 4.1                          | 22.1                        | 49.3           | 2.3              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 528         | 2.5                          | 0.6          | 15.4                        | 3.7          | 8.2            | 0.3              | 4.1                          | 22.1                        | 49.2           | 2.3              |
| 529         | 2.5                          | 0.6          | 15.3                        | 3.7          | 8.1            | 0.3              | 4.1                          | 22.1                        | 49.1           | 2.3              |
| 530         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.1                        | 48.9           | 2.3              |
| 531         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.1                        | 48.9           | 2.3              |
| 531b        | 2.5                          | 0.6          | 15.3                        | 3.6          | 8.0            | 0.3              | 4.1                          | 22.1                        | 49.0           | 2.3              |
| 532         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.1                        | 49.0           | 2.3              |
| 533         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.1                        | 49.0           | 2.3              |
| 534         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.1                        | 49.0           | 2.3              |
| 535         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.2                        | 49.1           | 2.3              |
| 536         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.2                        | 49.1           | 2.3              |
| 537         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.1                          | 22.2                        | 49.1           | 2.3              |
| 538         | 2.7                          | 0.6          | 15.2                        | 3.6          | 7.7            | 0.2              | 4.2                          | 23.1                        | 50.6           | 2.3              |
| 539         | 2.7                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.2              | 4.2                          | 23.1                        | 50.5           | 2.3              |
| 541         | 2.7                          | 0.6          | 14.9                        | 3.5          | 7.5            | 0.2              | 4.2                          | 23.2                        | 50.4           | 2.3              |
| 542         | 2.7                          | 0.6          | 15.0                        | 3.5          | 7.5            | 0.2              | 4.2                          | 23.2                        | 50.5           | 2.3              |
| 543         | 2.7                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.2              | 4.2                          | 23.2                        | 50.6           | 2.3              |
| 543b        | 2.7                          | 0.6          | 15.2                        | 3.5          | 7.7            | 0.2              | 4.2                          | 23.1                        | 50.7           | 2.3              |
| 544         | 2.7                          | 0.6          | 15.1                        | 3.5          | 7.6            | 0.2              | 4.2                          | 23.1                        | 50.6           | 2.3              |
| 545         | 2.7                          | 0.6          | 15.2                        | 3.5          | 7.7            | 0.2              | 4.3                          | 23.1                        | 50.7           | 2.3              |
| 547         | 1.3                          | 0.2          | 8.1                         | 1.0          | 2.0            | 0.1              | 3.4                          | 15.7                        | 41.7           | 2.1              |
| 549         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.9                          | 11.8                        | 41.3           | 2.0              |
| 550         | 0.5                          | 0.1          | 2.6                         | 0.5          | 1.0            | 0.0              | 4.6                          | 13.7                        | 44.5           | 2.0              |
| 552         | 0.5                          | 0.1          | 2.7                         | 0.5          | 0.9            | 0.0              | 3.6                          | 11.5                        | 40.8           | 2.0              |
| 553         | 0.5                          | 0.1          | 2.6                         | 0.5          | 1.0            | 0.0              | 6.0                          | 17.0                        | 48.7           | 2.1              |
| 554         | 0.5                          | 0.1          | 2.8                         | 0.5          | 1.1            | 0.0              | 3.9                          | 12.4                        | 41.8           | 2.0              |
| 557         | 0.5                          | 0.1          | 2.5                         | 0.5          | 0.9            | 0.0              | 5.1                          | 15.1                        | 46.0           | 2.1              |
| 559         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.8            | 0.0              | 4.7                          | 14.2                        | 44.2           | 2.0              |
| 560         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 4.5                          | 13.6                        | 43.8           | 2.0              |
| 561         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 4.2                          | 12.6                        | 42.6           | 2.0              |
| 562         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 4.3                          | 12.8                        | 42.8           | 2.0              |
| 563         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.8            | 0.0              | 4.0                          | 12.2                        | 41.7           | 2.0              |
| 564         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.9                          | 11.7                        | 41.3           | 2.0              |
| 565         | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.9            | 0.0              | 3.9                          | 11.9                        | 41.5           | 2.0              |
| 566         | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.8            | 0.0              | 3.7                          | 11.4                        | 40.8           | 2.0              |
| 569         | 0.5                          | 0.1          | 2.7                         | 0.5          | 0.9            | 0.0              | 3.5                          | 11.2                        | 40.3           | 2.0              |
| 570         | 0.5                          | 0.1          | 2.7                         | 0.5          | 0.9            | 0.0              | 3.5                          | 11.1                        | 40.3           | 2.0              |
| 571         | 0.5                          | 0.1          | 2.8                         | 0.5          | 1.1            | 0.0              | 3.4                          | 10.8                        | 40.2           | 2.0              |
| 572         | 0.5                          | 0.1          | 2.6                         | 0.5          | 1.0            | 0.0              | 3.5                          | 11.0                        | 40.2           | 2.0              |
| 573         | 0.5                          | 0.1          | 2.7                         | 0.5          | 1.0            | 0.0              | 3.5                          | 11.1                        | 40.3           | 2.0              |
| 574         | 0.5                          | 0.1          | 2.7                         | 0.5          | 1.1            | 0.0              | 3.5                          | 11.2                        | 40.4           | 2.0              |
| 575         | 0.5                          | 0.1          | 2.8                         | 0.6          | 1.1            | 0.0              | 3.5                          | 11.2                        | 40.5           | 2.0              |
| 576         | 0.5                          | 0.1          | 2.9                         | 0.6          | 1.1            | 0.0              | 3.5                          | 11.2                        | 40.5           | 2.0              |
| 577a        | 0.6                          | 0.1          | 3.1                         | 0.6          | 1.2            | 0.0              | 3.5                          | 11.6                        | 40.9           | 2.0              |
| 577b        | 0.6                          | 0.1          | 3.1                         | 0.6          | 1.2            | 0.0              | 3.5                          | 11.5                        | 40.7           | 2.0              |
| 578         | 0.6                          | 0.1          | 3.3                         | 0.6          | 1.2            | 0.0              | 3.5                          | 11.5                        | 40.8           | 2.0              |
| 583         | 0.4                          | 0.1          | 2.6                         | 0.3          | 0.6            | 0.0              | 3.3                          | 13.1                        | 41.2           | 2.0              |
| 586         | 0.3                          | 0.0          | 2.2                         | 0.2          | 0.3            | 0.0              | 3.1                          | 13.8                        | 36.7           | 1.9              |
| 587a        | 0.3                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.0                          | 14.5                        | 36.2           | 1.9              |
| 587b        | 0.3                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.0                          | 14.6                        | 36.1           | 1.9              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 588         | 0.3                          | 0.0       | 2.0                         | 0.2       | 0.3            | 0.0              | 3.0                          | 13.9                        | 36.6           | 1.9              |
| 589a        | 0.2                          | 0.0       | 1.0                         | 0.1       | 0.1            | 0.0              | 3.0                          | 4.9                         | 35.3           | 1.9              |
| 589b        | 0.2                          | 0.0       | 0.6                         | 0.1       | 0.1            | 0.0              | 2.9                          | 4.7                         | 35.2           | 1.9              |
| 600a        | 2.7                          | 0.6       | 14.8                        | 3.4       | 7.4            | 0.2              | 4.2                          | 23.2                        | 50.2           | 2.3              |
| 600b        | 2.7                          | 0.6       | 14.8                        | 3.5       | 7.5            | 0.2              | 4.2                          | 23.1                        | 50.3           | 2.3              |
| 601         | 2.6                          | 0.6       | 14.7                        | 3.4       | 7.4            | 0.2              | 4.2                          | 23.2                        | 50.1           | 2.3              |
| 602         | 2.6                          | 0.6       | 14.6                        | 3.4       | 7.4            | 0.2              | 4.2                          | 23.2                        | 50.1           | 2.3              |
| 603         | 2.6                          | 0.6       | 14.6                        | 3.4       | 7.3            | 0.2              | 4.2                          | 23.2                        | 50.0           | 2.3              |
| 604         | 2.6                          | 0.6       | 14.5                        | 3.4       | 7.3            | 0.2              | 4.2                          | 23.1                        | 50.0           | 2.3              |
| 605         | 2.6                          | 0.6       | 14.5                        | 3.4       | 7.3            | 0.2              | 4.2                          | 23.1                        | 49.9           | 2.3              |
| 606         | 2.6                          | 0.6       | 14.4                        | 3.4       | 7.3            | 0.2              | 4.2                          | 23.1                        | 49.8           | 2.3              |
| 607         | 2.6                          | 0.6       | 14.4                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.1                        | 49.8           | 2.3              |
| 608         | 2.6                          | 0.6       | 14.4                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.1                        | 49.7           | 2.3              |
| 609         | 2.6                          | 0.6       | 14.3                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.1                        | 49.7           | 2.3              |
| 610         | 2.6                          | 0.6       | 14.2                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.1                        | 49.6           | 2.3              |
| 611         | 2.6                          | 0.6       | 14.2                        | 3.3       | 7.1            | 0.2              | 4.2                          | 23.1                        | 49.5           | 2.3              |
| 612         | 2.6                          | 0.6       | 14.3                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.0                        | 49.6           | 2.3              |
| 613         | 2.6                          | 0.6       | 14.2                        | 3.3       | 7.2            | 0.2              | 4.2                          | 23.0                        | 49.5           | 2.3              |
| 614         | 2.6                          | 0.6       | 14.2                        | 3.3       | 7.1            | 0.2              | 4.1                          | 23.0                        | 49.5           | 2.3              |
| 615         | 2.5                          | 0.6       | 14.1                        | 3.3       | 7.1            | 0.2              | 4.1                          | 23.0                        | 49.5           | 2.3              |
| 616a        | 2.5                          | 0.6       | 15.0                        | 3.3       | 7.2            | 0.3              | 4.0                          | 21.5                        | 47.7           | 2.3              |
| 616b        | 2.5                          | 0.6       | 14.2                        | 3.3       | 7.1            | 0.2              | 4.1                          | 22.9                        | 49.4           | 2.3              |
| 617a        | 2.5                          | 0.6       | 14.0                        | 3.2       | 6.9            | 0.2              | 4.1                          | 22.9                        | 49.1           | 2.3              |
| 618a        | 2.5                          | 0.6       | 14.0                        | 3.2       | 6.9            | 0.2              | 4.1                          | 22.9                        | 49.0           | 2.3              |
| 618b        | 2.5                          | 0.6       | 14.0                        | 3.2       | 6.9            | 0.2              | 4.1                          | 22.9                        | 49.1           | 2.3              |
| 619         | 2.5                          | 0.6       | 14.0                        | 3.2       | 6.9            | 0.2              | 4.1                          | 22.8                        | 49.0           | 2.3              |
| 621         | 2.5                          | 0.6       | 14.0                        | 3.2       | 6.8            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622a        | 2.5                          | 0.6       | 14.1                        | 3.2       | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 623a        | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 623b        | 2.4                          | 0.6       | 14.1                        | 3.1       | 6.8            | 0.2              | 4.1                          | 22.7                        | 48.7           | 2.3              |
| 630a        | 2.3                          | 0.5       | 13.7                        | 2.9       | 6.3            | 0.2              | 4.0                          | 22.4                        | 47.9           | 2.3              |
| 631         | 2.3                          | 0.5       | 13.7                        | 2.9       | 6.3            | 0.2              | 4.0                          | 22.3                        | 47.9           | 2.3              |
| 632         | 2.3                          | 0.5       | 13.8                        | 2.9       | 6.3            | 0.2              | 4.0                          | 22.3                        | 47.9           | 2.3              |
| 648         | 2.4                          | 0.5       | 14.4                        | 3.1       | 6.7            | 0.2              | 4.0                          | 22.1                        | 48.1           | 2.3              |
| 649         | 2.4                          | 0.5       | 14.4                        | 3.1       | 6.7            | 0.2              | 4.0                          | 22.2                        | 48.1           | 2.3              |
| 650         | 2.4                          | 0.5       | 14.4                        | 3.1       | 6.8            | 0.2              | 4.0                          | 22.2                        | 48.2           | 2.3              |
| 651         | 2.4                          | 0.5       | 14.5                        | 3.1       | 6.7            | 0.2              | 4.0                          | 22.1                        | 48.1           | 2.3              |
| 652         | 2.4                          | 0.6       | 14.5                        | 3.2       | 6.9            | 0.2              | 4.0                          | 22.2                        | 48.3           | 2.3              |
| 653         | 2.4                          | 0.6       | 14.5                        | 3.2       | 6.9            | 0.2              | 4.0                          | 22.2                        | 48.3           | 2.3              |
| 654a        | 2.5                          | 0.6       | 14.8                        | 3.3       | 7.1            | 0.3              | 4.0                          | 22.0                        | 48.2           | 2.3              |
| 654b        | 2.4                          | 0.6       | 14.6                        | 3.2       | 6.9            | 0.2              | 4.0                          | 22.2                        | 48.3           | 2.3              |
| 655         | 2.4                          | 0.6       | 14.6                        | 3.2       | 6.9            | 0.2              | 4.0                          | 22.2                        | 48.3           | 2.3              |
| 658a        | 2.5                          | 0.6       | 14.7                        | 3.3       | 7.1            | 0.2              | 4.0                          | 22.1                        | 48.4           | 2.3              |
| 659         | 2.5                          | 0.6       | 14.6                        | 3.3       | 7.1            | 0.2              | 4.1                          | 22.2                        | 48.5           | 2.3              |
| 660a        | 2.5                          | 0.6       | 14.7                        | 3.3       | 7.1            | 0.2              | 4.0                          | 22.2                        | 48.4           | 2.3              |
| 660b        | 2.5                          | 0.6       | 14.7                        | 3.3       | 7.1            | 0.2              | 4.0                          | 22.2                        | 48.4           | 2.3              |
| 661         | 2.5                          | 0.6       | 14.8                        | 3.3       | 7.2            | 0.2              | 4.0                          | 22.1                        | 48.5           | 2.3              |
| 662         | 2.5                          | 0.6       | 14.8                        | 3.3       | 7.3            | 0.2              | 4.0                          | 22.1                        | 48.5           | 2.3              |
| 663         | 2.5                          | 0.6       | 14.9                        | 3.4       | 7.3            | 0.3              | 4.0                          | 22.1                        | 48.6           | 2.3              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 664         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.3              | 4.1                          | 22.2                        | 48.6           | 2.3              |
| 665a        | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.5            | 0.3              | 4.1                          | 22.2                        | 48.9           | 2.3              |
| 665b        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.2              | 4.1                          | 22.2                        | 48.9           | 2.3              |
| 667a        | 2.7                          | 0.7          | 16.0                        | 4.1          | 9.0            | 0.3              | 4.2                          | 22.3                        | 50.3           | 2.3              |
| 667b        | 2.7                          | 0.7          | 15.9                        | 4.1          | 8.9            | 0.3              | 4.2                          | 22.3                        | 50.1           | 2.3              |
| 667c        | 2.7                          | 0.7          | 16.0                        | 4.1          | 9.0            | 0.3              | 4.2                          | 22.3                        | 50.3           | 2.3              |
| 667d        | 2.7                          | 0.7          | 16.0                        | 4.1          | 9.0            | 0.3              | 4.2                          | 22.3                        | 50.4           | 2.3              |
| 667e        | 2.7                          | 0.7          | 16.0                        | 4.1          | 9.0            | 0.3              | 4.2                          | 22.3                        | 50.3           | 2.3              |
| 667f        | 2.2                          | 0.5          | 12.5                        | 3.0          | 6.8            | 0.2              | 3.8                          | 20.3                        | 46.4           | 2.2              |
| 669         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.1                        | 48.9           | 2.3              |
| 671         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.1                        | 48.9           | 2.3              |
| 672         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.1                        | 48.8           | 2.3              |
| 673         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.1                        | 48.8           | 2.3              |
| 675         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.0                        | 48.7           | 2.3              |
| 676         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.0                        | 48.7           | 2.3              |
| 677         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 678         | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 679         | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 22.0                        | 48.5           | 2.3              |
| 680         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 22.0                        | 48.4           | 2.3              |
| 681         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.9                        | 48.3           | 2.3              |
| 682a        | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.9                        | 48.2           | 2.3              |
| 682b        | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.9                        | 48.2           | 2.3              |
| 683         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 684         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 685         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.1            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 686         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.1            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 687         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.1            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 688         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.1            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 689         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.3            | 0.3              | 4.0                          | 22.1                        | 48.5           | 2.3              |
| 690         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.2            | 0.3              | 4.0                          | 22.0                        | 48.4           | 2.3              |
| 691         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.1            | 0.3              | 4.0                          | 22.0                        | 48.3           | 2.3              |
| 692         | 2.5                          | 0.6          | 14.8                        | 3.3          | 7.1            | 0.3              | 4.0                          | 22.0                        | 48.2           | 2.3              |
| 693         | 2.5                          | 0.6          | 14.8                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.9                        | 48.0           | 2.3              |
| 694a        | 2.5                          | 0.6          | 14.8                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 694b        | 2.5                          | 0.6          | 14.8                        | 3.2          | 6.9            | 0.3              | 4.0                          | 21.8                        | 47.8           | 2.3              |
| 695         | 2.5                          | 0.6          | 14.8                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 697         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 698         | 2.5                          | 0.6          | 14.8                        | 3.2          | 6.9            | 0.3              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 715         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.8                        | 40.4           | 2.1              |
| 728         | 2.5                          | 0.6          | 14.8                        | 3.2          | 6.9            | 0.3              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 729         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 730         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 731         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 732         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 733         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 735a        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 735b        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 736         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 737         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 738         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 739         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 740a        | 2.4                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 3.9                          | 21.4                        | 47.5           | 2.3              |
| 740b        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.5                        | 47.5           | 2.3              |
| 740c        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 740d        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 740e        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 740f        | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 3.9                          | 21.5                        | 47.5           | 2.3              |
| 741         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 742         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 743         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.6                        | 47.7           | 2.3              |
| 744         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 745         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 4.0                          | 21.5                        | 47.6           | 2.3              |
| 746         | 2.5                          | 0.6          | 14.9                        | 3.2          | 7.1            | 0.3              | 3.9                          | 21.4                        | 47.5           | 2.3              |
| 747         | 2.4                          | 0.6          | 14.9                        | 3.2          | 7.0            | 0.3              | 3.9                          | 21.4                        | 47.5           | 2.3              |
| 748a        | 2.4                          | 0.6          | 14.8                        | 3.2          | 7.0            | 0.3              | 3.9                          | 21.4                        | 47.4           | 2.3              |
| 748b        | 1.7                          | 0.3          | 9.6                         | 1.9          | 4.1            | 0.2              | 3.6                          | 18.7                        | 43.4           | 2.1              |
| 749a        | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 749b        | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 750         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 751         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 752a        | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.8                        | 48.1           | 2.3              |
| 752b        | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 753         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.8                        | 48.1           | 2.3              |
| 754         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.3            | 0.3              | 4.0                          | 21.9                        | 48.1           | 2.3              |
| 755         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.9                        | 48.2           | 2.3              |
| 756         | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.9                        | 48.3           | 2.3              |
| 757         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.9                        | 48.3           | 2.3              |
| 758         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.9                        | 48.4           | 2.3              |
| 759a        | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 21.9                        | 48.4           | 2.3              |
| 759b        | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 21.9                        | 48.4           | 2.3              |
| 760         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.6            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 761         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 22.0                        | 48.5           | 2.3              |
| 762         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 763         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 764         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.8            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 765a        | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 21.9                        | 48.6           | 2.3              |
| 765b        | 2.5                          | 0.6          | 15.2                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.6           | 2.3              |
| 766         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.6           | 2.3              |
| 767         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 768         | 2.5                          | 0.6          | 15.2                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 769         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.6            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 770         | 2.5                          | 0.6          | 15.2                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 771         | 2.5                          | 0.6          | 15.2                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 772         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 773         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.8            | 0.3              | 4.0                          | 21.9                        | 48.5           | 2.3              |
| 774         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 775         | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 776         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.0                          | 21.8                        | 48.4           | 2.3              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 777         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.8            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 778a        | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 778b        | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.0                          | 21.8                        | 48.4           | 2.3              |
| 779a        | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.8            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 779b        | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.0                          | 21.8                        | 48.2           | 2.3              |
| 780         | 2.5                          | 0.6          | 15.1                        | 3.6          | 7.8            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 781         | 2.5                          | 0.6          | 15.2                        | 3.6          | 7.9            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 782         | 2.5                          | 0.6          | 15.1                        | 3.6          | 7.9            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 783         | 2.5                          | 0.6          | 15.1                        | 3.6          | 7.9            | 0.3              | 4.0                          | 21.8                        | 48.3           | 2.3              |
| 784         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 785         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 786         | 2.5                          | 0.6          | 14.9                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 48.0           | 2.3              |
| 787a        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.2            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 787b        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 788         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 789         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 790a        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 790b        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 791a        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 791b        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 792a        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.7                        | 48.0           | 2.3              |
| 792b        | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 793         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.3            | 0.3              | 4.0                          | 21.6                        | 47.9           | 2.3              |
| 794         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.9           | 2.3              |
| 795         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.9           | 2.3              |
| 796         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 797a        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 797b        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.7                        | 48.0           | 2.3              |
| 798         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.0                          | 21.7                        | 48.0           | 2.3              |
| 801         | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 21.7                        | 48.0           | 2.3              |
| 802         | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.7            | 0.3              | 4.0                          | 21.7                        | 48.1           | 2.3              |
| 803a        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.8           | 2.3              |
| 803b        | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.8           | 2.3              |
| 804         | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.8           | 2.3              |
| 805         | 2.5                          | 0.6          | 15.0                        | 3.3          | 7.4            | 0.3              | 4.0                          | 21.6                        | 47.8           | 2.3              |
| 806         | 2.3                          | 0.5          | 14.3                        | 3.1          | 6.9            | 0.3              | 3.9                          | 21.0                        | 47.0           | 2.2              |
| 807         | 2.3                          | 0.5          | 14.3                        | 3.1          | 6.9            | 0.3              | 3.9                          | 21.0                        | 46.9           | 2.2              |
| 808         | 2.3                          | 0.5          | 14.3                        | 3.1          | 6.9            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 809         | 2.3                          | 0.5          | 14.3                        | 3.1          | 6.9            | 0.2              | 3.9                          | 21.0                        | 46.9           | 2.2              |
| 810         | 2.3                          | 0.5          | 14.2                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 811         | 2.3                          | 0.5          | 14.2                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 812         | 2.3                          | 0.5          | 14.1                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 813         | 2.3                          | 0.5          | 14.1                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.8                        | 46.9           | 2.2              |
| 814         | 2.3                          | 0.5          | 14.0                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.8                        | 46.9           | 2.2              |
| 815a        | 2.3                          | 0.5          | 13.9                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.8                        | 46.8           | 2.2              |
| 815b        | 2.3                          | 0.5          | 14.0                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.8                        | 46.9           | 2.2              |
| 816         | 2.3                          | 0.5          | 13.8                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.7                        | 46.8           | 2.2              |
| 817         | 2.2                          | 0.5          | 13.6                        | 3.1          | 7.0            | 0.2              | 3.9                          | 20.6                        | 46.7           | 2.2              |
| 819         | 2.2                          | 0.5          | 12.4                        | 3.0          | 6.7            | 0.2              | 3.8                          | 20.2                        | 46.4           | 2.2              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 820a        | 2.2                          | 0.5          | 12.3                        | 3.0          | 6.6            | 0.2              | 3.8                          | 20.2                        | 46.3           | 2.2              |
| 820b        | 2.2                          | 0.5          | 12.5                        | 3.0          | 6.7            | 0.2              | 3.8                          | 20.2                        | 46.3           | 2.2              |
| 821         | 2.2                          | 0.5          | 12.3                        | 3.0          | 6.6            | 0.2              | 3.8                          | 20.1                        | 46.2           | 2.2              |
| 822         | 2.2                          | 0.5          | 12.3                        | 2.9          | 6.6            | 0.2              | 3.8                          | 20.1                        | 46.2           | 2.2              |
| 823a        | 2.2                          | 0.5          | 12.3                        | 2.9          | 6.6            | 0.2              | 3.8                          | 20.1                        | 46.1           | 2.2              |
| 823b        | 2.2                          | 0.5          | 12.5                        | 3.0          | 6.6            | 0.2              | 3.8                          | 20.1                        | 46.2           | 2.2              |
| 824         | 2.2                          | 0.5          | 12.2                        | 2.9          | 6.5            | 0.2              | 3.8                          | 20.0                        | 46.1           | 2.2              |
| 825         | 2.2                          | 0.5          | 12.2                        | 2.9          | 6.4            | 0.2              | 3.8                          | 20.0                        | 46.0           | 2.2              |
| 826         | 2.2                          | 0.5          | 12.2                        | 2.9          | 6.4            | 0.2              | 3.8                          | 20.0                        | 46.0           | 2.2              |
| 827         | 2.1                          | 0.5          | 12.2                        | 2.9          | 6.4            | 0.2              | 3.8                          | 19.9                        | 46.0           | 2.2              |
| 828         | 2.1                          | 0.5          | 12.1                        | 2.8          | 6.3            | 0.2              | 3.8                          | 19.8                        | 45.9           | 2.2              |
| 829a        | 2.1                          | 0.5          | 12.1                        | 2.8          | 6.2            | 0.2              | 3.8                          | 19.8                        | 45.8           | 2.2              |
| 829b        | 2.1                          | 0.5          | 12.1                        | 2.8          | 6.2            | 0.2              | 3.8                          | 19.8                        | 45.8           | 2.2              |
| 830         | 2.1                          | 0.5          | 12.0                        | 2.8          | 6.2            | 0.2              | 3.8                          | 19.7                        | 45.7           | 2.2              |
| 831         | 2.1                          | 0.5          | 12.0                        | 2.8          | 6.2            | 0.2              | 3.8                          | 19.7                        | 45.7           | 2.2              |
| 832         | 2.1                          | 0.5          | 12.0                        | 2.8          | 6.1            | 0.2              | 3.8                          | 19.7                        | 45.7           | 2.2              |
| 833         | 2.1                          | 0.5          | 11.9                        | 2.7          | 6.1            | 0.2              | 3.8                          | 19.7                        | 45.6           | 2.2              |
| 834         | 2.1                          | 0.5          | 11.9                        | 2.7          | 6.0            | 0.2              | 3.8                          | 19.6                        | 45.5           | 2.2              |
| 835         | 2.1                          | 0.5          | 11.8                        | 2.7          | 6.0            | 0.2              | 3.8                          | 19.6                        | 45.5           | 2.2              |
| 836         | 2.1                          | 0.5          | 11.8                        | 2.7          | 5.9            | 0.2              | 3.7                          | 19.6                        | 45.4           | 2.2              |
| 837         | 2.1                          | 0.5          | 11.7                        | 2.7          | 5.9            | 0.2              | 3.7                          | 19.5                        | 45.4           | 2.2              |
| 838         | 2.1                          | 0.5          | 11.7                        | 2.6          | 5.8            | 0.2              | 3.7                          | 19.5                        | 45.3           | 2.2              |
| 839         | 2.0                          | 0.5          | 11.6                        | 2.6          | 5.8            | 0.2              | 3.7                          | 19.5                        | 45.2           | 2.2              |
| 840         | 2.0                          | 0.5          | 11.5                        | 2.6          | 5.7            | 0.2              | 3.7                          | 19.5                        | 45.2           | 2.2              |
| 841         | 2.0                          | 0.4          | 11.5                        | 2.6          | 5.7            | 0.2              | 3.7                          | 19.4                        | 45.1           | 2.2              |
| 843a        | 2.0                          | 0.4          | 11.3                        | 2.5          | 5.5            | 0.2              | 3.7                          | 19.3                        | 44.9           | 2.2              |
| 843b        | 2.0                          | 0.4          | 11.4                        | 2.5          | 5.5            | 0.2              | 3.7                          | 19.3                        | 44.9           | 2.2              |
| 844a        | 1.9                          | 0.4          | 11.0                        | 2.4          | 5.2            | 0.2              | 3.7                          | 19.1                        | 44.6           | 2.1              |
| 845         | 1.9                          | 0.4          | 10.6                        | 2.2          | 4.8            | 0.2              | 3.6                          | 19.0                        | 44.2           | 2.1              |
| 846         | 1.9                          | 0.4          | 10.5                        | 2.2          | 4.8            | 0.2              | 3.6                          | 18.9                        | 44.1           | 2.1              |
| 847         | 1.9                          | 0.4          | 10.5                        | 2.2          | 4.7            | 0.2              | 3.6                          | 18.9                        | 44.1           | 2.1              |
| 848         | 1.8                          | 0.4          | 10.4                        | 2.2          | 4.7            | 0.2              | 3.6                          | 18.9                        | 44.0           | 2.1              |
| 849         | 1.8                          | 0.4          | 10.4                        | 2.1          | 4.7            | 0.2              | 3.6                          | 18.9                        | 44.0           | 2.1              |
| 850         | 1.8                          | 0.4          | 10.4                        | 2.1          | 4.6            | 0.2              | 3.6                          | 18.9                        | 43.9           | 2.1              |
| 853         | 1.8                          | 0.4          | 10.1                        | 2.1          | 4.5            | 0.2              | 3.6                          | 18.8                        | 43.8           | 2.1              |
| 854         | 1.8                          | 0.4          | 10.1                        | 2.0          | 4.4            | 0.2              | 3.6                          | 18.8                        | 43.7           | 2.1              |
| 855         | 1.8                          | 0.4          | 10.0                        | 2.0          | 4.4            | 0.2              | 3.6                          | 18.8                        | 43.7           | 2.1              |
| 856         | 1.8                          | 0.4          | 10.0                        | 2.0          | 4.3            | 0.2              | 3.6                          | 18.8                        | 43.7           | 2.1              |
| 857         | 1.8                          | 0.4          | 9.9                         | 2.0          | 4.3            | 0.2              | 3.6                          | 18.8                        | 43.6           | 2.1              |
| 858         | 1.7                          | 0.3          | 9.9                         | 2.0          | 4.3            | 0.2              | 3.6                          | 18.8                        | 43.6           | 2.1              |
| 859         | 1.7                          | 0.3          | 9.8                         | 2.0          | 4.2            | 0.2              | 3.6                          | 18.7                        | 43.5           | 2.1              |
| 860         | 1.7                          | 0.3          | 9.8                         | 2.0          | 4.2            | 0.2              | 3.6                          | 18.7                        | 43.5           | 2.1              |
| 861         | 1.7                          | 0.3          | 9.7                         | 1.9          | 4.2            | 0.2              | 3.6                          | 18.7                        | 43.5           | 2.1              |
| 862         | 1.7                          | 0.3          | 9.7                         | 1.9          | 4.1            | 0.2              | 3.6                          | 18.7                        | 43.4           | 2.1              |
| 863         | 1.7                          | 0.3          | 9.5                         | 1.9          | 4.0            | 0.1              | 3.6                          | 18.7                        | 43.3           | 2.1              |
| 864         | 1.7                          | 0.3          | 9.5                         | 1.9          | 4.0            | 0.1              | 3.6                          | 18.7                        | 43.3           | 2.1              |
| 865         | 1.7                          | 0.3          | 9.4                         | 1.8          | 4.0            | 0.1              | 3.6                          | 18.7                        | 43.3           | 2.1              |
| 866         | 1.6                          | 0.3          | 9.2                         | 1.7          | 3.7            | 0.1              | 3.5                          | 18.7                        | 42.9           | 2.1              |
| 867         | 1.6                          | 0.3          | 9.2                         | 1.7          | 3.7            | 0.1              | 3.5                          | 18.7                        | 42.8           | 2.1              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 868         | 1.6                          | 0.3          | 9.1                         | 1.7          | 3.6            | 0.1              | 3.5                          | 18.6                        | 42.8           | 2.1              |
| 870         | 1.6                          | 0.3          | 9.1                         | 1.7          | 3.6            | 0.1              | 3.5                          | 18.6                        | 42.7           | 2.1              |
| 871         | 1.6                          | 0.3          | 9.1                         | 1.7          | 3.5            | 0.1              | 3.5                          | 18.5                        | 42.6           | 2.1              |
| 872a        | 1.6                          | 0.3          | 9.0                         | 1.7          | 3.5            | 0.1              | 3.5                          | 18.5                        | 42.6           | 2.1              |
| 900a        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 900b        | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.9           | 2.1              |
| 901         | 1.0                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.3           | 2.1              |
| 902         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.3           | 2.1              |
| 903         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.3           | 2.1              |
| 904         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.2           | 2.1              |
| 905         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.2           | 2.1              |
| 906         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 907         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 908         | 0.9                          | 0.1          | 4.8                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 909         | 0.9                          | 0.1          | 4.8                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 40.9           | 2.1              |
| 911         | 0.9                          | 0.1          | 4.8                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 912         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 913         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.0           | 2.1              |
| 914         | 0.9                          | 0.1          | 4.9                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.0           | 2.1              |
| 915         | 0.8                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.1           | 2.1              |
| 916         | 0.8                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.1           | 2.1              |
| 917         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 918         | 0.8                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 919         | 0.8                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 920         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 921         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.3           | 2.1              |
| 922         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.3                        | 41.3           | 2.1              |
| 924         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 925         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 926         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 927         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 928         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 929         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.6           | 2.1              |
| 930         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 931         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.1              |
| 932a        | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.1              |
| 932b        | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.1              |
| 933         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.3                        | 41.7           | 2.1              |
| 934         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.3                        | 41.6           | 2.1              |
| 935a        | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.3                        | 41.6           | 2.1              |
| 935b        | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.3                        | 41.5           | 2.1              |
| 936         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.7           | 2.1              |
| 937         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.1              |
| 938         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.1              |
| 939         | 0.9                          | 0.1          | 5.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 42.0           | 2.1              |
| 940         | 0.9                          | 0.1          | 5.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.4                        | 42.0           | 2.2              |
| 941         | 0.9                          | 0.1          | 5.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.4                        | 42.2           | 2.2              |
| 942         | 0.9                          | 0.1          | 5.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.5                        | 42.3           | 2.2              |
| 943         | 0.9                          | 0.1          | 5.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.4                        | 42.2           | 2.2              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 944         | 0.8                          | 0.1          | 5.2                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.4                        | 42.1           | 2.2              |
| 945a        | 0.8                          | 0.1          | 5.2                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.4                        | 41.9           | 2.2              |
| 945b        | 0.8                          | 0.1          | 5.2                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.4                        | 41.9           | 2.2              |
| 946         | 0.8                          | 0.1          | 5.2                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.2              |
| 947         | 0.8                          | 0.1          | 5.2                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.7           | 2.1              |
| 948         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 949         | 0.8                          | 0.1          | 5.1                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 950         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 951         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 952         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 953         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 954         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 955         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 956         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.7           | 2.1              |
| 957a        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 957b        | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.8           | 2.1              |
| 958         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 959         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.1           | 2.1              |
| 960         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.3           | 2.1              |
| 961         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.5           | 2.1              |
| 962         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.4                        | 41.7           | 2.1              |
| 963         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.5                        | 41.9           | 2.2              |
| 964         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.6                        | 42.1           | 2.2              |
| 965         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.6                        | 42.0           | 2.2              |
| 966         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.6                        | 41.7           | 2.1              |
| 967a        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.5                        | 41.5           | 2.1              |
| 967b        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.5                        | 41.4           | 2.1              |
| 968         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.4                        | 41.4           | 2.1              |
| 969         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.4                        | 41.2           | 2.1              |
| 970         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.0           | 2.1              |
| 971         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 972         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 40.7           | 2.1              |
| 973         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.6           | 2.1              |
| 974         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.4           | 2.1              |
| 976         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.6           | 2.1              |
| 977a        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 977b        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.1           | 2.1              |
| 978         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 979a        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 979b        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.3           | 2.1              |
| 980         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 981a        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 981b        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.2           | 2.1              |
| 982         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.2           | 2.1              |
| 983         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 984         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 985         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.7           | 2.1              |
| 986         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 987         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx





| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 988a        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 988b        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.7           | 2.1              |
| 989a        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 989b        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.7           | 2.1              |
| 990         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.8           | 2.1              |
| 991         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| 992         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.6                        | 40.0           | 2.1              |
| 993a        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.3           | 2.1              |
| 993b        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.2           | 2.1              |
| 994a        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.1           | 2.1              |
| 994b        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.1           | 2.1              |
| 995         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.2           | 2.1              |
| 997         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.5           | 2.1              |
| 998         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.6           | 2.1              |
| 999         | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1000        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 1001        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1002        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 1003        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1004        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1005        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.0           | 2.1              |
| 1006        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1007        | 0.8                          | 0.1          | 4.4                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1008        | 0.8                          | 0.1          | 4.4                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1009        | 0.7                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1010        | 0.8                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1011        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1012        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1014        | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1015        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 1016        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1017        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1018        | 0.7                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| 1019        | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| 1020        | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1021        | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1022        | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1023        | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1024        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1025        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1026        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 1027        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1028        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1029        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1030        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| 1031        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1032        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1033        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1034        | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.1              |

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| Receptor ID          | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|----------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                      | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                      | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                      | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                      | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 1035                 | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| 1036a                | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.1              |
| 1036b                | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| 1037                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.1              |
| 1038                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1039                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1040                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1041                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1042                 | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1043                 | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1044                 | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1045                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.0              |
| 1046                 | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| 1076a                | 0.8                          | 0.1       | 3.4                         | 0.4       | 0.6            | 0.0              | 3.2                          | 16.8                        | 37.8           | 2.0              |
| 1076b                | 0.8                          | 0.1       | 3.4                         | 0.4       | 0.6            | 0.0              | 3.2                          | 16.8                        | 37.8           | 2.0              |
| 1077                 | 0.8                          | 0.1       | 5.0                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.7           | 2.1              |
| 1078                 | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.0              |
| 1079                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.2           | 2.0              |
| 1080                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.1           | 2.0              |
| 1081                 | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| 1082a                | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.0              |
| 1082b                | 0.8                          | 0.1       | 4.9                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.0              |
| 1083                 | 0.5                          | 0.0       | 2.7                         | 0.2       | 0.3            | 0.0              | 3.0                          | 15.9                        | 36.0           | 1.9              |
| 1084                 | 0.4                          | 0.0       | 2.3                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.8                        | 35.9           | 1.9              |
| 1100a                | 0.3                          | 0.0       | 1.0                         | 0.1       | 0.2            | 0.0              | 3.3                          | 9.5                         | 39.1           | 1.9              |
| 1100b                | 0.3                          | 0.0       | 1.0                         | 0.1       | 0.1            | 0.0              | 3.3                          | 9.5                         | 39.0           | 1.9              |
| 3001                 | 1.4                          | 0.2       | 8.3                         | 1.4       | 2.9            | 0.1              | 3.4                          | 14.9                        | 40.3           | 2.1              |
| 3002a                | 1.3                          | 0.3       | 8.2                         | 1.5       | 3.1            | 0.1              | 3.3                          | 15.6                        | 40.3           | 2.0              |
| 3002b                | 1.3                          | 0.3       | 8.1                         | 1.5       | 3.1            | 0.1              | 3.4                          | 15.6                        | 40.3           | 2.0              |
| 3003                 | 2.0                          | 0.3       | 12.2                        | 2.0       | 4.5            | 0.1              | 3.5                          | 16.4                        | 42.7           | 2.1              |
| 3004                 | 1.9                          | 0.3       | 11.8                        | 2.0       | 4.3            | 0.1              | 3.5                          | 16.3                        | 42.4           | 2.1              |
| 3005a                | 1.7                          | 0.3       | 10.3                        | 1.7       | 3.7            | 0.1              | 3.4                          | 16.1                        | 41.4           | 2.1              |
| 3005b                | 1.6                          | 0.3       | 9.4                         | 1.6       | 3.4            | 0.1              | 3.4                          | 16.0                        | 41.0           | 2.0              |
| 3005c                | 1.7                          | 0.3       | 10.4                        | 1.7       | 3.8            | 0.1              | 3.4                          | 16.1                        | 41.5           | 2.1              |
| Mine-owned receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 45                   | 1.3                          | 0.1       | 4.2                         | 0.6       | 1.0            | 0.0              | 4.4                          | 19.2                        | 55.1           | 2.5              |
| 45b                  | 1.4                          | 0.1       | 4.3                         | 0.6       | 1.0            | 0.0              | 4.5                          | 19.3                        | 55.2           | 2.5              |
| 45c                  | 1.4                          | 0.1       | 4.3                         | 0.6       | 1.0            | 0.0              | 4.5                          | 19.4                        | 55.4           | 2.5              |
| 74                   | 3.7                          | 0.9       | 21.3                        | 5.4       | 11.9           | 0.3              | 4.3                          | 22.2                        | 52.7           | 2.3              |
| 118                  | 5.4                          | 1.3       | 32.3                        | 7.6       | 17.5           | 0.5              | 4.6                          | 20.6                        | 57.2           | 2.5              |
| 120                  | 5.3                          | 1.3       | 31.5                        | 7.4       | 17.3           | 0.5              | 4.6                          | 20.3                        | 56.9           | 2.4              |
| 120c                 | 5.3                          | 1.3       | 31.9                        | 7.5       | 17.5           | 0.5              | 4.6                          | 20.4                        | 57.1           | 2.5              |
| 121                  | 5.4                          | 1.3       | 32.6                        | 7.7       | 17.9           | 0.5              | 4.6                          | 20.5                        | 57.5           | 2.5              |
| 526                  | 3.0                          | 0.7       | 16.9                        | 4.2       | 9.5            | 0.3              | 4.1                          | 22.1                        | 49.6           | 2.2              |
| 23                   | 4.4                          | 1.1       | 25.3                        | 6.3       | 13.9           | 0.3              | 5.1                          | 22.9                        | 61.6           | 2.4              |
| 68                   | 3.6                          | 0.9       | 20.6                        | 5.3       | 11.7           | 0.3              | 4.4                          | 22.2                        | 52.9           | 2.3              |
| 80a                  | 2.9                          | 0.7       | 16.7                        | 4.2       | 9.4            | 0.3              | 4.1                          | 22.0                        | 49.5           | 2.2              |
| 139                  | 2.4                          | 0.4       | 14.8                        | 2.5       | 5.2            | 0.2              | 3.7                          | 15.1                        | 44.4           | 2.1              |
| 158                  | 5.1                          | 0.7       | 30.4                        | 3.8       | 8.2            | 0.1              | 4.0                          | 16.2                        | 49.4           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 231         | 3.0                          | 0.7          | 17.3                        | 4.3          | 9.7            | 0.3              | 4.1                          | 22.1                        | 49.9           | 2.2              |
| 263         | 1.3                          | 0.1          | 8.1                         | 0.5          | 1.0            | 0.0              | 4.7                          | 22.2                        | 59.0           | 2.3              |
| 1p          | 4.8                          | 1.2          | 28.3                        | 6.9          | 16.2           | 0.4              | 4.5                          | 19.6                        | 55.6           | 2.4              |
| 1r          | 51.2                         | 13.7         | 298.0                       | 80.7         | 241.1          | 6.3              | 17.0                         | 89.0                        | 280.5          | 8.2              |
| 1s          | 54.7                         | 16.1         | 312.0                       | 94.3         | 310.9          | 12.1             | 19.4                         | 79.3                        | 350.6          | 14.1             |
| 1v          | 8.6                          | 1.5          | 47.5                        | 8.9          | 18.9           | 0.9              | 4.7                          | 14.4                        | 57.9           | 2.8              |
| 1w          | 76.0                         | 18.5         | 448.0                       | 110.1        | 365.8          | 10.1             | 21.8                         | 108.3                       | 405.1          | 12.0             |
| 1x          | 70.0                         | 13.5         | 410.0                       | 84.0         | 265.9          | 9.0              | 16.8                         | 92.3                        | 304.9          | 10.9             |
| 1z          | 3.9                          | 0.6          | 22.1                        | 3.5          | 7.2            | 0.2              | 3.9                          | 14.7                        | 47.6           | 2.2              |
| 1ab         | 4.3                          | 0.7          | 25.2                        | 3.8          | 8.1            | 0.2              | 4.0                          | 15.8                        | 48.7           | 2.2              |
| 1ac         | 4.5                          | 1.1          | 25.8                        | 6.4          | 14.2           | 0.3              | 5.0                          | 22.9                        | 60.4           | 2.4              |
| 1ae         | 5.9                          | 1.5          | 34.5                        | 9.1          | 20.2           | 0.5              | 5.3                          | 23.7                        | 64.7           | 2.5              |
| 1af         | 4.1                          | 1.1          | 23.5                        | 6.2          | 13.7           | 0.3              | 4.6                          | 22.3                        | 55.8           | 2.4              |
| 1ah         | 3.8                          | 1.0          | 22.0                        | 5.6          | 12.3           | 0.3              | 4.4                          | 22.2                        | 53.2           | 2.3              |
| 1aj         | 3.8                          | 0.9          | 21.8                        | 5.5          | 12.2           | 0.3              | 4.4                          | 22.2                        | 53.1           | 2.3              |
| 1ak         | 3.7                          | 0.9          | 21.7                        | 5.5          | 12.1           | 0.3              | 4.4                          | 22.2                        | 53.0           | 2.3              |
| 1am         | 3.7                          | 0.9          | 21.8                        | 5.4          | 12.2           | 0.3              | 4.3                          | 21.7                        | 52.3           | 2.3              |
| 1bb         | 4.4                          | 1.1          | 25.8                        | 6.6          | 14.6           | 0.4              | 4.6                          | 22.0                        | 56.1           | 2.4              |
| 1be         | 12.4                         | 1.6          | 69.0                        | 9.0          | 20.3           | 0.5              | 5.0                          | 20.3                        | 61.8           | 2.5              |
| 2i          | 4.4                          | 1.1          | 25.3                        | 6.7          | 14.8           | 0.4              | 4.7                          | 22.4                        | 57.3           | 2.4              |
| 35          | 3.3                          | 0.9          | 18.8                        | 5.1          | 11.2           | 0.3              | 4.4                          | 22.5                        | 53.2           | 2.3              |
| 35b         | 3.3                          | 0.9          | 19.1                        | 5.1          | 11.2           | 0.3              | 4.4                          | 22.4                        | 53.1           | 2.3              |
| 257         | 1.0                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 4.8                          | 23.7                        | 59.3           | 2.2              |
| 246         | 1.0                          | 0.1          | 4.9                         | 0.6          | 1.1            | 0.0              | 7.1                          | 49.4                        | 92.4           | 2.5              |
| 246b        | 1.0                          | 0.1          | 4.8                         | 0.6          | 1.1            | 0.0              | 7.0                          | 48.9                        | 91.1           | 2.5              |
| 2b          | 9.8                          | 2.2          | 58.5                        | 13.2         | 29.4           | 0.5              | 6.5                          | 30.0                        | 82.4           | 2.8              |
| 2d          | 2.7                          | 0.7          | 15.6                        | 3.8          | 8.4            | 0.2              | 4.2                          | 22.7                        | 50.5           | 2.3              |
| 2e          | 7.6                          | 1.9          | 44.5                        | 11.5         | 25.7           | 0.6              | 5.7                          | 26.0                        | 71.3           | 2.6              |
| 2n          | 1.1                          | 0.1          | 5.2                         | 0.6          | 1.2            | 0.0              | 7.7                          | 56.5                        | 101.4          | 2.6              |
| 2o          | 1.0                          | 0.1          | 4.3                         | 0.6          | 1.0            | 0.0              | 6.1                          | 38.9                        | 78.2           | 2.4              |
| 2p          | 0.9                          | 0.1          | 4.2                         | 0.5          | 1.0            | 0.0              | 6.0                          | 37.6                        | 76.3           | 2.3              |
| 2r          | 1.0                          | 0.1          | 4.3                         | 0.5          | 1.0            | 0.0              | 6.0                          | 37.9                        | 76.3           | 2.3              |
| 2s          | 1.0                          | 0.1          | 4.3                         | 0.6          | 1.0            | 0.0              | 6.0                          | 37.9                        | 76.1           | 2.3              |
| 2w          | 0.9                          | 0.1          | 4.7                         | 0.5          | 0.9            | 0.0              | 5.1                          | 27.1                        | 63.2           | 2.3              |
| 2x          | 3.9                          | 0.9          | 22.7                        | 5.5          | 12.0           | 0.2              | 5.5                          | 24.6                        | 68.0           | 2.5              |
| 2y          | 4.1                          | 1.0          | 23.7                        | 5.8          | 12.6           | 0.2              | 5.5                          | 24.5                        | 67.9           | 2.5              |
| 2z          | 4.1                          | 1.0          | 23.9                        | 5.9          | 12.8           | 0.2              | 5.4                          | 24.1                        | 67.1           | 2.5              |
| 2aa         | 4.3                          | 1.0          | 25.0                        | 6.1          | 13.2           | 0.2              | 5.5                          | 24.7                        | 68.3           | 2.5              |
| 2ab         | 4.1                          | 1.0          | 23.9                        | 5.9          | 12.9           | 0.2              | 5.4                          | 24.0                        | 66.8           | 2.5              |
| 2ad         | 4.2                          | 1.0          | 24.4                        | 6.0          | 13.2           | 0.2              | 5.4                          | 23.8                        | 66.3           | 2.5              |
| 2af         | 4.2                          | 1.0          | 24.3                        | 6.0          | 13.2           | 0.2              | 5.3                          | 23.4                        | 65.3           | 2.4              |
| 2ai         | 6.4                          | 1.5          | 38.5                        | 8.8          | 19.1           | 0.3              | 6.2                          | 30.1                        | 78.6           | 2.7              |
| 2aj         | 4.9                          | 1.2          | 28.0                        | 6.9          | 15.3           | 0.3              | 5.2                          | 23.5                        | 64.3           | 2.4              |
| 2al         | 10.0                         | 2.3          | 60.2                        | 13.5         | 29.9           | 0.5              | 6.6                          | 30.7                        | 83.3           | 2.8              |
| 2am         | 4.1                          | 1.0          | 23.6                        | 5.9          | 13.0           | 0.2              | 5.3                          | 23.2                        | 64.8           | 2.4              |
| 2an         | 0.9                          | 0.1          | 4.1                         | 0.5          | 0.9            | 0.0              | 5.8                          | 36.3                        | 74.1           | 2.3              |
| 2ao         | 0.9                          | 0.1          | 4.1                         | 0.5          | 1.0            | 0.0              | 5.9                          | 37.0                        | 75.1           | 2.3              |
| 300         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 4.4                          | 20.4                        | 53.8           | 2.1              |
| 298         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.3                        | 54.7           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 296a        | 0.7                          | 0.1          | 2.9                         | 0.3          | 0.6            | 0.0              | 4.8                          | 23.6                        | 57.9           | 2.1              |
| 296b        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 4.6                          | 22.6                        | 56.5           | 2.1              |
| 487         | 0.7                          | 0.1          | 3.3                         | 0.4          | 0.7            | 0.0              | 5.4                          | 29.8                        | 66.4           | 2.2              |
| 488a        | 0.8                          | 0.1          | 3.8                         | 0.4          | 0.8            | 0.0              | 6.8                          | 44.5                        | 84.6           | 2.3              |
| 488b        | 0.9                          | 0.1          | 4.1                         | 0.5          | 0.8            | 0.0              | 6.2                          | 38.8                        | 77.3           | 2.3              |
| 7           | 3.3                          | 0.8          | 19.3                        | 4.8          | 10.5           | 0.2              | 5.4                          | 24.1                        | 67.0           | 2.4              |
| 211         | 2.5                          | 0.7          | 14.0                        | 3.8          | 8.2            | 0.2              | 4.9                          | 20.3                        | 58.0           | 2.3              |
| 299         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.0                        | 54.6           | 2.1              |
| 487b        | 0.8                          | 0.1          | 3.4                         | 0.4          | 0.7            | 0.0              | 5.3                          | 29.3                        | 65.4           | 2.2              |
| 5f          | 3.5                          | 0.9          | 20.2                        | 5.0          | 10.9           | 0.2              | 5.5                          | 24.3                        | 67.4           | 2.4              |
| 5g          | 3.6                          | 0.9          | 21.3                        | 5.3          | 11.4           | 0.2              | 5.5                          | 24.5                        | 67.8           | 2.5              |
| 5i          | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 4.5                          | 20.7                        | 54.0           | 2.1              |
| 5j          | 0.4                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.0                        | 44.0           | 2.0              |
| 5k          | 0.6                          | 0.1          | 2.7                         | 0.3          | 0.5            | 0.0              | 4.6                          | 21.7                        | 55.5           | 2.1              |
| 5l          | 0.7                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 4.9                          | 24.9                        | 59.6           | 2.1              |
| 5m          | 1.0                          | 0.1          | 4.6                         | 0.6          | 1.0            | 0.0              | 11.4                         | 95.3                        | 146.3          | 2.9              |
| 5p          | 1.0                          | 0.1          | 4.6                         | 0.5          | 1.0            | 0.0              | 7.8                          | 56.6                        | 99.4           | 2.5              |
| 5r          | 1.7                          | 0.3          | 9.4                         | 1.6          | 3.1            | 0.0              | 21.7                         | 211.1                       | 306.8          | 5.0              |
| 5t          | 1.9                          | 0.4          | 10.3                        | 2.2          | 4.4            | 0.1              | 8.7                          | 68.6                        | 115.7          | 2.6              |
| 5v          | 0.6                          | 0.1          | 3.1                         | 0.3          | 0.5            | 0.0              | 4.1                          | 17.4                        | 49.8           | 2.1              |
| 5x          | 0.6                          | 0.1          | 3.2                         | 0.3          | 0.5            | 0.0              | 4.1                          | 17.6                        | 50.1           | 2.1              |
| 5y          | 1.8                          | 0.5          | 10.7                        | 2.7          | 5.7            | 0.1              | 5.2                          | 21.4                        | 62.6           | 2.3              |
| 5z          | 1.8                          | 0.5          | 10.5                        | 2.7          | 5.7            | 0.1              | 5.1                          | 20.6                        | 61.7           | 2.3              |
| 5aa         | 1.8                          | 0.5          | 10.7                        | 2.7          | 5.8            | 0.1              | 5.2                          | 20.9                        | 62.1           | 2.3              |
| 5ab         | 1.7                          | 0.4          | 8.7                         | 2.4          | 5.0            | 0.1              | 4.9                          | 18.0                        | 57.3           | 2.2              |
| 5ad         | 1.8                          | 0.5          | 9.4                         | 2.5          | 5.3            | 0.1              | 4.8                          | 17.6                        | 56.6           | 2.2              |
| 5af         | 1.7                          | 0.4          | 8.9                         | 2.4          | 5.1            | 0.1              | 4.8                          | 17.7                        | 56.8           | 2.2              |
| 5ag         | 0.4                          | 0.0          | 2.0                         | 0.2          | 0.4            | 0.0              | 4.2                          | 18.2                        | 49.9           | 2.0              |
| 5ah         | 0.4                          | 0.0          | 1.9                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.7                        | 44.3           | 2.0              |
| 5ai         | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 4.0                          | 16.4                        | 48.3           | 2.0              |
| 5aj         | 0.7                          | 0.1          | 3.1                         | 0.3          | 0.6            | 0.0              | 5.6                          | 31.8                        | 67.8           | 2.2              |
| 5ak         | 0.7                          | 0.1          | 3.2                         | 0.4          | 0.6            | 0.0              | 5.6                          | 31.4                        | 68.1           | 2.2              |
| 5al         | 0.5                          | 0.0          | 1.9                         | 0.2          | 0.4            | 0.0              | 3.9                          | 15.8                        | 47.1           | 2.0              |
| 5am         | 1.3                          | 0.2          | 6.3                         | 0.9          | 1.7            | 0.0              | 23.8                         | 229.8                       | 334.9          | 5.4              |
| 3a          | 1.4                          | 0.2          | 7.7                         | 0.9          | 1.8            | 0.0              | 3.6                          | 16.4                        | 43.3           | 2.1              |
| 3b          | 1.4                          | 0.2          | 7.9                         | 0.9          | 1.8            | 0.0              | 3.5                          | 16.3                        | 43.1           | 2.1              |
| 3c          | 4.1                          | 0.5          | 24.2                        | 3.0          | 6.3            | 0.1              | 3.8                          | 15.1                        | 46.4           | 2.1              |
| 3d          | 1.3                          | 0.2          | 7.4                         | 0.9          | 1.7            | 0.0              | 3.6                          | 16.6                        | 43.2           | 2.1              |
| 3e          | 1.3                          | 0.2          | 7.4                         | 0.9          | 1.7            | 0.0              | 3.5                          | 16.6                        | 43.1           | 2.1              |
| 3f          | 1.2                          | 0.1          | 6.9                         | 0.8          | 1.5            | 0.0              | 3.5                          | 16.7                        | 42.7           | 2.1              |
| 3g          | 3.4                          | 0.5          | 20.0                        | 2.6          | 5.6            | 0.1              | 3.6                          | 15.0                        | 44.0           | 2.1              |
| 3i          | 1.6                          | 0.2          | 9.2                         | 1.0          | 1.9            | 0.0              | 3.3                          | 15.1                        | 39.6           | 2.0              |
| 3j          | 1.0                          | 0.1          | 5.4                         | 0.6          | 1.2            | 0.0              | 3.3                          | 20.3                        | 40.7           | 2.0              |
| 3k          | 3.3                          | 0.5          | 19.2                        | 2.6          | 5.7            | 0.1              | 3.6                          | 15.4                        | 43.6           | 2.1              |
| 3m          | 4.8                          | 1.0          | 28.8                        | 6.0          | 14.3           | 0.4              | 5.3                          | 24.6                        | 69.9           | 3.0              |
| 3n          | 2.1                          | 0.2          | 12.2                        | 1.4          | 2.9            | 0.0              | 3.4                          | 15.4                        | 40.3           | 2.0              |
| 3o          | 3.3                          | 0.7          | 19.9                        | 4.3          | 10.1           | 0.3              | 4.1                          | 18.3                        | 51.0           | 2.4              |
| 3p          | 3.2                          | 0.8          | 19.5                        | 4.8          | 11.2           | 0.4              | 4.3                          | 19.7                        | 54.3           | 2.6              |
| 3r          | 1.8                          | 0.4          | 10.6                        | 2.3          | 5.2            | 0.1              | 3.6                          | 16.6                        | 43.8           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID                    | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                                | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                                | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                                | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 3s                             | 2.1                          | 0.4       | 12.8                        | 2.6       | 5.9            | 0.2              | 3.7                          | 16.9                        | 45.2           | 2.2              |
| 3t                             | 3.3                          | 0.4       | 18.7                        | 2.6       | 5.5            | 0.1              | 3.6                          | 15.4                        | 43.4           | 2.1              |
| 3u                             | 3.1                          | 0.4       | 18.0                        | 2.4       | 5.2            | 0.1              | 3.6                          | 15.2                        | 43.0           | 2.1              |
| 3v                             | 8.1                          | 1.1       | 47.7                        | 6.7       | 15.6           | 0.3              | 4.8                          | 20.2                        | 61.5           | 2.5              |
| 274                            | 0.4                          | 0.1       | 1.7                         | 0.4       | 0.9            | 0.0              | 3.7                          | 15.7                        | 45.3           | 2.1              |
| 7_416                          | 0.4                          | 0.1       | 1.3                         | 0.3       | 0.6            | 0.0              | 3.6                          | 15.4                        | 43.8           | 2.1              |
| 7_463                          | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.2            | 0.0              | 3.5                          | 12.0                        | 41.8           | 2.0              |
| 7b                             | 0.3                          | 0.0       | 1.3                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.5                         | 40.9           | 2.0              |
| 7c                             | 0.3                          | 0.0       | 1.3                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.5                         | 41.0           | 2.0              |
| 7d                             | 0.5                          | 0.0       | 2.4                         | 0.2       | 0.3            | 0.0              | 3.6                          | 11.8                        | 43.9           | 2.1              |
| 7e                             | 0.6                          | 0.0       | 1.9                         | 0.1       | 0.3            | 0.0              | 3.6                          | 11.9                        | 43.5           | 2.1              |
| 7f                             | 0.4                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.7                        | 42.2           | 2.0              |
| 7h                             | 0.5                          | 0.1       | 1.7                         | 0.4       | 0.8            | 0.0              | 3.8                          | 15.8                        | 46.3           | 2.1              |
| 7i                             | 0.4                          | 0.1       | 1.5                         | 0.3       | 0.7            | 0.0              | 3.7                          | 15.5                        | 44.8           | 2.1              |
| 7j                             | 0.5                          | 0.1       | 1.8                         | 0.5       | 1.0            | 0.0              | 3.8                          | 15.8                        | 46.5           | 2.1              |
| 7k                             | 0.4                          | 0.1       | 2.3                         | 0.6       | 1.2            | 0.0              | 3.6                          | 14.9                        | 43.3           | 2.1              |
| 7l                             | 0.3                          | 0.0       | 1.3                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.5                         | 40.9           | 2.0              |
| 7m                             | 0.6                          | 0.1       | 2.0                         | 0.4       | 0.9            | 0.0              | 3.9                          | 15.9                        | 47.2           | 2.2              |
| 7n                             | 0.7                          | 0.1       | 3.8                         | 0.6       | 1.2            | 0.0              | 3.7                          | 18.6                        | 47.8           | 2.4              |
| 7o                             | 0.5                          | 0.1       | 2.9                         | 0.4       | 0.8            | 0.0              | 3.6                          | 17.7                        | 47.5           | 2.3              |
| 8b                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.3                          | 9.4                         | 39.8           | 2.0              |
| 8c                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.3                          | 9.4                         | 39.7           | 2.0              |
| 8e                             | 0.3                          | 0.0       | 1.5                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.8                         | 40.7           | 2.0              |
| 8f                             | 0.4                          | 0.0       | 1.7                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.4                         | 41.3           | 2.0              |
| 8h                             | 0.6                          | 0.0       | 1.8                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.6                        | 42.9           | 2.0              |
| 8i                             | 0.4                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.6                        | 41.9           | 2.0              |
| 8j                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.3                          | 9.4                         | 39.7           | 2.0              |
| 8k                             | 0.3                          | 0.0       | 1.5                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.8                         | 40.7           | 2.0              |
| 8l                             | 0.6                          | 0.0       | 1.7                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.5                        | 42.9           | 2.0              |
| 8m                             | 0.6                          | 0.0       | 1.8                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.6                        | 42.9           | 2.0              |
| 8n                             | 0.4                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.6                        | 41.9           | 2.0              |
| 8o                             | 0.3                          | 0.0       | 1.6                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.3                         | 40.7           | 2.0              |
| 8p                             | 0.3                          | 0.0       | 1.5                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.3                         | 40.7           | 2.0              |
| Mal1                           | 0.5                          | 0.1       | 2.7                         | 0.5       | 1.0            | 0.0              | 6.2                          | 16.8                        | 49.5           | 2.1              |
| Mal2                           | 0.5                          | 0.1       | 2.4                         | 0.4       | 0.8            | 0.0              | 4.3                          | 13.0                        | 42.9           | 2.0              |
| Mal3                           | 0.5                          | 0.1       | 2.7                         | 0.5       | 1.0            | 0.0              | 4.9                          | 14.4                        | 45.4           | 2.1              |
| Council/ State-owned receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 286e                           | 0.5                          | 0.1       | 2.7                         | 0.5       | 0.9            | 0.0              | 3.7                          | 11.5                        | 40.9           | 2.0              |
| 286f                           | 0.5                          | 0.1       | 2.6                         | 0.4       | 0.9            | 0.0              | 3.6                          | 11.1                        | 40.4           | 2.0              |
| UHSC1                          | 0.6                          | 0.0       | 3.0                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.2                        | 36.7           | 2.0              |
| N1                             | 0.7                          | 0.1       | 4.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| N2                             | 0.7                          | 0.1       | 4.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N3                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N4                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N5                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N6                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| N7                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| N8                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| N9                             | 0.8                          | 0.1       | 4.7                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |





| Receptor ID                        | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|------------------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                    | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                                    | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                                    | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                                    | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| N10                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.1                        | 39.1           | 2.1              |
| N11                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| N12                                | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| N13                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| N14                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N15                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.5           | 2.1              |
| N16                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N17                                | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| N18                                | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N19                                | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N20                                | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.8           | 2.1              |
| N21                                | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.2           | 2.1              |
| N22                                | 0.7                          | 0.1          | 4.1                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.9                        | 43.0           | 2.2              |
| N23                                | 0.7                          | 0.1          | 4.0                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.9                        | 43.1           | 2.2              |
| N24                                | 0.7                          | 0.1          | 4.0                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.9                        | 43.1           | 2.2              |
| N25                                | 0.6                          | 0.1          | 3.5                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.1                        | 43.4           | 2.2              |
| N26                                | 0.6                          | 0.1          | 3.5                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.3           | 2.2              |
| N27                                | 0.6                          | 0.1          | 3.4                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.3           | 2.2              |
| Aged care receptors                |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 658a                               | 2.5                          | 0.6          | 14.7                        | 3.3          | 7.1            | 0.2              | 4.0                          | 22.1                        | 48.4           | 2.3              |
| 658b                               | 2.5                          | 0.6          | 14.7                        | 3.1          | 6.8            | 0.2              | 4.0                          | 22.0                        | 48.0           | 2.3              |
| 658c                               | 2.4                          | 0.5          | 14.6                        | 3.1          | 6.8            | 0.2              | 4.0                          | 22.0                        | 48.0           | 2.3              |
| 658d                               | 2.4                          | 0.5          | 14.6                        | 3.1          | 6.8            | 0.2              | 4.0                          | 22.1                        | 48.1           | 2.3              |
| 658e                               | 2.5                          | 0.6          | 14.6                        | 3.2          | 6.8            | 0.2              | 4.0                          | 22.1                        | 48.1           | 2.3              |
| Prison receptors                   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| MP1                                | 0.6                          | 0.1          | 3.3                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.9                        | 43.8           | 2.2              |
| MP42                               | 0.6                          | 0.1          | 3.2                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.8                        | 44.3           | 2.2              |
| MP80                               | 0.5                          | 0.1          | 3.0                         | 0.4          | 0.8            | 0.0              | 3.5                          | 15.2                        | 44.8           | 2.2              |
| Commercial accommodation receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 622b                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622c                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622d                               | 2.5                          | 0.6          | 14.4                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.6                        | 48.8           | 2.3              |
| 622e                               | 2.4                          | 0.6          | 14.4                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.5                        | 48.8           | 2.3              |
| 622f                               | 2.4                          | 0.6          | 14.4                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.5                        | 48.8           | 2.3              |
| 622g                               | 2.4                          | 0.6          | 14.4                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.5                        | 48.8           | 2.3              |
| 622h                               | 2.5                          | 0.6          | 14.4                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622i                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622j                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622k                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 48.9           | 2.3              |
| 622l                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 49.0           | 2.3              |
| 622m                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 49.0           | 2.3              |
| 622n                               | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.6                        | 49.0           | 2.3              |
| 622o                               | 2.5                          | 0.6          | 14.3                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 49.0           | 2.3              |
| 622p                               | 2.5                          | 0.6          | 14.3                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 49.0           | 2.3              |
| 622q                               | 2.5                          | 0.6          | 14.3                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622r                               | 2.5                          | 0.6          | 14.2                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622s                               | 2.5                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622t                               | 2.5                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.8           | 2.3              |
| 622u                               | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.8                        | 49.2           | 2.3              |

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| Receptor ID          | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|----------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                      | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                      | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                      | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                      | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 622v                 | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.8                        | 49.2           | 2.3              |
| 622w                 | 2.4                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.6                        | 48.8           | 2.3              |
| 622x                 | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.8                        | 49.1           | 2.3              |
| 622y                 | 2.5                          | 0.6          | 14.2                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.8                        | 49.1           | 2.3              |
| 622z                 | 2.5                          | 0.6          | 14.2                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 49.0           | 2.3              |
| 622aa                | 2.5                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622ab                | 2.5                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.9           | 2.3              |
| 622ac                | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.8                        | 49.2           | 2.3              |
| 622ad                | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.7                        | 49.1           | 2.3              |
| 622ae                | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.7                        | 49.1           | 2.3              |
| 622af                | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.7                        | 49.1           | 2.3              |
| 622ag                | 2.5                          | 0.6          | 14.4                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.7                        | 49.1           | 2.3              |
| 975                  | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| Commercial receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 6                    | 3.2                          | 0.8          | 18.5                        | 4.7          | 10.2           | 0.2              | 5.3                          | 23.3                        | 65.6           | 2.4              |
| 195e                 | 1.4                          | 0.2          | 8.3                         | 1.2          | 2.4            | 0.1              | 3.5                          | 15.8                        | 41.7           | 2.1              |
| 140b-1               | 1.7                          | 0.3          | 9.5                         | 1.8          | 3.9            | 0.1              | 3.6                          | 18.7                        | 43.1           | 2.1              |
| 140b-2               | 1.7                          | 0.3          | 9.4                         | 1.8          | 3.9            | 0.1              | 3.6                          | 18.7                        | 43.2           | 2.1              |
| 140b-3               | 1.7                          | 0.3          | 9.4                         | 1.8          | 3.8            | 0.1              | 3.6                          | 18.7                        | 43.0           | 2.1              |
| 140b-4               | 1.7                          | 0.3          | 9.6                         | 1.8          | 3.9            | 0.1              | 3.6                          | 18.6                        | 43.1           | 2.1              |
| 202c                 | 2.3                          | 0.4          | 13.2                        | 2.2          | 4.8            | 0.2              | 3.6                          | 18.0                        | 43.6           | 2.1              |
| 202d                 | 2.4                          | 0.4          | 13.7                        | 2.3          | 4.9            | 0.2              | 3.6                          | 18.0                        | 43.8           | 2.1              |
| 202e                 | 2.4                          | 0.4          | 13.7                        | 2.3          | 4.9            | 0.2              | 3.6                          | 17.9                        | 43.7           | 2.1              |
| 202f                 | 2.3                          | 0.4          | 13.4                        | 2.2          | 4.8            | 0.2              | 3.6                          | 17.9                        | 43.6           | 2.1              |
| 202g                 | 2.3                          | 0.4          | 13.5                        | 2.2          | 4.8            | 0.2              | 3.6                          | 17.9                        | 43.6           | 2.1              |
| 472d                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.7                        | 43.8           | 2.0              |
| 472e                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.6                          | 12.6                        | 43.7           | 2.0              |
| 472f                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.0                        | 44.0           | 2.0              |
| 472g                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.1                        | 44.1           | 2.0              |
| 472h                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.0                        | 44.1           | 2.0              |
| 472i                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.9                        | 44.0           | 2.0              |
| 472j                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.7                        | 43.8           | 2.0              |
| 472k                 | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.6                          | 12.6                        | 43.7           | 2.0              |
| 472l                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.4                        | 44.4           | 2.0              |
| 472m                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.2                        | 44.2           | 2.0              |
| 489                  | 2.4                          | 0.5          | 13.4                        | 2.6          | 5.3            | 0.1              | 10.6                         | 93.4                        | 151.9          | 3.1              |
| 540                  | 2.7                          | 0.6          | 14.9                        | 3.5          | 7.5            | 0.2              | 4.2                          | 23.2                        | 50.4           | 2.3              |
| 546a                 | 2.9                          | 0.7          | 16.5                        | 3.9          | 8.5            | 0.2              | 4.3                          | 23.0                        | 51.9           | 2.3              |
| 546b                 | 2.9                          | 0.7          | 16.2                        | 3.8          | 8.3            | 0.2              | 4.3                          | 23.0                        | 51.7           | 2.3              |
| 546c                 | 2.9                          | 0.7          | 16.2                        | 3.8          | 8.3            | 0.2              | 4.3                          | 23.0                        | 51.6           | 2.3              |
| 617b                 | 2.5                          | 0.6          | 14.1                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.9                        | 49.2           | 2.3              |
| 617c                 | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.2            | 0.2              | 4.1                          | 22.9                        | 49.4           | 2.3              |
| 617d                 | 2.5                          | 0.6          | 14.3                        | 3.3          | 7.2            | 0.2              | 4.1                          | 22.9                        | 49.4           | 2.3              |
| 617e                 | 2.6                          | 0.6          | 14.3                        | 3.3          | 7.2            | 0.2              | 4.1                          | 22.9                        | 49.4           | 2.3              |
| 617f                 | 2.6                          | 0.6          | 14.3                        | 3.3          | 7.2            | 0.2              | 4.1                          | 22.9                        | 49.4           | 2.3              |
| 617g                 | 2.5                          | 0.6          | 14.0                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.9                        | 49.2           | 2.3              |
| 617h                 | 2.5                          | 0.6          | 14.1                        | 3.3          | 7.1            | 0.2              | 4.1                          | 22.9                        | 49.3           | 2.3              |
| 617i                 | 2.5                          | 0.6          | 14.2                        | 3.3          | 7.0            | 0.2              | 4.1                          | 22.9                        | 49.2           | 2.3              |
| 620                  | 2.4                          | 0.6          | 14.0                        | 3.1          | 6.8            | 0.2              | 4.1                          | 22.7                        | 48.8           | 2.3              |



| Receptor ID        | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                    | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                    | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                    | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                    | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 622ah              | 2.5                          | 0.6          | 14.3                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 49.0           | 2.3              |
| 622ai              | 2.5                          | 0.6          | 14.3                        | 3.2          | 7.0            | 0.2              | 4.1                          | 22.7                        | 49.0           | 2.3              |
| 611aj              | 2.5                          | 0.6          | 14.2                        | 3.2          | 6.9            | 0.2              | 4.1                          | 22.7                        | 48.8           | 2.3              |
| 622ak              | 2.4                          | 0.6          | 14.1                        | 3.2          | 6.8            | 0.2              | 4.1                          | 22.6                        | 48.8           | 2.3              |
| 625                | 2.4                          | 0.5          | 14.0                        | 3.1          | 6.7            | 0.2              | 4.1                          | 22.6                        | 48.6           | 2.3              |
| 629                | 2.4                          | 0.5          | 13.9                        | 3.1          | 6.6            | 0.2              | 4.1                          | 22.6                        | 48.5           | 2.3              |
| 626                | 2.4                          | 0.5          | 13.9                        | 3.1          | 6.7            | 0.2              | 4.1                          | 22.7                        | 48.7           | 2.3              |
| 627                | 2.4                          | 0.5          | 13.9                        | 3.1          | 6.7            | 0.2              | 4.1                          | 22.7                        | 48.6           | 2.3              |
| 628                | 2.4                          | 0.5          | 13.9                        | 3.1          | 6.6            | 0.2              | 4.1                          | 22.7                        | 48.6           | 2.3              |
| 630a               | 2.3                          | 0.5          | 13.7                        | 2.9          | 6.3            | 0.2              | 4.0                          | 22.4                        | 47.9           | 2.3              |
| 630b               | 2.4                          | 0.5          | 13.9                        | 3.0          | 6.6            | 0.2              | 4.1                          | 22.5                        | 48.4           | 2.3              |
| 630c               | 2.4                          | 0.5          | 13.9                        | 3.0          | 6.6            | 0.2              | 4.1                          | 22.6                        | 48.4           | 2.3              |
| 630d               | 2.4                          | 0.5          | 13.8                        | 3.0          | 6.4            | 0.2              | 4.0                          | 22.5                        | 48.2           | 2.3              |
| 656                | 2.4                          | 0.6          | 14.6                        | 3.2          | 6.9            | 0.2              | 4.0                          | 22.1                        | 48.3           | 2.3              |
| 674a               | 2.5                          | 0.6          | 15.0                        | 3.5          | 7.6            | 0.3              | 4.0                          | 22.0                        | 48.6           | 2.3              |
| 674b               | 2.5                          | 0.6          | 15.1                        | 3.5          | 7.7            | 0.3              | 4.1                          | 22.1                        | 48.7           | 2.3              |
| 818a               | 2.2                          | 0.5          | 12.6                        | 3.1          | 6.8            | 0.2              | 3.8                          | 20.4                        | 46.5           | 2.2              |
| 818b               | 2.2                          | 0.5          | 12.7                        | 3.1          | 6.8            | 0.2              | 3.8                          | 20.4                        | 46.5           | 2.2              |
| 844b               | 1.9                          | 0.4          | 11.0                        | 2.4          | 5.2            | 0.2              | 3.7                          | 19.1                        | 44.6           | 2.1              |
| 872b               | 1.6                          | 0.3          | 9.1                         | 1.7          | 3.5            | 0.1              | 3.5                          | 18.5                        | 42.6           | 2.1              |
| 1085               | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| 2ap                | 1.0                          | 0.1          | 4.4                         | 0.6          | 1.0            | 0.0              | 6.1                          | 39.6                        | 78.9           | 2.4              |
| 2aq                | 1.0                          | 0.1          | 4.3                         | 0.5          | 1.0            | 0.0              | 5.9                          | 37.5                        | 75.3           | 2.3              |
| 2ar                | 1.0                          | 0.1          | 4.3                         | 0.5          | 1.0            | 0.0              | 5.9                          | 37.4                        | 75.1           | 2.3              |
| 5h                 | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.5                        | 44.6           | 2.0              |
| 5w                 | 0.6                          | 0.1          | 3.1                         | 0.3          | 0.5            | 0.0              | 4.1                          | 17.1                        | 49.6           | 2.1              |
| 5an                | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.6                        | 44.7           | 2.0              |
| 5ao                | 0.4                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.5                        | 44.6           | 2.0              |
| 5ap                | 0.6                          | 0.1          | 3.1                         | 0.3          | 0.5            | 0.0              | 4.1                          | 17.2                        | 49.6           | 2.1              |
| 8q                 | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 9.3                         | 39.8           | 2.0              |
| Mal4               | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 16.7                         | 36.7                        | 77.6           | 2.4              |
| Mal5               | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 15.4                         | 35.0                        | 74.3           | 2.4              |
| Mal6               | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.9            | 0.0              | 16.4                         | 34.9                        | 76.7           | 2.4              |
| UHSC2              | 1.0                          | 0.1          | 5.1                         | 0.5          | 1.0            | 0.0              | 3.4                          | 18.8                        | 40.9           | 2.1              |
| UHSC3              | 1.0                          | 0.1          | 5.0                         | 0.5          | 1.0            | 0.0              | 3.4                          | 18.9                        | 40.9           | 2.1              |
| UHSC4              | 1.0                          | 0.1          | 5.1                         | 0.5          | 1.0            | 0.0              | 3.4                          | 18.9                        | 41.0           | 2.1              |
| N29                | 0.9                          | 0.1          | 5.0                         | 0.8          | 1.5            | 0.1              | 3.4                          | 15.8                        | 41.9           | 2.1              |
| School receptors   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| N30                | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.2              | 4.1                          | 22.2                        | 48.9           | 2.3              |
| N31                | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.2              | 4.1                          | 22.2                        | 48.7           | 2.3              |
| N32                | 2.5                          | 0.6          | 14.9                        | 3.4          | 7.4            | 0.3              | 4.1                          | 22.2                        | 48.7           | 2.3              |
| N33                | 2.5                          | 0.6          | 15.0                        | 3.4          | 7.5            | 0.3              | 4.1                          | 22.2                        | 48.8           | 2.3              |
| Church receptors   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 520                | 1.2                          | 0.2          | 6.6                         | 1.2          | 2.4            | 0.1              | 3.5                          | 17.1                        | 42.3           | 2.0              |
| 658b               | 2.5                          | 0.6          | 14.7                        | 3.1          | 6.8            | 0.2              | 4.0                          | 22.0                        | 48.0           | 2.3              |
| 658c               | 2.4                          | 0.5          | 14.6                        | 3.1          | 6.8            | 0.2              | 4.0                          | 22.0                        | 48.0           | 2.3              |
| 616c               | 2.5                          | 0.6          | 14.1                        | 3.3          | 7.0            | 0.2              | 4.1                          | 22.9                        | 49.3           | 2.3              |
| N34                | 0.6                          | 0.1          | 3.5                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.3           | 2.2              |
| Heritage receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | -                | 2                            | 8                           | 25             | 90               |
| H1          | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.4                          | 10.7                        | 40.6           | 1.9              |
| H2          | 2.5                          | 0.6          | 14.7                        | 3.2          | 6.9            | 0.2              | 4.0                          | 22.0                        | 48.1           | 2.3              |
| H3          | 4.9                          | 1.1          | 28.6                        | 6.8          | 14.9           | 0.3              | 5.6                          | 25.4                        | 69.4           | 2.5              |
| H4          | 5.1                          | 1.2          | 31.3                        | 7.4          | 15.8           | 0.3              | 6.3                          | 32.8                        | 81.7           | 2.8              |
| H5          | 5.1                          | 1.2          | 31.0                        | 7.3          | 15.6           | 0.3              | 6.3                          | 32.8                        | 81.6           | 2.8              |
| H6          | 5.0                          | 1.2          | 30.8                        | 7.3          | 15.5           | 0.3              | 6.4                          | 33.0                        | 81.9           | 2.8              |
| H7          | 5.2                          | 1.3          | 31.8                        | 7.5          | 16.0           | 0.3              | 6.4                          | 33.1                        | 82.2           | 2.8              |
| H8          | 5.2                          | 1.3          | 31.9                        | 7.6          | 16.1           | 0.3              | 6.4                          | 33.2                        | 82.4           | 2.8              |
| H9          | 5.4                          | 1.3          | 33.0                        | 7.8          | 16.6           | 0.3              | 6.4                          | 33.4                        | 82.8           | 2.8              |
| H10         | 9.7                          | 2.2          | 58.1                        | 13.1         | 29.1           | 0.5              | 6.5                          | 30.2                        | 82.3           | 2.8              |
| H11         | 2.2                          | 0.6          | 12.7                        | 3.3          | 7.1            | 0.1              | 5.1                          | 20.3                        | 61.0           | 2.3              |
| H12         | 1.9                          | 0.3          | 10.1                        | 1.9          | 3.7            | 0.1              | 14.6                         | 142.4                       | 202.0          | 3.4              |
| H13         | 1.9                          | 0.3          | 10.3                        | 1.9          | 3.8            | 0.1              | 14.0                         | 133.2                       | 193.1          | 3.3              |
| H14         | 1.9                          | 0.3          | 10.3                        | 1.9          | 3.9            | 0.1              | 13.7                         | 129.4                       | 189.2          | 3.2              |
| H15         | 1.9                          | 0.4          | 10.2                        | 1.9          | 3.9            | 0.1              | 13.3                         | 126.1                       | 184.0          | 3.2              |
| H16         | 1.9                          | 0.4          | 10.2                        | 1.9          | 3.9            | 0.1              | 13.2                         | 125.4                       | 181.9          | 3.2              |
| H17         | 1.9                          | 0.3          | 10.1                        | 1.9          | 3.9            | 0.1              | 13.1                         | 125.1                       | 180.2          | 3.1              |
| H18         | 1.9                          | 0.4          | 10.1                        | 1.9          | 3.9            | 0.1              | 12.9                         | 122.3                       | 176.4          | 3.1              |
| H19         | 0.6                          | 0.1          | 3.6                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.2           | 2.2              |

Table D-2: Modelling predictions for Scenario 2

| Receptor ID               | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|---------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                           | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                           | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                           | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                           | 25                           | -            | 50                          | -            | -              | -                | 2                            | 8                           | 25             | 90               |
| Privately-owned receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 4                         | 2.0                          | 0.5          | 10.7                        | 2.7          | 5.5            | 0.1              | 5.0                          | 19.1                        | 59.6           | 2.3              |
| 19                        | 3.5                          | 0.9          | 19.0                        | 4.8          | 10.4           | 0.2              | 5.0                          | 21.3                        | 59.7           | 2.4              |
| 20                        | 3.9                          | 1.0          | 21.3                        | 5.3          | 11.5           | 0.2              | 5.1                          | 22.0                        | 61.8           | 2.4              |
| 21                        | 3.9                          | 1.0          | 21.8                        | 5.4          | 11.7           | 0.2              | 5.2                          | 22.1                        | 62.3           | 2.4              |
| 43                        | 2.3                          | 0.3          | 8.1                         | 1.2          | 2.4            | 0.0              | 6.7                          | <b>41.4</b>                 | <b>91.3</b>    | 3.5              |
| 43b                       | 1.4                          | 0.2          | 4.5                         | 0.6          | 1.2            | 0.0              | 4.5                          | 19.2                        | 55.9           | 2.6              |
| 47                        | 2.4                          | 0.2          | 6.8                         | 0.8          | 1.6            | 0.0              | 4.8                          | 22.4                        | 61.3           | 2.8              |
| 67                        | 4.0                          | 1.0          | 23.6                        | 5.6          | 12.0           | 0.3              | 4.4                          | 22.1                        | 52.9           | 2.3              |
| 77                        | 3.2                          | 0.8          | 19.1                        | 4.5          | 9.5            | 0.3              | 4.2                          | 22.0                        | 49.8           | 2.2              |
| 79                        | 2.9                          | 0.7          | 16.9                        | 3.9          | 8.3            | 0.2              | 4.1                          | 21.8                        | 48.4           | 2.2              |
| 82                        | 2.4                          | 0.6          | 14.0                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.1                        | 46.6           | 2.2              |
| 83                        | 2.4                          | 0.6          | 14.0                        | 3.2          | 6.7            | 0.2              | 3.9                          | 21.1                        | 46.7           | 2.2              |
| 84a                       | 2.6                          | 0.6          | 15.2                        | 3.5          | 7.3            | 0.2              | 4.0                          | 21.4                        | 47.3           | 2.2              |
| 84b                       | 0.7                          | 0.2          | 3.7                         | 0.8          | 1.7            | 0.1              | 3.4                          | 12.8                        | 41.7           | 2.1              |
| 86a                       | 3.3                          | 0.8          | 18.5                        | 4.6          | 9.7            | 0.3              | 4.2                          | 21.6                        | 49.7           | 2.2              |
| 86b                       | 2.2                          | 0.3          | 12.4                        | 1.7          | 3.4            | 0.1              | 3.5                          | 16.7                        | 42.2           | 2.1              |
| 102                       | 5.0                          | 1.2          | 28.2                        | 6.6          | 14.3           | 0.4              | 4.5                          | 20.3                        | 54.0           | 2.3              |
| 108                       | 5.5                          | 1.3          | 30.9                        | 7.0          | 15.3           | 0.4              | 4.6                          | 20.5                        | 55.1           | 2.4              |
| 112                       | 6.1                          | 1.4          | 34.7                        | 7.7          | 16.8           | 0.5              | 4.7                          | 21.0                        | 56.6           | 2.4              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 136         | 4.2                          | 0.7          | 23.4                        | 3.7          | 7.6            | 0.3              | 3.9                          | 15.3                        | 46.7           | 2.2              |
| 140a        | 2.5                          | 0.3          | 13.5                        | 1.9          | 3.7            | 0.1              | 3.6                          | 14.5                        | 42.8           | 2.1              |
| 140c        | 3.2                          | 0.5          | 17.4                        | 2.6          | 5.3            | 0.2              | 3.7                          | 17.3                        | 44.1           | 2.1              |
| 143a        | 2.6                          | 0.4          | 14.8                        | 1.9          | 3.7            | 0.1              | 3.6                          | 12.6                        | 43.1           | 2.1              |
| 143b        | 4.3                          | 0.5          | 22.9                        | 2.9          | 5.7            | 0.1              | 3.8                          | 13.5                        | 45.9           | 2.1              |
| 147         | 4.3                          | 0.6          | 22.9                        | 3.0          | 6.0            | 0.1              | 3.9                          | 12.9                        | 46.4           | 2.1              |
| 153a        | 3.6                          | 0.9          | 20.6                        | 5.4          | 11.8           | 0.6              | 4.1                          | 12.4                        | 50.0           | 2.6              |
| 154         | 7.9                          | 1.0          | 44.5                        | 5.4          | 11.8           | 0.2              | 4.7                          | 18.9                        | 59.6           | 2.5              |
| 156a        | 6.1                          | 0.7          | 33.3                        | 4.1          | 8.5            | 0.1              | 4.2                          | 15.1                        | 51.2           | 2.2              |
| 156b        | 0.8                          | 0.1          | 2.9                         | 0.2          | 0.4            | 0.0              | 3.9                          | 13.9                        | 47.1           | 2.1              |
| 157a        | 5.1                          | 0.7          | 27.6                        | 3.6          | 7.4            | 0.1              | 4.0                          | 14.3                        | 48.6           | 2.2              |
| 157b        | 0.7                          | 0.1          | 2.5                         | 0.2          | 0.4            | 0.0              | 3.8                          | 13.3                        | 45.9           | 2.1              |
| 159         | 4.5                          | 0.6          | 23.8                        | 3.1          | 6.2            | 0.1              | 3.9                          | 13.6                        | 46.9           | 2.1              |
| 169         | 3.5                          | 0.4          | 19.5                        | 2.2          | 4.5            | 0.1              | 3.5                          | 14.0                        | 42.1           | 2.0              |
| 171         | 3.0                          | 0.3          | 16.7                        | 1.7          | 3.3            | 0.1              | 3.4                          | 14.3                        | 40.8           | 2.0              |
| 172         | 2.7                          | 0.3          | 14.6                        | 1.4          | 2.7            | 0.0              | 3.4                          | 14.6                        | 40.0           | 2.0              |
| 172b        | 2.6                          | 0.2          | 14.3                        | 1.3          | 2.6            | 0.0              | 3.3                          | 14.6                        | 39.9           | 2.0              |
| 172c        | 2.0                          | 0.2          | 11.2                        | 1.0          | 1.8            | 0.0              | 3.3                          | 15.2                        | 39.0           | 2.0              |
| 310         | 2.6                          | 0.3          | 14.4                        | 1.4          | 2.7            | 0.0              | 3.4                          | 14.6                        | 40.0           | 2.0              |
| 173         | 2.1                          | 0.2          | 11.6                        | 1.3          | 2.6            | 0.0              | 3.3                          | 14.8                        | 39.9           | 2.0              |
| 174         | 2.2                          | 0.2          | 12.2                        | 1.3          | 2.7            | 0.0              | 3.3                          | 14.8                        | 39.9           | 2.0              |
| 175         | 2.3                          | 0.3          | 12.5                        | 1.4          | 2.7            | 0.0              | 3.4                          | 14.8                        | 40.0           | 2.0              |
| 175b        | 2.3                          | 0.3          | 12.5                        | 1.4          | 2.7            | 0.0              | 3.4                          | 14.8                        | 40.0           | 2.0              |
| 175c        | 2.3                          | 0.2          | 12.7                        | 1.3          | 2.7            | 0.0              | 3.3                          | 14.8                        | 40.0           | 2.0              |
| 176         | 2.4                          | 0.3          | 13.3                        | 1.4          | 2.7            | 0.0              | 3.4                          | 14.8                        | 40.0           | 2.0              |
| 177         | 1.8                          | 0.2          | 9.7                         | 1.3          | 2.5            | 0.0              | 3.3                          | 15.0                        | 39.8           | 2.0              |
| 178         | 1.7                          | 0.2          | 9.3                         | 0.8          | 1.5            | 0.0              | 3.2                          | 15.5                        | 38.7           | 2.0              |
| 179         | 1.7                          | 0.2          | 9.2                         | 0.9          | 1.7            | 0.0              | 3.3                          | 15.3                        | 38.7           | 2.0              |
| 180         | 1.6                          | 0.2          | 8.8                         | 0.8          | 1.6            | 0.0              | 3.2                          | 15.5                        | 38.6           | 2.0              |
| 180b        | 1.5                          | 0.1          | 8.4                         | 0.7          | 1.3            | 0.0              | 3.2                          | 15.9                        | 38.6           | 2.0              |
| 180c        | 1.1                          | 0.1          | 5.9                         | 0.6          | 1.0            | 0.0              | 3.2                          | 16.0                        | 38.1           | 2.0              |
| 181         | 1.0                          | 0.1          | 5.5                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.3                        | 40.6           | 2.1              |
| 181c        | 1.4                          | 0.1          | 7.6                         | 0.7          | 1.3            | 0.0              | 3.3                          | 16.1                        | 39.0           | 2.0              |
| 182         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.5                        | 42.4           | 2.2              |
| 189         | 1.5                          | 0.2          | 8.3                         | 1.0          | 1.8            | 0.0              | 3.5                          | 15.0                        | 42.0           | 2.0              |
| 190         | 1.6                          | 0.2          | 8.9                         | 1.0          | 1.9            | 0.0              | 3.5                          | 14.6                        | 41.5           | 2.0              |
| 191         | 1.4                          | 0.2          | 7.4                         | 0.9          | 1.7            | 0.0              | 3.5                          | 15.2                        | 42.3           | 2.1              |
| 192         | 1.5                          | 0.2          | 7.9                         | 1.0          | 1.8            | 0.0              | 3.5                          | 14.8                        | 41.9           | 2.0              |
| 193         | 1.3                          | 0.2          | 7.3                         | 0.9          | 1.7            | 0.0              | 3.5                          | 15.2                        | 42.0           | 2.1              |
| 193c        | 1.0                          | 0.1          | 6.3                         | 0.7          | 1.4            | 0.0              | 3.4                          | 15.6                        | 41.7           | 2.1              |
| 194         | 1.4                          | 0.2          | 8.2                         | 1.0          | 1.9            | 0.1              | 3.4                          | 15.3                        | 41.6           | 2.0              |
| 195         | 1.4                          | 0.2          | 7.9                         | 1.1          | 2.1            | 0.1              | 3.4                          | 15.5                        | 41.5           | 2.0              |
| 196         | 1.7                          | 0.2          | 9.6                         | 1.3          | 2.5            | 0.1              | 3.5                          | 16.2                        | 41.5           | 2.1              |
| 204         | 1.8                          | 0.3          | 10.2                        | 1.4          | 2.7            | 0.1              | 3.5                          | 16.3                        | 41.6           | 2.1              |
| 198         | 2.1                          | 0.3          | 11.6                        | 1.6          | 3.2            | 0.1              | 3.5                          | 16.8                        | 42.0           | 2.1              |
| 198b        | 2.1                          | 0.3          | 11.9                        | 1.6          | 3.3            | 0.1              | 3.5                          | 16.8                        | 42.1           | 2.1              |
| 199         | 2.0                          | 0.3          | 11.1                        | 1.5          | 3.1            | 0.1              | 3.5                          | 16.8                        | 41.8           | 2.1              |
| 200         | 1.8                          | 0.3          | 10.2                        | 1.4          | 2.8            | 0.1              | 3.5                          | 16.8                        | 41.6           | 2.1              |
| 202         | 2.7                          | 0.4          | 14.6                        | 2.2          | 4.6            | 0.2              | 3.6                          | 17.6                        | 43.4           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx





| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 202b        | 2.1                          | 0.3          | 11.6                        | 1.8          | 3.7            | 0.1              | 3.6                          | 17.8                        | 42.6           | 2.1              |
| 203         | 2.8                          | 0.4          | 15.5                        | 2.3          | 4.8            | 0.2              | 3.6                          | 17.6                        | 43.7           | 2.1              |
| 203b        | 2.8                          | 0.4          | 15.1                        | 2.3          | 4.8            | 0.2              | 3.6                          | 17.6                        | 43.6           | 2.1              |
| 203c        | 2.8                          | 0.4          | 15.5                        | 2.3          | 4.8            | 0.2              | 3.6                          | 17.6                        | 43.6           | 2.1              |
| 206         | 3.1                          | 0.7          | 16.7                        | 4.1          | 8.6            | 0.2              | 4.6                          | 21.7                        | 54.5           | 2.3              |
| 207         | 3.3                          | 0.8          | 17.9                        | 4.5          | 9.6            | 0.2              | 4.8                          | 21.3                        | 57.4           | 2.3              |
| 212         | 2.6                          | 0.7          | 15.2                        | 3.6          | 7.7            | 0.1              | 4.8                          | 20.1                        | 56.4           | 2.3              |
| 212b        | 2.6                          | 0.7          | 15.3                        | 3.6          | 7.7            | 0.1              | 4.8                          | 20.0                        | 56.6           | 2.3              |
| 213         | 3.1                          | 0.8          | 17.2                        | 4.4          | 9.4            | 0.2              | 5.0                          | 20.7                        | 59.3           | 2.3              |
| 214         | 3.1                          | 0.8          | 17.2                        | 4.4          | 9.4            | 0.2              | 5.0                          | 20.8                        | 59.2           | 2.3              |
| 215         | 3.2                          | 0.8          | 17.4                        | 4.5          | 9.5            | 0.2              | 5.0                          | 20.8                        | 59.2           | 2.3              |
| 216         | 3.2                          | 0.8          | 17.5                        | 4.5          | 9.6            | 0.2              | 4.9                          | 20.9                        | 59.1           | 2.3              |
| 216b        | 3.1                          | 0.8          | 17.4                        | 4.4          | 9.5            | 0.2              | 4.9                          | 20.8                        | 58.9           | 2.3              |
| 217         | 3.2                          | 0.8          | 17.7                        | 4.5          | 9.7            | 0.2              | 4.9                          | 20.9                        | 59.1           | 2.3              |
| 218         | 3.2                          | 0.8          | 17.4                        | 4.5          | 9.6            | 0.2              | 5.0                          | 20.9                        | 59.6           | 2.4              |
| 219         | 3.2                          | 0.8          | 17.6                        | 4.5          | 9.7            | 0.2              | 5.0                          | 20.9                        | 59.6           | 2.4              |
| 220         | 3.2                          | 0.8          | 17.8                        | 4.6          | 9.8            | 0.2              | 5.0                          | 21.0                        | 59.5           | 2.4              |
| 221         | 3.3                          | 0.8          | 18.1                        | 4.6          | 9.9            | 0.2              | 5.0                          | 21.1                        | 59.4           | 2.4              |
| 222         | 3.3                          | 0.8          | 18.3                        | 4.7          | 10.0           | 0.2              | 5.0                          | 21.1                        | 59.4           | 2.4              |
| 223         | 3.4                          | 0.9          | 18.5                        | 4.7          | 10.1           | 0.2              | 5.0                          | 21.2                        | 59.6           | 2.4              |
| 223b        | 3.4                          | 0.8          | 18.5                        | 4.7          | 10.1           | 0.2              | 5.0                          | 21.2                        | 59.7           | 2.4              |
| 224         | 3.4                          | 0.9          | 18.8                        | 4.8          | 10.3           | 0.2              | 5.0                          | 21.3                        | 59.9           | 2.4              |
| 225         | 3.3                          | 0.8          | 17.8                        | 4.6          | 9.8            | 0.2              | 4.9                          | 21.0                        | 59.0           | 2.3              |
| 249         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.5                          | 22.5                        | 54.2           | 2.1              |
| 252         | 0.6                          | 0.1          | 3.0                         | 0.2          | 0.4            | 0.0              | 3.9                          | 14.5                        | 46.8           | 2.1              |
| 258a        | 1.1                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 4.5                          | 20.7                        | 55.7           | 2.2              |
| 258c        | 1.1                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 4.5                          | 20.5                        | 55.5           | 2.2              |
| 259         | 1.0                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 4.5                          | 20.4                        | 54.8           | 2.2              |
| 259b        | 1.0                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 4.4                          | 19.6                        | 53.9           | 2.2              |
| 260         | 0.9                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 4.5                          | 21.4                        | 55.7           | 2.2              |
| 260a        | 0.9                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 4.5                          | 21.2                        | 55.5           | 2.2              |
| 260b        | 0.9                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 4.5                          | 21.1                        | 55.4           | 2.2              |
| 261         | 0.7                          | 0.1          | 4.2                         | 0.3          | 0.6            | 0.0              | 4.4                          | 19.8                        | 53.1           | 2.2              |
| 261b        | 0.7                          | 0.1          | 4.1                         | 0.3          | 0.6            | 0.0              | 4.4                          | 19.9                        | 53.1           | 2.2              |
| 271         | 1.0                          | 0.1          | 2.8                         | 0.5          | 1.1            | 0.0              | 3.8                          | 15.3                        | 46.4           | 2.1              |
| 272b        | 1.5                          | 0.3          | 3.9                         | 1.1          | 2.3            | 0.1              | 4.1                          | 15.8                        | 49.9           | 2.3              |
| 272         | 1.6                          | 0.3          | 4.1                         | 1.1          | 2.4            | 0.1              | 4.1                          | 15.9                        | 50.1           | 2.3              |
| 273         | 0.8                          | 0.1          | 2.4                         | 0.6          | 1.3            | 0.1              | 3.8                          | 15.1                        | 45.7           | 2.1              |
| 273b        | 0.9                          | 0.1          | 2.6                         | 0.6          | 1.3            | 0.1              | 3.8                          | 15.2                        | 46.3           | 2.1              |
| 288         | 2.8                          | 0.6          | 15.0                        | 3.4          | 7.2            | 0.2              | 4.3                          | 22.9                        | 50.2           | 2.3              |
| 288b        | 2.8                          | 0.6          | 15.0                        | 3.4          | 7.1            | 0.2              | 4.3                          | 22.9                        | 50.2           | 2.3              |
| 289         | 3.4                          | 0.8          | 19.8                        | 4.2          | 8.9            | 0.2              | 4.2                          | 22.2                        | 50.2           | 2.3              |
| 292         | 0.5                          | 0.1          | 2.0                         | 0.2          | 0.4            | 0.0              | 4.1                          | 18.0                        | 49.6           | 2.0              |
| 292b        | 0.5                          | 0.1          | 1.9                         | 0.2          | 0.4            | 0.0              | 4.1                          | 17.0                        | 48.6           | 2.0              |
| 302a        | 0.5                          | 0.1          | 2.2                         | 0.2          | 0.4            | 0.0              | 4.1                          | 17.2                        | 49.2           | 2.0              |
| 302c        | 0.5                          | 0.0          | 2.0                         | 0.2          | 0.4            | 0.0              | 4.1                          | 16.6                        | 48.6           | 2.0              |
| 401         | 0.5                          | 0.1          | 3.2                         | 0.7          | 1.3            | 0.1              | 3.5                          | 13.9                        | 41.8           | 2.0              |
| 402         | 0.6                          | 0.1          | 3.4                         | 0.7          | 1.4            | 0.1              | 3.4                          | 13.6                        | 41.0           | 2.0              |
| 404         | 0.6                          | 0.1          | 3.5                         | 0.8          | 1.5            | 0.1              | 3.5                          | 13.3                        | 41.8           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 405         | 0.9                          | 0.2          | 5.3                         | 1.0          | 1.9            | 0.1              | 3.3                          | 13.0                        | 39.6           | 2.0              |
| 406         | 0.8                          | 0.2          | 4.2                         | 0.9          | 1.7            | 0.1              | 3.3                          | 13.0                        | 40.2           | 2.0              |
| 407         | 0.8                          | 0.2          | 4.3                         | 0.9          | 1.9            | 0.1              | 3.4                          | 12.4                        | 41.4           | 2.1              |
| 408         | 0.6                          | 0.0          | 3.1                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 1.9              |
| 409         | 1.1                          | 0.2          | 6.0                         | 1.4          | 2.8            | 0.2              | 3.4                          | 12.9                        | 40.4           | 2.1              |
| 410a        | 0.6                          | 0.0          | 3.1                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 1.9              |
| 410b        | 0.6                          | 0.0          | 3.1                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 1.9              |
| 411a        | 1.5                          | 0.2          | 8.3                         | 1.3          | 2.7            | 0.1              | 3.4                          | 13.4                        | 40.2           | 2.1              |
| 411b        | 1.5                          | 0.2          | 8.6                         | 1.4          | 2.7            | 0.1              | 3.4                          | 13.4                        | 40.2           | 2.1              |
| 411c        | 1.6                          | 0.2          | 9.2                         | 1.4          | 2.7            | 0.1              | 3.4                          | 13.6                        | 40.1           | 2.1              |
| 412         | 0.6                          | 0.0          | 3.1                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.6           | 2.0              |
| 413b        | 0.4                          | 0.1          | 2.3                         | 0.5          | 1.1            | 0.0              | 3.5                          | 14.8                        | 42.8           | 2.1              |
| 414a        | 0.6                          | 0.0          | 3.2                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.5           | 2.0              |
| 415         | 0.5                          | 0.1          | 2.2                         | 0.5          | 1.1            | 0.0              | 3.6                          | 15.0                        | 43.8           | 2.1              |
| 417         | 0.7                          | 0.1          | 2.0                         | 0.5          | 1.0            | 0.0              | 3.7                          | 15.1                        | 44.4           | 2.1              |
| 418         | 0.7                          | 0.1          | 1.9                         | 0.4          | 0.8            | 0.0              | 3.6                          | 15.1                        | 44.0           | 2.1              |
| 418b        | 0.7                          | 0.1          | 2.0                         | 0.4          | 0.8            | 0.0              | 3.7                          | 15.1                        | 44.2           | 2.1              |
| 419         | 0.5                          | 0.1          | 2.3                         | 0.6          | 1.2            | 0.0              | 3.6                          | 14.8                        | 43.5           | 2.1              |
| 421         | 0.9                          | 0.2          | 2.4                         | 0.7          | 1.4            | 0.1              | 3.7                          | 14.8                        | 45.0           | 2.1              |
| 422a        | 1.9                          | 0.4          | 10.6                        | 2.3          | 5.2            | 0.1              | 3.6                          | 15.9                        | 43.8           | 2.1              |
| 422c        | 0.8                          | 0.2          | 4.9                         | 0.9          | 1.8            | 0.1              | 3.3                          | 13.2                        | 39.4           | 2.0              |
| 428         | 1.8                          | 0.4          | 10.0                        | 2.1          | 4.7            | 0.1              | 3.5                          | 15.8                        | 43.0           | 2.1              |
| 429a        | 1.5                          | 0.3          | 8.3                         | 1.5          | 3.3            | 0.1              | 3.4                          | 15.5                        | 40.9           | 2.0              |
| 429b        | 1.4                          | 0.2          | 7.9                         | 1.4          | 2.9            | 0.1              | 3.4                          | 15.5                        | 40.4           | 2.0              |
| 430         | 1.4                          | 0.3          | 8.0                         | 1.4          | 3.1            | 0.1              | 3.4                          | 15.5                        | 40.6           | 2.0              |
| 431a        | 0.8                          | 0.1          | 3.2                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.3                        | 37.5           | 2.0              |
| 431b        | 0.9                          | 0.1          | 3.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 15.9                        | 37.6           | 2.0              |
| 432         | 1.0                          | 0.1          | 4.6                         | 0.5          | 0.8            | 0.0              | 3.2                          | 16.0                        | 37.8           | 2.0              |
| 433         | 1.1                          | 0.1          | 5.4                         | 0.5          | 1.0            | 0.0              | 3.2                          | 15.9                        | 38.0           | 2.0              |
| 434         | 1.1                          | 0.1          | 5.4                         | 0.5          | 0.9            | 0.0              | 3.2                          | 16.2                        | 38.1           | 2.0              |
| 434b        | 0.9                          | 0.1          | 4.2                         | 0.4          | 0.8            | 0.0              | 3.2                          | 16.0                        | 37.7           | 2.0              |
| 436         | 1.0                          | 0.1          | 5.0                         | 0.5          | 0.8            | 0.0              | 3.2                          | 16.7                        | 38.3           | 2.0              |
| 437         | 1.1                          | 0.1          | 5.3                         | 0.5          | 0.9            | 0.0              | 3.2                          | 16.4                        | 38.2           | 2.0              |
| 438         | 0.4                          | 0.0          | 1.9                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.9                        | 35.8           | 1.9              |
| 440a        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.7           | 1.9              |
| 440b        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.6           | 1.9              |
| 440c        | 0.3                          | 0.0          | 1.8                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.5                        | 35.6           | 1.9              |
| 440d        | 0.3                          | 0.0          | 1.6                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 440e        | 0.3                          | 0.0          | 1.6                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 440f        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.6           | 1.9              |
| 440g        | 0.3                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 441         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.7           | 2.1              |
| 442         | 0.3                          | 0.0          | 1.8                         | 0.1          | 0.3            | 0.0              | 3.0                          | 15.0                        | 36.0           | 1.9              |
| 443         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.0           | 2.1              |
| 451         | 0.7                          | 0.1          | 4.6                         | 0.5          | 0.9            | 0.0              | 3.3                          | 15.5                        | 40.9           | 2.1              |
| 452         | 1.1                          | 0.2          | 5.9                         | 0.9          | 1.7            | 0.1              | 3.4                          | 15.9                        | 41.8           | 2.1              |
| 453a        | 0.8                          | 0.1          | 2.2                         | 0.4          | 0.8            | 0.0              | 3.7                          | 15.1                        | 45.1           | 2.1              |
| 453b        | 0.8                          | 0.1          | 2.2                         | 0.4          | 0.8            | 0.0              | 3.7                          | 15.1                        | 45.0           | 2.1              |
| 454         | 0.6                          | 0.1          | 1.7                         | 0.3          | 0.6            | 0.0              | 3.7                          | 14.8                        | 44.3           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 455         | 0.3                          | 0.0          | 1.2                         | 0.2          | 0.3            | 0.0              | 3.5                          | 14.3                        | 42.1           | 2.0              |
| 456         | 0.3                          | 0.0          | 1.2                         | 0.2          | 0.3            | 0.0              | 3.5                          | 14.3                        | 42.4           | 2.0              |
| 456b        | 0.3                          | 0.0          | 1.2                         | 0.2          | 0.3            | 0.0              | 3.5                          | 14.3                        | 42.4           | 2.0              |
| 458         | 0.5                          | 0.1          | 1.6                         | 0.3          | 0.5            | 0.0              | 3.7                          | 14.4                        | 44.9           | 2.1              |
| 460         | 0.2                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.1                        | 41.3           | 2.0              |
| 460b        | 0.2                          | 0.0          | 0.8                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.2                        | 41.2           | 2.0              |
| 461         | 0.3                          | 0.0          | 0.8                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.0                        | 41.3           | 2.0              |
| 462a        | 0.4                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.5                          | 12.0                        | 41.7           | 2.0              |
| 462b        | 0.4                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.5                          | 12.0                        | 41.7           | 2.0              |
| 462c        | 0.4                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.5                          | 12.0                        | 41.7           | 2.0              |
| 464         | 0.8                          | 0.1          | 2.6                         | 0.2          | 0.4            | 0.0              | 3.8                          | 13.5                        | 46.1           | 2.1              |
| 464b        | 0.8                          | 0.1          | 2.7                         | 0.2          | 0.4            | 0.0              | 3.8                          | 13.5                        | 46.3           | 2.1              |
| 465         | 0.7                          | 0.0          | 2.3                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.4                        | 44.4           | 2.1              |
| 466         | 0.6                          | 0.1          | 2.2                         | 0.2          | 0.4            | 0.0              | 3.8                          | 13.4                        | 46.1           | 2.2              |
| 467         | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 4.1                          | 16.0                        | 50.4           | 2.3              |
| 467b        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 4.1                          | 15.9                        | 50.3           | 2.3              |
| 468a        | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 11.4                        | 42.7           | 2.0              |
| 468b        | 0.4                          | 0.0          | 1.4                         | 0.1          | 0.2            | 0.0              | 3.5                          | 10.9                        | 42.2           | 2.0              |
| 468c        | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 11.7                        | 42.9           | 2.0              |
| 468d        | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 11.4                        | 42.7           | 2.0              |
| 470         | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.8                          | 13.8                        | 45.0           | 2.0              |
| 471         | 0.5                          | 0.0          | 1.9                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.2                        | 44.5           | 2.0              |
| 472a        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.6                        | 44.8           | 2.0              |
| 472b        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.8                          | 13.9                        | 45.0           | 2.0              |
| 472c        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.8                        | 43.9           | 2.0              |
| 474         | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 12.4                        | 43.5           | 2.0              |
| 475         | 0.5                          | 0.1          | 2.1                         | 0.2          | 0.4            | 0.0              | 4.1                          | 17.4                        | 49.6           | 2.0              |
| 475b        | 0.5                          | 0.1          | 2.1                         | 0.2          | 0.4            | 0.0              | 4.1                          | 17.5                        | 49.7           | 2.0              |
| 476         | 0.4                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.6                          | 12.5                        | 43.2           | 2.0              |
| 477a        | 0.5                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.0                        | 45.1           | 2.0              |
| 477b        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.0                        | 45.0           | 2.0              |
| 481         | 0.4                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.2                        | 41.1           | 2.0              |
| 483         | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.4                          | 10.4                        | 40.2           | 1.9              |
| 484         | 0.4                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.3                        | 41.1           | 2.0              |
| 485a        | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.3           | 1.9              |
| 485b        | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.4           | 1.9              |
| 485c        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.3           | 1.9              |
| 485d        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.3           | 1.9              |
| 485e        | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.3           | 1.9              |
| 485f        | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.9                        | 39.4           | 1.9              |
| 490         | 1.4                          | 0.2          | 7.9                         | 1.3          | 2.6            | 0.1              | 3.3                          | 14.0                        | 39.9           | 2.1              |
| 492         | 1.0                          | 0.2          | 5.9                         | 1.3          | 2.7            | 0.1              | 3.3                          | 14.3                        | 39.9           | 2.0              |
| 494         | 1.4                          | 0.3          | 8.4                         | 1.5          | 3.1            | 0.1              | 3.4                          | 15.1                        | 40.4           | 2.0              |
| 495a        | 1.2                          | 0.2          | 6.9                         | 1.3          | 2.8            | 0.1              | 3.3                          | 15.5                        | 40.1           | 2.0              |
| 495b        | 1.3                          | 0.3          | 7.4                         | 1.4          | 3.1            | 0.1              | 3.4                          | 15.5                        | 40.4           | 2.0              |
| 496a        | 1.3                          | 0.3          | 7.5                         | 1.4          | 3.0            | 0.1              | 3.4                          | 15.4                        | 40.3           | 2.0              |
| 496b        | 1.3                          | 0.2          | 7.1                         | 1.3          | 2.9            | 0.1              | 3.3                          | 15.4                        | 40.1           | 2.0              |
| 496c        | 1.3                          | 0.2          | 7.1                         | 1.3          | 2.9            | 0.1              | 3.3                          | 15.4                        | 40.1           | 2.0              |
| 499         | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 500         | 0.8                          | 0.1          | 3.0                         | 0.4          | 0.6            | 0.0              | 3.1                          | 15.8                        | 37.3           | 2.0              |
| 501a        | 0.8                          | 0.1          | 3.3                         | 0.4          | 0.7            | 0.0              | 3.1                          | 15.8                        | 37.4           | 2.0              |
| 501b        | 0.8                          | 0.1          | 3.3                         | 0.4          | 0.7            | 0.0              | 3.1                          | 15.8                        | 37.4           | 2.0              |
| 502a        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |
| 502b        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |
| 502c        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |
| 504a        | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.8                        | 37.0           | 1.9              |
| 504b        | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.8                        | 37.0           | 1.9              |
| 505         | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 37.0           | 1.9              |
| 506         | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 36.9           | 1.9              |
| 507a        | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 36.9           | 1.9              |
| 507b        | 0.7                          | 0.1          | 2.6                         | 0.3          | 0.4            | 0.0              | 3.1                          | 15.9                        | 36.8           | 1.9              |
| 508         | 0.8                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.0                        | 37.3           | 2.0              |
| 509         | 0.6                          | 0.1          | 2.6                         | 0.2          | 0.4            | 0.0              | 3.1                          | 15.9                        | 36.7           | 1.9              |
| 510         | 0.7                          | 0.1          | 2.9                         | 0.3          | 0.5            | 0.0              | 3.1                          | 16.2                        | 37.2           | 2.0              |
| 511         | 0.8                          | 0.1          | 3.2                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.1                        | 37.4           | 2.0              |
| 513         | 0.6                          | 0.0          | 3.0                         | 0.2          | 0.4            | 0.0              | 3.1                          | 15.9                        | 36.5           | 1.9              |
| 515a        | 0.5                          | 0.1          | 3.3                         | 0.3          | 0.5            | 0.0              | 3.2                          | 15.0                        | 39.2           | 2.0              |
| 515b        | 0.4                          | 0.0          | 2.6                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.3                        | 37.5           | 1.9              |
| 516         | 0.4                          | 0.0          | 2.2                         | 0.2          | 0.3            | 0.0              | 3.1                          | 14.4                        | 36.8           | 1.9              |
| 517         | 0.4                          | 0.1          | 2.7                         | 0.3          | 0.5            | 0.0              | 3.1                          | 13.8                        | 38.1           | 2.0              |
| 518         | 0.4                          | 0.1          | 2.4                         | 0.3          | 0.6            | 0.0              | 3.2                          | 13.2                        | 39.9           | 2.0              |
| 519         | 0.4                          | 0.0          | 2.5                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.0                        | 37.4           | 1.9              |
| 522a        | 1.1                          | 0.2          | 5.6                         | 0.9          | 1.8            | 0.1              | 3.5                          | 16.4                        | 42.3           | 2.0              |
| 522b        | 2.2                          | 0.5          | 11.7                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.3                        | 45.7           | 2.2              |
| 522c        | 2.1                          | 0.5          | 11.6                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.3                        | 45.7           | 2.2              |
| 522d        | 2.1                          | 0.5          | 11.6                        | 2.8          | 6.0            | 0.2              | 3.8                          | 20.3                        | 45.7           | 2.2              |
| 527         | 3.0                          | 0.7          | 17.6                        | 3.6          | 7.6            | 0.2              | 4.1                          | 22.0                        | 48.6           | 2.3              |
| 528         | 3.0                          | 0.6          | 17.5                        | 3.6          | 7.5            | 0.2              | 4.1                          | 21.9                        | 48.5           | 2.3              |
| 529         | 3.0                          | 0.6          | 17.4                        | 3.5          | 7.4            | 0.2              | 4.1                          | 21.9                        | 48.4           | 2.3              |
| 530         | 2.9                          | 0.6          | 17.1                        | 3.5          | 7.3            | 0.2              | 4.1                          | 21.9                        | 48.2           | 2.3              |
| 531         | 2.9                          | 0.6          | 17.1                        | 3.5          | 7.3            | 0.2              | 4.1                          | 21.9                        | 48.2           | 2.3              |
| 531b        | 3.0                          | 0.6          | 17.2                        | 3.5          | 7.4            | 0.2              | 4.1                          | 21.9                        | 48.3           | 2.3              |
| 532         | 2.9                          | 0.6          | 17.1                        | 3.5          | 7.3            | 0.2              | 4.1                          | 21.9                        | 48.3           | 2.3              |
| 533         | 2.9                          | 0.6          | 17.2                        | 3.5          | 7.3            | 0.2              | 4.1                          | 21.9                        | 48.3           | 2.3              |
| 534         | 2.9                          | 0.6          | 17.2                        | 3.5          | 7.3            | 0.2              | 4.1                          | 21.9                        | 48.3           | 2.3              |
| 535         | 3.0                          | 0.6          | 17.2                        | 3.5          | 7.3            | 0.2              | 4.1                          | 22.0                        | 48.4           | 2.3              |
| 536         | 3.0                          | 0.6          | 17.2                        | 3.5          | 7.3            | 0.2              | 4.1                          | 22.0                        | 48.4           | 2.3              |
| 537         | 3.0                          | 0.6          | 17.2                        | 3.5          | 7.3            | 0.2              | 4.1                          | 22.0                        | 48.4           | 2.3              |
| 538         | 2.8                          | 0.6          | 15.4                        | 3.4          | 7.2            | 0.2              | 4.2                          | 22.9                        | 50.0           | 2.3              |
| 539         | 2.8                          | 0.6          | 15.3                        | 3.4          | 7.1            | 0.2              | 4.2                          | 22.9                        | 49.8           | 2.3              |
| 541         | 2.7                          | 0.6          | 15.1                        | 3.3          | 7.0            | 0.2              | 4.2                          | 22.9                        | 49.8           | 2.3              |
| 542         | 2.7                          | 0.6          | 15.1                        | 3.3          | 7.0            | 0.2              | 4.2                          | 22.9                        | 49.8           | 2.3              |
| 543         | 2.8                          | 0.6          | 15.1                        | 3.4          | 7.0            | 0.2              | 4.2                          | 22.9                        | 49.9           | 2.3              |
| 543b        | 2.8                          | 0.6          | 15.2                        | 3.4          | 7.1            | 0.2              | 4.2                          | 22.9                        | 50.0           | 2.3              |
| 544         | 2.8                          | 0.6          | 15.1                        | 3.4          | 7.1            | 0.2              | 4.2                          | 22.9                        | 50.0           | 2.3              |
| 545         | 2.8                          | 0.6          | 15.0                        | 3.4          | 7.1            | 0.2              | 4.2                          | 22.9                        | 50.1           | 2.3              |
| 547         | 1.4                          | 0.2          | 8.1                         | 1.0          | 1.9            | 0.1              | 3.4                          | 15.3                        | 41.5           | 2.0              |
| 549         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.9                          | 11.8                        | 41.2           | 2.0              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 550         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 4.6                          | 13.6                        | 44.3           | 2.0              |
| 552         | 0.5                          | 0.1          | 2.7                         | 0.5          | 0.9            | 0.0              | 3.6                          | 11.5                        | 40.7           | 2.0              |
| 553         | 0.5                          | 0.1          | 2.6                         | 0.5          | 0.9            | 0.0              | 5.9                          | 16.9                        | 48.5           | 2.1              |
| 554         | 0.6                          | 0.1          | 2.9                         | 0.5          | 1.0            | 0.0              | 3.9                          | 12.3                        | 41.7           | 2.0              |
| 557         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.9            | 0.0              | 5.1                          | 14.9                        | 45.8           | 2.1              |
| 559         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.8            | 0.0              | 4.7                          | 14.1                        | 43.9           | 2.0              |
| 560         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.8            | 0.0              | 4.5                          | 13.5                        | 43.6           | 2.0              |
| 561         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 4.1                          | 12.6                        | 42.4           | 2.0              |
| 562         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.8            | 0.0              | 4.2                          | 12.7                        | 42.6           | 2.0              |
| 563         | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.7            | 0.0              | 4.0                          | 12.1                        | 41.5           | 2.0              |
| 564         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.9                          | 11.7                        | 41.1           | 2.0              |
| 565         | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.8            | 0.0              | 3.9                          | 11.8                        | 41.3           | 2.0              |
| 566         | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.7                          | 11.4                        | 40.7           | 2.0              |
| 569         | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.9            | 0.0              | 3.5                          | 11.1                        | 40.3           | 2.0              |
| 570         | 0.5                          | 0.1          | 2.5                         | 0.5          | 0.9            | 0.0              | 3.5                          | 11.1                        | 40.2           | 2.0              |
| 571         | 0.5                          | 0.1          | 2.8                         | 0.5          | 1.0            | 0.0              | 3.4                          | 10.8                        | 40.1           | 2.0              |
| 572         | 0.5                          | 0.1          | 2.4                         | 0.5          | 0.9            | 0.0              | 3.5                          | 10.9                        | 40.1           | 2.0              |
| 573         | 0.5                          | 0.1          | 2.5                         | 0.5          | 0.9            | 0.0              | 3.5                          | 11.1                        | 40.3           | 2.0              |
| 574         | 0.5                          | 0.1          | 2.6                         | 0.5          | 1.0            | 0.0              | 3.5                          | 11.2                        | 40.3           | 2.0              |
| 575         | 0.5                          | 0.1          | 2.8                         | 0.5          | 1.0            | 0.0              | 3.5                          | 11.2                        | 40.4           | 2.0              |
| 576         | 0.6                          | 0.1          | 2.9                         | 0.5          | 1.0            | 0.0              | 3.5                          | 11.2                        | 40.4           | 2.0              |
| 577a        | 0.6                          | 0.1          | 3.1                         | 0.6          | 1.1            | 0.0              | 3.5                          | 11.6                        | 40.8           | 2.0              |
| 577b        | 0.6                          | 0.1          | 3.1                         | 0.6          | 1.1            | 0.0              | 3.5                          | 11.4                        | 40.6           | 2.0              |
| 578         | 0.6                          | 0.1          | 3.2                         | 0.6          | 1.1            | 0.0              | 3.5                          | 11.5                        | 40.7           | 2.0              |
| 583         | 0.5                          | 0.1          | 2.7                         | 0.3          | 0.6            | 0.0              | 3.3                          | 13.1                        | 41.1           | 2.0              |
| 586         | 0.3                          | 0.0          | 2.1                         | 0.2          | 0.3            | 0.0              | 3.1                          | 13.8                        | 36.7           | 1.9              |
| 587a        | 0.3                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.0                          | 14.5                        | 36.1           | 1.9              |
| 587b        | 0.3                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.0                          | 14.5                        | 36.1           | 1.9              |
| 588         | 0.3                          | 0.0          | 2.0                         | 0.2          | 0.3            | 0.0              | 3.0                          | 13.9                        | 36.5           | 1.9              |
| 589a        | 0.2                          | 0.0          | 1.2                         | 0.1          | 0.1            | 0.0              | 3.0                          | 5.0                         | 35.3           | 1.9              |
| 589b        | 0.2                          | 0.0          | 0.7                         | 0.1          | 0.1            | 0.0              | 2.9                          | 4.7                         | 35.2           | 1.9              |
| 600a        | 2.7                          | 0.6          | 15.2                        | 3.3          | 6.9            | 0.2              | 4.2                          | 22.9                        | 49.6           | 2.3              |
| 600b        | 2.8                          | 0.6          | 15.3                        | 3.3          | 7.0            | 0.2              | 4.2                          | 22.9                        | 49.6           | 2.3              |
| 601         | 2.7                          | 0.6          | 15.2                        | 3.3          | 6.8            | 0.2              | 4.2                          | 22.9                        | 49.5           | 2.3              |
| 602         | 2.7                          | 0.6          | 15.2                        | 3.3          | 6.8            | 0.2              | 4.2                          | 22.9                        | 49.4           | 2.3              |
| 603         | 2.7                          | 0.6          | 15.2                        | 3.2          | 6.8            | 0.2              | 4.2                          | 22.9                        | 49.4           | 2.3              |
| 604         | 2.7                          | 0.6          | 15.2                        | 3.2          | 6.8            | 0.2              | 4.2                          | 22.9                        | 49.3           | 2.3              |
| 605         | 2.8                          | 0.6          | 15.2                        | 3.2          | 6.7            | 0.2              | 4.2                          | 22.9                        | 49.3           | 2.3              |
| 606         | 2.7                          | 0.6          | 15.2                        | 3.2          | 6.7            | 0.2              | 4.2                          | 22.9                        | 49.2           | 2.3              |
| 607         | 2.7                          | 0.6          | 15.2                        | 3.2          | 6.7            | 0.2              | 4.2                          | 22.9                        | 49.1           | 2.3              |
| 608         | 2.8                          | 0.6          | 15.2                        | 3.2          | 6.7            | 0.2              | 4.2                          | 22.9                        | 49.1           | 2.3              |
| 609         | 2.8                          | 0.6          | 15.2                        | 3.2          | 6.6            | 0.2              | 4.2                          | 22.9                        | 49.0           | 2.3              |
| 610         | 2.7                          | 0.6          | 15.2                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.9                        | 49.0           | 2.3              |
| 611         | 2.7                          | 0.6          | 15.2                        | 3.1          | 6.6            | 0.2              | 4.1                          | 22.8                        | 48.9           | 2.3              |
| 612         | 2.8                          | 0.6          | 15.5                        | 3.2          | 6.7            | 0.2              | 4.1                          | 22.8                        | 49.0           | 2.3              |
| 613         | 2.8                          | 0.6          | 15.4                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.8                        | 48.9           | 2.3              |
| 614         | 2.8                          | 0.6          | 15.3                        | 3.1          | 6.6            | 0.2              | 4.1                          | 22.8                        | 48.9           | 2.3              |
| 615         | 2.7                          | 0.6          | 15.2                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.8                        | 48.8           | 2.3              |
| 616a        | 2.5                          | 0.6          | 14.7                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.3                        | 46.8           | 2.2              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx





| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 616b        | 2.8                          | 0.6          | 15.4                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.7                        | 48.7           | 2.3              |
| 617a        | 2.7                          | 0.6          | 15.1                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.7                        | 48.5           | 2.3              |
| 618a        | 2.7                          | 0.6          | 15.1                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.6                        | 48.4           | 2.3              |
| 618b        | 2.7                          | 0.6          | 15.1                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.6                        | 48.4           | 2.3              |
| 619         | 2.7                          | 0.6          | 15.1                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.6                        | 48.3           | 2.3              |
| 621         | 2.7                          | 0.6          | 15.1                        | 3.0          | 6.2            | 0.2              | 4.1                          | 22.5                        | 48.2           | 2.3              |
| 622a        | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.5                        | 48.2           | 2.3              |
| 623a        | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 623b        | 2.7                          | 0.5          | 15.2                        | 3.0          | 6.2            | 0.2              | 4.1                          | 22.4                        | 48.1           | 2.3              |
| 630a        | 2.6                          | 0.5          | 14.4                        | 2.8          | 5.7            | 0.2              | 4.0                          | 22.1                        | 47.3           | 2.3              |
| 631         | 2.5                          | 0.5          | 14.3                        | 2.7          | 5.7            | 0.2              | 4.0                          | 22.1                        | 47.2           | 2.2              |
| 632         | 2.6                          | 0.5          | 14.4                        | 2.8          | 5.7            | 0.2              | 4.0                          | 22.1                        | 47.2           | 2.3              |
| 648         | 2.6                          | 0.5          | 15.1                        | 2.9          | 6.0            | 0.2              | 4.0                          | 21.9                        | 47.4           | 2.3              |
| 649         | 2.7                          | 0.5          | 15.2                        | 2.9          | 6.1            | 0.2              | 4.0                          | 21.9                        | 47.4           | 2.3              |
| 650         | 2.7                          | 0.5          | 15.3                        | 3.0          | 6.1            | 0.2              | 4.0                          | 22.0                        | 47.5           | 2.3              |
| 651         | 2.6                          | 0.5          | 15.2                        | 2.9          | 6.1            | 0.2              | 4.0                          | 21.9                        | 47.3           | 2.3              |
| 652         | 2.7                          | 0.5          | 15.5                        | 3.0          | 6.2            | 0.2              | 4.0                          | 22.0                        | 47.6           | 2.3              |
| 653         | 2.7                          | 0.6          | 15.6                        | 3.0          | 6.3            | 0.2              | 4.0                          | 22.0                        | 47.7           | 2.3              |
| 654a        | 2.7                          | 0.6          | 15.8                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.7                        | 47.5           | 2.3              |
| 654b        | 2.7                          | 0.6          | 15.6                        | 3.0          | 6.3            | 0.2              | 4.0                          | 22.0                        | 47.6           | 2.3              |
| 655         | 2.7                          | 0.6          | 15.6                        | 3.0          | 6.3            | 0.2              | 4.0                          | 22.0                        | 47.6           | 2.3              |
| 658a        | 2.8                          | 0.6          | 15.9                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.9                        | 47.7           | 2.3              |
| 659         | 2.8                          | 0.6          | 15.9                        | 3.1          | 6.4            | 0.2              | 4.0                          | 22.0                        | 47.8           | 2.3              |
| 660a        | 2.8                          | 0.6          | 15.9                        | 3.1          | 6.4            | 0.2              | 4.0                          | 22.0                        | 47.7           | 2.3              |
| 660b        | 2.8                          | 0.6          | 15.9                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.9                        | 47.7           | 2.3              |
| 661         | 2.8                          | 0.6          | 16.1                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.9                        | 47.8           | 2.3              |
| 662         | 2.8                          | 0.6          | 16.1                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.9                        | 47.8           | 2.3              |
| 663         | 2.8                          | 0.6          | 16.2                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.9                        | 47.9           | 2.3              |
| 664         | 2.8                          | 0.6          | 16.3                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.9                        | 47.9           | 2.3              |
| 665a        | 2.9                          | 0.6          | 16.7                        | 3.3          | 6.9            | 0.2              | 4.1                          | 22.0                        | 48.2           | 2.3              |
| 665b        | 2.9                          | 0.6          | 16.7                        | 3.3          | 6.9            | 0.2              | 4.1                          | 22.0                        | 48.2           | 2.3              |
| 667a        | 3.3                          | 0.7          | 19.1                        | 4.0          | 8.5            | 0.2              | 4.2                          | 22.2                        | 49.7           | 2.3              |
| 667b        | 3.2                          | 0.7          | 18.8                        | 3.9          | 8.4            | 0.2              | 4.2                          | 22.1                        | 49.5           | 2.3              |
| 667c        | 3.3                          | 0.7          | 19.1                        | 4.0          | 8.5            | 0.2              | 4.2                          | 22.2                        | 49.7           | 2.3              |
| 667d        | 3.3                          | 0.7          | 19.1                        | 4.0          | 8.5            | 0.2              | 4.2                          | 22.2                        | 49.7           | 2.3              |
| 667e        | 3.2                          | 0.7          | 19.0                        | 4.0          | 8.4            | 0.2              | 4.2                          | 22.2                        | 49.6           | 2.3              |
| 667f        | 2.1                          | 0.5          | 11.5                        | 2.8          | 5.8            | 0.2              | 3.8                          | 20.0                        | 45.4           | 2.2              |
| 669         | 2.9                          | 0.6          | 16.9                        | 3.4          | 7.1            | 0.2              | 4.1                          | 21.9                        | 48.2           | 2.3              |
| 671         | 2.9                          | 0.6          | 16.9                        | 3.4          | 7.1            | 0.2              | 4.1                          | 21.9                        | 48.2           | 2.3              |
| 672         | 2.9                          | 0.6          | 16.9                        | 3.4          | 7.1            | 0.2              | 4.1                          | 21.9                        | 48.1           | 2.3              |
| 673         | 2.9                          | 0.6          | 16.8                        | 3.4          | 7.1            | 0.2              | 4.1                          | 21.9                        | 48.1           | 2.3              |
| 675         | 2.9                          | 0.6          | 16.7                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 676         | 2.9                          | 0.6          | 16.7                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.3              |
| 677         | 2.8                          | 0.6          | 16.6                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 678         | 2.8                          | 0.6          | 16.5                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.8                        | 47.8           | 2.3              |
| 679         | 2.8                          | 0.6          | 16.4                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.8                        | 47.8           | 2.3              |
| 680         | 2.8                          | 0.6          | 16.3                        | 3.3          | 6.8            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 681         | 2.8                          | 0.6          | 16.2                        | 3.2          | 6.8            | 0.2              | 4.0                          | 21.7                        | 47.6           | 2.3              |
| 682a        | 2.7                          | 0.6          | 15.9                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.7                        | 47.5           | 2.3              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 682b        | 2.7                          | 0.6          | 15.9                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.7                        | 47.5           | 2.3              |
| 683         | 2.7                          | 0.6          | 15.8                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.7                        | 47.4           | 2.3              |
| 684         | 2.7                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.6                        | 47.3           | 2.3              |
| 685         | 2.7                          | 0.6          | 15.6                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.6                        | 47.3           | 2.3              |
| 686         | 2.7                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.7                        | 47.3           | 2.3              |
| 687         | 2.7                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.7                        | 47.4           | 2.3              |
| 688         | 2.7                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.7                        | 47.4           | 2.3              |
| 689         | 2.8                          | 0.6          | 16.2                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.9                        | 47.8           | 2.3              |
| 690         | 2.8                          | 0.6          | 16.1                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.8                        | 47.7           | 2.3              |
| 691         | 2.7                          | 0.6          | 15.8                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.8                        | 47.5           | 2.3              |
| 692         | 2.7                          | 0.6          | 15.8                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.8                        | 47.5           | 2.3              |
| 693         | 2.6                          | 0.6          | 15.4                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.6                        | 47.2           | 2.3              |
| 694a        | 2.6                          | 0.6          | 15.4                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.6                        | 47.2           | 2.3              |
| 694b        | 2.6                          | 0.5          | 15.2                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.6                        | 47.1           | 2.3              |
| 695         | 2.6                          | 0.6          | 15.4                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.6                        | 47.2           | 2.3              |
| 697         | 2.6                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.5                        | 47.1           | 2.3              |
| 698         | 2.6                          | 0.5          | 15.0                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.5                        | 47.0           | 2.3              |
| 715         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.7                        | 40.3           | 2.1              |
| 728         | 2.6                          | 0.5          | 14.9                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.4                        | 46.9           | 2.3              |
| 729         | 2.6                          | 0.5          | 15.0                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.5                        | 47.0           | 2.3              |
| 730         | 2.6                          | 0.5          | 15.2                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.5                        | 47.0           | 2.3              |
| 731         | 2.6                          | 0.6          | 15.2                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.5                        | 47.1           | 2.3              |
| 732         | 2.6                          | 0.6          | 15.2                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.5                        | 47.0           | 2.3              |
| 733         | 2.6                          | 0.6          | 15.1                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.4                        | 47.0           | 2.3              |
| 735a        | 2.5                          | 0.6          | 14.9                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.4                        | 46.9           | 2.2              |
| 735b        | 2.6                          | 0.6          | 15.0                        | 3.1          | 6.4            | 0.2              | 4.0                          | 21.4                        | 46.9           | 2.2              |
| 736         | 2.5                          | 0.5          | 14.7                        | 3.0          | 6.2            | 0.2              | 3.9                          | 21.3                        | 46.8           | 2.2              |
| 737         | 2.5                          | 0.6          | 14.9                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 738         | 2.5                          | 0.6          | 14.8                        | 3.0          | 6.4            | 0.2              | 3.9                          | 21.3                        | 46.8           | 2.2              |
| 739         | 2.5                          | 0.6          | 14.8                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.3                        | 46.8           | 2.2              |
| 740a        | 2.4                          | 0.5          | 14.4                        | 3.0          | 6.2            | 0.2              | 3.9                          | 21.2                        | 46.6           | 2.2              |
| 740b        | 2.5                          | 0.5          | 14.5                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 740c        | 2.5                          | 0.5          | 14.6                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 740d        | 2.5                          | 0.5          | 14.7                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.3                        | 46.8           | 2.2              |
| 740e        | 2.5                          | 0.5          | 14.6                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 740f        | 2.4                          | 0.5          | 14.4                        | 3.0          | 6.2            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 741         | 2.5                          | 0.6          | 14.9                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 742         | 2.5                          | 0.6          | 14.9                        | 3.1          | 6.5            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 743         | 2.5                          | 0.6          | 14.9                        | 3.1          | 6.5            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 744         | 2.5                          | 0.6          | 14.6                        | 3.1          | 6.4            | 0.2              | 3.9                          | 21.2                        | 46.8           | 2.2              |
| 745         | 2.5                          | 0.5          | 14.5                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 746         | 2.4                          | 0.5          | 14.4                        | 3.0          | 6.3            | 0.2              | 3.9                          | 21.2                        | 46.7           | 2.2              |
| 747         | 2.4                          | 0.5          | 14.2                        | 3.0          | 6.2            | 0.2              | 3.9                          | 21.1                        | 46.6           | 2.2              |
| 748a        | 2.4                          | 0.5          | 14.1                        | 3.0          | 6.2            | 0.2              | 3.9                          | 21.1                        | 46.5           | 2.2              |
| 748b        | 1.7                          | 0.3          | 9.1                         | 1.7          | 3.5            | 0.1              | 3.6                          | 18.5                        | 42.8           | 2.1              |
| 749a        | 2.7                          | 0.6          | 15.6                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.6                        | 47.3           | 2.3              |
| 749b        | 2.7                          | 0.6          | 15.5                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.6                        | 47.2           | 2.3              |
| 750         | 2.7                          | 0.6          | 15.5                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.6                        | 47.2           | 2.3              |
| 751         | 2.6                          | 0.6          | 15.5                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.5                        | 47.2           | 2.3              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 752a        | 2.7                          | 0.6          | 15.7                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.6                        | 47.3           | 2.3              |
| 752b        | 2.7                          | 0.6          | 15.6                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.6                        | 47.3           | 2.3              |
| 753         | 2.7                          | 0.6          | 15.8                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.6                        | 47.4           | 2.3              |
| 754         | 2.7                          | 0.6          | 15.8                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.6                        | 47.4           | 2.3              |
| 755         | 2.7                          | 0.6          | 15.9                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.3              |
| 756         | 2.7                          | 0.6          | 16.1                        | 3.2          | 6.8            | 0.2              | 4.0                          | 21.7                        | 47.5           | 2.3              |
| 757         | 2.8                          | 0.6          | 16.1                        | 3.3          | 6.8            | 0.2              | 4.0                          | 21.7                        | 47.6           | 2.3              |
| 758         | 2.8                          | 0.6          | 16.2                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.7                        | 47.6           | 2.3              |
| 759a        | 2.8                          | 0.6          | 16.3                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 759b        | 2.8                          | 0.6          | 16.3                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 760         | 2.8                          | 0.6          | 16.4                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 761         | 2.8                          | 0.6          | 16.5                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 762         | 2.8                          | 0.6          | 16.7                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 763         | 2.8                          | 0.6          | 16.6                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 764         | 2.8                          | 0.6          | 16.6                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 765a        | 2.8                          | 0.6          | 16.6                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 765b        | 2.8                          | 0.6          | 16.6                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.9           | 2.3              |
| 766         | 2.8                          | 0.6          | 16.5                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 767         | 2.8                          | 0.6          | 16.5                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 768         | 2.8                          | 0.6          | 16.4                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.8           | 2.3              |
| 769         | 2.7                          | 0.6          | 16.1                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.3              |
| 770         | 2.8                          | 0.6          | 16.4                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.3              |
| 771         | 2.8                          | 0.6          | 16.4                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.2              |
| 772         | 2.8                          | 0.6          | 16.3                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.7                        | 47.7           | 2.2              |
| 773         | 2.8                          | 0.6          | 16.3                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.7           | 2.2              |
| 774         | 2.7                          | 0.6          | 16.0                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 775         | 2.7                          | 0.6          | 16.0                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 776         | 2.7                          | 0.6          | 16.2                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.6           | 2.2              |
| 777         | 2.7                          | 0.6          | 16.0                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 778a        | 2.7                          | 0.6          | 15.9                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 778b        | 2.7                          | 0.6          | 16.1                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.6           | 2.2              |
| 779a        | 2.7                          | 0.6          | 15.9                        | 3.4          | 7.0            | 0.2              | 4.0                          | 21.5                        | 47.5           | 2.2              |
| 779b        | 2.7                          | 0.6          | 15.7                        | 3.3          | 7.0            | 0.2              | 4.0                          | 21.5                        | 47.4           | 2.2              |
| 780         | 2.7                          | 0.6          | 15.9                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 781         | 2.7                          | 0.6          | 16.0                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.6                        | 47.5           | 2.2              |
| 782         | 2.7                          | 0.6          | 15.8                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.5                        | 47.5           | 2.2              |
| 783         | 2.7                          | 0.6          | 15.8                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.5                        | 47.5           | 2.2              |
| 784         | 2.6                          | 0.6          | 15.5                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.5                        | 47.2           | 2.3              |
| 785         | 2.6                          | 0.6          | 15.4                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.5                        | 47.2           | 2.3              |
| 786         | 2.6                          | 0.6          | 15.5                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.5                        | 47.2           | 2.3              |
| 787a        | 2.6                          | 0.6          | 15.4                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.5                        | 47.1           | 2.3              |
| 787b        | 2.7                          | 0.6          | 15.6                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.5                        | 47.3           | 2.3              |
| 788         | 2.6                          | 0.6          | 15.4                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.5                        | 47.1           | 2.3              |
| 789         | 2.6                          | 0.6          | 15.4                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.5                        | 47.1           | 2.2              |
| 790a        | 2.6                          | 0.6          | 15.3                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 790b        | 2.6                          | 0.6          | 15.4                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 791a        | 2.6                          | 0.6          | 15.2                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 791b        | 2.6                          | 0.6          | 15.3                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 792a        | 2.6                          | 0.6          | 15.5                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.5                        | 47.2           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 792b        | 2.6                          | 0.6          | 15.3                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 793         | 2.6                          | 0.6          | 15.2                        | 3.1          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.0           | 2.2              |
| 794         | 2.6                          | 0.6          | 15.2                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 795         | 2.6                          | 0.6          | 15.3                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 796         | 2.6                          | 0.6          | 15.3                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 797a        | 2.6                          | 0.6          | 15.3                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 797b        | 2.6                          | 0.6          | 15.4                        | 3.2          | 6.8            | 0.2              | 4.0                          | 21.4                        | 47.2           | 2.2              |
| 798         | 2.6                          | 0.6          | 15.3                        | 3.2          | 6.7            | 0.2              | 4.0                          | 21.4                        | 47.1           | 2.2              |
| 801         | 2.6                          | 0.6          | 15.4                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.4                        | 47.2           | 2.2              |
| 802         | 2.6                          | 0.6          | 15.4                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.4                        | 47.2           | 2.2              |
| 803a        | 2.5                          | 0.6          | 15.0                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.3                        | 47.0           | 2.2              |
| 803b        | 2.5                          | 0.6          | 14.9                        | 3.2          | 6.6            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 804         | 2.5                          | 0.6          | 15.0                        | 3.2          | 6.6            | 0.2              | 4.0                          | 21.3                        | 47.0           | 2.2              |
| 805         | 2.5                          | 0.6          | 14.9                        | 3.1          | 6.6            | 0.2              | 3.9                          | 21.3                        | 46.9           | 2.2              |
| 806         | 2.1                          | 0.5          | 12.6                        | 2.9          | 6.0            | 0.2              | 3.9                          | 20.7                        | 46.0           | 2.2              |
| 807         | 2.1                          | 0.5          | 12.5                        | 2.9          | 6.0            | 0.2              | 3.9                          | 20.7                        | 46.0           | 2.2              |
| 808         | 2.1                          | 0.5          | 12.5                        | 2.9          | 6.0            | 0.2              | 3.9                          | 20.7                        | 46.0           | 2.2              |
| 809         | 2.1                          | 0.5          | 12.4                        | 2.9          | 6.0            | 0.2              | 3.9                          | 20.7                        | 46.0           | 2.2              |
| 810         | 2.1                          | 0.5          | 12.4                        | 2.9          | 6.0            | 0.2              | 3.9                          | 20.6                        | 46.0           | 2.2              |
| 811         | 2.1                          | 0.5          | 12.2                        | 2.9          | 6.1            | 0.2              | 3.9                          | 20.6                        | 45.9           | 2.2              |
| 812         | 2.1                          | 0.5          | 12.2                        | 2.9          | 6.1            | 0.2              | 3.9                          | 20.6                        | 45.9           | 2.2              |
| 813         | 2.1                          | 0.5          | 12.1                        | 2.9          | 6.1            | 0.2              | 3.9                          | 20.5                        | 45.9           | 2.2              |
| 814         | 2.1                          | 0.5          | 12.0                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.5                        | 45.9           | 2.2              |
| 815a        | 2.1                          | 0.5          | 11.9                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.5                        | 45.8           | 2.2              |
| 815b        | 2.1                          | 0.5          | 12.0                        | 2.9          | 6.1            | 0.2              | 3.8                          | 20.5                        | 45.9           | 2.2              |
| 816         | 2.1                          | 0.5          | 11.8                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.4                        | 45.8           | 2.2              |
| 817         | 2.1                          | 0.5          | 11.6                        | 2.9          | 6.0            | 0.2              | 3.8                          | 20.3                        | 45.7           | 2.2              |
| 819         | 2.1                          | 0.5          | 11.4                        | 2.7          | 5.7            | 0.2              | 3.8                          | 19.9                        | 45.3           | 2.2              |
| 820a        | 2.1                          | 0.5          | 11.3                        | 2.7          | 5.7            | 0.2              | 3.8                          | 19.9                        | 45.3           | 2.2              |
| 820b        | 2.1                          | 0.5          | 11.4                        | 2.7          | 5.7            | 0.2              | 3.8                          | 19.9                        | 45.3           | 2.2              |
| 821         | 2.1                          | 0.5          | 11.3                        | 2.7          | 5.6            | 0.2              | 3.8                          | 19.8                        | 45.2           | 2.2              |
| 822         | 2.1                          | 0.5          | 11.2                        | 2.7          | 5.6            | 0.2              | 3.8                          | 19.8                        | 45.2           | 2.2              |
| 823a        | 2.1                          | 0.5          | 11.2                        | 2.7          | 5.6            | 0.2              | 3.8                          | 19.8                        | 45.1           | 2.2              |
| 823b        | 2.2                          | 0.5          | 11.4                        | 2.7          | 5.7            | 0.2              | 3.8                          | 19.8                        | 45.2           | 2.2              |
| 824         | 2.1                          | 0.5          | 11.1                        | 2.6          | 5.5            | 0.2              | 3.8                          | 19.7                        | 45.1           | 2.2              |
| 825         | 2.1                          | 0.5          | 11.1                        | 2.6          | 5.5            | 0.2              | 3.8                          | 19.7                        | 45.0           | 2.2              |
| 826         | 2.1                          | 0.5          | 11.1                        | 2.6          | 5.5            | 0.2              | 3.8                          | 19.7                        | 45.0           | 2.2              |
| 827         | 2.1                          | 0.5          | 11.1                        | 2.6          | 5.4            | 0.2              | 3.8                          | 19.6                        | 45.0           | 2.2              |
| 828         | 2.1                          | 0.5          | 11.0                        | 2.6          | 5.4            | 0.2              | 3.8                          | 19.5                        | 44.9           | 2.2              |
| 829a        | 2.1                          | 0.5          | 11.0                        | 2.5          | 5.3            | 0.2              | 3.7                          | 19.5                        | 44.8           | 2.2              |
| 829b        | 2.1                          | 0.5          | 11.0                        | 2.5          | 5.3            | 0.2              | 3.7                          | 19.5                        | 44.8           | 2.2              |
| 830         | 2.1                          | 0.5          | 11.0                        | 2.5          | 5.3            | 0.2              | 3.7                          | 19.4                        | 44.8           | 2.2              |
| 831         | 2.1                          | 0.5          | 11.0                        | 2.5          | 5.2            | 0.2              | 3.7                          | 19.4                        | 44.7           | 2.2              |
| 832         | 2.1                          | 0.5          | 10.9                        | 2.5          | 5.2            | 0.2              | 3.7                          | 19.4                        | 44.7           | 2.2              |
| 833         | 2.1                          | 0.4          | 10.9                        | 2.5          | 5.2            | 0.2              | 3.7                          | 19.4                        | 44.7           | 2.2              |
| 834         | 2.1                          | 0.4          | 10.9                        | 2.5          | 5.1            | 0.2              | 3.7                          | 19.3                        | 44.6           | 2.2              |
| 835         | 2.1                          | 0.4          | 10.8                        | 2.4          | 5.1            | 0.2              | 3.7                          | 19.3                        | 44.6           | 2.2              |
| 836         | 2.1                          | 0.4          | 10.8                        | 2.4          | 5.0            | 0.2              | 3.7                          | 19.3                        | 44.5           | 2.2              |
| 837         | 2.1                          | 0.4          | 10.7                        | 2.4          | 5.0            | 0.2              | 3.7                          | 19.3                        | 44.5           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 838         | 2.1                          | 0.4          | 10.7                        | 2.4          | 5.0            | 0.2              | 3.7                          | 19.2                        | 44.4           | 2.1              |
| 839         | 2.0                          | 0.4          | 10.6                        | 2.4          | 4.9            | 0.2              | 3.7                          | 19.2                        | 44.3           | 2.1              |
| 840         | 2.0                          | 0.4          | 10.6                        | 2.3          | 4.9            | 0.2              | 3.7                          | 19.2                        | 44.3           | 2.1              |
| 841         | 2.0                          | 0.4          | 10.6                        | 2.3          | 4.8            | 0.2              | 3.7                          | 19.1                        | 44.3           | 2.1              |
| 843a        | 2.0                          | 0.4          | 10.4                        | 2.3          | 4.7            | 0.2              | 3.7                          | 19.0                        | 44.1           | 2.1              |
| 843b        | 2.0                          | 0.4          | 10.6                        | 2.3          | 4.7            | 0.2              | 3.7                          | 19.0                        | 44.1           | 2.1              |
| 844a        | 2.0                          | 0.4          | 10.2                        | 2.1          | 4.4            | 0.2              | 3.7                          | 18.8                        | 43.8           | 2.1              |
| 845         | 1.9                          | 0.4          | 9.9                         | 2.0          | 4.2            | 0.2              | 3.6                          | 18.7                        | 43.5           | 2.1              |
| 846         | 1.9                          | 0.4          | 9.8                         | 2.0          | 4.1            | 0.2              | 3.6                          | 18.7                        | 43.4           | 2.1              |
| 847         | 1.9                          | 0.4          | 9.8                         | 2.0          | 4.1            | 0.2              | 3.6                          | 18.7                        | 43.4           | 2.1              |
| 848         | 1.9                          | 0.4          | 9.7                         | 2.0          | 4.1            | 0.2              | 3.6                          | 18.7                        | 43.4           | 2.1              |
| 849         | 1.9                          | 0.4          | 9.7                         | 2.0          | 4.0            | 0.2              | 3.6                          | 18.7                        | 43.3           | 2.1              |
| 850         | 1.9                          | 0.4          | 9.7                         | 1.9          | 4.0            | 0.2              | 3.6                          | 18.6                        | 43.3           | 2.1              |
| 853         | 1.8                          | 0.3          | 9.5                         | 1.9          | 3.9            | 0.2              | 3.6                          | 18.6                        | 43.2           | 2.1              |
| 854         | 1.8                          | 0.3          | 9.4                         | 1.9          | 3.8            | 0.2              | 3.6                          | 18.6                        | 43.1           | 2.1              |
| 855         | 1.8                          | 0.3          | 9.4                         | 1.8          | 3.8            | 0.2              | 3.6                          | 18.6                        | 43.1           | 2.1              |
| 856         | 1.8                          | 0.3          | 9.3                         | 1.8          | 3.8            | 0.1              | 3.6                          | 18.6                        | 43.1           | 2.1              |
| 857         | 1.8                          | 0.3          | 9.3                         | 1.8          | 3.7            | 0.1              | 3.6                          | 18.6                        | 43.0           | 2.1              |
| 858         | 1.8                          | 0.3          | 9.3                         | 1.8          | 3.7            | 0.1              | 3.6                          | 18.6                        | 43.0           | 2.1              |
| 859         | 1.8                          | 0.3          | 9.2                         | 1.8          | 3.7            | 0.1              | 3.6                          | 18.5                        | 43.0           | 2.1              |
| 860         | 1.8                          | 0.3          | 9.2                         | 1.8          | 3.7            | 0.1              | 3.6                          | 18.5                        | 42.9           | 2.1              |
| 861         | 1.8                          | 0.3          | 9.1                         | 1.8          | 3.6            | 0.1              | 3.6                          | 18.5                        | 42.9           | 2.1              |
| 862         | 1.8                          | 0.3          | 9.1                         | 1.7          | 3.6            | 0.1              | 3.6                          | 18.5                        | 42.9           | 2.1              |
| 863         | 1.7                          | 0.3          | 9.0                         | 1.7          | 3.5            | 0.1              | 3.6                          | 18.5                        | 42.8           | 2.1              |
| 864         | 1.7                          | 0.3          | 8.9                         | 1.7          | 3.5            | 0.1              | 3.6                          | 18.5                        | 42.7           | 2.1              |
| 865         | 1.7                          | 0.3          | 8.9                         | 1.7          | 3.4            | 0.1              | 3.6                          | 18.5                        | 42.7           | 2.1              |
| 866         | 1.7                          | 0.3          | 8.8                         | 1.6          | 3.2            | 0.1              | 3.5                          | 18.5                        | 42.4           | 2.1              |
| 867         | 1.7                          | 0.3          | 8.8                         | 1.6          | 3.2            | 0.1              | 3.5                          | 18.5                        | 42.3           | 2.1              |
| 868         | 1.7                          | 0.3          | 8.8                         | 1.6          | 3.2            | 0.1              | 3.5                          | 18.4                        | 42.3           | 2.1              |
| 870         | 1.7                          | 0.3          | 8.8                         | 1.5          | 3.1            | 0.1              | 3.5                          | 18.4                        | 42.2           | 2.1              |
| 871         | 1.7                          | 0.3          | 8.8                         | 1.5          | 3.1            | 0.1              | 3.5                          | 18.3                        | 42.2           | 2.1              |
| 872a        | 1.7                          | 0.3          | 8.8                         | 1.5          | 3.1            | 0.1              | 3.5                          | 18.3                        | 42.1           | 2.1              |
| 900a        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 900b        | 0.9                          | 0.1          | 5.5                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.8           | 2.1              |
| 901         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 18.9                        | 41.2           | 2.1              |
| 902         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 18.9                        | 41.2           | 2.1              |
| 903         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 18.9                        | 41.1           | 2.1              |
| 904         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 18.9                        | 41.1           | 2.1              |
| 905         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.8            | 0.0              | 3.4                          | 18.9                        | 41.0           | 2.1              |
| 906         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.0                        | 41.0           | 2.1              |
| 907         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 908         | 0.9                          | 0.1          | 5.3                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 909         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.8           | 2.1              |
| 911         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 40.8           | 2.1              |
| 912         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 913         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 914         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 915         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.0           | 2.1              |
| 916         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 917         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 918         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.2           | 2.1              |
| 919         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 920         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 921         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 922         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 924         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.2           | 2.1              |
| 925         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 926         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.4           | 2.1              |
| 927         | 0.9                          | 0.1          | 5.4                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.4           | 2.1              |
| 928         | 0.9                          | 0.1          | 5.5                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.0                        | 41.4           | 2.1              |
| 929         | 0.9                          | 0.1          | 5.5                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.0                        | 41.4           | 2.1              |
| 930         | 0.9                          | 0.1          | 5.5                         | 0.5          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.6           | 2.1              |
| 931         | 0.9                          | 0.1          | 5.5                         | 0.5          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 932a        | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 932b        | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 933         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 934         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 935a        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 935b        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 936         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 937         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 938         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 939         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.8           | 2.1              |
| 940         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 41.9           | 2.1              |
| 941         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 42.0           | 2.2              |
| 942         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.4                        | 42.2           | 2.2              |
| 943         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 42.1           | 2.2              |
| 944         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 41.9           | 2.2              |
| 945a        | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.2              |
| 945b        | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.2              |
| 946         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.2                        | 41.7           | 2.1              |
| 947         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 948         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 949         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 950         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 951         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 41.0           | 2.1              |
| 952         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 953         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 40.8           | 2.1              |
| 954         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.8           | 2.1              |
| 955         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 956         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.6           | 2.1              |
| 957a        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| 957b        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 40.7           | 2.1              |
| 958         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 959         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 960         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 961         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.3                        | 41.4           | 2.1              |
| 962         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.3                        | 41.6           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 963         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.4                        | 41.8           | 2.2              |
| 964         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.5                        | 42.0           | 2.2              |
| 965         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.5                          | 19.5                        | 41.9           | 2.2              |
| 966         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.5                        | 41.6           | 2.1              |
| 967a        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.5                        | 41.4           | 2.1              |
| 967b        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.4                        | 41.3           | 2.1              |
| 968         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.4                        | 41.3           | 2.1              |
| 969         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.3                        | 41.1           | 2.1              |
| 970         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 971         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 40.8           | 2.1              |
| 972         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.0                        | 40.6           | 2.1              |
| 973         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.5           | 2.1              |
| 974         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.3           | 2.1              |
| 976         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 977a        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 977b        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.0           | 2.1              |
| 978         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.4                        | 39.4           | 2.1              |
| 979a        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 979b        | 0.9                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.2           | 2.1              |
| 980         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.0           | 2.1              |
| 981a        | 0.9                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.0           | 2.1              |
| 981b        | 0.9                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 982         | 0.9                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 983         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.2           | 2.1              |
| 984         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.4                        | 39.4           | 2.1              |
| 985         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 986         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 987         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.4           | 2.1              |
| 988a        | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 988b        | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 989a        | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 989b        | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 990         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.7           | 2.1              |
| 991         | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.8           | 2.1              |
| 992         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| 993a        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.7                        | 40.2           | 2.1              |
| 993b        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.7                        | 40.1           | 2.1              |
| 994a        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.0           | 2.1              |
| 994b        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.0           | 2.1              |
| 995         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.7                        | 40.1           | 2.1              |
| 997         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.8                        | 40.4           | 2.1              |
| 998         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.5           | 2.1              |
| 999         | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 1000        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1001        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 1002        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1003        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1004        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.0           | 2.1              |
| 1005        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 38.9           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 1006        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1007        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1008        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1009        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1010        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.8           | 2.1              |
| 1011        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| 1012        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1014        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 1015        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1016        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.3           | 2.1              |
| 1017        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1018        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| 1019        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1020        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1021        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1022        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1023        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1024        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1025        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 39.1           | 2.1              |
| 1026        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1027        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1028        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.0           | 2.1              |
| 1029        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1030        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1031        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1032        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1033        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1034        | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| 1035        | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.1              |
| 1036a       | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.2           | 2.0              |
| 1036b       | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.1              |
| 1037        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| 1038        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.1              |
| 1039        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1040        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.6           | 2.1              |
| 1041        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1042        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1043        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1044        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.8           | 2.1              |
| 1045        | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| 1046        | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.1           | 2.0              |
| 1076a       | 0.8                          | 0.1          | 3.4                         | 0.3          | 0.6            | 0.0              | 3.2                          | 16.7                        | 37.7           | 2.0              |
| 1076b       | 0.8                          | 0.1          | 3.4                         | 0.3          | 0.6            | 0.0              | 3.2                          | 16.7                        | 37.8           | 2.0              |
| 1077        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.6           | 2.1              |
| 1078        | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.3           | 2.0              |
| 1079        | 0.8                          | 0.1          | 4.5                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.1           | 2.0              |
| 1080        | 0.8                          | 0.1          | 4.5                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.0           | 2.0              |
| 1081        | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.2           | 2.0              |
| 1082a       | 0.8                          | 0.1          | 4.8                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.3           | 2.0              |



| Receptor ID          | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|----------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                      | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                      | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                      | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                      | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 1082b                | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.0              |
| 1083                 | 0.5                          | 0.0          | 2.7                         | 0.2          | 0.3            | 0.0              | 3.0                          | 16.0                        | 36.0           | 1.9              |
| 1084                 | 0.4                          | 0.0          | 2.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.8                        | 35.8           | 1.9              |
| 1100a                | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.3                          | 9.5                         | 39.1           | 1.9              |
| 1100b                | 0.3                          | 0.0          | 1.0                         | 0.1          | 0.1            | 0.0              | 3.3                          | 9.5                         | 39.0           | 1.9              |
| 3001                 | 1.3                          | 0.2          | 7.6                         | 1.4          | 2.8            | 0.1              | 3.4                          | 14.1                        | 40.2           | 2.1              |
| 3002a                | 1.4                          | 0.3          | 8.3                         | 1.5          | 3.1            | 0.1              | 3.4                          | 15.1                        | 40.3           | 2.0              |
| 3002b                | 1.4                          | 0.3          | 8.4                         | 1.5          | 3.1            | 0.1              | 3.4                          | 15.0                        | 40.3           | 2.0              |
| 3003                 | 1.9                          | 0.4          | 11.5                        | 2.1          | 4.6            | 0.1              | 3.5                          | 15.7                        | 42.8           | 2.1              |
| 3004                 | 1.9                          | 0.4          | 11.1                        | 2.0          | 4.4            | 0.1              | 3.5                          | 15.6                        | 42.4           | 2.1              |
| 3005a                | 1.6                          | 0.3          | 9.4                         | 1.8          | 3.8            | 0.1              | 3.4                          | 15.5                        | 41.5           | 2.0              |
| 3005b                | 1.4                          | 0.3          | 8.3                         | 1.6          | 3.5            | 0.1              | 3.4                          | 15.5                        | 41.0           | 2.0              |
| 3005c                | 1.6                          | 0.3          | 9.5                         | 1.8          | 3.8            | 0.1              | 3.4                          | 15.5                        | 41.5           | 2.1              |
| Mine-owned receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 45                   | 1.2                          | 0.1          | 4.1                         | 0.6          | 1.0            | 0.0              | 4.4                          | 18.6                        | 54.4           | 2.4              |
| 45b                  | 1.2                          | 0.1          | 4.1                         | 0.6          | 1.0            | 0.0              | 4.4                          | 18.7                        | 54.6           | 2.4              |
| 45c                  | 1.2                          | 0.1          | 4.2                         | 0.6          | 1.1            | 0.0              | 4.4                          | 18.8                        | 54.7           | 2.4              |
| 74                   | 3.8                          | 0.9          | 22.6                        | 5.3          | 11.3           | 0.3              | 4.4                          | 22.1                        | 52.0           | 2.3              |
| 118                  | 5.8                          | 1.3          | 32.9                        | 7.5          | 16.3           | 0.4              | 4.6                          | 20.6                        | 55.9           | 2.4              |
| 120                  | 5.8                          | 1.3          | 31.5                        | 7.3          | 15.9           | 0.4              | 4.6                          | 20.1                        | 55.4           | 2.4              |
| 120c                 | 5.9                          | 1.3          | 32.1                        | 7.4          | 16.2           | 0.4              | 4.6                          | 20.2                        | 55.7           | 2.4              |
| 121                  | 6.1                          | 1.3          | 33.2                        | 7.6          | 16.7           | 0.5              | 4.6                          | 20.4                        | 56.2           | 2.4              |
| 526                  | 2.9                          | 0.7          | 17.2                        | 4.0          | 8.5            | 0.2              | 4.1                          | 21.8                        | 48.6           | 2.2              |
| 23                   | 4.4                          | 1.1          | 24.1                        | 5.9          | 12.8           | 0.2              | 5.0                          | 22.3                        | 60.2           | 2.4              |
| 68                   | 3.9                          | 0.9          | 22.8                        | 5.3          | 11.3           | 0.3              | 4.4                          | 22.2                        | 52.3           | 2.3              |
| 80a                  | 2.9                          | 0.7          | 17.0                        | 4.0          | 8.4            | 0.2              | 4.1                          | 21.8                        | 48.5           | 2.2              |
| 139                  | 3.1                          | 0.4          | 16.6                        | 2.4          | 4.8            | 0.2              | 3.7                          | 14.4                        | 44.0           | 2.1              |
| 158                  | 4.8                          | 0.6          | 25.9                        | 3.3          | 6.7            | 0.1              | 4.0                          | 14.0                        | 47.8           | 2.2              |
| 231                  | 3.0                          | 0.7          | 17.6                        | 4.1          | 8.7            | 0.2              | 4.1                          | 21.8                        | 48.9           | 2.2              |
| 263                  | 1.4                          | 0.1          | 8.2                         | 0.5          | 1.0            | 0.0              | 4.7                          | 21.3                        | 57.7           | 2.3              |
| 1p                   | 5.6                          | 1.2          | 30.7                        | 6.6          | 14.4           | 0.4              | 4.5                          | 19.3                        | 53.8           | 2.3              |
| 1r                   | 75.5                         | 20.7         | 420.6                       | 117.0        | 412.5          | 10.7             | 23.9                         | 102.2                       | 451.8          | 12.6             |
| 1s                   | 28.3                         | 6.0          | 154.1                       | 34.4         | 85.6           | 2.9              | 9.3                          | 52.3                        | 125.2          | 4.8              |
| 1v                   | 10.4                         | 1.8          | 56.4                        | 10.2         | 21.5           | 1.0              | 5.0                          | 15.3                        | 60.3           | 2.9              |
| 1w                   | 53.0                         | 11.6         | 298.1                       | 66.4         | 197.6          | 5.3              | 14.8                         | 76.5                        | 236.8          | 7.2              |
| 1x                   | 87.8                         | 17.8         | 544.3                       | 107.8        | 363.0          | 10.4             | 21.1                         | 90.7                        | 401.9          | 12.4             |
| 1z                   | 4.6                          | 0.6          | 24.3                        | 3.2          | 6.3            | 0.1              | 3.9                          | 12.6                        | 46.6           | 2.1              |
| 1ab                  | 5.1                          | 0.6          | 26.9                        | 3.5          | 6.9            | 0.1              | 4.0                          | 13.1                        | 47.4           | 2.1              |
| 1ac                  | 4.5                          | 1.1          | 25.1                        | 6.1          | 13.2           | 0.3              | 4.9                          | 22.5                        | 59.2           | 2.4              |
| 1ae                  | 6.3                          | 1.6          | 35.1                        | 8.9          | 19.6           | 0.4              | 5.3                          | 23.5                        | 63.9           | 2.5              |
| 1af                  | 4.6                          | 1.1          | 25.8                        | 6.3          | 13.6           | 0.3              | 4.6                          | 22.4                        | 55.7           | 2.3              |
| 1ah                  | 4.0                          | 1.0          | 23.4                        | 5.5          | 11.8           | 0.3              | 4.4                          | 22.1                        | 52.6           | 2.3              |
| 1aj                  | 3.9                          | 1.0          | 23.1                        | 5.4          | 11.6           | 0.3              | 4.4                          | 22.1                        | 52.4           | 2.3              |
| 1ak                  | 3.9                          | 1.0          | 22.9                        | 5.4          | 11.5           | 0.3              | 4.4                          | 22.1                        | 52.3           | 2.3              |
| 1am                  | 3.7                          | 0.9          | 20.7                        | 5.2          | 11.1           | 0.3              | 4.3                          | 21.5                        | 51.2           | 2.3              |
| 1bb                  | 5.1                          | 1.2          | 28.3                        | 6.7          | 14.6           | 0.4              | 4.7                          | 22.2                        | 56.0           | 2.3              |
| 1be                  | 10.9                         | 1.2          | 57.2                        | 6.6          | 13.6           | 0.4              | 4.6                          | 15.8                        | 55.1           | 2.4              |
| 2i                   | 5.1                          | 1.2          | 28.2                        | 6.8          | 14.8           | 0.3              | 4.8                          | 22.5                        | 57.2           | 2.4              |
| 35                   | 3.8                          | 0.9          | 21.9                        | 5.0          | 10.8           | 0.3              | 4.4                          | 22.4                        | 52.7           | 2.3              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 35b         | 3.8                          | 0.9          | 22.2                        | 5.0          | 10.8           | 0.3              | 4.4                          | 22.4                        | 52.6           | 2.3              |
| 257         | 0.9                          | 0.1          | 5.1                         | 0.5          | 0.8            | 0.0              | 4.8                          | 23.3                        | 58.7           | 2.2              |
| 246         | 1.0                          | 0.1          | 4.6                         | 0.6          | 1.0            | 0.0              | 7.3                          | 50.5                        | 94.0           | 2.5              |
| 246b        | 1.0                          | 0.1          | 4.6                         | 0.6          | 1.0            | 0.0              | 7.2                          | 49.9                        | 92.6           | 2.5              |
| 2b          | 9.3                          | 2.0          | 52.5                        | 11.5         | 24.9           | 0.4              | 6.3                          | 28.2                        | 77.5           | 2.7              |
| 2d          | 3.1                          | 0.7          | 17.7                        | 3.7          | 7.8            | 0.2              | 4.2                          | 22.5                        | 49.9           | 2.3              |
| 2e          | 7.9                          | 2.0          | 44.5                        | 11.0         | 24.2           | 0.5              | 5.7                          | 25.3                        | 69.6           | 2.6              |
| 2n          | 1.1                          | 0.1          | 5.0                         | 0.6          | 1.1            | 0.0              | 7.8                          | 56.9                        | 102.1          | 2.6              |
| 2o          | 0.9                          | 0.1          | 4.1                         | 0.5          | 1.0            | 0.0              | 6.2                          | 39.7                        | 79.0           | 2.4              |
| 2p          | 0.9                          | 0.1          | 4.0                         | 0.5          | 0.9            | 0.0              | 6.1                          | 38.4                        | 77.2           | 2.3              |
| 2r          | 0.9                          | 0.1          | 4.0                         | 0.5          | 1.0            | 0.0              | 6.1                          | 38.6                        | 77.1           | 2.3              |
| 2s          | 0.9                          | 0.1          | 4.0                         | 0.5          | 1.0            | 0.0              | 6.0                          | 38.6                        | 76.8           | 2.3              |
| 2w          | 0.9                          | 0.1          | 4.5                         | 0.5          | 0.9            | 0.0              | 5.0                          | 26.6                        | 62.4           | 2.2              |
| 2x          | 3.8                          | 0.9          | 21.3                        | 5.1          | 10.9           | 0.2              | 5.4                          | 23.6                        | 66.3           | 2.5              |
| 2y          | 4.0                          | 1.0          | 22.3                        | 5.3          | 11.4           | 0.2              | 5.4                          | 23.6                        | 66.2           | 2.5              |
| 2z          | 4.0                          | 1.0          | 22.5                        | 5.4          | 11.6           | 0.2              | 5.4                          | 23.2                        | 65.5           | 2.4              |
| 2aa         | 4.2                          | 1.0          | 23.6                        | 5.6          | 11.9           | 0.2              | 5.4                          | 23.8                        | 66.6           | 2.5              |
| 2ab         | 4.1                          | 1.0          | 22.6                        | 5.5          | 11.7           | 0.2              | 5.4                          | 23.1                        | 65.2           | 2.4              |
| 2ad         | 4.2                          | 1.0          | 23.1                        | 5.6          | 12.0           | 0.2              | 5.3                          | 23.0                        | 64.7           | 2.4              |
| 2af         | 4.1                          | 1.0          | 22.9                        | 5.6          | 12.0           | 0.2              | 5.3                          | 22.6                        | 63.7           | 2.4              |
| 2ai         | 6.2                          | 1.4          | 35.3                        | 7.8          | 16.5           | 0.3              | 6.1                          | 28.6                        | 75.5           | 2.7              |
| 2aj         | 4.8                          | 1.2          | 26.8                        | 6.5          | 14.1           | 0.3              | 5.2                          | 22.8                        | 62.7           | 2.4              |
| 2al         | 9.4                          | 2.1          | 53.4                        | 11.7         | 25.2           | 0.4              | 6.3                          | 28.7                        | 78.3           | 2.7              |
| 2am         | 4.0                          | 1.0          | 22.3                        | 5.5          | 11.8           | 0.2              | 5.2                          | 22.4                        | 63.3           | 2.4              |
| 2an         | 0.9                          | 0.1          | 3.8                         | 0.5          | 0.9            | 0.0              | 5.9                          | 37.2                        | 75.1           | 2.3              |
| 2ao         | 0.9                          | 0.1          | 3.9                         | 0.5          | 0.9            | 0.0              | 6.0                          | 37.8                        | 76.0           | 2.3              |
| 300         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.1                        | 54.4           | 2.1              |
| 298         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.6                          | 22.0                        | 55.6           | 2.1              |
| 296a        | 0.7                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 4.9                          | 24.6                        | 59.1           | 2.1              |
| 296b        | 0.7                          | 0.1          | 2.7                         | 0.3          | 0.5            | 0.0              | 4.8                          | 23.6                        | 57.7           | 2.1              |
| 487         | 0.7                          | 0.1          | 3.1                         | 0.4          | 0.6            | 0.0              | 5.5                          | 30.8                        | 67.4           | 2.2              |
| 488a        | 0.8                          | 0.1          | 3.6                         | 0.4          | 0.8            | 0.0              | 6.9                          | 45.2                        | 85.1           | 2.4              |
| 488b        | 0.9                          | 0.1          | 3.8                         | 0.4          | 0.8            | 0.0              | 6.4                          | 40.5                        | 79.7           | 2.3              |
| 7           | 3.3                          | 0.8          | 18.1                        | 4.5          | 9.5            | 0.2              | 5.4                          | 23.1                        | 65.3           | 2.4              |
| 211         | 2.6                          | 0.6          | 15.2                        | 3.5          | 7.4            | 0.1              | 4.8                          | 19.7                        | 56.9           | 2.3              |
| 299         | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.6                          | 21.7                        | 55.3           | 2.1              |
| 487b        | 0.8                          | 0.1          | 3.2                         | 0.4          | 0.7            | 0.0              | 5.5                          | 30.8                        | 67.1           | 2.2              |
| 5f          | 3.4                          | 0.8          | 18.9                        | 4.7          | 9.8            | 0.2              | 5.4                          | 23.3                        | 65.7           | 2.4              |
| 5g          | 3.6                          | 0.9          | 20.0                        | 4.9          | 10.3           | 0.2              | 5.4                          | 23.5                        | 66.1           | 2.4              |
| 5i          | 0.6                          | 0.1          | 2.5                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.2                        | 54.5           | 2.1              |
| 5j          | 0.4                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.2                        | 44.2           | 2.0              |
| 5k          | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 4.7                          | 22.3                        | 56.1           | 2.1              |
| 5l          | 0.7                          | 0.1          | 2.9                         | 0.3          | 0.6            | 0.0              | 5.0                          | 26.0                        | 60.8           | 2.1              |
| 5m          | 1.0                          | 0.1          | 4.3                         | 0.5          | 1.0            | 0.0              | 10.8                         | 88.9                        | 137.0          | 3.0              |
| 5p          | 1.0                          | 0.1          | 4.4                         | 0.5          | 1.0            | 0.0              | 8.0                          | 57.4                        | 101.4          | 2.6              |
| 5r          | 1.7                          | 0.3          | 8.4                         | 1.5          | 2.9            | 0.0              | 14.3                         | 139.0                       | 202.2          | 3.5              |
| 5t          | 1.8                          | 0.4          | 9.6                         | 2.0          | 4.0            | 0.1              | 7.8                          | 56.6                        | 104.2          | 2.5              |
| 5v          | 0.6                          | 0.1          | 2.9                         | 0.3          | 0.5            | 0.0              | 4.2                          | 17.9                        | 50.4           | 2.1              |
| 5x          | 0.6                          | 0.1          | 3.0                         | 0.3          | 0.5            | 0.0              | 4.2                          | 18.1                        | 50.7           | 2.1              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 5y          | 1.8                          | 0.5          | 10.6                        | 2.5          | 5.1            | 0.1              | 5.1                          | 20.4                        | 61.2           | 2.3              |
| 5z          | 1.8                          | 0.5          | 10.3                        | 2.5          | 5.1            | 0.1              | 5.1                          | 19.7                        | 60.3           | 2.2              |
| 5aa         | 1.9                          | 0.5          | 10.5                        | 2.5          | 5.2            | 0.1              | 5.1                          | 20.0                        | 60.8           | 2.3              |
| 5ab         | 1.7                          | 0.4          | 8.8                         | 2.2          | 4.5            | 0.1              | 4.8                          | 17.3                        | 56.3           | 2.2              |
| 5ad         | 1.8                          | 0.4          | 9.8                         | 2.3          | 4.7            | 0.1              | 4.8                          | 17.0                        | 55.6           | 2.2              |
| 5af         | 1.7                          | 0.4          | 9.1                         | 2.2          | 4.6            | 0.1              | 4.8                          | 17.1                        | 55.8           | 2.2              |
| 5ag         | 0.4                          | 0.0          | 1.9                         | 0.2          | 0.4            | 0.0              | 4.4                          | 20.1                        | 51.9           | 2.0              |
| 5ah         | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.1                        | 44.7           | 2.0              |
| 5ai         | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 4.1                          | 16.9                        | 48.8           | 2.0              |
| 5aj         | 0.7                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 5.7                          | 33.2                        | 69.1           | 2.2              |
| 5ak         | 0.7                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 5.7                          | 32.5                        | 68.9           | 2.2              |
| 5al         | 0.5                          | 0.0          | 1.9                         | 0.2          | 0.4            | 0.0              | 4.0                          | 16.3                        | 47.7           | 2.0              |
| 5am         | 1.2                          | 0.2          | 5.8                         | 0.8          | 1.6            | 0.0              | 18.7                         | 181.5                       | 255.6          | 4.0              |
| 3a          | 1.4                          | 0.2          | 7.6                         | 0.9          | 1.6            | 0.0              | 3.6                          | 15.7                        | 43.1           | 2.1              |
| 3b          | 1.4                          | 0.2          | 7.7                         | 0.9          | 1.6            | 0.0              | 3.5                          | 15.6                        | 42.8           | 2.1              |
| 3c          | 3.9                          | 0.5          | 20.6                        | 2.7          | 5.3            | 0.1              | 3.8                          | 13.2                        | 45.4           | 2.1              |
| 3d          | 1.4                          | 0.2          | 7.5                         | 0.8          | 1.5            | 0.0              | 3.5                          | 15.9                        | 43.0           | 2.1              |
| 3e          | 1.4                          | 0.2          | 7.4                         | 0.8          | 1.5            | 0.0              | 3.5                          | 15.9                        | 42.9           | 2.1              |
| 3f          | 1.3                          | 0.1          | 7.1                         | 0.8          | 1.4            | 0.0              | 3.5                          | 16.0                        | 42.6           | 2.1              |
| 3g          | 3.6                          | 0.4          | 19.4                        | 2.3          | 4.5            | 0.1              | 3.6                          | 13.4                        | 42.9           | 2.1              |
| 3i          | 1.7                          | 0.2          | 10.0                        | 0.9          | 1.7            | 0.0              | 3.3                          | 14.3                        | 39.4           | 2.0              |
| 3j          | 1.0                          | 0.1          | 5.4                         | 0.6          | 1.1            | 0.0              | 3.3                          | 19.8                        | 40.5           | 2.0              |
| 3k          | 3.9                          | 0.4          | 21.4                        | 2.3          | 4.6            | 0.1              | 3.6                          | 13.8                        | 42.4           | 2.1              |
| 3m          | 5.5                          | 1.0          | 31.7                        | 5.7          | 13.3           | 0.3              | 5.3                          | 22.9                        | 68.8           | 2.9              |
| 3n          | 2.3                          | 0.2          | 12.7                        | 1.2          | 2.3            | 0.0              | 3.3                          | 14.3                        | 39.7           | 2.0              |
| 3o          | 3.7                          | 0.7          | 21.6                        | 4.2          | 9.7            | 0.3              | 4.1                          | 16.9                        | 50.7           | 2.4              |
| 3p          | 3.8                          | 0.8          | 22.3                        | 4.9          | 11.4           | 0.4              | 4.3                          | 18.5                        | 54.5           | 2.6              |
| 3r          | 2.0                          | 0.4          | 11.2                        | 2.3          | 5.1            | 0.1              | 3.6                          | 15.8                        | 43.7           | 2.1              |
| 3s          | 2.1                          | 0.5          | 11.8                        | 2.7          | 6.0            | 0.2              | 3.7                          | 16.1                        | 45.3           | 2.2              |
| 3t          | 3.8                          | 0.4          | 21.0                        | 2.2          | 4.4            | 0.1              | 3.5                          | 13.8                        | 42.2           | 2.1              |
| 3u          | 3.7                          | 0.4          | 20.1                        | 2.1          | 4.1            | 0.1              | 3.5                          | 13.7                        | 41.9           | 2.0              |
| 3v          | 8.4                          | 1.0          | 46.6                        | 5.7          | 12.4           | 0.2              | 4.7                          | 17.6                        | 58.2           | 2.4              |
| 274         | 0.8                          | 0.1          | 2.3                         | 0.5          | 1.1            | 0.0              | 3.7                          | 15.1                        | 45.4           | 2.1              |
| 7_416       | 0.6                          | 0.1          | 1.6                         | 0.3          | 0.6            | 0.0              | 3.6                          | 14.9                        | 43.8           | 2.1              |
| 7_463       | 0.4                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.9                        | 41.8           | 2.0              |
| 7b          | 0.4                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.4                          | 9.6                         | 41.1           | 2.0              |
| 7c          | 0.4                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 9.6                         | 41.1           | 2.0              |
| 7d          | 0.5                          | 0.0          | 2.3                         | 0.2          | 0.3            | 0.0              | 3.7                          | 12.1                        | 44.3           | 2.1              |
| 7e          | 0.7                          | 0.0          | 2.1                         | 0.2          | 0.3            | 0.0              | 3.6                          | 11.9                        | 43.6           | 2.1              |
| 7f          | 0.5                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.7                        | 42.3           | 2.0              |
| 7h          | 1.0                          | 0.1          | 2.7                         | 0.5          | 1.0            | 0.0              | 3.8                          | 15.2                        | 46.3           | 2.1              |
| 7i          | 0.7                          | 0.1          | 2.0                         | 0.4          | 0.7            | 0.0              | 3.7                          | 15.0                        | 44.8           | 2.1              |
| 7j          | 0.9                          | 0.1          | 2.7                         | 0.6          | 1.3            | 0.1              | 3.8                          | 15.3                        | 46.6           | 2.2              |
| 7k          | 0.6                          | 0.1          | 2.5                         | 0.7          | 1.4            | 0.1              | 3.6                          | 14.3                        | 43.5           | 2.1              |
| 7l          | 0.4                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.4                          | 9.6                         | 41.1           | 2.0              |
| 7m          | 1.0                          | 0.1          | 3.0                         | 0.5          | 1.0            | 0.0              | 3.9                          | 15.3                        | 47.2           | 2.2              |
| 7n          | 0.7                          | 0.1          | 3.9                         | 0.6          | 1.1            | 0.0              | 3.7                          | 18.5                        | 47.7           | 2.4              |
| 7o          | 0.5                          | 0.1          | 2.9                         | 0.4          | 0.8            | 0.0              | 3.6                          | 17.7                        | 47.5           | 2.3              |
| 8b          | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 9.5                         | 39.8           | 2.0              |





| Receptor ID                    | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                                | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                                | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                                | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 8c                             | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 9.4                         | 39.8           | 2.0              |
| 8e                             | 0.4                          | 0.0          | 1.4                         | 0.1          | 0.2            | 0.0              | 3.4                          | 8.9                         | 40.8           | 2.0              |
| 8f                             | 0.5                          | 0.0          | 1.7                         | 0.1          | 0.2            | 0.0              | 3.5                          | 9.6                         | 41.7           | 2.0              |
| 8h                             | 0.7                          | 0.0          | 2.0                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.6                        | 43.1           | 2.1              |
| 8i                             | 0.5                          | 0.0          | 1.4                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.6                        | 42.0           | 2.0              |
| 8j                             | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.3                          | 9.5                         | 39.8           | 2.0              |
| 8k                             | 0.4                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.4                          | 8.9                         | 40.8           | 2.0              |
| 8l                             | 0.7                          | 0.0          | 1.9                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.6                        | 43.0           | 2.0              |
| 8m                             | 0.7                          | 0.0          | 2.0                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.6                        | 43.0           | 2.0              |
| 8n                             | 0.5                          | 0.0          | 1.4                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.6                        | 42.0           | 2.0              |
| 8o                             | 0.4                          | 0.0          | 1.6                         | 0.1          | 0.2            | 0.0              | 3.4                          | 8.5                         | 40.9           | 2.0              |
| 8p                             | 0.4                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.4                          | 8.5                         | 40.9           | 2.0              |
| Mal1                           | 0.5                          | 0.1          | 2.7                         | 0.5          | 0.9            | 0.0              | 6.2                          | 16.7                        | 49.3           | 2.1              |
| Mal2                           | 0.5                          | 0.1          | 2.4                         | 0.4          | 0.7            | 0.0              | 4.3                          | 12.9                        | 42.7           | 2.0              |
| Mal3                           | 0.5                          | 0.1          | 2.6                         | 0.5          | 0.9            | 0.0              | 4.9                          | 14.2                        | 45.2           | 2.1              |
| Council/ State-owned receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 286e                           | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.9            | 0.0              | 3.7                          | 11.5                        | 40.8           | 2.0              |
| 286f                           | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 3.6                          | 11.1                        | 40.3           | 2.0              |
| UHSC1                          | 0.6                          | 0.0          | 3.2                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.1                        | 36.6           | 2.0              |
| N1                             | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N2                             | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N3                             | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.1              |
| N4                             | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.4           | 2.1              |
| N5                             | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N6                             | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N7                             | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| N8                             | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| N9                             | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| N10                            | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.1                        | 39.0           | 2.1              |
| N11                            | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| N12                            | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| N13                            | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.2           | 2.0              |
| N14                            | 0.8                          | 0.1          | 4.9                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| N15                            | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N16                            | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N17                            | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N18                            | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| N19                            | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N20                            | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.6            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N21                            | 0.9                          | 0.1          | 5.1                         | 0.4          | 0.6            | 0.0              | 3.3                          | 18.3                        | 39.1           | 2.1              |
| N22                            | 0.8                          | 0.1          | 4.1                         | 0.6          | 1.1            | 0.0              | 3.5                          | 15.7                        | 42.9           | 2.2              |
| N23                            | 0.7                          | 0.1          | 4.1                         | 0.6          | 1.1            | 0.0              | 3.5                          | 15.7                        | 43.0           | 2.2              |
| N24                            | 0.7                          | 0.1          | 4.1                         | 0.6          | 1.1            | 0.0              | 3.5                          | 15.8                        | 43.0           | 2.2              |
| N25                            | 0.6                          | 0.1          | 3.5                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.9                        | 43.3           | 2.2              |
| N26                            | 0.6                          | 0.1          | 3.4                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.9                        | 43.2           | 2.2              |
| N27                            | 0.6                          | 0.1          | 3.4                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.9                        | 43.2           | 2.2              |
| Aged care receptors            |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 658a                           | 2.8                          | 0.6          | 15.9                        | 3.1          | 6.5            | 0.2              | 4.0                          | 21.9                        | 47.7           | 2.3              |
| 658b                           | 2.7                          | 0.5          | 15.3                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.8                        | 47.3           | 2.3              |



| Receptor ID                        | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|------------------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                    | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                                    | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                                    | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                                    | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 658c                               | 2.6                          | 0.5          | 15.3                        | 2.9          | 6.1            | 0.2              | 4.0                          | 21.8                        | 47.3           | 2.3              |
| 658d                               | 2.7                          | 0.5          | 15.3                        | 3.0          | 6.1            | 0.2              | 4.0                          | 21.8                        | 47.4           | 2.3              |
| 658e                               | 2.7                          | 0.5          | 15.4                        | 3.0          | 6.2            | 0.2              | 4.0                          | 21.9                        | 47.4           | 2.3              |
| Prison receptors                   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| MP1                                | 0.6                          | 0.1          | 3.4                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.8                        | 43.7           | 2.2              |
| MP42                               | 0.6                          | 0.1          | 3.3                         | 0.4          | 0.8            | 0.0              | 3.5                          | 15.6                        | 44.3           | 2.2              |
| MP80                               | 0.6                          | 0.1          | 3.0                         | 0.4          | 0.8            | 0.0              | 3.5                          | 15.1                        | 44.7           | 2.2              |
| Commercial accommodation receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 622b                               | 2.8                          | 0.6          | 15.8                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.3                        | 48.2           | 2.3              |
| 622c                               | 2.8                          | 0.6          | 15.8                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622d                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.3                        | 48.2           | 2.3              |
| 622e                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.3                        | 48.2           | 2.3              |
| 622f                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.3                        | 48.1           | 2.3              |
| 622g                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.3                        | 48.1           | 2.3              |
| 622h                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622i                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622j                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622k                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622l                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622m                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622n                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622o                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622p                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622q                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622r                               | 2.8                          | 0.6          | 15.5                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.4                        | 48.3           | 2.3              |
| 622s                               | 2.7                          | 0.6          | 15.4                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622t                               | 2.7                          | 0.6          | 15.4                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.4                        | 48.2           | 2.3              |
| 622u                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.6                        | 48.5           | 2.3              |
| 622v                               | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.5           | 2.3              |
| 622w                               | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.4                        | 48.1           | 2.3              |
| 622x                               | 2.8                          | 0.6          | 15.6                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.6                        | 48.5           | 2.3              |
| 622y                               | 2.8                          | 0.6          | 15.5                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.5                        | 48.4           | 2.3              |
| 622z                               | 2.7                          | 0.6          | 15.4                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.5                        | 48.3           | 2.3              |
| 622aa                              | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.5                        | 48.3           | 2.3              |
| 622ab                              | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.5                        | 48.2           | 2.3              |
| 622ac                              | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.5           | 2.3              |
| 622ad                              | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.5           | 2.3              |
| 622ae                              | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.5           | 2.3              |
| 622af                              | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.4           | 2.3              |
| 622ag                              | 2.8                          | 0.6          | 15.7                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.5                        | 48.4           | 2.3              |
| 975                                | 0.9                          | 0.1          | 5.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| Commercial receptors               |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 6                                  | 3.1                          | 0.8          | 17.3                        | 4.4          | 9.2            | 0.2              | 5.3                          | 22.4                        | 64.1           | 2.4              |
| 195e                               | 1.4                          | 0.2          | 8.2                         | 1.2          | 2.3            | 0.1              | 3.5                          | 15.5                        | 41.5           | 2.0              |
| 140b-1                             | 1.7                          | 0.3          | 9.1                         | 1.7          | 3.4            | 0.1              | 3.5                          | 18.5                        | 42.6           | 2.1              |
| 140b-2                             | 1.7                          | 0.3          | 9.0                         | 1.7          | 3.4            | 0.1              | 3.6                          | 18.5                        | 42.6           | 2.1              |
| 140b-3                             | 1.7                          | 0.3          | 9.0                         | 1.6          | 3.3            | 0.1              | 3.5                          | 18.5                        | 42.5           | 2.1              |
| 140b-4                             | 1.8                          | 0.3          | 9.2                         | 1.7          | 3.4            | 0.1              | 3.5                          | 18.4                        | 42.6           | 2.1              |
| 202c                               | 2.4                          | 0.4          | 13.2                        | 2.1          | 4.2            | 0.2              | 3.6                          | 17.8                        | 43.0           | 2.1              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 202d        | 2.5                          | 0.4          | 13.8                        | 2.1          | 4.4            | 0.2              | 3.6                          | 17.7                        | 43.2           | 2.1              |
| 202e        | 2.5                          | 0.4          | 13.7                        | 2.1          | 4.3            | 0.2              | 3.6                          | 17.6                        | 43.1           | 2.1              |
| 202f        | 2.5                          | 0.4          | 13.4                        | 2.0          | 4.2            | 0.2              | 3.6                          | 17.6                        | 43.0           | 2.1              |
| 202g        | 2.5                          | 0.4          | 13.5                        | 2.1          | 4.2            | 0.2              | 3.6                          | 17.7                        | 43.0           | 2.1              |
| 472d        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.1                        | 44.3           | 2.0              |
| 472e        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.0                        | 44.2           | 2.0              |
| 472f        | 0.5                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.4                        | 44.6           | 2.0              |
| 472g        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.5                        | 44.7           | 2.0              |
| 472h        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.4                        | 44.6           | 2.0              |
| 472i        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.3                        | 44.5           | 2.0              |
| 472j        | 0.5                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.1                        | 44.3           | 2.0              |
| 472k        | 0.5                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.0                        | 44.2           | 2.0              |
| 472l        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.8                          | 13.9                        | 44.9           | 2.0              |
| 472m        | 0.5                          | 0.0          | 1.8                         | 0.2          | 0.3            | 0.0              | 3.7                          | 13.7                        | 44.8           | 2.0              |
| 489         | 2.3                          | 0.4          | 11.9                        | 2.4          | 4.9            | 0.1              | 9.4                          | 79.5                        | 136.7          | 3.0              |
| 540         | 2.7                          | 0.6          | 15.1                        | 3.3          | 7.0            | 0.2              | 4.2                          | 22.9                        | 49.7           | 2.3              |
| 546a        | 3.0                          | 0.7          | 15.9                        | 3.7          | 7.9            | 0.2              | 4.3                          | 22.7                        | 51.3           | 2.3              |
| 546b        | 2.9                          | 0.7          | 15.6                        | 3.7          | 7.7            | 0.2              | 4.3                          | 22.8                        | 51.0           | 2.3              |
| 546c        | 2.9                          | 0.7          | 15.6                        | 3.7          | 7.7            | 0.2              | 4.3                          | 22.8                        | 51.0           | 2.3              |
| 617b        | 2.7                          | 0.6          | 15.2                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.7                        | 48.5           | 2.3              |
| 617c        | 2.8                          | 0.6          | 15.6                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.6                        | 48.7           | 2.3              |
| 617d        | 2.8                          | 0.6          | 15.5                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.7                        | 48.7           | 2.3              |
| 617e        | 2.8                          | 0.6          | 15.6                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.7                        | 48.8           | 2.3              |
| 617f        | 2.8                          | 0.6          | 15.6                        | 3.2          | 6.6            | 0.2              | 4.1                          | 22.7                        | 48.8           | 2.3              |
| 617g        | 2.7                          | 0.6          | 15.2                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.7                        | 48.5           | 2.3              |
| 617h        | 2.8                          | 0.6          | 15.3                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.7                        | 48.6           | 2.3              |
| 617i        | 2.8                          | 0.6          | 15.4                        | 3.1          | 6.5            | 0.2              | 4.1                          | 22.7                        | 48.6           | 2.3              |
| 620         | 2.7                          | 0.5          | 15.0                        | 3.0          | 6.2            | 0.2              | 4.1                          | 22.5                        | 48.1           | 2.3              |
| 622ah       | 2.8                          | 0.6          | 15.5                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.5                        | 48.4           | 2.3              |
| 622ai       | 2.8                          | 0.6          | 15.5                        | 3.1          | 6.4            | 0.2              | 4.1                          | 22.5                        | 48.3           | 2.3              |
| 611aj       | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.5                        | 48.2           | 2.3              |
| 622ak       | 2.7                          | 0.6          | 15.3                        | 3.0          | 6.3            | 0.2              | 4.1                          | 22.4                        | 48.1           | 2.3              |
| 625         | 2.7                          | 0.5          | 15.1                        | 2.9          | 6.1            | 0.2              | 4.1                          | 22.4                        | 47.9           | 2.3              |
| 629         | 2.7                          | 0.5          | 14.9                        | 2.9          | 6.0            | 0.2              | 4.1                          | 22.4                        | 47.9           | 2.3              |
| 626         | 2.7                          | 0.5          | 14.9                        | 2.9          | 6.1            | 0.2              | 4.1                          | 22.5                        | 48.0           | 2.3              |
| 627         | 2.7                          | 0.5          | 14.9                        | 2.9          | 6.1            | 0.2              | 4.1                          | 22.4                        | 48.0           | 2.3              |
| 628         | 2.7                          | 0.5          | 14.9                        | 2.9          | 6.1            | 0.2              | 4.1                          | 22.4                        | 47.9           | 2.3              |
| 630a        | 2.6                          | 0.5          | 14.4                        | 2.8          | 5.7            | 0.2              | 4.0                          | 22.1                        | 47.3           | 2.3              |
| 630b        | 2.6                          | 0.5          | 14.9                        | 2.9          | 6.0            | 0.2              | 4.0                          | 22.3                        | 47.7           | 2.3              |
| 630c        | 2.6                          | 0.5          | 14.8                        | 2.9          | 6.0            | 0.2              | 4.0                          | 22.4                        | 47.7           | 2.3              |
| 630d        | 2.6                          | 0.5          | 14.6                        | 2.8          | 5.9            | 0.2              | 4.0                          | 22.2                        | 47.5           | 2.3              |
| 656         | 2.7                          | 0.6          | 15.6                        | 3.0          | 6.3            | 0.2              | 4.0                          | 21.9                        | 47.6           | 2.3              |
| 674a        | 2.8                          | 0.6          | 16.5                        | 3.3          | 6.9            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.3              |
| 674b        | 2.9                          | 0.6          | 16.8                        | 3.4          | 7.1            | 0.2              | 4.0                          | 21.9                        | 48.0           | 2.3              |
| 818a        | 2.1                          | 0.5          | 11.5                        | 2.8          | 5.9            | 0.2              | 3.8                          | 20.0                        | 45.5           | 2.2              |
| 818b        | 2.1                          | 0.5          | 11.5                        | 2.8          | 5.9            | 0.2              | 3.8                          | 20.1                        | 45.5           | 2.2              |
| 844b        | 2.0                          | 0.4          | 10.2                        | 2.2          | 4.5            | 0.2              | 3.7                          | 18.9                        | 43.8           | 2.1              |
| 872b        | 1.7                          | 0.3          | 8.8                         | 1.5          | 3.1            | 0.1              | 3.5                          | 18.3                        | 42.1           | 2.1              |
| 1085        | 0.8                          | 0.1          | 4.8                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.1           | 2.0              |

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| Receptor ID        | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                    | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                    | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                    | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                    | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 2ap                | 0.9                          | 0.1       | 4.1                         | 0.5       | 1.0            | 0.0              | 6.2                          | 40.3                        | 79.7           | 2.4              |
| 2aq                | 0.9                          | 0.1       | 4.0                         | 0.5       | 1.0            | 0.0              | 6.0                          | 38.2                        | 76.0           | 2.3              |
| 2ar                | 0.9                          | 0.1       | 3.9                         | 0.5       | 1.0            | 0.0              | 6.0                          | 38.0                        | 75.8           | 2.3              |
| 5h                 | 0.4                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.7                        | 44.8           | 2.0              |
| 5w                 | 0.6                          | 0.1       | 2.9                         | 0.3       | 0.5            | 0.0              | 4.1                          | 17.6                        | 50.2           | 2.1              |
| 5an                | 0.4                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.8                        | 44.9           | 2.0              |
| 5ao                | 0.4                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.8                          | 13.7                        | 44.8           | 2.0              |
| 5ap                | 0.6                          | 0.1       | 2.9                         | 0.3       | 0.5            | 0.0              | 4.2                          | 17.7                        | 50.3           | 2.1              |
| 8q                 | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.3                          | 9.4                         | 39.9           | 2.0              |
| Mal4               | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 16.7                         | 36.5                        | 77.4           | 2.4              |
| Mal5               | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 15.4                         | 34.8                        | 74.0           | 2.4              |
| Mal6               | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 16.3                         | 34.7                        | 76.5           | 2.4              |
| UHSC2              | 1.0                          | 0.1       | 5.3                         | 0.5       | 0.9            | 0.0              | 3.4                          | 18.7                        | 40.7           | 2.1              |
| UHSC3              | 1.0                          | 0.1       | 5.3                         | 0.5       | 0.8            | 0.0              | 3.4                          | 18.8                        | 40.8           | 2.1              |
| UHSC4              | 1.0                          | 0.1       | 5.3                         | 0.5       | 0.8            | 0.0              | 3.4                          | 18.7                        | 40.8           | 2.1              |
| N29                | 0.9                          | 0.1       | 5.2                         | 0.7       | 1.4            | 0.1              | 3.4                          | 15.6                        | 41.8           | 2.1              |
| School receptors   |                              |           |                             |           |                |                  |                              |                             |                |                  |
| N30                | 2.9                          | 0.6       | 16.6                        | 3.3       | 6.9            | 0.2              | 4.1                          | 22.0                        | 48.2           | 2.3              |
| N31                | 2.9                          | 0.6       | 16.5                        | 3.2       | 6.8            | 0.2              | 4.1                          | 22.0                        | 48.1           | 2.3              |
| N32                | 2.8                          | 0.6       | 16.4                        | 3.2       | 6.8            | 0.2              | 4.1                          | 22.0                        | 48.0           | 2.3              |
| N33                | 2.9                          | 0.6       | 16.6                        | 3.3       | 6.9            | 0.2              | 4.1                          | 22.0                        | 48.1           | 2.3              |
| Church receptors   |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 520                | 1.2                          | 0.2       | 6.3                         | 1.1       | 2.2            | 0.1              | 3.5                          | 17.0                        | 42.0           | 2.0              |
| 658b               | 2.7                          | 0.5       | 15.3                        | 3.0       | 6.2            | 0.2              | 4.0                          | 21.8                        | 47.3           | 2.3              |
| 658c               | 2.6                          | 0.5       | 15.3                        | 2.9       | 6.1            | 0.2              | 4.0                          | 21.8                        | 47.3           | 2.3              |
| 616c               | 2.7                          | 0.6       | 15.3                        | 3.1       | 6.5            | 0.2              | 4.1                          | 22.7                        | 48.7           | 2.3              |
| N34                | 0.6                          | 0.1       | 3.4                         | 0.5       | 0.9            | 0.0              | 3.5                          | 15.9                        | 43.2           | 2.2              |
| Heritage receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| H1                 | 0.3                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.4                          | 10.7                        | 40.6           | 2.0              |
| H2                 | 2.7                          | 0.5       | 15.5                        | 3.0       | 6.3            | 0.2              | 4.0                          | 21.8                        | 47.4           | 2.3              |
| H3                 | 4.9                          | 1.1       | 27.2                        | 6.3       | 13.4           | 0.2              | 5.5                          | 24.4                        | 67.5           | 2.5              |
| H4                 | 5.0                          | 1.2       | 28.4                        | 6.6       | 13.7           | 0.2              | 6.2                          | 31.2                        | 78.9           | 2.7              |
| H5                 | 5.0                          | 1.2       | 28.2                        | 6.5       | 13.5           | 0.2              | 6.2                          | 31.2                        | 78.8           | 2.7              |
| H6                 | 4.9                          | 1.2       | 28.0                        | 6.5       | 13.5           | 0.2              | 6.2                          | 31.4                        | 79.1           | 2.7              |
| H7                 | 5.1                          | 1.2       | 28.8                        | 6.7       | 13.9           | 0.2              | 6.2                          | 31.5                        | 79.3           | 2.8              |
| H8                 | 5.1                          | 1.2       | 28.9                        | 6.7       | 13.9           | 0.2              | 6.2                          | 31.6                        | 79.5           | 2.8              |
| H9                 | 5.3                          | 1.2       | 29.8                        | 6.9       | 14.3           | 0.2              | 6.3                          | 31.8                        | 79.8           | 2.8              |
| H10                | 9.2                          | 2.0       | 52.0                        | 11.4      | 24.6           | 0.4              | 6.3                          | 28.3                        | 77.5           | 2.7              |
| H11                | 2.3                          | 0.6       | 12.4                        | 3.0       | 6.3            | 0.1              | 5.0                          | 19.5                        | 59.7           | 2.3              |
| H12                | 1.8                          | 0.3       | 9.1                         | 1.7       | 3.5            | 0.1              | 10.9                         | 99.0                        | 152.3          | 2.9              |
| H13                | 1.8                          | 0.3       | 9.2                         | 1.8       | 3.5            | 0.1              | 10.6                         | 94.1                        | 148.5          | 2.9              |
| H14                | 1.8                          | 0.3       | 9.3                         | 1.8       | 3.6            | 0.1              | 10.4                         | 92.0                        | 146.6          | 2.9              |
| H15                | 1.8                          | 0.3       | 9.3                         | 1.8       | 3.6            | 0.1              | 10.2                         | 89.9                        | 143.2          | 2.9              |
| H16                | 1.8                          | 0.3       | 9.2                         | 1.8       | 3.6            | 0.1              | 10.2                         | 89.3                        | 141.6          | 2.8              |
| H17                | 1.8                          | 0.3       | 9.2                         | 1.8       | 3.6            | 0.1              | 10.1                         | 89.0                        | 140.2          | 2.8              |
| H18                | 1.8                          | 0.3       | 9.2                         | 1.8       | 3.6            | 0.1              | 9.9                          | 87.4                        | 137.9          | 2.8              |
| H19                | 0.6                          | 0.1       | 3.6                         | 0.5       | 1.0            | 0.0              | 3.5                          | 15.9                        | 43.1           | 2.2              |



Table D-3: Modelling predictions for Scenario 3

| Receptor ID               | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|---------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                           | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                           | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                           | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                           | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| Privately-owned receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 4                         | 1.3                          | 0.3          | 7.9                         | 1.9          | 4.2            | 0.1              | 4.7                          | 16.5                        | 56.3           | 2.2              |
| 19                        | 2.1                          | 0.5          | 13.4                        | 3.1          | 7.3            | 0.1              | 4.6                          | 18.7                        | 55.6           | 2.3              |
| 20                        | 2.2                          | 0.6          | 13.5                        | 3.3          | 7.7            | 0.2              | 4.6                          | 19.0                        | 56.9           | 2.3              |
| 21                        | 2.2                          | 0.6          | 13.6                        | 3.3          | 7.7            | 0.2              | 4.7                          | 19.0                        | 57.2           | 2.3              |
| 43                        | 1.0                          | 0.1          | 6.7                         | 0.7          | 1.3            | 0.0              | 7.1                          | 49.5                        | 100.9          | 3.9              |
| 43b                       | 0.6                          | 0.1          | 3.8                         | 0.4          | 0.7            | 0.0              | 4.5                          | 20.0                        | 56.9           | 2.6              |
| 47                        | 0.5                          | 0.1          | 3.1                         | 0.3          | 0.7            | 0.0              | 4.8                          | 23.2                        | 62.3           | 2.9              |
| 67                        | 3.8                          | 0.8          | 22.7                        | 4.7          | 11.7           | 0.3              | 4.2                          | 21.0                        | 52.3           | 2.3              |
| 77                        | 3.0                          | 0.7          | 18.6                        | 4.0          | 9.7            | 0.2              | 4.0                          | 21.3                        | 49.7           | 2.2              |
| 79                        | 2.8                          | 0.6          | 17.0                        | 3.5          | 8.5            | 0.2              | 3.9                          | 21.2                        | 48.4           | 2.2              |
| 82                        | 2.4                          | 0.5          | 14.3                        | 2.8          | 6.6            | 0.2              | 3.8                          | 20.6                        | 46.5           | 2.2              |
| 83                        | 2.4                          | 0.5          | 14.5                        | 2.9          | 6.9            | 0.2              | 3.8                          | 20.6                        | 46.7           | 2.2              |
| 84a                       | 2.6                          | 0.5          | 15.5                        | 3.1          | 7.5            | 0.2              | 3.9                          | 20.9                        | 47.3           | 2.2              |
| 84b                       | 0.6                          | 0.1          | 3.4                         | 0.7          | 1.5            | 0.1              | 3.4                          | 12.3                        | 41.3           | 2.1              |
| 86a                       | 3.0                          | 0.7          | 18.4                        | 4.1          | 9.8            | 0.2              | 4.0                          | 21.0                        | 49.6           | 2.2              |
| 86b                       | 2.3                          | 0.3          | 13.7                        | 1.6          | 3.6            | 0.1              | 3.5                          | 16.9                        | 42.3           | 2.1              |
| 102                       | 4.3                          | 0.9          | 24.9                        | 5.5          | 13.4           | 0.4              | 4.2                          | 19.5                        | 52.9           | 2.3              |
| 108                       | 4.6                          | 1.0          | 26.6                        | 5.9          | 14.2           | 0.4              | 4.3                          | 19.6                        | 53.7           | 2.3              |
| 112                       | 5.0                          | 1.1          | 29.2                        | 6.3          | 15.3           | 0.4              | 4.4                          | 19.9                        | 55.0           | 2.4              |
| 136                       | 4.7                          | 0.6          | 28.2                        | 3.6          | 7.8            | 0.3              | 3.9                          | 16.0                        | 46.9           | 2.3              |
| 140a                      | 2.2                          | 0.3          | 12.8                        | 1.8          | 3.9            | 0.1              | 3.5                          | 15.1                        | 42.9           | 2.1              |
| 140c                      | 2.9                          | 0.4          | 16.9                        | 2.5          | 5.6            | 0.2              | 3.6                          | 17.5                        | 44.3           | 2.1              |
| 143a                      | 2.6                          | 0.3          | 14.5                        | 1.7          | 3.5            | 0.1              | 3.5                          | 13.2                        | 42.8           | 2.1              |
| 143b                      | 3.7                          | 0.4          | 20.0                        | 2.5          | 5.2            | 0.1              | 3.7                          | 13.7                        | 45.4           | 2.1              |
| 147                       | 3.0                          | 0.4          | 17.8                        | 2.4          | 5.1            | 0.1              | 3.7                          | 13.1                        | 45.4           | 2.1              |
| 153a                      | 5.1                          | 1.2          | 30.6                        | 7.6          | 18.4           | 0.9              | 4.4                          | 14.4                        | 56.5           | 2.8              |
| 154                       | 8.4                          | 0.9          | 47.4                        | 5.1          | 11.7           | 0.2              | 4.7                          | 19.1                        | 59.4           | 2.5              |
| 156a                      | 5.6                          | 0.6          | 31.0                        | 3.5          | 7.7            | 0.1              | 4.1                          | 15.1                        | 50.3           | 2.2              |
| 156b                      | 0.4                          | 0.0          | 2.1                         | 0.2          | 0.3            | 0.0              | 3.8                          | 13.5                        | 46.4           | 2.1              |
| 157a                      | 4.1                          | 0.5          | 22.7                        | 2.9          | 6.3            | 0.1              | 3.9                          | 14.3                        | 47.5           | 2.2              |
| 157b                      | 0.4                          | 0.0          | 1.9                         | 0.1          | 0.3            | 0.0              | 3.8                          | 13.3                        | 46.0           | 2.1              |
| 159                       | 3.5                          | 0.4          | 19.3                        | 2.5          | 5.4            | 0.1              | 3.8                          | 13.8                        | 46.0           | 2.1              |
| 169                       | 3.8                          | 0.4          | 21.8                        | 2.1          | 4.6            | 0.1              | 3.5                          | 14.2                        | 42.2           | 2.0              |
| 171                       | 3.2                          | 0.3          | 18.3                        | 1.7          | 3.5            | 0.1              | 3.4                          | 14.4                        | 40.8           | 2.0              |
| 172                       | 2.8                          | 0.2          | 16.0                        | 1.4          | 2.8            | 0.0              | 3.3                          | 14.7                        | 40.0           | 2.0              |
| 172b                      | 2.7                          | 0.2          | 15.7                        | 1.3          | 2.7            | 0.0              | 3.3                          | 14.7                        | 39.9           | 2.0              |
| 172c                      | 2.0                          | 0.2          | 11.3                        | 1.0          | 1.9            | 0.0              | 3.3                          | 15.3                        | 39.0           | 2.0              |
| 310                       | 2.8                          | 0.2          | 16.2                        | 1.3          | 2.8            | 0.0              | 3.3                          | 14.7                        | 40.0           | 2.0              |
| 173                       | 2.8                          | 0.2          | 15.9                        | 1.3          | 2.7            | 0.0              | 3.3                          | 14.9                        | 39.9           | 2.0              |
| 174                       | 2.9                          | 0.2          | 16.5                        | 1.3          | 2.8            | 0.0              | 3.3                          | 14.8                        | 40.0           | 2.0              |
| 175                       | 2.9                          | 0.2          | 16.8                        | 1.4          | 2.8            | 0.0              | 3.3                          | 14.8                        | 40.1           | 2.0              |
| 175b                      | 2.9                          | 0.2          | 16.9                        | 1.4          | 2.9            | 0.0              | 3.3                          | 14.8                        | 40.1           | 2.0              |
| 175c                      | 2.9                          | 0.2          | 16.9                        | 1.4          | 2.8            | 0.0              | 3.3                          | 14.8                        | 40.0           | 2.0              |
| 176                       | 3.0                          | 0.2          | 17.1                        | 1.4          | 2.9            | 0.0              | 3.3                          | 14.8                        | 40.1           | 2.0              |
| 177                       | 2.4                          | 0.2          | 13.6                        | 1.3          | 2.7            | 0.0              | 3.3                          | 15.0                        | 39.9           | 2.0              |
| 178                       | 1.8                          | 0.1          | 10.6                        | 0.8          | 1.6            | 0.0              | 3.2                          | 15.5                        | 38.7           | 2.0              |
| 179                       | 2.0                          | 0.2          | 11.5                        | 0.9          | 1.8            | 0.0              | 3.2                          | 15.3                        | 38.8           | 2.0              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 180         | 1.9                          | 0.1          | 10.9                        | 0.8          | 1.7            | 0.0              | 3.2                          | 15.4                        | 38.7           | 2.0              |
| 180b        | 1.4                          | 0.1          | 8.3                         | 0.7          | 1.4            | 0.0              | 3.2                          | 15.9                        | 38.6           | 2.0              |
| 180c        | 1.2                          | 0.1          | 6.8                         | 0.6          | 1.1            | 0.0              | 3.2                          | 15.9                        | 38.1           | 2.0              |
| 181         | 1.2                          | 0.1          | 7.4                         | 0.5          | 1.0            | 0.0              | 3.4                          | 18.4                        | 40.7           | 2.1              |
| 181c        | 1.6                          | 0.1          | 10.0                        | 0.7          | 1.4            | 0.0              | 3.3                          | 16.2                        | 39.1           | 2.0              |
| 182         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.5                        | 42.5           | 2.2              |
| 189         | 1.6                          | 0.2          | 9.5                         | 1.0          | 2.0            | 0.0              | 3.5                          | 15.6                        | 42.1           | 2.1              |
| 190         | 1.8                          | 0.2          | 10.3                        | 1.0          | 2.1            | 0.0              | 3.4                          | 15.2                        | 41.7           | 2.0              |
| 191         | 1.5                          | 0.2          | 8.8                         | 0.9          | 1.9            | 0.0              | 3.5                          | 15.8                        | 42.4           | 2.1              |
| 192         | 1.7                          | 0.2          | 9.6                         | 1.0          | 2.0            | 0.0              | 3.5                          | 15.4                        | 42.0           | 2.1              |
| 193         | 1.5                          | 0.2          | 7.9                         | 0.9          | 1.8            | 0.0              | 3.5                          | 15.8                        | 42.1           | 2.1              |
| 193c        | 1.0                          | 0.1          | 6.2                         | 0.7          | 1.5            | 0.0              | 3.4                          | 16.0                        | 41.8           | 2.1              |
| 194         | 1.3                          | 0.2          | 7.7                         | 1.0          | 2.0            | 0.1              | 3.4                          | 15.7                        | 41.6           | 2.1              |
| 195         | 1.6                          | 0.2          | 9.2                         | 1.1          | 2.3            | 0.1              | 3.4                          | 15.9                        | 41.6           | 2.1              |
| 196         | 1.9                          | 0.2          | 11.4                        | 1.3          | 2.7            | 0.1              | 3.4                          | 16.4                        | 41.6           | 2.1              |
| 204         | 2.0                          | 0.2          | 11.9                        | 1.3          | 2.9            | 0.1              | 3.4                          | 16.6                        | 41.7           | 2.1              |
| 198         | 2.2                          | 0.3          | 12.7                        | 1.5          | 3.4            | 0.1              | 3.5                          | 17.0                        | 42.1           | 2.1              |
| 198b        | 2.2                          | 0.3          | 13.0                        | 1.6          | 3.4            | 0.1              | 3.5                          | 17.0                        | 42.1           | 2.1              |
| 199         | 2.1                          | 0.3          | 12.1                        | 1.5          | 3.2            | 0.1              | 3.5                          | 17.0                        | 41.9           | 2.1              |
| 200         | 1.9                          | 0.2          | 11.1                        | 1.4          | 2.9            | 0.1              | 3.4                          | 16.9                        | 41.7           | 2.1              |
| 202         | 2.4                          | 0.4          | 13.4                        | 2.1          | 4.8            | 0.2              | 3.6                          | 17.8                        | 43.5           | 2.1              |
| 202b        | 1.9                          | 0.3          | 10.6                        | 1.8          | 3.9            | 0.1              | 3.5                          | 17.9                        | 42.6           | 2.1              |
| 203         | 2.5                          | 0.4          | 14.4                        | 2.3          | 5.1            | 0.2              | 3.6                          | 17.8                        | 43.8           | 2.1              |
| 203b        | 2.5                          | 0.4          | 14.0                        | 2.2          | 5.0            | 0.2              | 3.6                          | 17.8                        | 43.7           | 2.1              |
| 203c        | 2.5                          | 0.4          | 14.4                        | 2.3          | 5.1            | 0.2              | 3.6                          | 17.7                        | 43.7           | 2.1              |
| 206         | 2.4                          | 0.5          | 12.9                        | 2.9          | 6.9            | 0.1              | 4.3                          | 20.0                        | 52.1           | 2.3              |
| 207         | 2.2                          | 0.5          | 13.4                        | 3.0          | 7.2            | 0.1              | 4.5                          | 19.0                        | 54.1           | 2.3              |
| 212         | 2.0                          | 0.4          | 12.2                        | 2.5          | 5.9            | 0.1              | 4.4                          | 18.0                        | 53.5           | 2.3              |
| 212b        | 2.0                          | 0.4          | 12.0                        | 2.5          | 5.8            | 0.1              | 4.5                          | 17.9                        | 53.6           | 2.3              |
| 213         | 2.0                          | 0.5          | 12.6                        | 2.9          | 6.7            | 0.1              | 4.6                          | 18.2                        | 55.4           | 2.3              |
| 214         | 2.0                          | 0.5          | 12.6                        | 2.9          | 6.7            | 0.1              | 4.6                          | 18.2                        | 55.4           | 2.3              |
| 215         | 2.0                          | 0.5          | 12.8                        | 2.9          | 6.8            | 0.1              | 4.6                          | 18.3                        | 55.3           | 2.3              |
| 216         | 2.0                          | 0.5          | 12.9                        | 2.9          | 6.9            | 0.1              | 4.5                          | 18.4                        | 55.3           | 2.3              |
| 216b        | 2.0                          | 0.5          | 12.9                        | 2.9          | 6.8            | 0.1              | 4.5                          | 18.3                        | 55.2           | 2.3              |
| 217         | 2.0                          | 0.5          | 13.0                        | 3.0          | 7.0            | 0.1              | 4.5                          | 18.4                        | 55.3           | 2.3              |
| 218         | 2.0                          | 0.5          | 12.7                        | 2.9          | 6.8            | 0.1              | 4.6                          | 18.3                        | 55.6           | 2.3              |
| 219         | 2.0                          | 0.5          | 12.7                        | 2.9          | 6.9            | 0.1              | 4.6                          | 18.4                        | 55.6           | 2.3              |
| 220         | 2.0                          | 0.5          | 12.9                        | 3.0          | 6.9            | 0.1              | 4.6                          | 18.4                        | 55.5           | 2.3              |
| 221         | 2.0                          | 0.5          | 13.0                        | 3.0          | 7.0            | 0.1              | 4.6                          | 18.5                        | 55.5           | 2.3              |
| 222         | 2.1                          | 0.5          | 13.2                        | 3.0          | 7.1            | 0.1              | 4.6                          | 18.6                        | 55.5           | 2.3              |
| 223         | 2.1                          | 0.5          | 13.2                        | 3.1          | 7.2            | 0.1              | 4.6                          | 18.6                        | 55.6           | 2.3              |
| 223b        | 2.1                          | 0.5          | 13.1                        | 3.0          | 7.1            | 0.1              | 4.6                          | 18.6                        | 55.7           | 2.3              |
| 224         | 2.1                          | 0.5          | 13.2                        | 3.1          | 7.2            | 0.1              | 4.6                          | 18.6                        | 55.8           | 2.3              |
| 225         | 2.1                          | 0.5          | 13.1                        | 3.0          | 7.0            | 0.1              | 4.5                          | 18.5                        | 55.2           | 2.3              |
| 249         | 0.4                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 4.8                          | 26.1                        | 58.8           | 2.2              |
| 252         | 0.4                          | 0.0          | 2.4                         | 0.2          | 0.3            | 0.0              | 4.0                          | 16.0                        | 48.6           | 2.1              |
| 258a        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 4.5                          | 21.3                        | 56.2           | 2.2              |
| 258c        | 0.8                          | 0.1          | 5.0                         | 0.3          | 0.6            | 0.0              | 4.5                          | 21.2                        | 56.0           | 2.2              |
| 259         | 0.7                          | 0.1          | 4.2                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.3                        | 55.8           | 2.2              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 259b        | 0.7                          | 0.0          | 4.4                         | 0.3          | 0.5            | 0.0              | 4.5                          | 20.5                        | 54.8           | 2.2              |
| 260         | 0.6                          | 0.1          | 3.8                         | 0.3          | 0.6            | 0.0              | 4.6                          | 22.5                        | 56.9           | 2.2              |
| 260a        | 0.6                          | 0.1          | 3.7                         | 0.3          | 0.5            | 0.0              | 4.6                          | 22.4                        | 56.8           | 2.2              |
| 260b        | 0.6                          | 0.1          | 3.8                         | 0.3          | 0.5            | 0.0              | 4.6                          | 22.3                        | 56.7           | 2.2              |
| 261         | 0.5                          | 0.0          | 3.2                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.4                        | 55.0           | 2.2              |
| 261b        | 0.5                          | 0.0          | 3.2                         | 0.3          | 0.5            | 0.0              | 4.5                          | 21.5                        | 55.1           | 2.2              |
| 271         | 0.2                          | 0.0          | 1.3                         | 0.3          | 0.6            | 0.0              | 3.7                          | 14.6                        | 45.5           | 2.1              |
| 272b        | 0.3                          | 0.1          | 2.0                         | 0.4          | 0.9            | 0.0              | 3.8                          | 14.4                        | 47.7           | 2.2              |
| 272         | 0.3                          | 0.1          | 2.0                         | 0.4          | 0.9            | 0.0              | 3.9                          | 14.5                        | 47.9           | 2.2              |
| 273         | 0.3                          | 0.1          | 1.8                         | 0.3          | 0.7            | 0.0              | 3.6                          | 14.2                        | 44.6           | 2.1              |
| 273b        | 0.2                          | 0.0          | 1.6                         | 0.3          | 0.6            | 0.0              | 3.7                          | 14.4                        | 45.2           | 2.1              |
| 288         | 2.9                          | 0.5          | 15.7                        | 2.8          | 6.7            | 0.2              | 4.1                          | 21.9                        | 49.3           | 2.2              |
| 288b        | 2.9                          | 0.5          | 15.7                        | 2.8          | 6.7            | 0.2              | 4.1                          | 21.9                        | 49.3           | 2.2              |
| 289         | 3.3                          | 0.6          | 18.9                        | 3.7          | 9.0            | 0.2              | 4.1                          | 21.4                        | 50.0           | 2.2              |
| 292         | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.4            | 0.0              | 4.4                          | 20.6                        | 52.8           | 2.1              |
| 292b        | 0.4                          | 0.0          | 1.6                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.3                        | 51.5           | 2.1              |
| 302a        | 0.4                          | 0.0          | 1.9                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.3                        | 51.6           | 2.1              |
| 302c        | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.3            | 0.0              | 4.2                          | 18.6                        | 50.7           | 2.1              |
| 401         | 0.4                          | 0.1          | 2.6                         | 0.5          | 1.0            | 0.0              | 3.4                          | 13.2                        | 41.0           | 2.0              |
| 402         | 0.5                          | 0.1          | 3.2                         | 0.6          | 1.2            | 0.0              | 3.3                          | 13.0                        | 40.5           | 2.0              |
| 404         | 0.5                          | 0.1          | 3.2                         | 0.6          | 1.3            | 0.1              | 3.4                          | 12.7                        | 41.3           | 2.0              |
| 405         | 0.9                          | 0.2          | 5.5                         | 1.0          | 2.1            | 0.1              | 3.3                          | 12.7                        | 39.6           | 2.0              |
| 406         | 0.8                          | 0.1          | 4.3                         | 0.8          | 1.7            | 0.1              | 3.3                          | 12.6                        | 40.0           | 2.0              |
| 407         | 0.7                          | 0.1          | 3.8                         | 0.8          | 1.8            | 0.1              | 3.4                          | 11.9                        | 41.1           | 2.1              |
| 408         | 0.7                          | 0.0          | 4.4                         | 0.2          | 0.4            | 0.0              | 3.0                          | 15.9                        | 36.5           | 1.9              |
| 409         | 1.2                          | 0.3          | 7.2                         | 1.5          | 3.2            | 0.2              | 3.4                          | 12.8                        | 40.7           | 2.2              |
| 410a        | 0.7                          | 0.0          | 4.4                         | 0.2          | 0.4            | 0.0              | 3.1                          | 15.9                        | 36.5           | 1.9              |
| 410b        | 0.7                          | 0.0          | 4.3                         | 0.2          | 0.4            | 0.0              | 3.1                          | 15.9                        | 36.6           | 1.9              |
| 411a        | 1.6                          | 0.2          | 9.4                         | 1.5          | 3.1            | 0.2              | 3.4                          | 13.3                        | 40.5           | 2.1              |
| 411b        | 1.6                          | 0.3          | 9.6                         | 1.5          | 3.1            | 0.2              | 3.4                          | 13.3                        | 40.5           | 2.1              |
| 411c        | 1.6                          | 0.2          | 9.8                         | 1.5          | 3.1            | 0.1              | 3.4                          | 13.5                        | 40.4           | 2.1              |
| 412         | 0.7                          | 0.0          | 4.4                         | 0.2          | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.6           | 2.0              |
| 413b        | 0.4                          | 0.0          | 2.1                         | 0.3          | 0.6            | 0.0              | 3.4                          | 14.1                        | 41.9           | 2.0              |
| 414a        | 0.7                          | 0.0          | 4.6                         | 0.2          | 0.4            | 0.0              | 3.0                          | 16.0                        | 36.5           | 2.0              |
| 415         | 0.3                          | 0.0          | 1.9                         | 0.3          | 0.6            | 0.0              | 3.5                          | 14.3                        | 43.0           | 2.0              |
| 417         | 0.3                          | 0.0          | 1.7                         | 0.2          | 0.5            | 0.0              | 3.6                          | 14.5                        | 43.7           | 2.1              |
| 418         | 0.2                          | 0.0          | 1.4                         | 0.2          | 0.4            | 0.0              | 3.6                          | 14.5                        | 43.4           | 2.1              |
| 418b        | 0.2                          | 0.0          | 1.4                         | 0.2          | 0.5            | 0.0              | 3.6                          | 14.5                        | 43.6           | 2.1              |
| 419         | 0.4                          | 0.1          | 2.2                         | 0.3          | 0.7            | 0.0              | 3.5                          | 14.1                        | 42.5           | 2.0              |
| 421         | 0.3                          | 0.1          | 2.0                         | 0.3          | 0.7            | 0.0              | 3.6                          | 13.9                        | 43.8           | 2.1              |
| 422a        | 2.2                          | 0.5          | 12.9                        | 2.8          | 6.7            | 0.2              | 3.7                          | 16.3                        | 45.2           | 2.1              |
| 422c        | 0.8                          | 0.2          | 5.0                         | 0.9          | 1.9            | 0.1              | 3.3                          | 12.9                        | 39.4           | 2.0              |
| 428         | 2.1                          | 0.4          | 11.9                        | 2.6          | 6.0            | 0.1              | 3.6                          | 16.1                        | 44.3           | 2.1              |
| 429a        | 1.6                          | 0.3          | 9.8                         | 1.9          | 4.4            | 0.1              | 3.4                          | 15.7                        | 41.9           | 2.0              |
| 429b        | 1.5                          | 0.3          | 9.2                         | 1.7          | 3.9            | 0.1              | 3.4                          | 15.6                        | 41.4           | 2.0              |
| 430         | 1.6                          | 0.3          | 9.4                         | 1.8          | 4.1            | 0.1              | 3.4                          | 15.7                        | 41.6           | 2.0              |
| 431a        | 0.7                          | 0.1          | 3.9                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.3                        | 37.5           | 2.0              |
| 431b        | 0.8                          | 0.1          | 3.8                         | 0.4          | 0.8            | 0.0              | 3.1                          | 15.8                        | 37.6           | 2.0              |
| 432         | 0.9                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.2                          | 15.9                        | 37.8           | 2.0              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 433         | 1.1                          | 0.1          | 6.2                         | 0.6          | 1.1            | 0.0              | 3.2                          | 15.9                        | 38.0           | 2.0              |
| 434         | 1.0                          | 0.1          | 5.8                         | 0.5          | 1.0            | 0.0              | 3.2                          | 16.1                        | 38.1           | 2.0              |
| 434b        | 0.9                          | 0.1          | 4.5                         | 0.5          | 0.9            | 0.0              | 3.2                          | 15.9                        | 37.8           | 2.0              |
| 436         | 1.0                          | 0.1          | 5.0                         | 0.5          | 0.9            | 0.0              | 3.2                          | 16.6                        | 38.3           | 2.0              |
| 437         | 1.0                          | 0.1          | 5.3                         | 0.5          | 1.0            | 0.0              | 3.2                          | 16.4                        | 38.2           | 2.0              |
| 438         | 0.4                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.8                        | 35.8           | 1.9              |
| 440a        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.6           | 1.9              |
| 440b        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.6           | 1.9              |
| 440c        | 0.3                          | 0.0          | 1.7                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.5                        | 35.6           | 1.9              |
| 440d        | 0.2                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 440e        | 0.2                          | 0.0          | 1.5                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 440f        | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.7                        | 35.6           | 1.9              |
| 440g        | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.2            | 0.0              | 3.0                          | 15.6                        | 35.6           | 1.9              |
| 441         | 0.7                          | 0.1          | 4.1                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.7           | 2.1              |
| 442         | 0.3                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.0                          | 15.0                        | 36.0           | 1.9              |
| 443         | 0.7                          | 0.1          | 4.2                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.3                        | 39.0           | 2.1              |
| 451         | 0.7                          | 0.1          | 3.9                         | 0.5          | 1.0            | 0.0              | 3.3                          | 15.8                        | 41.0           | 2.1              |
| 452         | 1.1                          | 0.2          | 6.5                         | 0.9          | 1.8            | 0.1              | 3.4                          | 15.9                        | 41.8           | 2.1              |
| 453a        | 0.2                          | 0.0          | 1.1                         | 0.2          | 0.5            | 0.0              | 3.6                          | 14.5                        | 44.4           | 2.1              |
| 453b        | 0.2                          | 0.0          | 1.1                         | 0.2          | 0.5            | 0.0              | 3.6                          | 14.5                        | 44.3           | 2.1              |
| 454         | 0.2                          | 0.0          | 1.1                         | 0.2          | 0.4            | 0.0              | 3.6                          | 14.3                        | 43.8           | 2.1              |
| 455         | 0.2                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.5                          | 14.0                        | 41.9           | 2.0              |
| 456         | 0.2                          | 0.0          | 1.1                         | 0.1          | 0.3            | 0.0              | 3.5                          | 14.0                        | 42.2           | 2.0              |
| 456b        | 0.2                          | 0.0          | 1.1                         | 0.1          | 0.3            | 0.0              | 3.5                          | 14.0                        | 42.2           | 2.0              |
| 458         | 0.2                          | 0.0          | 1.4                         | 0.2          | 0.4            | 0.0              | 3.7                          | 14.1                        | 44.7           | 2.1              |
| 460         | 0.1                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.0                        | 41.2           | 2.0              |
| 460b        | 0.1                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.1                        | 41.1           | 2.0              |
| 461         | 0.1                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.4                          | 12.0                        | 41.2           | 2.0              |
| 462a        | 0.2                          | 0.0          | 0.8                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.9                        | 41.7           | 2.0              |
| 462b        | 0.2                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.9                        | 41.6           | 2.0              |
| 462c        | 0.2                          | 0.0          | 0.7                         | 0.1          | 0.2            | 0.0              | 3.5                          | 11.9                        | 41.7           | 2.0              |
| 464         | 0.4                          | 0.0          | 2.0                         | 0.1          | 0.3            | 0.0              | 3.8                          | 13.3                        | 45.9           | 2.1              |
| 464b        | 0.4                          | 0.0          | 2.0                         | 0.1          | 0.3            | 0.0              | 3.8                          | 13.3                        | 46.0           | 2.1              |
| 465         | 0.4                          | 0.0          | 1.7                         | 0.1          | 0.2            | 0.0              | 3.7                          | 12.6                        | 44.7           | 2.1              |
| 466         | 0.4                          | 0.0          | 2.2                         | 0.2          | 0.3            | 0.0              | 3.9                          | 14.0                        | 46.8           | 2.2              |
| 467         | 0.4                          | 0.0          | 2.3                         | 0.2          | 0.4            | 0.0              | 4.0                          | 15.6                        | 49.5           | 2.3              |
| 467b        | 0.4                          | 0.0          | 2.3                         | 0.2          | 0.4            | 0.0              | 4.0                          | 15.6                        | 49.5           | 2.3              |
| 468a        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.9                        | 43.2           | 2.0              |
| 468b        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.2                        | 42.6           | 2.0              |
| 468c        | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.6                          | 12.3                        | 43.6           | 2.0              |
| 468d        | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.6                          | 11.9                        | 43.2           | 2.0              |
| 470         | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.9                          | 15.2                        | 46.7           | 2.0              |
| 471         | 0.3                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.5                        | 46.0           | 2.0              |
| 472a        | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.9                          | 14.9                        | 46.3           | 2.0              |
| 472b        | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.9                          | 15.3                        | 46.7           | 2.0              |
| 472c        | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.3            | 0.0              | 3.8                          | 13.7                        | 45.1           | 2.0              |
| 474         | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.7                          | 13.1                        | 44.3           | 2.0              |
| 475         | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.7                        | 52.2           | 2.1              |
| 475b        | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.7                        | 52.3           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 476         | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.2            | 0.0              | 3.7                          | 13.0                        | 43.6           | 2.0              |
| 477a        | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.9                        | 46.0           | 2.0              |
| 477b        | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.9                        | 46.0           | 2.0              |
| 481         | 0.3                          | 0.0          | 1.1                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.3                        | 41.2           | 1.9              |
| 483         | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.4                          | 10.3                        | 40.0           | 1.9              |
| 484         | 0.3                          | 0.0          | 1.2                         | 0.1          | 0.2            | 0.0              | 3.4                          | 11.4                        | 41.1           | 1.9              |
| 485a        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.2           | 1.9              |
| 485b        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.2           | 1.9              |
| 485c        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.2           | 1.9              |
| 485d        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.6                        | 39.2           | 1.9              |
| 485e        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.7                        | 39.2           | 1.9              |
| 485f        | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.2            | 0.0              | 3.3                          | 10.8                        | 39.3           | 1.9              |
| 490         | 1.4                          | 0.2          | 8.4                         | 1.4          | 3.0            | 0.1              | 3.3                          | 13.9                        | 40.2           | 2.1              |
| 492         | 1.2                          | 0.3          | 7.1                         | 1.5          | 3.2            | 0.1              | 3.3                          | 14.3                        | 40.3           | 2.0              |
| 494         | 1.4                          | 0.3          | 8.1                         | 1.7          | 3.8            | 0.1              | 3.4                          | 15.2                        | 41.0           | 2.0              |
| 495a        | 1.5                          | 0.3          | 8.4                         | 1.6          | 3.7            | 0.1              | 3.4                          | 15.7                        | 41.0           | 2.0              |
| 495b        | 1.6                          | 0.3          | 8.7                         | 1.7          | 4.0            | 0.1              | 3.4                          | 15.6                        | 41.3           | 2.0              |
| 496a        | 1.5                          | 0.3          | 8.4                         | 1.7          | 3.8            | 0.1              | 3.4                          | 15.5                        | 41.0           | 2.0              |
| 496b        | 1.5                          | 0.3          | 8.3                         | 1.6          | 3.7            | 0.1              | 3.4                          | 15.5                        | 40.9           | 2.0              |
| 496c        | 1.5                          | 0.3          | 8.3                         | 1.6          | 3.7            | 0.1              | 3.4                          | 15.6                        | 40.9           | 2.0              |
| 499         | 0.7                          | 0.1          | 3.1                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |
| 500         | 0.7                          | 0.1          | 3.3                         | 0.4          | 0.7            | 0.0              | 3.1                          | 15.7                        | 37.4           | 2.0              |
| 501a        | 0.7                          | 0.1          | 3.5                         | 0.4          | 0.8            | 0.0              | 3.1                          | 15.8                        | 37.5           | 2.0              |
| 501b        | 0.7                          | 0.1          | 3.5                         | 0.4          | 0.8            | 0.0              | 3.1                          | 15.7                        | 37.5           | 2.0              |
| 502a        | 0.7                          | 0.1          | 3.1                         | 0.4          | 0.7            | 0.0              | 3.1                          | 15.6                        | 37.2           | 1.9              |
| 502b        | 0.7                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.6                        | 37.2           | 1.9              |
| 502c        | 0.7                          | 0.1          | 3.0                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.2           | 1.9              |
| 504a        | 0.6                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.7                        | 37.0           | 1.9              |
| 504b        | 0.6                          | 0.1          | 2.8                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.7                        | 37.0           | 1.9              |
| 505         | 0.6                          | 0.1          | 3.1                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.8                        | 37.0           | 1.9              |
| 506         | 0.6                          | 0.1          | 3.2                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.8                        | 37.0           | 1.9              |
| 507a        | 0.6                          | 0.1          | 3.3                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 36.9           | 1.9              |
| 507b        | 0.6                          | 0.1          | 3.4                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.9                        | 36.8           | 1.9              |
| 508         | 0.7                          | 0.1          | 3.2                         | 0.3          | 0.6            | 0.0              | 3.1                          | 15.9                        | 37.3           | 2.0              |
| 509         | 0.6                          | 0.1          | 3.5                         | 0.3          | 0.5            | 0.0              | 3.1                          | 15.8                        | 36.7           | 1.9              |
| 510         | 0.7                          | 0.1          | 4.0                         | 0.3          | 0.6            | 0.0              | 3.1                          | 16.2                        | 37.2           | 2.0              |
| 511         | 0.7                          | 0.1          | 3.4                         | 0.4          | 0.7            | 0.0              | 3.1                          | 16.0                        | 37.4           | 2.0              |
| 513         | 0.7                          | 0.0          | 4.3                         | 0.2          | 0.4            | 0.0              | 3.0                          | 15.9                        | 36.5           | 1.9              |
| 515a        | 0.5                          | 0.1          | 2.4                         | 0.3          | 0.6            | 0.0              | 3.2                          | 15.2                        | 39.2           | 2.0              |
| 515b        | 0.4                          | 0.0          | 2.0                         | 0.2          | 0.5            | 0.0              | 3.1                          | 14.4                        | 37.5           | 1.9              |
| 516         | 0.3                          | 0.0          | 1.9                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.5                        | 36.8           | 1.9              |
| 517         | 0.4                          | 0.0          | 2.1                         | 0.3          | 0.5            | 0.0              | 3.1                          | 14.0                        | 38.2           | 2.0              |
| 518         | 0.5                          | 0.1          | 2.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 13.3                        | 39.9           | 2.0              |
| 519         | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.4            | 0.0              | 3.1                          | 14.2                        | 37.4           | 1.9              |
| 522a        | 1.0                          | 0.2          | 5.7                         | 0.9          | 1.9            | 0.1              | 3.4                          | 16.3                        | 42.3           | 2.0              |
| 522b        | 2.2                          | 0.5          | 12.4                        | 2.6          | 6.2            | 0.2              | 3.7                          | 19.9                        | 45.7           | 2.2              |
| 522c        | 2.2                          | 0.5          | 12.4                        | 2.6          | 6.1            | 0.2              | 3.8                          | 19.9                        | 45.7           | 2.2              |
| 522d        | 2.2                          | 0.5          | 12.4                        | 2.6          | 6.1            | 0.2              | 3.7                          | 19.9                        | 45.7           | 2.2              |
| 527         | 2.8                          | 0.5          | 17.4                        | 3.2          | 7.8            | 0.2              | 4.0                          | 21.3                        | 48.5           | 2.2              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 528         | 2.8                          | 0.5       | 17.3                        | 3.2       | 7.8            | 0.2              | 4.0                          | 21.3                        | 48.5           | 2.2              |
| 529         | 2.8                          | 0.5       | 17.2                        | 3.2       | 7.7            | 0.2              | 4.0                          | 21.3                        | 48.4           | 2.2              |
| 530         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 3.9                          | 21.2                        | 48.2           | 2.2              |
| 531         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 3.9                          | 21.3                        | 48.2           | 2.2              |
| 531b        | 2.8                          | 0.5       | 17.1                        | 3.1       | 7.6            | 0.2              | 3.9                          | 21.3                        | 48.3           | 2.2              |
| 532         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 3.9                          | 21.3                        | 48.2           | 2.2              |
| 533         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 3.9                          | 21.3                        | 48.3           | 2.2              |
| 534         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 3.9                          | 21.3                        | 48.3           | 2.2              |
| 535         | 2.8                          | 0.5       | 17.1                        | 3.1       | 7.5            | 0.2              | 4.0                          | 21.3                        | 48.3           | 2.2              |
| 536         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 4.0                          | 21.3                        | 48.3           | 2.2              |
| 537         | 2.8                          | 0.5       | 17.0                        | 3.1       | 7.5            | 0.2              | 4.0                          | 21.3                        | 48.3           | 2.2              |
| 538         | 2.9                          | 0.5       | 16.0                        | 2.8       | 6.8            | 0.2              | 4.1                          | 21.9                        | 49.2           | 2.2              |
| 539         | 2.9                          | 0.5       | 15.9                        | 2.8       | 6.7            | 0.2              | 4.1                          | 22.0                        | 49.1           | 2.2              |
| 541         | 2.9                          | 0.5       | 15.7                        | 2.8       | 6.6            | 0.2              | 4.1                          | 22.0                        | 49.0           | 2.2              |
| 542         | 2.9                          | 0.5       | 15.7                        | 2.8       | 6.6            | 0.2              | 4.1                          | 22.0                        | 49.1           | 2.2              |
| 543         | 2.9                          | 0.5       | 15.7                        | 2.8       | 6.6            | 0.2              | 4.1                          | 22.0                        | 49.1           | 2.2              |
| 543b        | 2.9                          | 0.5       | 15.9                        | 2.8       | 6.7            | 0.2              | 4.1                          | 21.9                        | 49.2           | 2.2              |
| 544         | 2.9                          | 0.5       | 15.7                        | 2.8       | 6.6            | 0.2              | 4.1                          | 22.0                        | 49.2           | 2.2              |
| 545         | 2.9                          | 0.5       | 15.7                        | 2.8       | 6.6            | 0.2              | 4.1                          | 21.9                        | 49.2           | 2.2              |
| 547         | 1.3                          | 0.2       | 7.5                         | 1.0       | 2.0            | 0.1              | 3.4                          | 15.8                        | 41.6           | 2.1              |
| 549         | 0.4                          | 0.1       | 2.4                         | 0.3       | 0.7            | 0.0              | 3.8                          | 11.3                        | 40.8           | 2.0              |
| 550         | 0.5                          | 0.1       | 2.2                         | 0.4       | 0.8            | 0.0              | 4.5                          | 12.9                        | 43.5           | 2.0              |
| 552         | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 3.6                          | 11.1                        | 40.3           | 2.0              |
| 553         | 0.5                          | 0.1       | 2.4                         | 0.4       | 0.8            | 0.0              | 5.9                          | 16.0                        | 47.5           | 2.1              |
| 554         | 0.5                          | 0.1       | 2.8                         | 0.4       | 0.9            | 0.0              | 3.8                          | 11.9                        | 41.3           | 2.0              |
| 557         | 0.5                          | 0.1       | 2.3                         | 0.4       | 0.8            | 0.0              | 5.0                          | 14.2                        | 44.9           | 2.0              |
| 559         | 0.4                          | 0.1       | 2.1                         | 0.3       | 0.7            | 0.0              | 4.6                          | 13.4                        | 43.2           | 2.0              |
| 560         | 0.4                          | 0.1       | 2.1                         | 0.3       | 0.7            | 0.0              | 4.4                          | 12.9                        | 42.9           | 2.0              |
| 561         | 0.4                          | 0.1       | 2.3                         | 0.4       | 0.8            | 0.0              | 4.1                          | 12.0                        | 41.8           | 2.0              |
| 562         | 0.4                          | 0.1       | 2.2                         | 0.3       | 0.7            | 0.0              | 4.2                          | 12.1                        | 42.0           | 2.0              |
| 563         | 0.4                          | 0.1       | 2.2                         | 0.3       | 0.7            | 0.0              | 4.0                          | 11.6                        | 41.0           | 2.0              |
| 564         | 0.4                          | 0.1       | 2.4                         | 0.3       | 0.7            | 0.0              | 3.8                          | 11.3                        | 40.7           | 2.0              |
| 565         | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 3.8                          | 11.4                        | 40.9           | 2.0              |
| 566         | 0.4                          | 0.1       | 2.4                         | 0.4       | 0.7            | 0.0              | 3.7                          | 11.0                        | 40.3           | 2.0              |
| 569         | 0.4                          | 0.1       | 2.4                         | 0.4       | 0.8            | 0.0              | 3.5                          | 10.8                        | 39.9           | 2.0              |
| 570         | 0.4                          | 0.1       | 2.4                         | 0.4       | 0.8            | 0.0              | 3.5                          | 10.8                        | 39.9           | 2.0              |
| 571         | 0.5                          | 0.1       | 2.8                         | 0.4       | 0.9            | 0.0              | 3.4                          | 10.5                        | 39.8           | 2.0              |
| 572         | 0.4                          | 0.1       | 2.3                         | 0.4       | 0.8            | 0.0              | 3.4                          | 10.6                        | 39.8           | 2.0              |
| 573         | 0.4                          | 0.1       | 2.4                         | 0.4       | 0.9            | 0.0              | 3.4                          | 10.8                        | 40.0           | 2.0              |
| 574         | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.9            | 0.0              | 3.4                          | 10.9                        | 40.0           | 2.0              |
| 575         | 0.5                          | 0.1       | 2.7                         | 0.5       | 1.0            | 0.0              | 3.4                          | 10.9                        | 40.1           | 2.0              |
| 576         | 0.5                          | 0.1       | 2.9                         | 0.5       | 1.0            | 0.0              | 3.4                          | 10.9                        | 40.1           | 2.0              |
| 577a        | 0.5                          | 0.1       | 3.1                         | 0.5       | 1.1            | 0.0              | 3.5                          | 11.3                        | 40.5           | 2.0              |
| 577b        | 0.5                          | 0.1       | 3.0                         | 0.5       | 1.0            | 0.0              | 3.4                          | 11.1                        | 40.4           | 2.0              |
| 578         | 0.6                          | 0.1       | 3.2                         | 0.5       | 1.1            | 0.0              | 3.4                          | 11.2                        | 40.4           | 2.0              |
| 583         | 0.5                          | 0.1       | 3.1                         | 0.3       | 0.7            | 0.0              | 3.3                          | 13.1                        | 41.2           | 2.0              |
| 586         | 0.3                          | 0.0       | 1.5                         | 0.2       | 0.4            | 0.0              | 3.0                          | 13.9                        | 36.7           | 1.9              |
| 587a        | 0.3                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.0                          | 14.6                        | 36.1           | 1.9              |
| 587b        | 0.3                          | 0.0       | 1.6                         | 0.2       | 0.3            | 0.0              | 3.0                          | 14.6                        | 36.1           | 1.9              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 588         | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.0                          | 13.9                        | 36.5           | 1.9              |
| 589a        | 0.2                          | 0.0          | 1.1                         | 0.1          | 0.1            | 0.0              | 3.0                          | 4.6                         | 35.3           | 1.9              |
| 589b        | 0.2                          | 0.0          | 0.7                         | 0.1          | 0.1            | 0.0              | 2.9                          | 4.4                         | 35.2           | 1.9              |
| 600a        | 2.9                          | 0.5          | 15.7                        | 2.8          | 6.6            | 0.2              | 4.0                          | 22.0                        | 48.9           | 2.2              |
| 600b        | 2.9                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 4.0                          | 22.0                        | 48.9           | 2.2              |
| 601         | 2.9                          | 0.5          | 15.7                        | 2.8          | 6.6            | 0.2              | 4.0                          | 22.0                        | 48.8           | 2.2              |
| 602         | 2.9                          | 0.5          | 15.6                        | 2.8          | 6.6            | 0.2              | 4.0                          | 22.1                        | 48.8           | 2.2              |
| 603         | 2.8                          | 0.5          | 15.6                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.8           | 2.2              |
| 604         | 2.8                          | 0.5          | 15.6                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.7           | 2.2              |
| 605         | 2.8                          | 0.5          | 15.6                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.7           | 2.2              |
| 606         | 2.8                          | 0.5          | 15.6                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.6           | 2.2              |
| 607         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.6           | 2.2              |
| 608         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.6           | 2.2              |
| 609         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.5           | 2.2              |
| 610         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.1                        | 48.5           | 2.2              |
| 611         | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.4            | 0.2              | 4.0                          | 22.1                        | 48.4           | 2.2              |
| 612         | 2.8                          | 0.5          | 15.6                        | 2.8          | 6.6            | 0.2              | 4.0                          | 22.0                        | 48.5           | 2.2              |
| 613         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.0                        | 48.4           | 2.2              |
| 614         | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.0                        | 48.4           | 2.2              |
| 615         | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 4.0                          | 22.0                        | 48.3           | 2.2              |
| 616a        | 2.5                          | 0.5          | 14.9                        | 2.8          | 6.6            | 0.2              | 3.8                          | 20.8                        | 46.8           | 2.2              |
| 616b        | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 22.0                        | 48.3           | 2.2              |
| 617a        | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.3            | 0.2              | 4.0                          | 21.9                        | 48.1           | 2.2              |
| 618a        | 2.7                          | 0.5          | 15.0                        | 2.6          | 6.3            | 0.2              | 4.0                          | 21.9                        | 48.0           | 2.2              |
| 618b        | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.3            | 0.2              | 4.0                          | 21.9                        | 48.1           | 2.2              |
| 619         | 2.7                          | 0.5          | 15.0                        | 2.6          | 6.3            | 0.2              | 4.0                          | 21.9                        | 48.0           | 2.2              |
| 621         | 2.7                          | 0.5          | 14.9                        | 2.6          | 6.3            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622a        | 2.7                          | 0.5          | 15.0                        | 2.7          | 6.3            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 623a        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 623b        | 2.7                          | 0.5          | 14.9                        | 2.6          | 6.3            | 0.2              | 3.9                          | 21.8                        | 47.8           | 2.2              |
| 630a        | 2.5                          | 0.4          | 14.2                        | 2.5          | 5.8            | 0.2              | 3.9                          | 21.5                        | 47.1           | 2.2              |
| 631         | 2.4                          | 0.4          | 14.1                        | 2.4          | 5.8            | 0.2              | 3.9                          | 21.5                        | 47.0           | 2.2              |
| 632         | 2.5                          | 0.4          | 14.3                        | 2.5          | 5.8            | 0.2              | 3.9                          | 21.5                        | 47.0           | 2.2              |
| 648         | 2.5                          | 0.4          | 15.0                        | 2.6          | 6.2            | 0.2              | 3.9                          | 21.3                        | 47.2           | 2.2              |
| 649         | 2.5                          | 0.5          | 15.1                        | 2.6          | 6.3            | 0.2              | 3.9                          | 21.4                        | 47.3           | 2.2              |
| 650         | 2.6                          | 0.5          | 15.2                        | 2.7          | 6.3            | 0.2              | 3.9                          | 21.4                        | 47.4           | 2.2              |
| 651         | 2.5                          | 0.5          | 15.1                        | 2.6          | 6.2            | 0.2              | 3.9                          | 21.3                        | 47.2           | 2.2              |
| 652         | 2.6                          | 0.5          | 15.4                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.4                        | 47.5           | 2.2              |
| 653         | 2.6                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.4                        | 47.5           | 2.2              |
| 654a        | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.2                        | 47.4           | 2.2              |
| 654b        | 2.6                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.4                        | 47.5           | 2.2              |
| 655         | 2.6                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.4                        | 47.5           | 2.2              |
| 658a        | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.3                        | 47.6           | 2.2              |
| 659         | 2.7                          | 0.5          | 15.7                        | 2.8          | 6.6            | 0.2              | 3.9                          | 21.4                        | 47.7           | 2.2              |
| 660a        | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.6            | 0.2              | 3.9                          | 21.4                        | 47.6           | 2.2              |
| 660b        | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.3                        | 47.6           | 2.2              |
| 661         | 2.6                          | 0.5          | 16.0                        | 2.8          | 6.8            | 0.2              | 3.9                          | 21.3                        | 47.7           | 2.2              |
| 662         | 2.7                          | 0.5          | 16.0                        | 2.9          | 6.8            | 0.2              | 3.9                          | 21.3                        | 47.7           | 2.2              |
| 663         | 2.7                          | 0.5          | 16.2                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.3                        | 47.8           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 664         | 2.7                          | 0.5          | 16.2                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.3                        | 47.8           | 2.2              |
| 665a        | 2.8                          | 0.5          | 16.5                        | 3.0          | 7.1            | 0.2              | 3.9                          | 21.4                        | 48.1           | 2.2              |
| 665b        | 2.8                          | 0.5          | 16.5                        | 3.0          | 7.1            | 0.2              | 3.9                          | 21.4                        | 48.1           | 2.2              |
| 667a        | 3.1                          | 0.6          | 18.5                        | 3.5          | 8.6            | 0.2              | 4.0                          | 21.4                        | 49.5           | 2.2              |
| 667b        | 3.1                          | 0.6          | 18.4                        | 3.5          | 8.5            | 0.2              | 4.0                          | 21.4                        | 49.4           | 2.2              |
| 667c        | 3.1                          | 0.6          | 18.5                        | 3.5          | 8.6            | 0.2              | 4.0                          | 21.4                        | 49.5           | 2.2              |
| 667d        | 3.1                          | 0.6          | 18.5                        | 3.5          | 8.6            | 0.2              | 4.0                          | 21.4                        | 49.6           | 2.2              |
| 667e        | 3.1                          | 0.6          | 18.4                        | 3.5          | 8.6            | 0.2              | 4.0                          | 21.4                        | 49.5           | 2.2              |
| 667f        | 2.1                          | 0.4          | 12.2                        | 2.6          | 6.0            | 0.2              | 3.7                          | 19.7                        | 45.4           | 2.2              |
| 669         | 2.8                          | 0.5          | 16.8                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.3                        | 48.1           | 2.2              |
| 671         | 2.7                          | 0.5          | 16.7                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.3                        | 48.1           | 2.2              |
| 672         | 2.7                          | 0.5          | 16.7                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.3                        | 48.1           | 2.2              |
| 673         | 2.7                          | 0.5          | 16.7                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.3                        | 48.1           | 2.2              |
| 675         | 2.7                          | 0.5          | 16.6                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.2                        | 48.0           | 2.2              |
| 676         | 2.7                          | 0.5          | 16.7                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.2                        | 48.0           | 2.2              |
| 677         | 2.7                          | 0.5          | 16.6                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.2                        | 47.9           | 2.2              |
| 678         | 2.7                          | 0.5          | 16.5                        | 3.0          | 7.2            | 0.2              | 3.9                          | 21.2                        | 47.8           | 2.2              |
| 679         | 2.7                          | 0.5          | 16.3                        | 3.0          | 7.1            | 0.2              | 3.9                          | 21.2                        | 47.7           | 2.2              |
| 680         | 2.7                          | 0.5          | 16.3                        | 3.0          | 7.1            | 0.2              | 3.9                          | 21.2                        | 47.7           | 2.2              |
| 681         | 2.6                          | 0.5          | 16.1                        | 2.9          | 7.0            | 0.2              | 3.9                          | 21.1                        | 47.6           | 2.2              |
| 682a        | 2.6                          | 0.5          | 15.9                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 682b        | 2.6                          | 0.5          | 15.9                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 683         | 2.6                          | 0.5          | 15.8                        | 2.9          | 6.8            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 684         | 2.6                          | 0.5          | 15.6                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.1                        | 47.3           | 2.2              |
| 685         | 2.6                          | 0.5          | 15.6                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.1                        | 47.3           | 2.2              |
| 686         | 2.6                          | 0.5          | 15.6                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.1                        | 47.3           | 2.2              |
| 687         | 2.6                          | 0.5          | 15.7                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.1                        | 47.3           | 2.2              |
| 688         | 2.6                          | 0.5          | 15.7                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 689         | 2.7                          | 0.5          | 16.2                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.3                        | 47.7           | 2.2              |
| 690         | 2.6                          | 0.5          | 16.0                        | 2.8          | 6.8            | 0.2              | 3.9                          | 21.2                        | 47.6           | 2.2              |
| 691         | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.2                        | 47.5           | 2.2              |
| 692         | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.2                        | 47.5           | 2.2              |
| 693         | 2.5                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.1                        | 47.2           | 2.2              |
| 694a        | 2.5                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.1                        | 47.1           | 2.2              |
| 694b        | 2.5                          | 0.5          | 15.2                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.0                        | 47.1           | 2.2              |
| 695         | 2.5                          | 0.5          | 15.4                        | 2.8          | 6.5            | 0.2              | 3.9                          | 21.1                        | 47.1           | 2.2              |
| 697         | 2.5                          | 0.5          | 15.3                        | 2.8          | 6.5            | 0.2              | 3.9                          | 21.0                        | 47.1           | 2.2              |
| 698         | 2.5                          | 0.5          | 15.0                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.0                        | 46.9           | 2.2              |
| 715         | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.3           | 2.1              |
| 728         | 2.5                          | 0.5          | 15.0                        | 2.7          | 6.4            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 729         | 2.5                          | 0.5          | 15.1                        | 2.7          | 6.5            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 730         | 2.5                          | 0.5          | 15.2                        | 2.8          | 6.5            | 0.2              | 3.9                          | 21.0                        | 47.0           | 2.2              |
| 731         | 2.5                          | 0.5          | 15.3                        | 2.8          | 6.6            | 0.2              | 3.9                          | 21.0                        | 47.0           | 2.2              |
| 732         | 2.5                          | 0.5          | 15.2                        | 2.8          | 6.6            | 0.2              | 3.9                          | 20.9                        | 47.0           | 2.2              |
| 733         | 2.5                          | 0.5          | 15.1                        | 2.8          | 6.6            | 0.2              | 3.9                          | 20.9                        | 47.0           | 2.2              |
| 735a        | 2.5                          | 0.5          | 15.0                        | 2.8          | 6.6            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 735b        | 2.5                          | 0.5          | 15.1                        | 2.8          | 6.6            | 0.2              | 3.9                          | 20.9                        | 46.9           | 2.2              |
| 736         | 2.4                          | 0.5          | 14.8                        | 2.7          | 6.5            | 0.2              | 3.8                          | 20.8                        | 46.7           | 2.2              |
| 737         | 2.5                          | 0.5          | 15.0                        | 2.8          | 6.6            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |





| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 738         | 2.5                          | 0.5       | 14.9                        | 2.8       | 6.6            | 0.2              | 3.8                          | 20.8                        | 46.8           | 2.2              |
| 739         | 2.5                          | 0.5       | 15.0                        | 2.8       | 6.6            | 0.2              | 3.8                          | 20.8                        | 46.8           | 2.2              |
| 740a        | 2.4                          | 0.5       | 14.5                        | 2.7       | 6.4            | 0.2              | 3.8                          | 20.7                        | 46.6           | 2.2              |
| 740b        | 2.4                          | 0.5       | 14.6                        | 2.7       | 6.5            | 0.2              | 3.8                          | 20.7                        | 46.7           | 2.2              |
| 740c        | 2.4                          | 0.5       | 14.8                        | 2.8       | 6.5            | 0.2              | 3.8                          | 20.8                        | 46.7           | 2.2              |
| 740d        | 2.4                          | 0.5       | 14.8                        | 2.8       | 6.5            | 0.2              | 3.8                          | 20.8                        | 46.8           | 2.2              |
| 740e        | 2.4                          | 0.5       | 14.7                        | 2.7       | 6.5            | 0.2              | 3.8                          | 20.7                        | 46.7           | 2.2              |
| 740f        | 2.4                          | 0.5       | 14.6                        | 2.7       | 6.4            | 0.2              | 3.8                          | 20.7                        | 46.6           | 2.2              |
| 741         | 2.5                          | 0.5       | 15.0                        | 2.8       | 6.7            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 742         | 2.5                          | 0.5       | 15.0                        | 2.8       | 6.7            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 743         | 2.5                          | 0.5       | 15.1                        | 2.8       | 6.7            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 744         | 2.4                          | 0.5       | 14.8                        | 2.8       | 6.6            | 0.2              | 3.8                          | 20.7                        | 46.8           | 2.2              |
| 745         | 2.4                          | 0.5       | 14.7                        | 2.8       | 6.5            | 0.2              | 3.8                          | 20.7                        | 46.7           | 2.2              |
| 746         | 2.4                          | 0.5       | 14.6                        | 2.7       | 6.5            | 0.2              | 3.8                          | 20.7                        | 46.6           | 2.2              |
| 747         | 2.4                          | 0.5       | 14.4                        | 2.7       | 6.4            | 0.2              | 3.8                          | 20.7                        | 46.6           | 2.2              |
| 748a        | 2.4                          | 0.5       | 14.3                        | 2.7       | 6.4            | 0.2              | 3.8                          | 20.6                        | 46.5           | 2.2              |
| 748b        | 1.6                          | 0.3       | 8.9                         | 1.7       | 3.7            | 0.1              | 3.5                          | 18.4                        | 42.9           | 2.1              |
| 749a        | 2.6                          | 0.5       | 15.6                        | 2.8       | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 749b        | 2.6                          | 0.5       | 15.5                        | 2.8       | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 750         | 2.6                          | 0.5       | 15.5                        | 2.8       | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 751         | 2.6                          | 0.5       | 15.5                        | 2.8       | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 752a        | 2.6                          | 0.5       | 15.7                        | 2.9       | 6.8            | 0.2              | 3.9                          | 21.0                        | 47.3           | 2.2              |
| 752b        | 2.6                          | 0.5       | 15.6                        | 2.9       | 6.8            | 0.2              | 3.9                          | 21.0                        | 47.3           | 2.2              |
| 753         | 2.6                          | 0.5       | 15.8                        | 2.9       | 6.9            | 0.2              | 3.9                          | 21.1                        | 47.3           | 2.2              |
| 754         | 2.6                          | 0.5       | 15.8                        | 2.9       | 6.9            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 755         | 2.6                          | 0.5       | 15.9                        | 2.9       | 7.0            | 0.2              | 3.9                          | 21.1                        | 47.4           | 2.2              |
| 756         | 2.6                          | 0.5       | 16.0                        | 2.9       | 7.0            | 0.2              | 3.9                          | 21.1                        | 47.5           | 2.2              |
| 757         | 2.6                          | 0.5       | 16.1                        | 2.9       | 7.1            | 0.2              | 3.9                          | 21.1                        | 47.6           | 2.2              |
| 758         | 2.7                          | 0.5       | 16.2                        | 3.0       | 7.1            | 0.2              | 3.9                          | 21.1                        | 47.6           | 2.2              |
| 759a        | 2.7                          | 0.5       | 16.3                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 759b        | 2.7                          | 0.5       | 16.3                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 760         | 2.7                          | 0.5       | 16.4                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 761         | 2.7                          | 0.5       | 16.4                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.8           | 2.2              |
| 762         | 2.7                          | 0.5       | 16.6                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.2                        | 47.9           | 2.2              |
| 763         | 2.7                          | 0.5       | 16.6                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.2                        | 47.9           | 2.2              |
| 764         | 2.7                          | 0.5       | 16.6                        | 3.1       | 7.4            | 0.2              | 3.9                          | 21.2                        | 47.9           | 2.2              |
| 765a        | 2.7                          | 0.5       | 16.5                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.8           | 2.2              |
| 765b        | 2.7                          | 0.5       | 16.5                        | 3.1       | 7.4            | 0.2              | 3.9                          | 21.1                        | 47.8           | 2.2              |
| 766         | 2.7                          | 0.5       | 16.5                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.8           | 2.2              |
| 767         | 2.7                          | 0.5       | 16.4                        | 3.0       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.8           | 2.2              |
| 768         | 2.7                          | 0.5       | 16.4                        | 3.1       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 769         | 2.6                          | 0.5       | 16.1                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 770         | 2.7                          | 0.5       | 16.4                        | 3.1       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 771         | 2.7                          | 0.5       | 16.3                        | 3.1       | 7.3            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 772         | 2.7                          | 0.5       | 16.3                        | 3.1       | 7.4            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 773         | 2.7                          | 0.5       | 16.3                        | 3.1       | 7.4            | 0.2              | 3.9                          | 21.1                        | 47.7           | 2.2              |
| 774         | 2.6                          | 0.5       | 16.0                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 775         | 2.6                          | 0.5       | 16.0                        | 3.0       | 7.2            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 776         | 2.7                          | 0.5       | 16.2                        | 3.1       | 7.4            | 0.2              | 3.9                          | 21.0                        | 47.6           | 2.2              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 777         | 2.6                          | 0.5          | 16.1                        | 3.1          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 778a        | 2.6                          | 0.5          | 16.0                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 778b        | 2.6                          | 0.5          | 16.1                        | 3.1          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.6           | 2.2              |
| 779a        | 2.6                          | 0.5          | 15.9                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 779b        | 2.6                          | 0.5          | 15.8                        | 3.0          | 7.2            | 0.2              | 3.9                          | 21.0                        | 47.4           | 2.2              |
| 780         | 2.6                          | 0.5          | 16.0                        | 3.1          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 781         | 2.6                          | 0.5          | 16.0                        | 3.1          | 7.4            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 782         | 2.6                          | 0.5          | 15.9                        | 3.1          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 783         | 2.6                          | 0.5          | 15.9                        | 3.1          | 7.3            | 0.2              | 3.9                          | 21.0                        | 47.5           | 2.2              |
| 784         | 2.5                          | 0.5          | 15.5                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 785         | 2.5                          | 0.5          | 15.5                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.0                        | 47.1           | 2.2              |
| 786         | 2.6                          | 0.5          | 15.5                        | 2.9          | 6.8            | 0.2              | 3.9                          | 21.0                        | 47.2           | 2.2              |
| 787a        | 2.5                          | 0.5          | 15.4                        | 2.8          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 787b        | 2.6                          | 0.5          | 15.7                        | 2.9          | 6.9            | 0.2              | 3.9                          | 21.0                        | 47.3           | 2.2              |
| 788         | 2.5                          | 0.5          | 15.4                        | 2.8          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 789         | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 790a        | 2.5                          | 0.5          | 15.3                        | 2.8          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 790b        | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 791a        | 2.5                          | 0.5          | 15.3                        | 2.8          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 791b        | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 792a        | 2.6                          | 0.5          | 15.6                        | 2.9          | 7.0            | 0.2              | 3.9                          | 20.9                        | 47.2           | 2.2              |
| 792b        | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 793         | 2.5                          | 0.5          | 15.3                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.0           | 2.2              |
| 794         | 2.5                          | 0.5          | 15.3                        | 2.9          | 6.8            | 0.2              | 3.9                          | 20.9                        | 47.0           | 2.2              |
| 795         | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.9            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 796         | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.9            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 797a        | 2.5                          | 0.5          | 15.4                        | 2.9          | 6.9            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 797b        | 2.5                          | 0.5          | 15.5                        | 2.9          | 7.0            | 0.2              | 3.9                          | 20.9                        | 47.2           | 2.2              |
| 798         | 2.5                          | 0.5          | 15.4                        | 2.9          | 7.0            | 0.2              | 3.9                          | 20.9                        | 47.1           | 2.2              |
| 801         | 2.5                          | 0.5          | 15.5                        | 3.0          | 7.1            | 0.2              | 3.9                          | 20.9                        | 47.2           | 2.2              |
| 802         | 2.5                          | 0.5          | 15.5                        | 3.0          | 7.1            | 0.2              | 3.9                          | 20.9                        | 47.2           | 2.2              |
| 803a        | 2.5                          | 0.5          | 15.2                        | 2.9          | 6.9            | 0.2              | 3.8                          | 20.8                        | 47.0           | 2.2              |
| 803b        | 2.5                          | 0.5          | 15.1                        | 2.9          | 6.8            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 804         | 2.5                          | 0.5          | 15.1                        | 2.9          | 6.8            | 0.2              | 3.8                          | 20.8                        | 47.0           | 2.2              |
| 805         | 2.5                          | 0.5          | 15.1                        | 2.9          | 6.8            | 0.2              | 3.8                          | 20.8                        | 46.9           | 2.2              |
| 806         | 2.2                          | 0.5          | 13.0                        | 2.6          | 6.2            | 0.2              | 3.8                          | 20.3                        | 46.0           | 2.2              |
| 807         | 2.1                          | 0.5          | 13.0                        | 2.6          | 6.2            | 0.2              | 3.8                          | 20.3                        | 46.0           | 2.2              |
| 808         | 2.1                          | 0.5          | 12.9                        | 2.6          | 6.2            | 0.2              | 3.8                          | 20.2                        | 46.0           | 2.2              |
| 809         | 2.1                          | 0.5          | 12.9                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.2                        | 46.0           | 2.2              |
| 810         | 2.1                          | 0.5          | 12.8                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.2                        | 45.9           | 2.2              |
| 811         | 2.1                          | 0.5          | 12.7                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.2                        | 45.9           | 2.2              |
| 812         | 2.1                          | 0.5          | 12.6                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.2                        | 45.9           | 2.2              |
| 813         | 2.1                          | 0.5          | 12.5                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.1                        | 45.9           | 2.2              |
| 814         | 2.1                          | 0.5          | 12.4                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.1                        | 45.9           | 2.2              |
| 815a        | 2.2                          | 0.5          | 12.4                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.1                        | 45.8           | 2.2              |
| 815b        | 2.1                          | 0.5          | 12.4                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.1                        | 45.8           | 2.2              |
| 816         | 2.2                          | 0.5          | 12.4                        | 2.7          | 6.2            | 0.2              | 3.8                          | 20.1                        | 45.8           | 2.2              |
| 817         | 2.2                          | 0.5          | 12.4                        | 2.6          | 6.2            | 0.2              | 3.8                          | 20.0                        | 45.7           | 2.2              |
| 819         | 2.1                          | 0.4          | 12.1                        | 2.5          | 5.9            | 0.2              | 3.7                          | 19.7                        | 45.3           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|             | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|             | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 820a        | 2.1                          | 0.4       | 12.0                        | 2.5       | 5.8            | 0.2              | 3.7                          | 19.6                        | 45.3           | 2.1              |
| 820b        | 2.1                          | 0.4       | 12.1                        | 2.5       | 5.9            | 0.2              | 3.7                          | 19.6                        | 45.3           | 2.1              |
| 821         | 2.1                          | 0.4       | 12.0                        | 2.5       | 5.8            | 0.2              | 3.7                          | 19.6                        | 45.2           | 2.1              |
| 822         | 2.1                          | 0.4       | 11.9                        | 2.5       | 5.8            | 0.2              | 3.7                          | 19.6                        | 45.2           | 2.1              |
| 823a        | 2.1                          | 0.4       | 11.8                        | 2.5       | 5.8            | 0.2              | 3.7                          | 19.5                        | 45.2           | 2.1              |
| 823b        | 2.1                          | 0.4       | 11.9                        | 2.5       | 5.8            | 0.2              | 3.7                          | 19.6                        | 45.2           | 2.1              |
| 824         | 2.1                          | 0.4       | 11.7                        | 2.5       | 5.7            | 0.2              | 3.7                          | 19.5                        | 45.1           | 2.1              |
| 825         | 2.0                          | 0.4       | 11.6                        | 2.5       | 5.7            | 0.2              | 3.7                          | 19.4                        | 45.1           | 2.1              |
| 826         | 2.0                          | 0.4       | 11.6                        | 2.5       | 5.7            | 0.2              | 3.7                          | 19.4                        | 45.0           | 2.1              |
| 827         | 2.0                          | 0.4       | 11.5                        | 2.4       | 5.6            | 0.2              | 3.7                          | 19.4                        | 45.0           | 2.1              |
| 828         | 2.0                          | 0.4       | 11.3                        | 2.4       | 5.6            | 0.2              | 3.7                          | 19.3                        | 44.9           | 2.1              |
| 829a        | 2.0                          | 0.4       | 11.2                        | 2.4       | 5.5            | 0.2              | 3.7                          | 19.3                        | 44.9           | 2.1              |
| 829b        | 2.0                          | 0.4       | 11.2                        | 2.4       | 5.5            | 0.2              | 3.7                          | 19.3                        | 44.9           | 2.1              |
| 830         | 1.9                          | 0.4       | 11.1                        | 2.4       | 5.5            | 0.2              | 3.7                          | 19.2                        | 44.8           | 2.1              |
| 831         | 1.9                          | 0.4       | 11.1                        | 2.4       | 5.5            | 0.2              | 3.7                          | 19.2                        | 44.8           | 2.1              |
| 832         | 1.9                          | 0.4       | 11.0                        | 2.4       | 5.4            | 0.2              | 3.7                          | 19.2                        | 44.8           | 2.1              |
| 833         | 1.9                          | 0.4       | 10.9                        | 2.3       | 5.4            | 0.2              | 3.7                          | 19.2                        | 44.7           | 2.1              |
| 834         | 1.9                          | 0.4       | 10.8                        | 2.3       | 5.3            | 0.2              | 3.7                          | 19.2                        | 44.7           | 2.1              |
| 835         | 1.9                          | 0.4       | 10.8                        | 2.3       | 5.3            | 0.2              | 3.7                          | 19.1                        | 44.6           | 2.1              |
| 836         | 1.9                          | 0.4       | 10.8                        | 2.3       | 5.3            | 0.2              | 3.7                          | 19.1                        | 44.6           | 2.1              |
| 837         | 1.9                          | 0.4       | 10.8                        | 2.3       | 5.2            | 0.2              | 3.7                          | 19.1                        | 44.5           | 2.1              |
| 838         | 1.9                          | 0.4       | 10.7                        | 2.3       | 5.2            | 0.2              | 3.7                          | 19.1                        | 44.5           | 2.1              |
| 839         | 1.9                          | 0.4       | 10.7                        | 2.2       | 5.1            | 0.2              | 3.7                          | 19.0                        | 44.4           | 2.1              |
| 840         | 1.9                          | 0.4       | 10.7                        | 2.2       | 5.1            | 0.2              | 3.6                          | 19.0                        | 44.4           | 2.1              |
| 841         | 1.9                          | 0.4       | 10.6                        | 2.2       | 5.1            | 0.2              | 3.6                          | 19.0                        | 44.3           | 2.1              |
| 843a        | 1.8                          | 0.4       | 10.5                        | 2.2       | 4.9            | 0.2              | 3.6                          | 18.9                        | 44.1           | 2.1              |
| 843b        | 1.9                          | 0.4       | 10.7                        | 2.2       | 5.0            | 0.2              | 3.6                          | 18.9                        | 44.2           | 2.1              |
| 844a        | 1.8                          | 0.4       | 10.3                        | 2.1       | 4.6            | 0.2              | 3.6                          | 18.7                        | 43.9           | 2.1              |
| 845         | 1.8                          | 0.3       | 9.9                         | 1.9       | 4.3            | 0.2              | 3.6                          | 18.6                        | 43.5           | 2.1              |
| 846         | 1.8                          | 0.3       | 9.9                         | 1.9       | 4.3            | 0.2              | 3.6                          | 18.6                        | 43.5           | 2.1              |
| 847         | 1.7                          | 0.3       | 9.9                         | 1.9       | 4.3            | 0.2              | 3.6                          | 18.6                        | 43.5           | 2.1              |
| 848         | 1.7                          | 0.3       | 9.8                         | 1.9       | 4.2            | 0.1              | 3.6                          | 18.6                        | 43.4           | 2.1              |
| 849         | 1.7                          | 0.3       | 9.7                         | 1.9       | 4.2            | 0.1              | 3.6                          | 18.6                        | 43.4           | 2.1              |
| 850         | 1.7                          | 0.3       | 9.7                         | 1.9       | 4.2            | 0.1              | 3.6                          | 18.6                        | 43.3           | 2.1              |
| 853         | 1.7                          | 0.3       | 9.5                         | 1.8       | 4.1            | 0.1              | 3.6                          | 18.5                        | 43.2           | 2.1              |
| 854         | 1.7                          | 0.3       | 9.4                         | 1.8       | 4.0            | 0.1              | 3.6                          | 18.5                        | 43.2           | 2.1              |
| 855         | 1.7                          | 0.3       | 9.4                         | 1.8       | 4.0            | 0.1              | 3.6                          | 18.5                        | 43.2           | 2.1              |
| 856         | 1.7                          | 0.3       | 9.3                         | 1.8       | 3.9            | 0.1              | 3.5                          | 18.5                        | 43.1           | 2.1              |
| 857         | 1.7                          | 0.3       | 9.3                         | 1.8       | 3.9            | 0.1              | 3.5                          | 18.5                        | 43.1           | 2.1              |
| 858         | 1.7                          | 0.3       | 9.2                         | 1.7       | 3.9            | 0.1              | 3.5                          | 18.5                        | 43.1           | 2.1              |
| 859         | 1.6                          | 0.3       | 9.1                         | 1.7       | 3.8            | 0.1              | 3.5                          | 18.5                        | 43.0           | 2.1              |
| 860         | 1.6                          | 0.3       | 9.1                         | 1.7       | 3.8            | 0.1              | 3.5                          | 18.5                        | 43.0           | 2.1              |
| 861         | 1.6                          | 0.3       | 9.0                         | 1.7       | 3.8            | 0.1              | 3.5                          | 18.4                        | 43.0           | 2.1              |
| 862         | 1.6                          | 0.3       | 9.0                         | 1.7       | 3.8            | 0.1              | 3.5                          | 18.4                        | 42.9           | 2.1              |
| 863         | 1.6                          | 0.3       | 8.8                         | 1.7       | 3.7            | 0.1              | 3.5                          | 18.4                        | 42.8           | 2.1              |
| 864         | 1.6                          | 0.3       | 8.7                         | 1.6       | 3.6            | 0.1              | 3.5                          | 18.4                        | 42.8           | 2.1              |
| 865         | 1.6                          | 0.3       | 8.7                         | 1.6       | 3.6            | 0.1              | 3.5                          | 18.4                        | 42.8           | 2.1              |
| 866         | 1.5                          | 0.3       | 8.3                         | 1.5       | 3.4            | 0.1              | 3.5                          | 18.4                        | 42.4           | 2.1              |
| 867         | 1.5                          | 0.3       | 8.2                         | 1.5       | 3.4            | 0.1              | 3.5                          | 18.4                        | 42.4           | 2.1              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 868         | 1.5                          | 0.3          | 8.2                         | 1.5          | 3.3            | 0.1              | 3.5                          | 18.4                        | 42.4           | 2.1              |
| 870         | 1.5                          | 0.3          | 8.1                         | 1.5          | 3.3            | 0.1              | 3.5                          | 18.3                        | 42.3           | 2.1              |
| 871         | 1.5                          | 0.3          | 8.0                         | 1.5          | 3.3            | 0.1              | 3.5                          | 18.3                        | 42.2           | 2.1              |
| 872a        | 1.5                          | 0.3          | 7.9                         | 1.5          | 3.3            | 0.1              | 3.5                          | 18.3                        | 42.2           | 2.1              |
| 900a        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 900b        | 1.0                          | 0.1          | 6.1                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.2                        | 41.9           | 2.1              |
| 901         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.2           | 2.1              |
| 902         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.2           | 2.1              |
| 903         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.2           | 2.1              |
| 904         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.1           | 2.1              |
| 905         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.1           | 2.1              |
| 906         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.9                        | 41.0           | 2.1              |
| 907         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.0           | 2.1              |
| 908         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 909         | 1.1                          | 0.1          | 6.9                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 40.8           | 2.1              |
| 911         | 1.1                          | 0.1          | 6.7                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 40.8           | 2.1              |
| 912         | 1.1                          | 0.1          | 6.7                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 913         | 1.1                          | 0.1          | 6.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 914         | 1.0                          | 0.1          | 6.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.0           | 2.1              |
| 915         | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 916         | 1.0                          | 0.1          | 6.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 917         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 918         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.2           | 2.1              |
| 919         | 1.0                          | 0.1          | 6.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 920         | 1.0                          | 0.1          | 6.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 921         | 1.0                          | 0.1          | 6.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 922         | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 924         | 1.1                          | 0.1          | 6.5                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 925         | 1.1                          | 0.1          | 6.5                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 926         | 1.1                          | 0.1          | 6.5                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.4           | 2.1              |
| 927         | 1.1                          | 0.1          | 6.6                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.4           | 2.1              |
| 928         | 1.1                          | 0.1          | 6.6                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.5           | 2.1              |
| 929         | 1.1                          | 0.1          | 6.6                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.0                        | 41.5           | 2.1              |
| 930         | 1.0                          | 0.1          | 6.4                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.1                        | 41.7           | 2.1              |
| 931         | 1.0                          | 0.1          | 6.3                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.7           | 2.1              |
| 932a        | 1.0                          | 0.1          | 6.2                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.7           | 2.1              |
| 932b        | 1.0                          | 0.1          | 6.1                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.8           | 2.1              |
| 933         | 1.0                          | 0.1          | 6.2                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 934         | 1.0                          | 0.1          | 6.2                         | 0.5          | 0.9            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 935a        | 1.0                          | 0.1          | 6.1                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.5           | 2.1              |
| 935b        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.4           | 2.1              |
| 936         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 937         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.7           | 2.1              |
| 938         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.8           | 2.1              |
| 939         | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.2                        | 41.9           | 2.1              |
| 940         | 1.0                          | 0.1          | 5.9                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 42.0           | 2.2              |
| 941         | 0.9                          | 0.1          | 5.8                         | 0.5          | 0.9            | 0.0              | 3.5                          | 19.3                        | 42.1           | 2.2              |
| 942         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.4                        | 42.2           | 2.2              |
| 943         | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 42.1           | 2.2              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 944         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 42.0           | 2.2              |
| 945a        | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.3                        | 41.8           | 2.2              |
| 945b        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.8           | 2.2              |
| 946         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.7           | 2.1              |
| 947         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.6           | 2.1              |
| 948         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.3           | 2.1              |
| 949         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.4           | 2.1              |
| 950         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.3           | 2.1              |
| 951         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 41.0           | 2.1              |
| 952         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 41.0           | 2.1              |
| 953         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.8           | 2.1              |
| 954         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.9                        | 40.8           | 2.1              |
| 955         | 0.8                          | 0.1          | 5.2                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.1           | 2.1              |
| 956         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.6           | 2.1              |
| 957a        | 1.0                          | 0.1          | 6.0                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.1           | 2.1              |
| 957b        | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.7           | 2.1              |
| 958         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.0                        | 40.9           | 2.1              |
| 959         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.1                        | 41.0           | 2.1              |
| 960         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.2                        | 41.2           | 2.1              |
| 961         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.4           | 2.1              |
| 962         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.3                        | 41.6           | 2.1              |
| 963         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.4                        | 41.8           | 2.2              |
| 964         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.5                        | 42.0           | 2.2              |
| 965         | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.8            | 0.0              | 3.5                          | 19.6                        | 41.9           | 2.2              |
| 966         | 0.7                          | 0.1          | 4.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.5                        | 41.6           | 2.1              |
| 967a        | 0.7                          | 0.1          | 4.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.5                        | 41.4           | 2.1              |
| 967b        | 0.7                          | 0.1          | 4.5                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.5                        | 41.3           | 2.1              |
| 968         | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.8            | 0.0              | 3.4                          | 19.4                        | 41.3           | 2.1              |
| 969         | 0.7                          | 0.1          | 4.5                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.3                        | 41.1           | 2.1              |
| 970         | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.2                        | 40.9           | 2.1              |
| 971         | 0.8                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 40.8           | 2.1              |
| 972         | 0.7                          | 0.1          | 4.6                         | 0.4          | 0.7            | 0.0              | 3.4                          | 19.1                        | 40.6           | 2.1              |
| 973         | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.4                          | 18.9                        | 40.5           | 2.1              |
| 974         | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.9                        | 40.3           | 2.1              |
| 976         | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 977a        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 977b        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.1           | 2.1              |
| 978         | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.4           | 2.1              |
| 979a        | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 979b        | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.3           | 2.1              |
| 980         | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.2                        | 39.0           | 2.1              |
| 981a        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.2                        | 39.0           | 2.1              |
| 981b        | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 982         | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 983         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 984         | 0.8                          | 0.1          | 5.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 985         | 0.8                          | 0.1          | 5.1                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 986         | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 987         | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.5           | 2.1              |

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| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 988a        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.5           | 2.1              |
| 988b        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 989a        | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.5           | 2.1              |
| 989b        | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.6           | 2.1              |
| 990         | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.4                        | 39.7           | 2.1              |
| 991         | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.5                        | 39.8           | 2.1              |
| 992         | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| 993a        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.7                        | 40.2           | 2.1              |
| 993b        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.1           | 2.1              |
| 994a        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.6                        | 40.1           | 2.1              |
| 994b        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 40.1           | 2.1              |
| 995         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.3                          | 18.7                        | 40.2           | 2.1              |
| 997         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.8                        | 40.4           | 2.1              |
| 998         | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.8            | 0.0              | 3.4                          | 18.8                        | 40.6           | 2.1              |
| 999         | 1.1                          | 0.1          | 6.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1000        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1001        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.3           | 2.1              |
| 1002        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1003        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| 1004        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1005        | 1.0                          | 0.1          | 6.4                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1006        | 1.0                          | 0.1          | 6.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| 1007        | 1.0                          | 0.1          | 6.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1008        | 1.0                          | 0.1          | 6.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1009        | 1.0                          | 0.1          | 6.1                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.7           | 2.1              |
| 1010        | 1.0                          | 0.1          | 6.1                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| 1011        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1012        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.1                        | 39.1           | 2.1              |
| 1014        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.3           | 2.1              |
| 1015        | 1.0                          | 0.1          | 6.2                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.3                        | 39.4           | 2.1              |
| 1016        | 1.0                          | 0.1          | 6.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.3           | 2.1              |
| 1017        | 1.0                          | 0.1          | 6.0                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.1                        | 39.1           | 2.1              |
| 1018        | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| 1019        | 1.0                          | 0.1          | 6.0                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| 1020        | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1021        | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1022        | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.7           | 2.1              |
| 1023        | 1.0                          | 0.1          | 5.9                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1024        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1025        | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.1           | 2.1              |
| 1026        | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1027        | 0.9                          | 0.1          | 5.6                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.2           | 2.1              |
| 1028        | 0.9                          | 0.1          | 5.4                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.1           | 2.1              |
| 1029        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1030        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1031        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1032        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1033        | 0.9                          | 0.1          | 5.3                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| 1034        | 0.9                          | 0.1          | 5.3                         | 0.3          | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |

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| Receptor ID          | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|----------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                      | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                      | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                      | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                      | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 1035                 | 0.8                          | 0.1       | 5.1                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.1              |
| 1036a                | 0.8                          | 0.1       | 4.9                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| 1036b                | 0.8                          | 0.1       | 5.0                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.1              |
| 1037                 | 0.8                          | 0.1       | 5.0                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| 1038                 | 0.8                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.5           | 2.1              |
| 1039                 | 0.8                          | 0.1       | 5.0                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| 1040                 | 0.8                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.7           | 2.1              |
| 1041                 | 0.8                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| 1042                 | 0.8                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| 1043                 | 0.8                          | 0.1       | 5.1                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1044                 | 0.8                          | 0.1       | 5.0                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.1                        | 38.9           | 2.1              |
| 1045                 | 0.8                          | 0.1       | 4.7                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| 1046                 | 0.8                          | 0.1       | 4.7                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.1           | 2.0              |
| 1076a                | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 16.6                        | 37.8           | 2.0              |
| 1076b                | 0.8                          | 0.1       | 4.8                         | 0.4       | 0.7            | 0.0              | 3.2                          | 16.6                        | 37.8           | 2.0              |
| 1077                 | 0.7                          | 0.1       | 4.2                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.6           | 2.1              |
| 1078                 | 0.6                          | 0.1       | 3.7                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.3           | 2.0              |
| 1079                 | 0.6                          | 0.1       | 3.4                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.1           | 2.0              |
| 1080                 | 0.6                          | 0.1       | 3.4                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.0           | 2.0              |
| 1081                 | 0.6                          | 0.1       | 3.8                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.2           | 2.0              |
| 1082a                | 0.7                          | 0.1       | 4.1                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.3           | 2.0              |
| 1082b                | 0.7                          | 0.1       | 4.3                         | 0.3       | 0.6            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.0              |
| 1083                 | 0.4                          | 0.0       | 2.3                         | 0.2       | 0.3            | 0.0              | 3.0                          | 15.9                        | 36.0           | 1.9              |
| 1084                 | 0.4                          | 0.0       | 1.6                         | 0.1       | 0.2            | 0.0              | 3.0                          | 15.8                        | 35.8           | 1.9              |
| 1100a                | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.1            | 0.0              | 3.2                          | 9.2                         | 38.7           | 1.9              |
| 1100b                | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.1            | 0.0              | 3.2                          | 9.3                         | 38.6           | 1.9              |
| 3001                 | 1.4                          | 0.3       | 8.2                         | 1.5       | 3.3            | 0.1              | 3.4                          | 14.1                        | 40.6           | 2.1              |
| 3002a                | 1.4                          | 0.3       | 8.0                         | 1.7       | 3.8            | 0.1              | 3.4                          | 15.1                        | 40.9           | 2.0              |
| 3002b                | 1.4                          | 0.3       | 8.0                         | 1.7       | 3.8            | 0.1              | 3.4                          | 15.1                        | 41.0           | 2.0              |
| 3003                 | 1.9                          | 0.4       | 11.2                        | 2.5       | 5.8            | 0.2              | 3.6                          | 16.0                        | 44.0           | 2.1              |
| 3004                 | 1.8                          | 0.4       | 10.7                        | 2.4       | 5.5            | 0.1              | 3.6                          | 15.9                        | 43.6           | 2.1              |
| 3005a                | 1.7                          | 0.4       | 9.8                         | 2.1       | 4.8            | 0.1              | 3.5                          | 15.7                        | 42.4           | 2.1              |
| 3005b                | 1.6                          | 0.3       | 9.3                         | 1.9       | 4.5            | 0.1              | 3.4                          | 15.7                        | 41.9           | 2.0              |
| 3005c                | 1.7                          | 0.4       | 9.8                         | 2.1       | 4.8            | 0.1              | 3.5                          | 15.7                        | 42.5           | 2.1              |
| Mine-owned receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 45                   | 0.6                          | 0.1       | 3.5                         | 0.3       | 0.6            | 0.0              | 4.4                          | 19.5                        | 55.3           | 2.4              |
| 45b                  | 0.6                          | 0.1       | 3.5                         | 0.3       | 0.6            | 0.0              | 4.4                          | 19.6                        | 55.5           | 2.4              |
| 45c                  | 0.6                          | 0.1       | 3.6                         | 0.3       | 0.6            | 0.0              | 4.4                          | 19.7                        | 55.7           | 2.5              |
| 74                   | 3.6                          | 0.8       | 21.4                        | 4.6       | 11.2           | 0.3              | 4.2                          | 21.1                        | 51.7           | 2.2              |
| 118                  | 4.7                          | 1.0       | 27.7                        | 6.1       | 14.7           | 0.4              | 4.3                          | 19.6                        | 54.1           | 2.3              |
| 120                  | 4.5                          | 1.0       | 26.5                        | 6.0       | 14.3           | 0.4              | 4.3                          | 19.2                        | 53.6           | 2.3              |
| 120c                 | 4.6                          | 1.0       | 26.9                        | 6.0       | 14.5           | 0.4              | 4.3                          | 19.3                        | 53.8           | 2.3              |
| 121                  | 4.7                          | 1.0       | 27.6                        | 6.2       | 14.8           | 0.4              | 4.3                          | 19.4                        | 54.1           | 2.4              |
| 526                  | 2.8                          | 0.6       | 17.3                        | 3.6       | 8.7            | 0.2              | 4.0                          | 21.2                        | 48.6           | 2.2              |
| 23                   | 2.4                          | 0.6       | 15.1                        | 3.7       | 8.9            | 0.2              | 4.5                          | 19.5                        | 55.7           | 2.3              |
| 68                   | 3.7                          | 0.8       | 22.0                        | 4.5       | 11.1           | 0.3              | 4.2                          | 21.1                        | 51.8           | 2.2              |
| 80a                  | 2.8                          | 0.6       | 17.1                        | 3.6       | 8.6            | 0.2              | 3.9                          | 21.2                        | 48.5           | 2.2              |
| 139                  | 2.7                          | 0.4       | 15.6                        | 2.3       | 5.0            | 0.2              | 3.6                          | 15.2                        | 44.1           | 2.2              |
| 158                  | 4.0                          | 0.5       | 22.0                        | 2.8       | 5.9            | 0.1              | 3.8                          | 14.2                        | 46.9           | 2.2              |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 231         | 2.9                          | 0.6          | 17.6                        | 3.7          | 8.9            | 0.2              | 4.0                          | 21.2                        | 48.8           | 2.2              |
| 263         | 1.2                          | 0.1          | 7.5                         | 0.4          | 0.7            | 0.0              | 4.6                          | 22.1                        | 58.0           | 2.2              |
| 1p          | 3.9                          | 0.9          | 22.8                        | 5.5          | 13.1           | 0.4              | 4.2                          | 18.7                        | 52.3           | 2.3              |
| 1r          | 48.1                         | 10.6         | 265.1                       | 62.2         | 169.2          | 5.5              | 13.9                         | 62.9                        | 208.3          | 7.4              |
| 1s          | 27.1                         | 4.7          | 146.8                       | 27.5         | 66.1           | 2.4              | 7.9                          | 36.7                        | 105.6          | 4.4              |
| 1v          | 34.1                         | 6.1          | 196.0                       | 37.5         | 102.2          | 4.2              | 9.4                          | 44.1                        | 140.9          | 6.1              |
| 1w          | 71.7                         | 16.1         | 397.3                       | 93.7         | 282.2          | 8.1              | 19.4                         | 94.9                        | 321.3          | 10.0             |
| 1x          | 73.7                         | 21.1         | 434.3                       | 125.7        | 431.4          | 16.3             | 24.4                         | 139.6                       | 470.2          | 18.2             |
| 1z          | 3.0                          | 0.4          | 17.9                        | 2.6          | 5.5            | 0.1              | 3.7                          | 13.0                        | 45.8           | 2.1              |
| 1ab         | 3.2                          | 0.5          | 19.0                        | 2.7          | 5.9            | 0.1              | 3.8                          | 13.3                        | 46.3           | 2.1              |
| 1ac         | 2.8                          | 0.7          | 15.7                        | 4.0          | 9.5            | 0.2              | 4.5                          | 19.8                        | 54.9           | 2.3              |
| 1ae         | 3.6                          | 0.9          | 20.7                        | 5.3          | 12.9           | 0.3              | 4.5                          | 19.4                        | 56.7           | 2.3              |
| 1af         | 4.1                          | 0.8          | 24.3                        | 4.8          | 12.0           | 0.3              | 4.3                          | 20.6                        | 53.6           | 2.3              |
| 1ah         | 3.8                          | 0.8          | 22.4                        | 4.7          | 11.6           | 0.3              | 4.2                          | 21.0                        | 52.2           | 2.3              |
| 1aj         | 3.7                          | 0.8          | 22.0                        | 4.6          | 11.5           | 0.3              | 4.2                          | 21.1                        | 52.0           | 2.2              |
| 1ak         | 3.7                          | 0.8          | 21.8                        | 4.6          | 11.4           | 0.3              | 4.2                          | 21.1                        | 51.9           | 2.2              |
| 1am         | 3.5                          | 0.8          | 20.1                        | 4.6          | 11.1           | 0.3              | 4.1                          | 20.8                        | 50.9           | 2.2              |
| 1bb         | 4.4                          | 0.9          | 25.8                        | 5.2          | 13.1           | 0.3              | 4.3                          | 20.5                        | 54.2           | 2.3              |
| 1be         | 8.5                          | 1.0          | 46.2                        | 5.6          | 12.1           | 0.4              | 4.4                          | 15.8                        | 53.5           | 2.4              |
| 2i          | 4.2                          | 0.8          | 24.6                        | 5.0          | 12.4           | 0.3              | 4.3                          | 20.4                        | 54.3           | 2.3              |
| 35          | 3.7                          | 0.7          | 21.7                        | 4.1          | 10.2           | 0.2              | 4.2                          | 21.2                        | 51.8           | 2.2              |
| 35b         | 3.7                          | 0.7          | 21.8                        | 4.2          | 10.4           | 0.2              | 4.2                          | 21.2                        | 51.8           | 2.2              |
| 257         | 0.6                          | 0.1          | 3.8                         | 0.3          | 0.6            | 0.0              | 4.8                          | 24.4                        | 59.7           | 2.2              |
| 246         | 0.8                          | 0.1          | 3.9                         | 0.4          | 0.9            | 0.0              | 7.9                          | 58.0                        | 103.6          | 2.6              |
| 246b        | 0.8                          | 0.1          | 3.9                         | 0.4          | 0.8            | 0.0              | 7.8                          | 57.2                        | 101.8          | 2.6              |
| 2b          | 4.2                          | 0.9          | 24.2                        | 5.6          | 12.9           | 0.3              | 5.1                          | 21.6                        | 64.6           | 2.5              |
| 2d          | 3.1                          | 0.5          | 17.6                        | 3.2          | 7.8            | 0.2              | 4.0                          | 21.6                        | 49.4           | 2.2              |
| 2e          | 4.2                          | 1.0          | 23.9                        | 5.8          | 13.7           | 0.3              | 4.7                          | 19.5                        | 58.4           | 2.4              |
| 2n          | 0.8                          | 0.1          | 4.2                         | 0.5          | 0.9            | 0.0              | 8.4                          | 64.0                        | 111.2          | 2.6              |
| 2o          | 0.7                          | 0.1          | 3.6                         | 0.4          | 0.8            | 0.0              | 6.6                          | 45.3                        | 86.0           | 2.4              |
| 2p          | 0.7                          | 0.1          | 3.5                         | 0.4          | 0.8            | 0.0              | 6.5                          | 43.8                        | 84.1           | 2.4              |
| 2r          | 0.7                          | 0.1          | 3.5                         | 0.4          | 0.8            | 0.0              | 6.5                          | 44.0                        | 83.8           | 2.4              |
| 2s          | 0.7                          | 0.1          | 3.4                         | 0.4          | 0.8            | 0.0              | 6.5                          | 43.9                        | 83.5           | 2.4              |
| 2w          | 0.7                          | 0.1          | 3.8                         | 0.4          | 0.7            | 0.0              | 5.1                          | 28.4                        | 64.0           | 2.2              |
| 2x          | 2.2                          | 0.5          | 13.4                        | 2.9          | 6.8            | 0.1              | 4.9                          | 19.9                        | 60.2           | 2.4              |
| 2y          | 2.2                          | 0.5          | 13.8                        | 3.1          | 7.0            | 0.1              | 4.8                          | 19.8                        | 60.0           | 2.4              |
| 2z          | 2.3                          | 0.5          | 14.0                        | 3.1          | 7.2            | 0.1              | 4.8                          | 19.6                        | 59.4           | 2.4              |
| 2aa         | 2.3                          | 0.5          | 14.2                        | 3.2          | 7.2            | 0.1              | 4.8                          | 19.9                        | 60.1           | 2.4              |
| 2ab         | 2.3                          | 0.5          | 14.0                        | 3.2          | 7.3            | 0.1              | 4.8                          | 19.5                        | 59.2           | 2.4              |
| 2ad         | 2.3                          | 0.5          | 14.1                        | 3.2          | 7.5            | 0.1              | 4.8                          | 19.4                        | 58.7           | 2.3              |
| 2af         | 2.3                          | 0.6          | 13.9                        | 3.3          | 7.7            | 0.2              | 4.7                          | 19.2                        | 58.1           | 2.3              |
| 2ai         | 2.9                          | 0.6          | 16.7                        | 3.8          | 8.7            | 0.2              | 5.2                          | 23.0                        | 65.7           | 2.5              |
| 2aj         | 2.6                          | 0.7          | 15.6                        | 3.9          | 9.2            | 0.2              | 4.6                          | 19.5                        | 57.1           | 2.3              |
| 2al         | 4.2                          | 0.9          | 24.3                        | 5.6          | 12.8           | 0.2              | 5.1                          | 21.9                        | 64.9           | 2.5              |
| 2am         | 2.2                          | 0.6          | 13.6                        | 3.3          | 7.6            | 0.1              | 4.7                          | 19.1                        | 57.8           | 2.3              |
| 2an         | 0.7                          | 0.1          | 3.3                         | 0.4          | 0.8            | 0.0              | 6.4                          | 42.5                        | 81.9           | 2.4              |
| 2ao         | 0.7                          | 0.1          | 3.4                         | 0.4          | 0.8            | 0.0              | 6.4                          | 43.2                        | 82.9           | 2.4              |
| 300         | 0.5                          | 0.0          | 2.1                         | 0.2          | 0.4            | 0.0              | 4.9                          | 25.1                        | 59.3           | 2.2              |
| 298         | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 5.0                          | 26.6                        | 61.1           | 2.2              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 296a        | 0.5                          | 0.0          | 2.4                         | 0.3          | 0.5            | 0.0              | 5.4                          | 30.5                        | 66.3           | 2.2              |
| 296b        | 0.5                          | 0.0          | 2.3                         | 0.2          | 0.5            | 0.0              | 5.3                          | 29.0                        | 64.2           | 2.2              |
| 487         | 0.6                          | 0.1          | 2.7                         | 0.3          | 0.6            | 0.0              | 6.4                          | 40.5                        | 79.1           | 2.4              |
| 488a        | 0.7                          | 0.1          | 3.1                         | 0.3          | 0.7            | 0.0              | 8.5                          | 62.1                        | 105.2          | 2.7              |
| 488b        | 0.7                          | 0.1          | 3.3                         | 0.4          | 0.7            | 0.0              | 7.4                          | 51.1                        | 93.0           | 2.5              |
| 7           | 2.0                          | 0.5          | 12.2                        | 2.7          | 6.1            | 0.1              | 4.8                          | 19.7                        | 60.0           | 2.3              |
| 211         | 1.9                          | 0.4          | 11.5                        | 2.4          | 5.6            | 0.1              | 4.5                          | 17.5                        | 53.9           | 2.3              |
| 299         | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 5.0                          | 26.1                        | 60.5           | 2.2              |
| 487b        | 0.6                          | 0.1          | 2.8                         | 0.3          | 0.6            | 0.0              | 6.3                          | 39.2                        | 77.8           | 2.4              |
| 5f          | 2.0                          | 0.5          | 12.5                        | 2.7          | 6.3            | 0.1              | 4.9                          | 19.8                        | 60.1           | 2.4              |
| 5g          | 2.1                          | 0.5          | 12.9                        | 2.8          | 6.5            | 0.1              | 4.9                          | 19.9                        | 60.3           | 2.4              |
| 5i          | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 4.9                          | 25.6                        | 59.2           | 2.1              |
| 5j          | 0.3                          | 0.0          | 1.3                         | 0.1          | 0.3            | 0.0              | 3.8                          | 13.9                        | 45.0           | 2.0              |
| 5k          | 0.5                          | 0.0          | 2.2                         | 0.2          | 0.4            | 0.0              | 5.1                          | 27.2                        | 61.6           | 2.2              |
| 5l          | 0.5                          | 0.0          | 2.5                         | 0.3          | 0.5            | 0.0              | 5.6                          | 32.6                        | 68.8           | 2.3              |
| 5m          | 0.8                          | 0.1          | 3.8                         | 0.4          | 0.8            | 0.0              | 13.7                         | 121.1                       | 174.8          | 3.6              |
| 5p          | 0.8                          | 0.1          | 3.7                         | 0.4          | 0.8            | 0.0              | 9.3                          | 71.3                        | 118.9          | 2.8              |
| 5r          | 1.2                          | 0.2          | 6.6                         | 1.1          | 2.3            | 0.0              | 10.8                         | 96.1                        | 150.4          | 2.8              |
| 5t          | 1.3                          | 0.2          | 6.7                         | 1.4          | 3.0            | 0.1              | 6.9                          | 46.6                        | 92.7           | 2.4              |
| 5v          | 0.4                          | 0.0          | 2.3                         | 0.2          | 0.4            | 0.0              | 4.4                          | 20.0                        | 53.0           | 2.1              |
| 5x          | 0.4                          | 0.0          | 2.4                         | 0.2          | 0.4            | 0.0              | 4.4                          | 20.2                        | 53.3           | 2.1              |
| 5y          | 1.3                          | 0.3          | 7.6                         | 1.7          | 3.9            | 0.1              | 4.8                          | 17.5                        | 57.6           | 2.2              |
| 5z          | 1.3                          | 0.3          | 7.6                         | 1.7          | 3.9            | 0.1              | 4.7                          | 16.9                        | 56.9           | 2.2              |
| 5aa         | 1.3                          | 0.3          | 7.6                         | 1.8          | 3.9            | 0.1              | 4.7                          | 17.2                        | 57.3           | 2.2              |
| 5ab         | 1.3                          | 0.3          | 8.2                         | 1.6          | 3.6            | 0.1              | 4.5                          | 15.1                        | 53.7           | 2.2              |
| 5ad         | 1.4                          | 0.3          | 8.8                         | 1.7          | 3.8            | 0.1              | 4.5                          | 14.9                        | 53.1           | 2.2              |
| 5af         | 1.3                          | 0.3          | 8.5                         | 1.6          | 3.7            | 0.1              | 4.5                          | 14.9                        | 53.3           | 2.2              |
| 5ag         | 0.4                          | 0.0          | 1.7                         | 0.2          | 0.4            | 0.0              | 4.7                          | 23.5                        | 54.7           | 2.1              |
| 5ah         | 0.3                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.9                        | 45.6           | 2.0              |
| 5ai         | 0.4                          | 0.0          | 1.8                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.0                        | 50.9           | 2.0              |
| 5aj         | 0.5                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 7.1                          | 48.3                        | 87.0           | 2.5              |
| 5ak         | 0.6                          | 0.1          | 2.6                         | 0.3          | 0.5            | 0.0              | 7.0                          | 46.2                        | 84.9           | 2.4              |
| 5al         | 0.4                          | 0.0          | 1.6                         | 0.2          | 0.3            | 0.0              | 4.2                          | 18.3                        | 50.1           | 2.0              |
| 5am         | 1.0                          | 0.1          | 4.8                         | 0.6          | 1.3            | 0.0              | 17.9                         | 190.3                       | 242.0          | 4.1              |
| 3a          | 1.4                          | 0.2          | 8.1                         | 0.9          | 1.8            | 0.0              | 3.5                          | 16.3                        | 43.2           | 2.1              |
| 3b          | 1.4                          | 0.2          | 8.1                         | 0.9          | 1.8            | 0.0              | 3.5                          | 16.2                        | 42.9           | 2.1              |
| 3c          | 3.0                          | 0.4          | 17.4                        | 2.2          | 4.7            | 0.1              | 3.7                          | 13.5                        | 44.7           | 2.1              |
| 3d          | 1.3                          | 0.1          | 7.8                         | 0.8          | 1.6            | 0.0              | 3.5                          | 16.4                        | 43.1           | 2.1              |
| 3e          | 1.3                          | 0.1          | 7.7                         | 0.8          | 1.6            | 0.0              | 3.5                          | 16.4                        | 43.0           | 2.1              |
| 3f          | 1.2                          | 0.1          | 6.9                         | 0.7          | 1.4            | 0.0              | 3.5                          | 16.5                        | 42.6           | 2.1              |
| 3g          | 3.1                          | 0.4          | 17.0                        | 2.1          | 4.3            | 0.1              | 3.5                          | 13.6                        | 42.6           | 2.1              |
| 3i          | 1.5                          | 0.2          | 9.0                         | 0.9          | 1.7            | 0.0              | 3.3                          | 14.6                        | 39.3           | 2.0              |
| 3j          | 1.0                          | 0.1          | 5.8                         | 0.6          | 1.1            | 0.0              | 3.3                          | 20.1                        | 40.5           | 2.0              |
| 3k          | 3.2                          | 0.4          | 18.3                        | 2.1          | 4.6            | 0.1              | 3.5                          | 14.0                        | 42.3           | 2.1              |
| 3m          | 7.8                          | 1.2          | 45.9                        | 7.1          | 17.4           | 0.4              | 5.5                          | 24.3                        | 72.9           | 3.0              |
| 3n          | 2.4                          | 0.2          | 13.5                        | 1.2          | 2.4            | 0.0              | 3.3                          | 14.5                        | 39.7           | 2.0              |
| 3o          | 4.3                          | 0.8          | 25.3                        | 5.0          | 12.1           | 0.3              | 4.2                          | 17.8                        | 53.0           | 2.4              |
| 3p          | 4.6                          | 1.0          | 27.8                        | 6.2          | 15.4           | 0.5              | 4.5                          | 19.7                        | 58.4           | 2.7              |
| 3r          | 2.2                          | 0.5          | 13.1                        | 2.7          | 6.5            | 0.1              | 3.6                          | 16.1                        | 45.0           | 2.1              |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



| Receptor ID                    | PM <sub>2.5</sub><br>(µg/m³) |           | PM <sub>10</sub><br>(µg/m³) |           | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------------------|------------------------------|-----------|-----------------------------|-----------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                | Modification impact          |           |                             |           |                |                  | Total impact                 |                             |                |                  |
|                                | 24-hr ave.                   | Ann. ave. | 24-hr ave.                  | Ann. ave. | Ann. ave.      | Ann. ave.        | Ann. ave.                    | Ann. ave.                   | Ann. ave.      | Ann. ave.        |
|                                | Air quality impact criteria  |           |                             |           |                |                  |                              |                             |                |                  |
|                                | 25                           | -         | 50                          | -         | -              | 2                | 8                            | 25                          | 90             | 4                |
| 3s                             | 2.4                          | 0.5       | 14.1                        | 3.3       | 7.8            | 0.2              | 3.8                          | 16.5                        | 46.9           | 2.2              |
| 3t                             | 3.1                          | 0.4       | 17.7                        | 2.1       | 4.4            | 0.1              | 3.5                          | 14.0                        | 42.1           | 2.1              |
| 3u                             | 2.9                          | 0.3       | 16.8                        | 1.9       | 4.1            | 0.1              | 3.5                          | 13.9                        | 41.8           | 2.0              |
| 3v                             | 8.5                          | 0.9       | 47.3                        | 5.1       | 11.4           | 0.2              | 4.5                          | 17.5                        | 57.2           | 2.4              |
| 274                            | 0.3                          | 0.0       | 1.7                         | 0.3       | 0.6            | 0.0              | 3.6                          | 14.4                        | 44.5           | 2.1              |
| 7_416                          | 0.2                          | 0.0       | 1.1                         | 0.2       | 0.4            | 0.0              | 3.6                          | 14.4                        | 43.3           | 2.1              |
| 7_463                          | 0.2                          | 0.0       | 0.8                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.9                        | 41.8           | 2.0              |
| 7b                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.4                         | 40.8           | 2.0              |
| 7c                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.5                         | 40.8           | 2.0              |
| 7d                             | 0.3                          | 0.0       | 2.1                         | 0.1       | 0.2            | 0.0              | 3.8                          | 12.9                        | 45.3           | 2.1              |
| 7e                             | 0.3                          | 0.0       | 1.5                         | 0.1       | 0.2            | 0.0              | 3.6                          | 12.1                        | 43.8           | 2.1              |
| 7f                             | 0.2                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.8                        | 42.4           | 2.0              |
| 7h                             | 0.2                          | 0.0       | 1.3                         | 0.2       | 0.5            | 0.0              | 3.7                          | 14.6                        | 45.5           | 2.1              |
| 7i                             | 0.2                          | 0.0       | 1.1                         | 0.2       | 0.4            | 0.0              | 3.6                          | 14.4                        | 44.2           | 2.1              |
| 7j                             | 0.2                          | 0.0       | 1.4                         | 0.3       | 0.6            | 0.0              | 3.7                          | 14.4                        | 45.5           | 2.1              |
| 7k                             | 0.4                          | 0.1       | 2.5                         | 0.4       | 0.9            | 0.0              | 3.5                          | 13.5                        | 42.4           | 2.0              |
| 7l                             | 0.3                          | 0.0       | 1.1                         | 0.1       | 0.2            | 0.0              | 3.4                          | 9.5                         | 40.8           | 2.0              |
| 7m                             | 0.2                          | 0.0       | 1.6                         | 0.3       | 0.5            | 0.0              | 3.8                          | 14.7                        | 46.5           | 2.2              |
| 7n                             | 0.7                          | 0.1       | 4.2                         | 0.6       | 1.2            | 0.0              | 3.7                          | 18.5                        | 47.7           | 2.4              |
| 7o                             | 0.5                          | 0.1       | 3.2                         | 0.4       | 0.8            | 0.0              | 3.6                          | 17.7                        | 47.5           | 2.3              |
| 8b                             | 0.2                          | 0.0       | 0.9                         | 0.1       | 0.1            | 0.0              | 3.3                          | 9.2                         | 39.4           | 1.9              |
| 8c                             | 0.2                          | 0.0       | 0.9                         | 0.1       | 0.1            | 0.0              | 3.3                          | 9.1                         | 39.3           | 1.9              |
| 8e                             | 0.2                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.4                         | 40.1           | 2.0              |
| 8f                             | 0.3                          | 0.0       | 1.4                         | 0.1       | 0.2            | 0.0              | 3.5                          | 10.0                        | 42.1           | 2.0              |
| 8h                             | 0.3                          | 0.0       | 1.4                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.9                        | 43.3           | 2.0              |
| 8i                             | 0.2                          | 0.0       | 1.0                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.7                        | 42.1           | 2.0              |
| 8j                             | 0.2                          | 0.0       | 0.9                         | 0.1       | 0.1            | 0.0              | 3.3                          | 9.2                         | 39.4           | 1.9              |
| 8k                             | 0.2                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.4                         | 40.2           | 2.0              |
| 8l                             | 0.3                          | 0.0       | 1.4                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.8                        | 43.2           | 2.0              |
| 8m                             | 0.3                          | 0.0       | 1.4                         | 0.1       | 0.2            | 0.0              | 3.6                          | 11.8                        | 43.3           | 2.0              |
| 8n                             | 0.2                          | 0.0       | 1.0                         | 0.1       | 0.2            | 0.0              | 3.5                          | 11.7                        | 42.1           | 2.0              |
| 8o                             | 0.2                          | 0.0       | 1.3                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.3                         | 40.7           | 2.0              |
| 8p                             | 0.2                          | 0.0       | 1.2                         | 0.1       | 0.2            | 0.0              | 3.4                          | 8.5                         | 40.9           | 2.0              |
| Mal1                           | 0.5                          | 0.1       | 2.4                         | 0.4       | 0.9            | 0.0              | 6.1                          | 15.9                        | 48.3           | 2.1              |
| Mal2                           | 0.4                          | 0.1       | 2.1                         | 0.3       | 0.7            | 0.0              | 4.2                          | 12.3                        | 42.0           | 2.0              |
| Mal3                           | 0.5                          | 0.1       | 2.3                         | 0.4       | 0.9            | 0.0              | 4.8                          | 13.5                        | 44.4           | 2.0              |
| Council/ State-owned receptors |                              |           |                             |           |                |                  |                              |                             |                |                  |
| 286e                           | 0.5                          | 0.1       | 2.5                         | 0.4       | 0.8            | 0.0              | 3.6                          | 11.1                        | 40.4           | 2.0              |
| 286f                           | 0.4                          | 0.1       | 2.4                         | 0.4       | 0.8            | 0.0              | 3.5                          | 10.8                        | 39.9           | 2.0              |
| UHSC1                          | 0.7                          | 0.0       | 4.6                         | 0.2       | 0.4            | 0.0              | 3.1                          | 16.0                        | 36.6           | 2.0              |
| N1                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N2                             | 0.9                          | 0.1       | 5.5                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.5           | 2.1              |
| N3                             | 0.9                          | 0.1       | 5.4                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N4                             | 0.9                          | 0.1       | 5.3                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N5                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.7           | 2.1              |
| N6                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N7                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| N8                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |
| N9                             | 0.9                          | 0.1       | 5.6                         | 0.4       | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.9           | 2.1              |



| Receptor ID                        | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|------------------------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                                    | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                                    | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                                    | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                                    | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| N10                                | 0.9                          | 0.1          | 5.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.1                        | 39.0           | 2.1              |
| N11                                | 0.9                          | 0.1          | 5.5                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| N12                                | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| N13                                | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.7                        | 38.2           | 2.0              |
| N14                                | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N15                                | 0.8                          | 0.1          | 4.7                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.8                        | 38.4           | 2.1              |
| N16                                | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.8                        | 38.5           | 2.1              |
| N17                                | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.5           | 2.1              |
| N18                                | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 17.9                        | 38.6           | 2.1              |
| N19                                | 0.8                          | 0.1          | 4.7                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.7           | 2.1              |
| N20                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.2                          | 18.0                        | 38.8           | 2.1              |
| N21                                | 0.8                          | 0.1          | 4.8                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.2                        | 39.1           | 2.1              |
| N22                                | 0.9                          | 0.1          | 5.0                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.8                        | 43.0           | 2.2              |
| N23                                | 0.8                          | 0.1          | 5.0                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.9                        | 43.0           | 2.2              |
| N24                                | 0.8                          | 0.1          | 5.0                         | 0.6          | 1.2            | 0.0              | 3.5                          | 15.9                        | 43.1           | 2.2              |
| N25                                | 0.7                          | 0.1          | 4.2                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.1                        | 43.3           | 2.2              |
| N26                                | 0.7                          | 0.1          | 4.2                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.2           | 2.2              |
| N27                                | 0.7                          | 0.1          | 4.1                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.3           | 2.2              |
| Aged care receptors                |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 658a                               | 2.6                          | 0.5          | 15.8                        | 2.8          | 6.7            | 0.2              | 3.9                          | 21.3                        | 47.6           | 2.2              |
| 658b                               | 2.5                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.2                        | 47.2           | 2.2              |
| 658c                               | 2.5                          | 0.5          | 15.2                        | 2.7          | 6.3            | 0.2              | 3.9                          | 21.2                        | 47.2           | 2.2              |
| 658d                               | 2.5                          | 0.5          | 15.2                        | 2.7          | 6.3            | 0.2              | 3.9                          | 21.3                        | 47.3           | 2.2              |
| 658e                               | 2.6                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.3                        | 47.3           | 2.2              |
| Prison receptors                   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| MP1                                | 0.7                          | 0.1          | 4.0                         | 0.5          | 1.0            | 0.0              | 3.5                          | 15.9                        | 43.8           | 2.2              |
| MP42                               | 0.7                          | 0.1          | 3.9                         | 0.5          | 0.9            | 0.0              | 3.5                          | 15.7                        | 44.3           | 2.2              |
| MP80                               | 0.6                          | 0.1          | 3.7                         | 0.4          | 0.8            | 0.0              | 3.5                          | 15.2                        | 44.8           | 2.2              |
| Commercial accommodation receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 622b                               | 2.7                          | 0.5          | 15.4                        | 2.8          | 6.6            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622c                               | 2.7                          | 0.5          | 15.3                        | 2.8          | 6.6            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622d                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.7                        | 47.9           | 2.2              |
| 622e                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.7                        | 47.9           | 2.2              |
| 622f                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.7                        | 47.9           | 2.2              |
| 622g                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.6                        | 47.9           | 2.2              |
| 622h                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622i                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622j                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622k                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622l                               | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622m                               | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622n                               | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.7                        | 48.0           | 2.2              |
| 622o                               | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622p                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622q                               | 2.7                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622r                               | 2.7                          | 0.5          | 15.2                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622s                               | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622t                               | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622u                               | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |



| Receptor ID          | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|----------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                      | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                      | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                      | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                      | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 622v                 | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |
| 622w                 | 2.7                          | 0.5          | 15.0                        | 2.7          | 6.3            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622x                 | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |
| 622y                 | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 48.1           | 2.2              |
| 622z                 | 2.7                          | 0.5          | 15.2                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622aa                | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 622ab                | 2.7                          | 0.5          | 15.1                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622ac                | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |
| 622ad                | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |
| 622ae                | 2.8                          | 0.5          | 15.5                        | 2.7          | 6.6            | 0.2              | 4.0                          | 21.8                        | 48.2           | 2.2              |
| 622af                | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.1           | 2.2              |
| 622ag                | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.1           | 2.2              |
| 975                  | 0.8                          | 0.1          | 4.9                         | 0.4          | 0.7            | 0.0              | 3.3                          | 18.6                        | 39.9           | 2.1              |
| Commercial receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 6                    | 1.9                          | 0.4          | 11.8                        | 2.7          | 6.1            | 0.1              | 4.8                          | 19.1                        | 59.0           | 2.3              |
| 195e                 | 1.7                          | 0.2          | 9.8                         | 1.1          | 2.4            | 0.1              | 3.4                          | 15.9                        | 41.6           | 2.1              |
| 140b-1               | 1.6                          | 0.3          | 8.7                         | 1.6          | 3.6            | 0.1              | 3.5                          | 18.4                        | 42.7           | 2.1              |
| 140b-2               | 1.6                          | 0.3          | 8.6                         | 1.6          | 3.6            | 0.1              | 3.5                          | 18.4                        | 42.7           | 2.1              |
| 140b-3               | 1.6                          | 0.3          | 8.5                         | 1.6          | 3.5            | 0.1              | 3.5                          | 18.4                        | 42.6           | 2.1              |
| 140b-4               | 1.6                          | 0.3          | 8.7                         | 1.6          | 3.6            | 0.1              | 3.5                          | 18.4                        | 42.6           | 2.1              |
| 202c                 | 2.1                          | 0.3          | 12.0                        | 2.0          | 4.4            | 0.2              | 3.6                          | 17.9                        | 43.1           | 2.1              |
| 202d                 | 2.2                          | 0.4          | 12.6                        | 2.0          | 4.6            | 0.2              | 3.6                          | 17.9                        | 43.3           | 2.1              |
| 202e                 | 2.2                          | 0.3          | 12.7                        | 2.0          | 4.5            | 0.2              | 3.6                          | 17.8                        | 43.2           | 2.1              |
| 202f                 | 2.2                          | 0.3          | 12.5                        | 2.0          | 4.4            | 0.2              | 3.6                          | 17.8                        | 43.1           | 2.1              |
| 202g                 | 2.2                          | 0.3          | 12.5                        | 2.0          | 4.4            | 0.2              | 3.6                          | 17.8                        | 43.1           | 2.1              |
| 472d                 | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.3            | 0.0              | 3.8                          | 14.2                        | 45.6           | 2.0              |
| 472e                 | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.3            | 0.0              | 3.8                          | 14.0                        | 45.4           | 2.0              |
| 472f                 | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.6                        | 46.0           | 2.0              |
| 472g                 | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.8                        | 46.1           | 2.0              |
| 472h                 | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.6                        | 46.1           | 2.0              |
| 472i                 | 0.3                          | 0.0          | 1.4                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.5                        | 46.0           | 2.0              |
| 472j                 | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.3            | 0.0              | 3.8                          | 14.3                        | 45.7           | 2.0              |
| 472k                 | 0.3                          | 0.0          | 1.4                         | 0.1          | 0.3            | 0.0              | 3.8                          | 14.1                        | 45.5           | 2.0              |
| 472l                 | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.9                          | 15.2                        | 46.6           | 2.0              |
| 472m                 | 0.3                          | 0.0          | 1.5                         | 0.2          | 0.3            | 0.0              | 3.9                          | 15.0                        | 46.4           | 2.0              |
| 489                  | 1.5                          | 0.3          | 8.3                         | 1.6          | 3.6            | 0.1              | 8.2                          | 65.5                        | 119.8          | 2.8              |
| 540                  | 2.9                          | 0.5          | 15.7                        | 2.8          | 6.6            | 0.2              | 4.1                          | 22.0                        | 49.0           | 2.2              |
| 546a                 | 3.0                          | 0.5          | 16.4                        | 3.0          | 7.1            | 0.2              | 4.1                          | 21.6                        | 50.1           | 2.2              |
| 546b                 | 3.0                          | 0.5          | 16.3                        | 2.9          | 7.1            | 0.2              | 4.1                          | 21.7                        | 49.9           | 2.2              |
| 546c                 | 3.0                          | 0.5          | 16.3                        | 3.0          | 7.1            | 0.2              | 4.1                          | 21.7                        | 49.9           | 2.2              |
| 617b                 | 2.8                          | 0.5          | 15.2                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.9                        | 48.1           | 2.2              |
| 617c                 | 2.8                          | 0.5          | 15.6                        | 2.8          | 6.6            | 0.2              | 4.0                          | 21.9                        | 48.3           | 2.2              |
| 617d                 | 2.8                          | 0.5          | 15.6                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.9                        | 48.3           | 2.2              |
| 617e                 | 2.8                          | 0.5          | 15.7                        | 2.8          | 6.6            | 0.2              | 4.0                          | 21.9                        | 48.4           | 2.2              |
| 617f                 | 2.8                          | 0.5          | 15.6                        | 2.8          | 6.6            | 0.2              | 4.0                          | 21.9                        | 48.4           | 2.2              |
| 617g                 | 2.7                          | 0.5          | 15.2                        | 2.7          | 6.3            | 0.2              | 4.0                          | 22.0                        | 48.1           | 2.2              |
| 617h                 | 2.8                          | 0.5          | 15.4                        | 2.7          | 6.4            | 0.2              | 4.0                          | 22.0                        | 48.2           | 2.2              |
| 617i                 | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.9                        | 48.2           | 2.2              |
| 620                  | 2.7                          | 0.5          | 14.8                        | 2.6          | 6.2            | 0.2              | 4.0                          | 21.8                        | 47.8           | 2.2              |

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| Receptor ID        | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|--------------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|                    | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|                    | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|                    | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|                    | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| 622ah              | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.1           | 2.2              |
| 622ai              | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.5            | 0.2              | 4.0                          | 21.8                        | 48.0           | 2.2              |
| 611aj              | 2.7                          | 0.5          | 15.0                        | 2.7          | 6.4            | 0.2              | 4.0                          | 21.8                        | 47.9           | 2.2              |
| 622ak              | 2.7                          | 0.5          | 15.0                        | 2.7          | 6.3            | 0.2              | 3.9                          | 21.8                        | 47.8           | 2.2              |
| 625                | 2.6                          | 0.5          | 14.7                        | 2.6          | 6.2            | 0.2              | 3.9                          | 21.7                        | 47.7           | 2.2              |
| 629                | 2.6                          | 0.4          | 14.5                        | 2.6          | 6.1            | 0.2              | 3.9                          | 21.8                        | 47.6           | 2.2              |
| 626                | 2.6                          | 0.4          | 14.6                        | 2.6          | 6.1            | 0.2              | 3.9                          | 21.8                        | 47.7           | 2.2              |
| 627                | 2.6                          | 0.4          | 14.6                        | 2.6          | 6.1            | 0.2              | 3.9                          | 21.8                        | 47.7           | 2.2              |
| 628                | 2.6                          | 0.4          | 14.5                        | 2.6          | 6.1            | 0.2              | 3.9                          | 21.8                        | 47.6           | 2.2              |
| 630a               | 2.5                          | 0.4          | 14.2                        | 2.5          | 5.8            | 0.2              | 3.9                          | 21.5                        | 47.1           | 2.2              |
| 630b               | 2.6                          | 0.4          | 14.5                        | 2.6          | 6.1            | 0.2              | 3.9                          | 21.7                        | 47.5           | 2.2              |
| 630c               | 2.6                          | 0.4          | 14.4                        | 2.5          | 6.0            | 0.2              | 3.9                          | 21.7                        | 47.5           | 2.2              |
| 630d               | 2.5                          | 0.4          | 14.4                        | 2.5          | 5.9            | 0.2              | 3.9                          | 21.6                        | 47.3           | 2.2              |
| 656                | 2.6                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.3                        | 47.5           | 2.2              |
| 674a               | 2.7                          | 0.5          | 16.5                        | 3.0          | 7.2            | 0.2              | 3.9                          | 21.2                        | 47.9           | 2.2              |
| 674b               | 2.7                          | 0.5          | 16.7                        | 3.0          | 7.3            | 0.2              | 3.9                          | 21.2                        | 48.0           | 2.2              |
| 818a               | 2.1                          | 0.4          | 12.3                        | 2.6          | 6.0            | 0.2              | 3.7                          | 19.7                        | 45.5           | 2.2              |
| 818b               | 2.1                          | 0.4          | 12.3                        | 2.6          | 6.0            | 0.2              | 3.7                          | 19.8                        | 45.5           | 2.2              |
| 844b               | 1.8                          | 0.4          | 10.4                        | 2.1          | 4.7            | 0.2              | 3.6                          | 18.8                        | 43.9           | 2.1              |
| 872b               | 1.5                          | 0.3          | 8.0                         | 1.5          | 3.3            | 0.1              | 3.5                          | 18.2                        | 42.2           | 2.1              |
| 1085               | 0.7                          | 0.1          | 4.2                         | 0.3          | 0.6            | 0.0              | 3.2                          | 17.6                        | 38.1           | 2.0              |
| 2ap                | 0.7                          | 0.1          | 3.7                         | 0.4          | 0.8            | 0.0              | 6.7                          | 45.9                        | 86.7           | 2.4              |
| 2aq                | 0.7                          | 0.1          | 3.4                         | 0.4          | 0.8            | 0.0              | 6.4                          | 43.5                        | 82.6           | 2.4              |
| 2ar                | 0.7                          | 0.1          | 3.3                         | 0.4          | 0.8            | 0.0              | 6.4                          | 43.3                        | 82.4           | 2.4              |
| 5h                 | 0.3                          | 0.0          | 1.4                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.5                        | 45.7           | 2.0              |
| 5w                 | 0.4                          | 0.0          | 2.3                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.6                        | 52.7           | 2.1              |
| 5an                | 0.3                          | 0.0          | 1.4                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.7                        | 45.9           | 2.0              |
| 5ao                | 0.3                          | 0.0          | 1.4                         | 0.2          | 0.3            | 0.0              | 3.8                          | 14.5                        | 45.7           | 2.0              |
| 5ap                | 0.4                          | 0.0          | 2.3                         | 0.2          | 0.4            | 0.0              | 4.3                          | 19.7                        | 52.8           | 2.1              |
| 8q                 | 0.2                          | 0.0          | 0.9                         | 0.1          | 0.1            | 0.0              | 3.3                          | 9.1                         | 39.4           | 1.9              |
| Mal4               | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 16.6                         | 35.4                        | 76.1           | 2.4              |
| Mal5               | 0.5                          | 0.1          | 2.5                         | 0.4          | 0.8            | 0.0              | 15.3                         | 33.7                        | 72.8           | 2.4              |
| Mal6               | 0.5                          | 0.1          | 2.6                         | 0.4          | 0.8            | 0.0              | 16.2                         | 33.6                        | 75.1           | 2.4              |
| UHSC2              | 1.2                          | 0.1          | 7.4                         | 0.5          | 1.0            | 0.0              | 3.4                          | 18.7                        | 40.8           | 2.1              |
| UHSC3              | 1.2                          | 0.1          | 7.2                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.8                        | 40.9           | 2.1              |
| UHSC4              | 1.2                          | 0.1          | 7.3                         | 0.5          | 0.9            | 0.0              | 3.4                          | 18.7                        | 40.9           | 2.1              |
| N29                | 1.0                          | 0.1          | 6.2                         | 0.7          | 1.5            | 0.1              | 3.4                          | 15.7                        | 41.9           | 2.1              |
| School receptors   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| N30                | 2.8                          | 0.5          | 16.5                        | 2.9          | 7.1            | 0.2              | 3.9                          | 21.4                        | 48.1           | 2.2              |
| N31                | 2.7                          | 0.5          | 16.3                        | 2.9          | 7.0            | 0.2              | 3.9                          | 21.4                        | 48.0           | 2.2              |
| N32                | 2.7                          | 0.5          | 16.3                        | 2.9          | 7.0            | 0.2              | 3.9                          | 21.3                        | 47.9           | 2.2              |
| N33                | 2.7                          | 0.5          | 16.4                        | 2.9          | 7.1            | 0.2              | 3.9                          | 21.3                        | 48.0           | 2.2              |
| Church receptors   |                              |              |                             |              |                |                  |                              |                             |                |                  |
| 520                | 1.1                          | 0.2          | 6.1                         | 1.1          | 2.3            | 0.1              | 3.4                          | 16.9                        | 42.0           | 2.0              |
| 658b               | 2.5                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 3.9                          | 21.2                        | 47.2           | 2.2              |
| 658c               | 2.5                          | 0.5          | 15.2                        | 2.7          | 6.3            | 0.2              | 3.9                          | 21.2                        | 47.2           | 2.2              |
| 616c               | 2.8                          | 0.5          | 15.3                        | 2.7          | 6.4            | 0.2              | 4.0                          | 22.0                        | 48.2           | 2.2              |
| N34                | 0.7                          | 0.1          | 4.1                         | 0.5          | 1.0            | 0.0              | 3.5                          | 16.0                        | 43.3           | 2.2              |
| Heritage receptors |                              |              |                             |              |                |                  |                              |                             |                |                  |



| Receptor ID | PM <sub>2.5</sub><br>(µg/m³) |              | PM <sub>10</sub><br>(µg/m³) |              | TSP<br>(µg/m³) | DD<br>(g/m²/mth) | PM <sub>2.5</sub><br>(µg/m³) | PM <sub>10</sub><br>(µg/m³) | TSP<br>(µg/m³) | DD<br>(g/m²/mth) |
|-------------|------------------------------|--------------|-----------------------------|--------------|----------------|------------------|------------------------------|-----------------------------|----------------|------------------|
|             | Modification impact          |              |                             |              |                |                  | Total impact                 |                             |                |                  |
|             | 24-hr<br>ave.                | Ann.<br>ave. | 24-hr<br>ave.               | Ann.<br>ave. | Ann.<br>ave.   | Ann. ave.        | Ann.<br>ave.                 | Ann.<br>ave.                | Ann.<br>ave.   | Ann. ave.        |
|             | Air quality impact criteria  |              |                             |              |                |                  |                              |                             |                |                  |
|             | 25                           | -            | 50                          | -            | -              | 2                | 8                            | 25                          | 90             | 4                |
| H1          | 0.2                          | 0.0          | 1.0                         | 0.1          | 0.2            | 0.0              | 3.4                          | 10.7                        | 40.5           | 1.9              |
| H2          | 2.6                          | 0.5          | 15.5                        | 2.7          | 6.5            | 0.2              | 3.9                          | 21.2                        | 47.3           | 2.2              |
| H3          | 2.4                          | 0.6          | 15.1                        | 3.4          | 7.8            | 0.2              | 4.9                          | 20.2                        | 60.3           | 2.4              |
| H4          | 2.5                          | 0.5          | 14.6                        | 3.2          | 7.3            | 0.1              | 5.4                          | <b>25.6</b>                 | 69.6           | 2.6              |
| H5          | 2.5                          | 0.5          | 14.5                        | 3.2          | 7.3            | 0.1              | 5.4                          | <b>25.6</b>                 | 69.6           | 2.6              |
| H6          | 2.5                          | 0.5          | 14.4                        | 3.2          | 7.3            | 0.1              | 5.4                          | <b>25.8</b>                 | 69.9           | 2.6              |
| H7          | 2.6                          | 0.5          | 14.7                        | 3.2          | 7.4            | 0.1              | 5.4                          | <b>25.8</b>                 | 69.9           | 2.6              |
| H8          | 2.6                          | 0.5          | 14.8                        | 3.2          | 7.4            | 0.1              | 5.4                          | <b>25.9</b>                 | 70.0           | 2.6              |
| H9          | 2.6                          | 0.5          | 15.1                        | 3.3          | 7.6            | 0.1              | 5.4                          | <b>25.9</b>                 | 70.1           | 2.6              |
| H10         | 4.2                          | 0.9          | 23.8                        | 5.5          | 12.6           | 0.2              | 5.1                          | 21.7                        | 64.5           | 2.5              |
| H11         | 1.4                          | 0.4          | 8.7                         | 2.1          | 4.7            | 0.1              | 4.7                          | 16.9                        | 56.3           | 2.2              |
| H12         | 1.3                          | 0.2          | 6.8                         | 1.2          | 2.7            | 0.0              | <b>8.9</b>                   | <b>73.6</b>                 | <b>124.4</b>   | 2.7              |
| H13         | 1.3                          | 0.2          | 6.9                         | 1.2          | 2.7            | 0.0              | <b>8.8</b>                   | <b>71.2</b>                 | <b>122.5</b>   | 2.7              |
| H14         | 1.3                          | 0.2          | 6.9                         | 1.2          | 2.7            | 0.0              | <b>8.7</b>                   | <b>70.0</b>                 | <b>121.4</b>   | 2.7              |
| H15         | 1.3                          | 0.2          | 6.8                         | 1.2          | 2.8            | 0.0              | <b>8.5</b>                   | <b>68.4</b>                 | <b>119.1</b>   | 2.6              |
| H16         | 1.3                          | 0.2          | 6.8                         | 1.2          | 2.7            | 0.0              | <b>8.5</b>                   | <b>67.9</b>                 | <b>117.9</b>   | 2.6              |
| H17         | 1.3                          | 0.2          | 6.7                         | 1.2          | 2.7            | 0.0              | <b>8.4</b>                   | <b>67.4</b>                 | <b>116.7</b>   | 2.6              |
| H18         | 1.3                          | 0.2          | 6.7                         | 1.2          | 2.7            | 0.0              | <b>8.3</b>                   | <b>66.3</b>                 | <b>115.2</b>   | 2.6              |
| H19         | 0.7                          | 0.1          | 4.3                         | 0.5          | 1.1            | 0.0              | 3.5                          | 16.0                        | 43.2           | 2.2              |

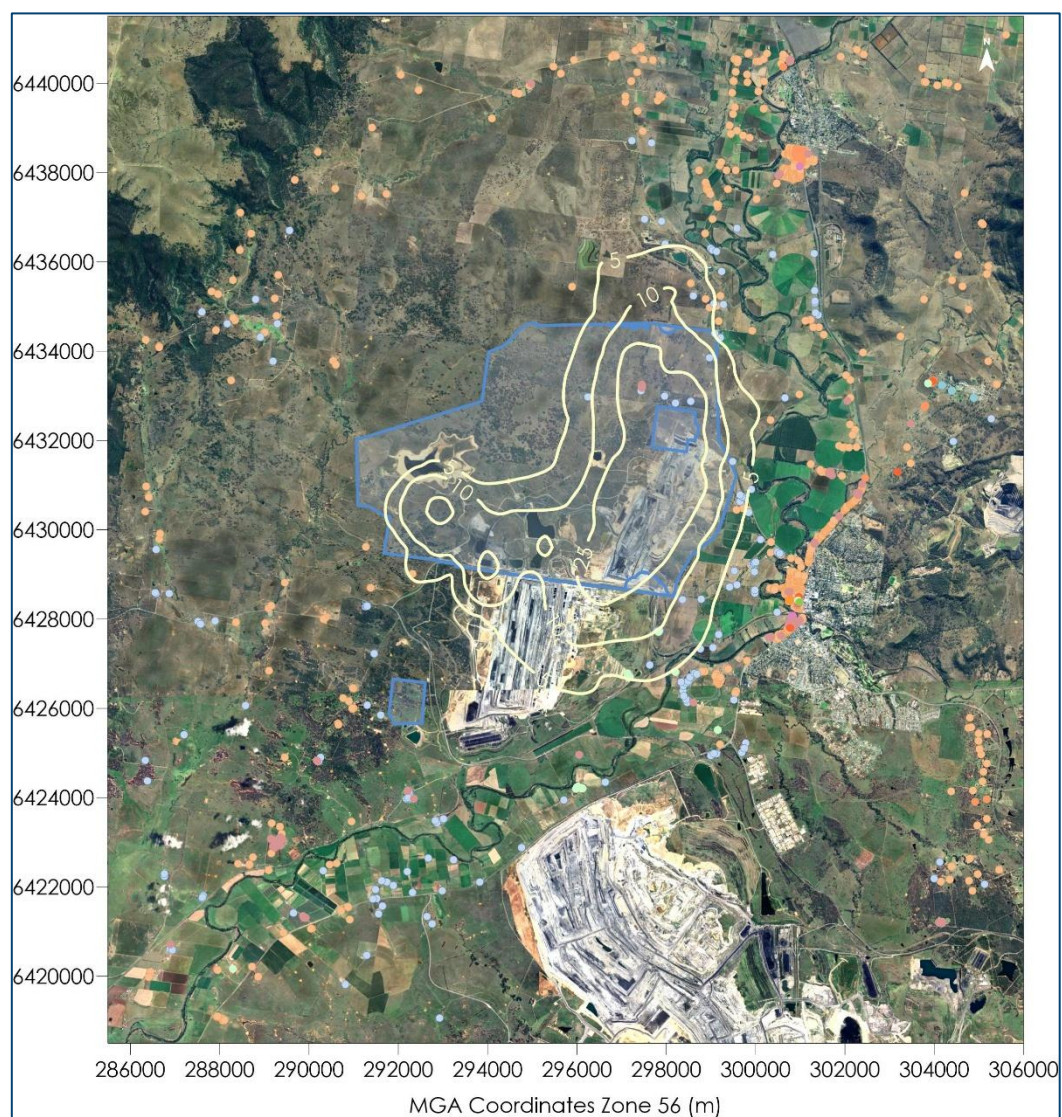


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## **Appendix E**

### ***Isopleth Diagrams***

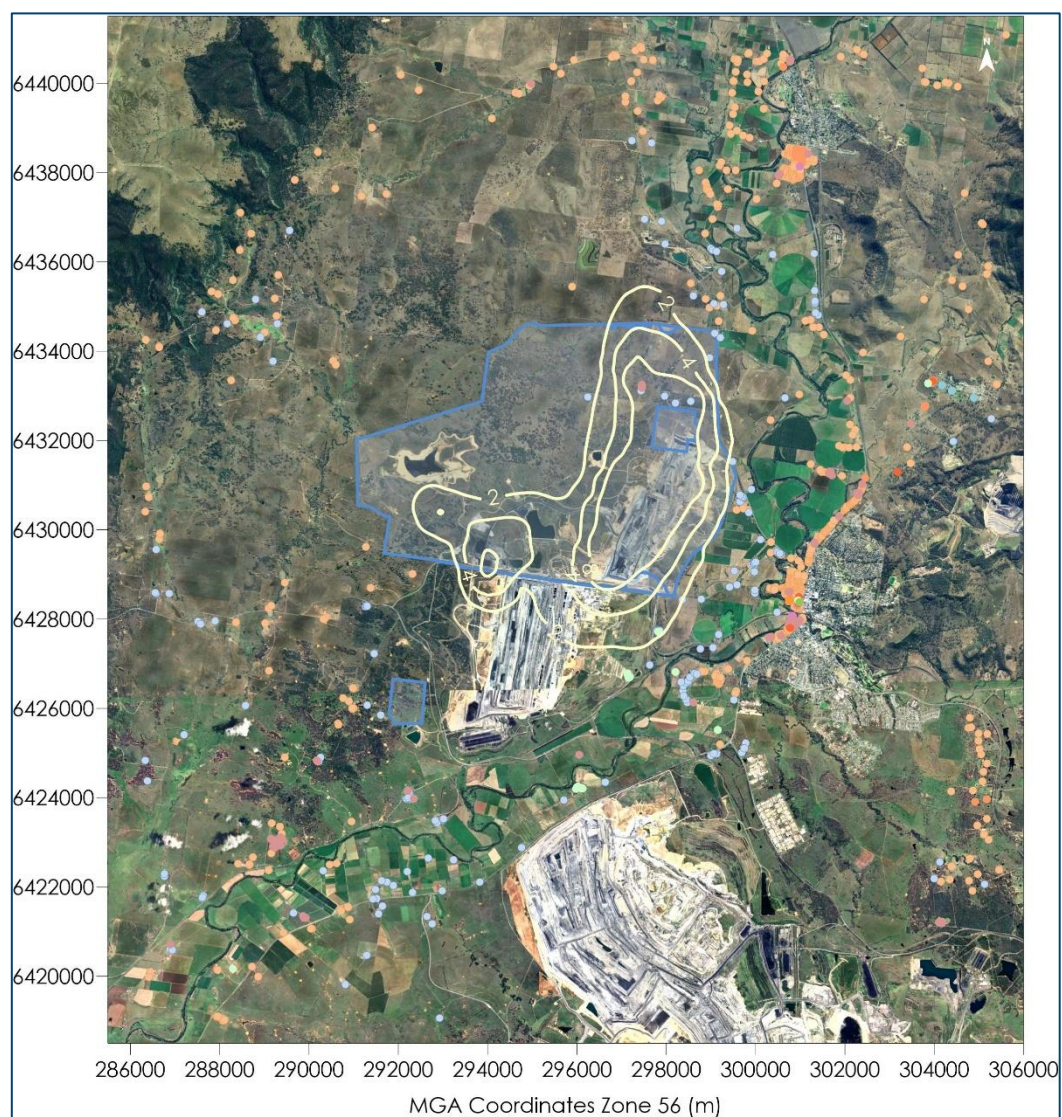




Refer to **Figure 2-1** for receiver legend

**Figure E-1: Predicted maximum 24-hour average PM<sub>2.5</sub> concentrations due to emissions from the Modification in Scenario 1 (µg/m³)**

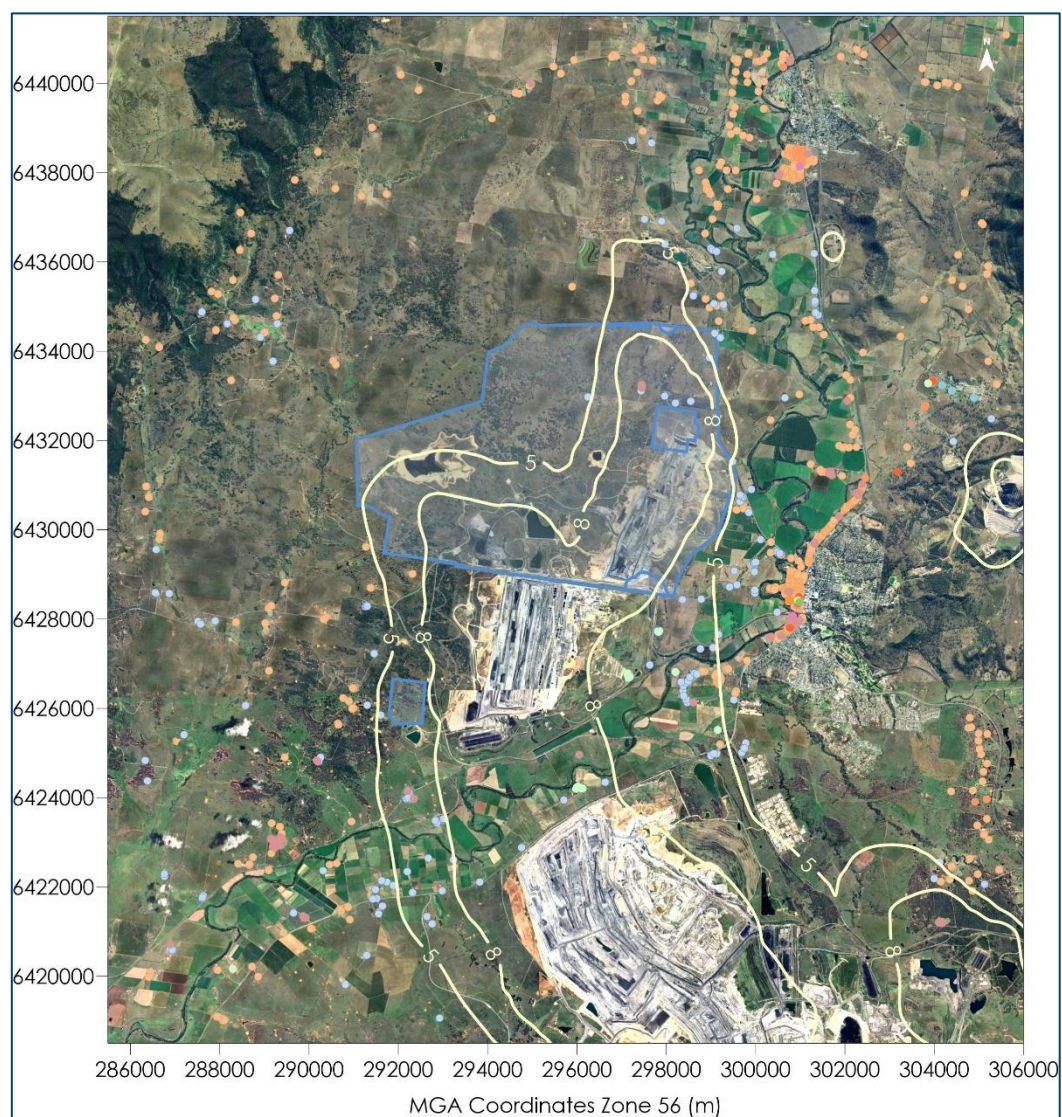




Refer to **Figure 2-1** for receiver legend

**Figure E-2: Predicted annual average  $PM_{2.5}$  concentrations due to emissions from the Modification in Scenario 1 ( $\mu g/m^3$ )**

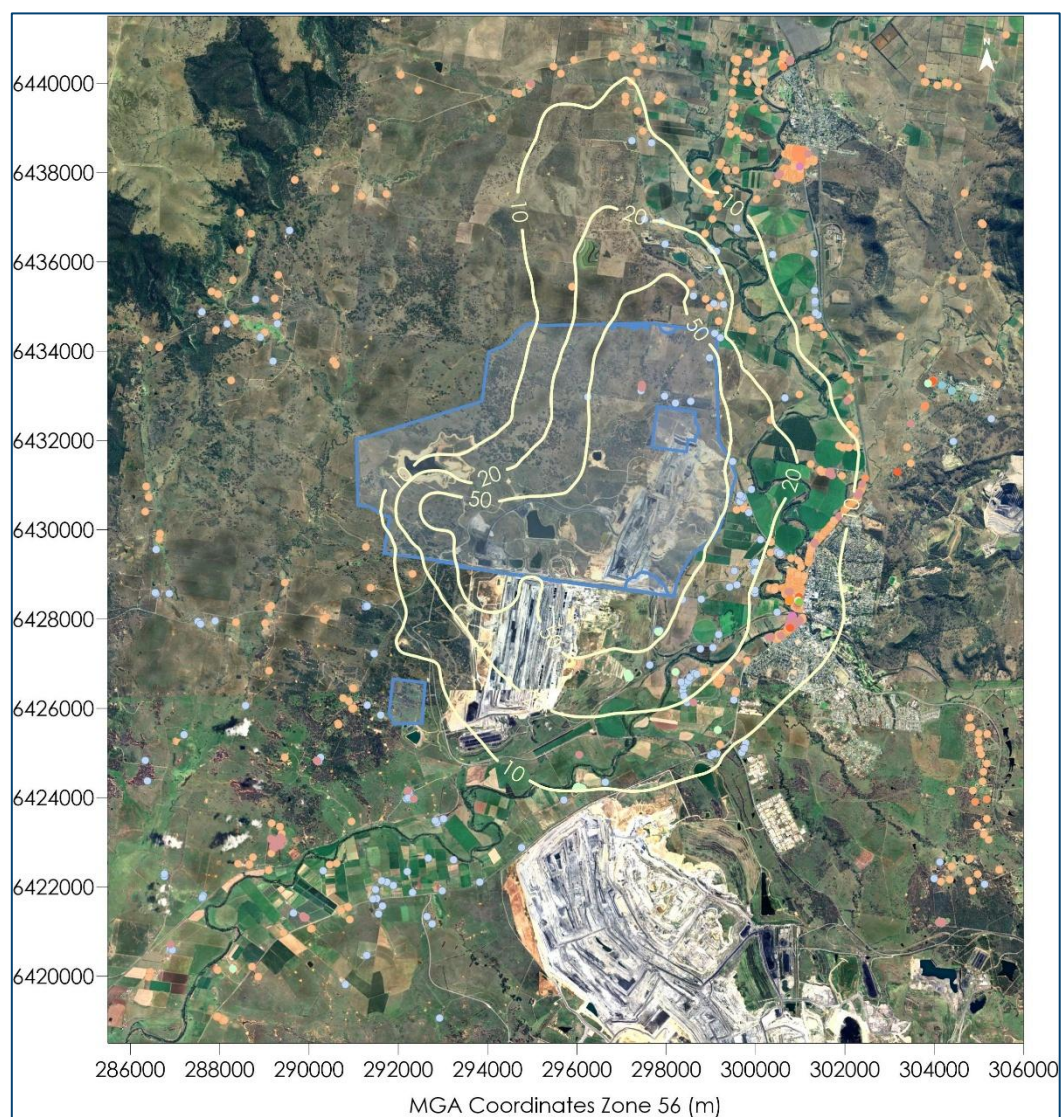




Refer to **Figure 2-1** for receiver legend

**Figure E-3: Predicted annual average PM<sub>2.5</sub> concentrations due to emissions from the Modification and other sources in Scenario 1 ( $\mu\text{g}/\text{m}^3$ )**

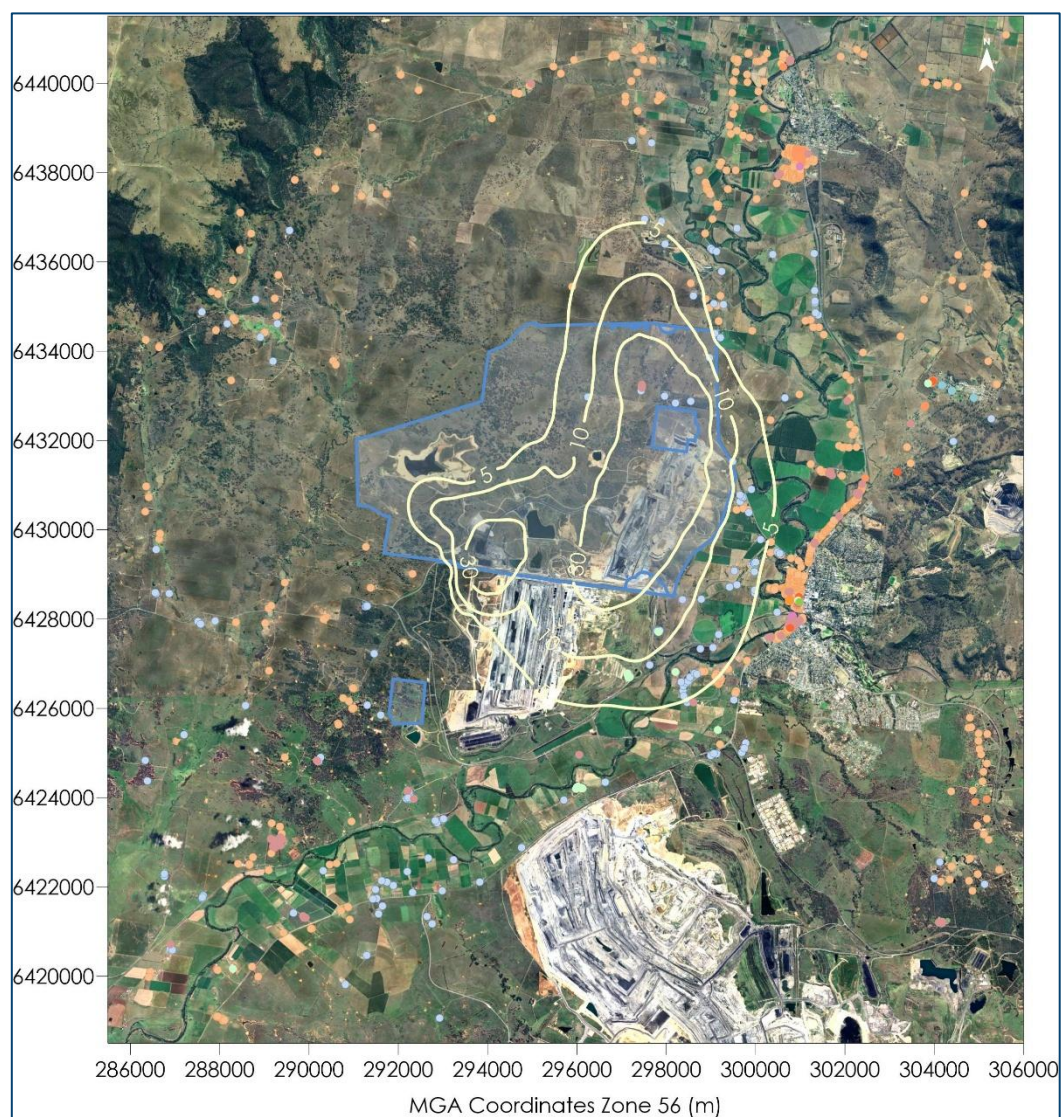




Refer to **Figure 2-1** for receiver legend

**Figure E-4: Predicted maximum 24-hour average PM<sub>10</sub> concentrations due to emissions from the Modification in Scenario 1 (µg/m<sup>3</sup>)**

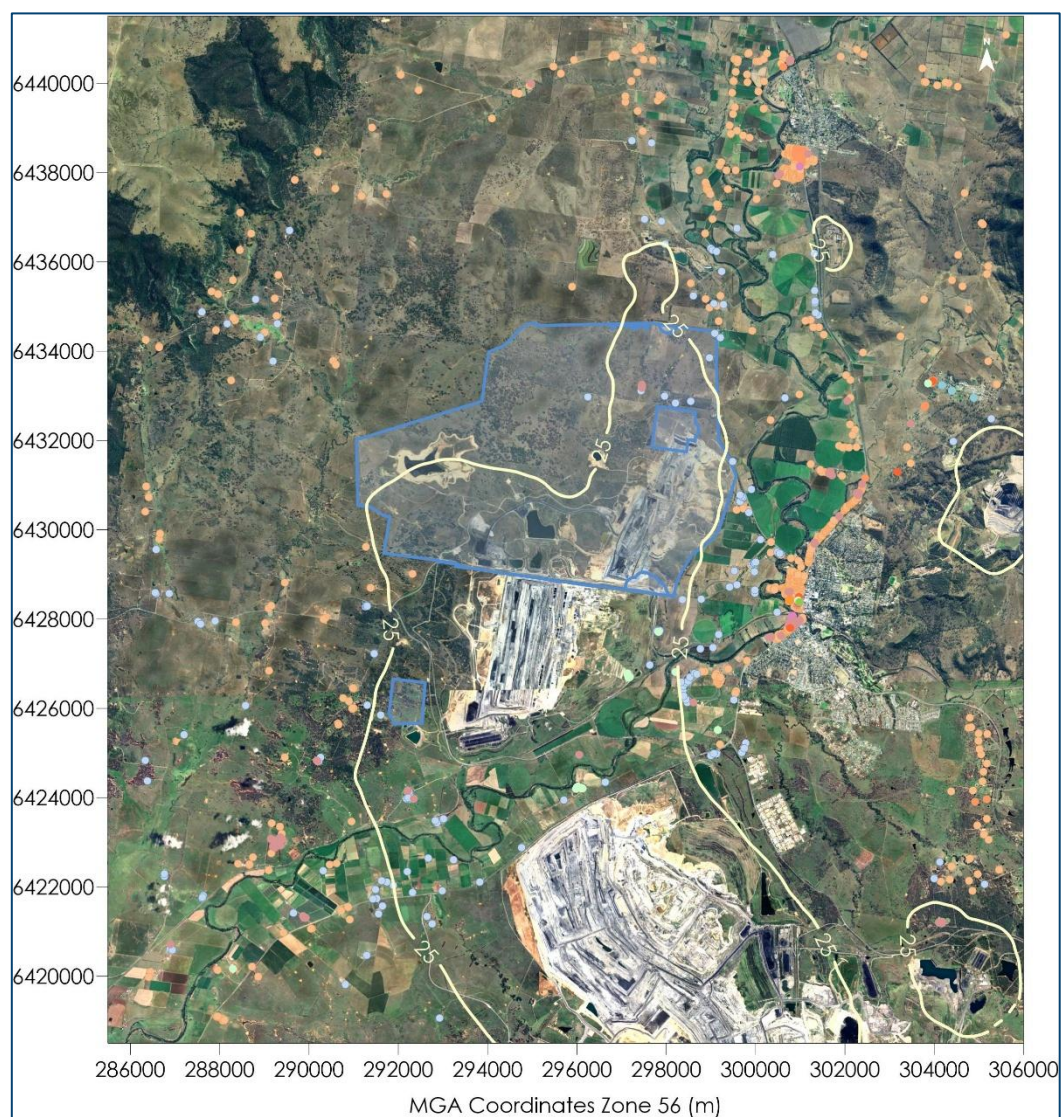




Refer to **Figure 2-1** for receiver legend

**Figure E-5: Predicted annual average PM<sub>10</sub> concentrations due to emissions from the Modification in Scenario 1 (µg/m<sup>3</sup>)**

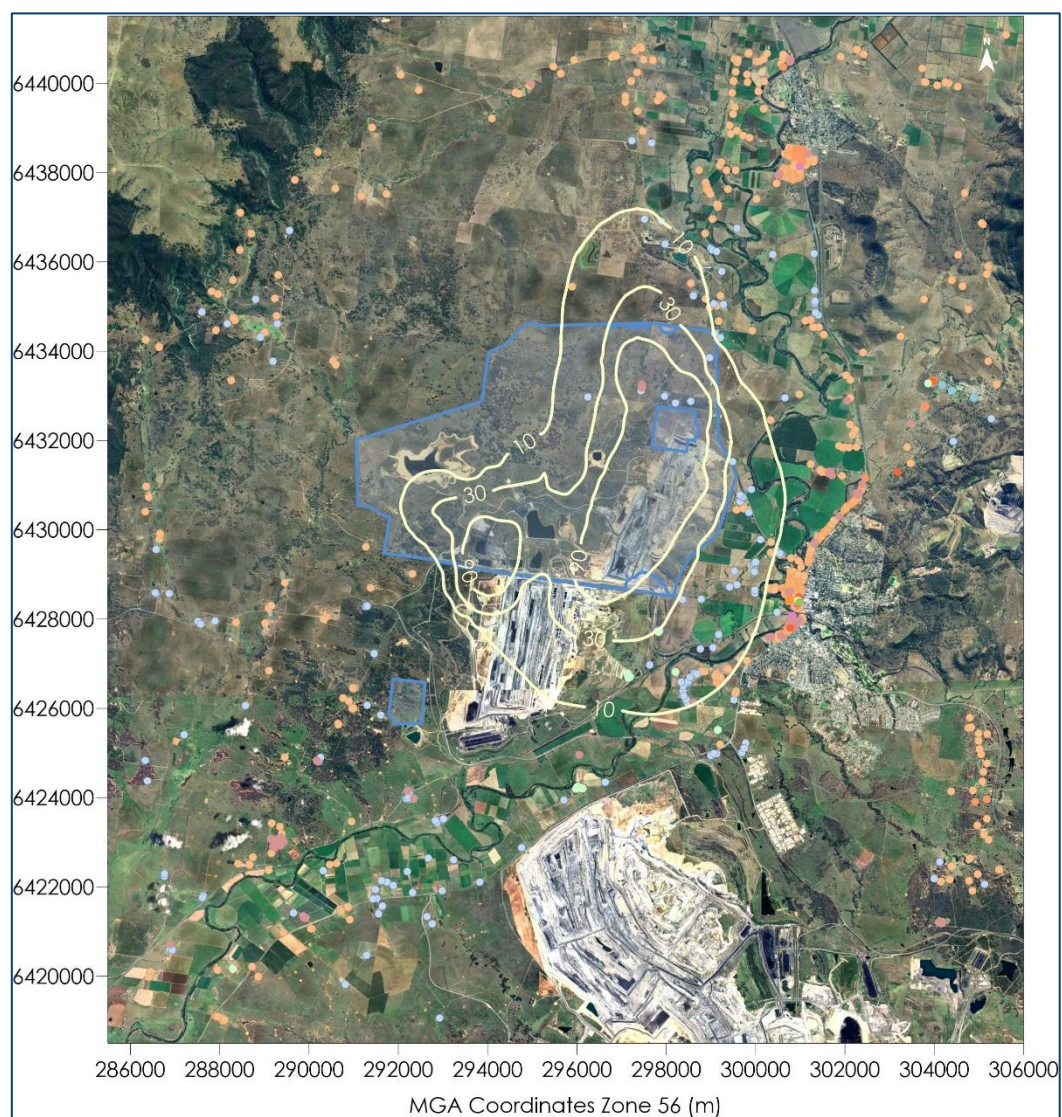




Refer to **Figure 2-1** for receiver legend

**Figure E-6: Predicted annual average PM<sub>10</sub> concentrations due to emissions from the Modification and other sources in Scenario 1 ( $\mu\text{g}/\text{m}^3$ )**

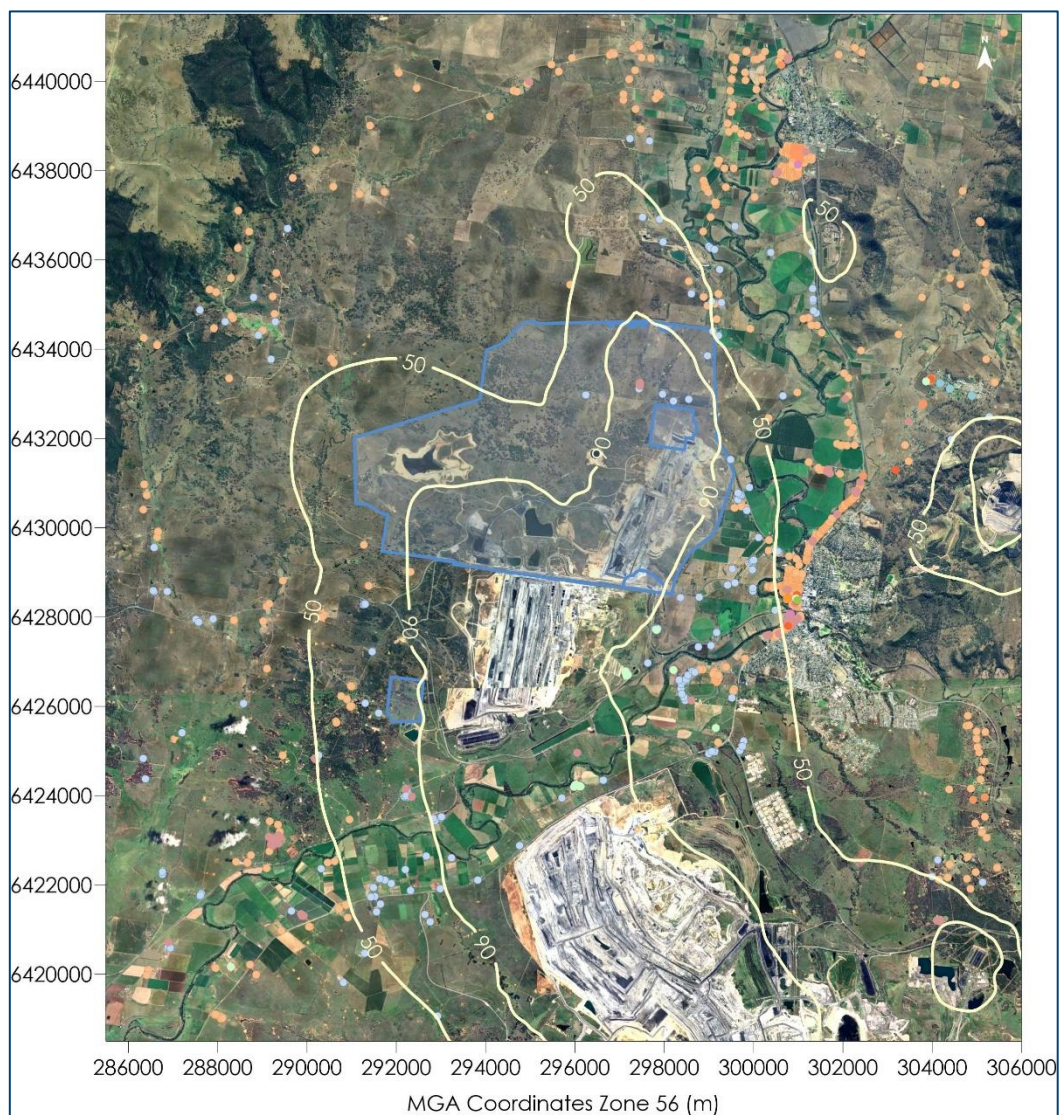




Refer to **Figure 2-1** for receiver legend

**Figure E-7: Predicted annual average TSP concentrations due to emissions from the Modification in Scenario 1 ( $\mu\text{g}/\text{m}^3$ )**

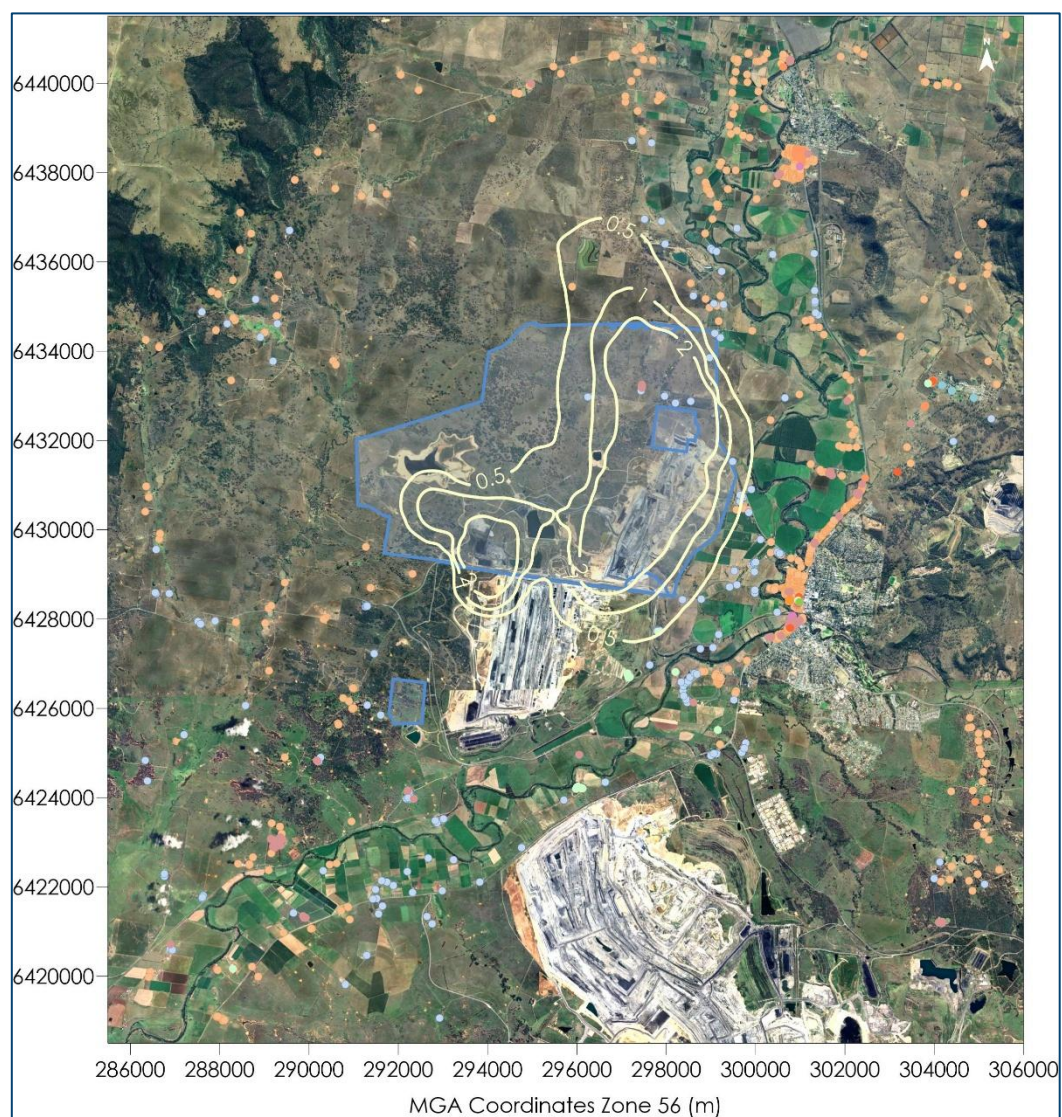




Refer to **Figure 2-1** for receiver legend

**Figure E-8: Predicted annual average TSP concentrations due to emissions from the Modification and other sources in Scenario 1 ( $\mu\text{g}/\text{m}^3$ )**

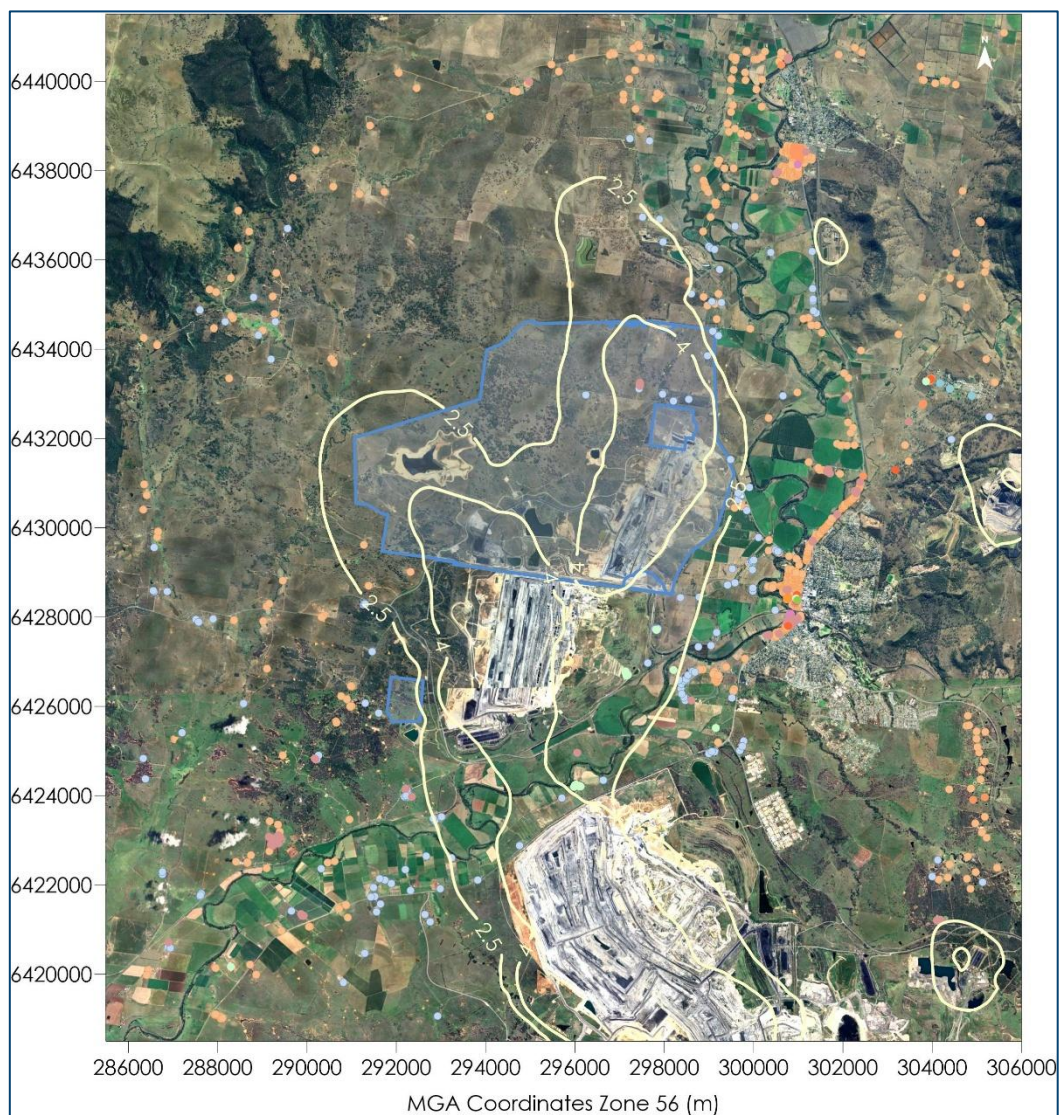




Refer to **Figure 2-1** for receiver legend

**Figure E-9: Predicted annual average dust deposition levels due to emissions from the Modification in Scenario 1 ( $\text{g}/\text{m}^2/\text{month}$ )**

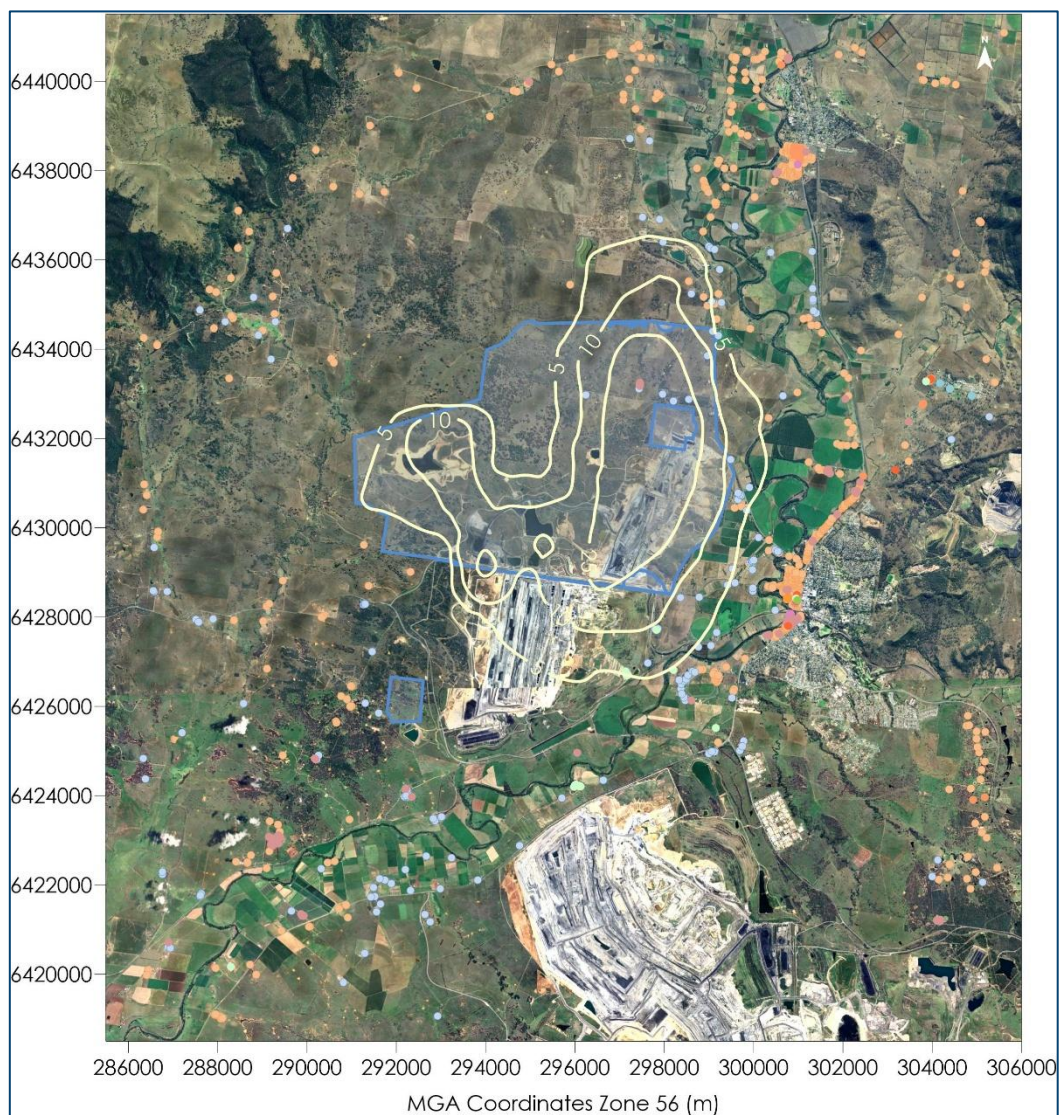




Refer to **Figure 2-1** for receiver legend

**Figure E-10: Predicted annual average dust deposition levels due to emissions from the Modification and other sources in Scenario 1 ( $\text{g}/\text{m}^2/\text{month}$ )**

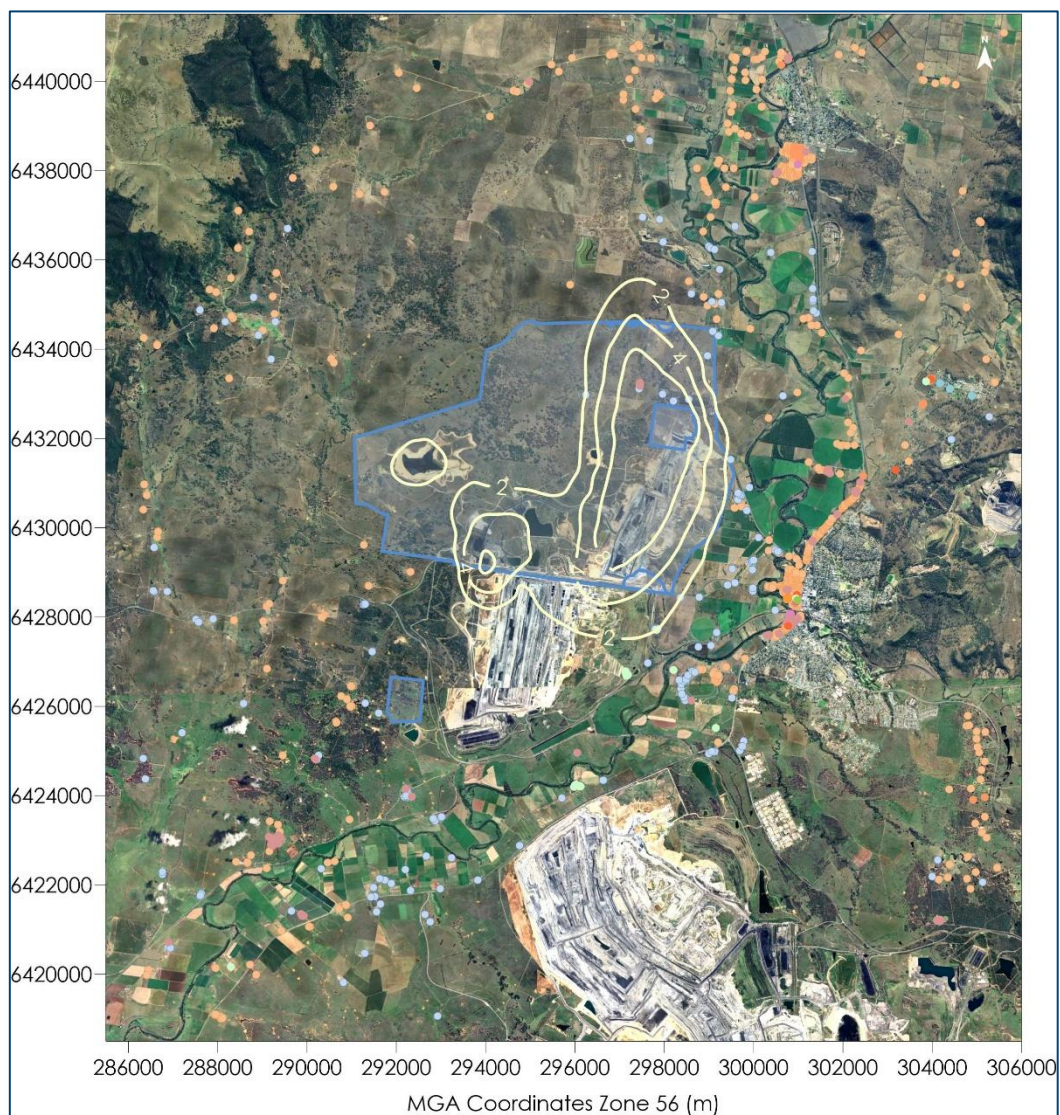




Refer to **Figure 2-1** for receiver legend

**Figure E-11: Predicted maximum 24-hour average PM<sub>2.5</sub> concentrations due to emissions from the Modification in Scenario 2 (µg/m<sup>3</sup>)**

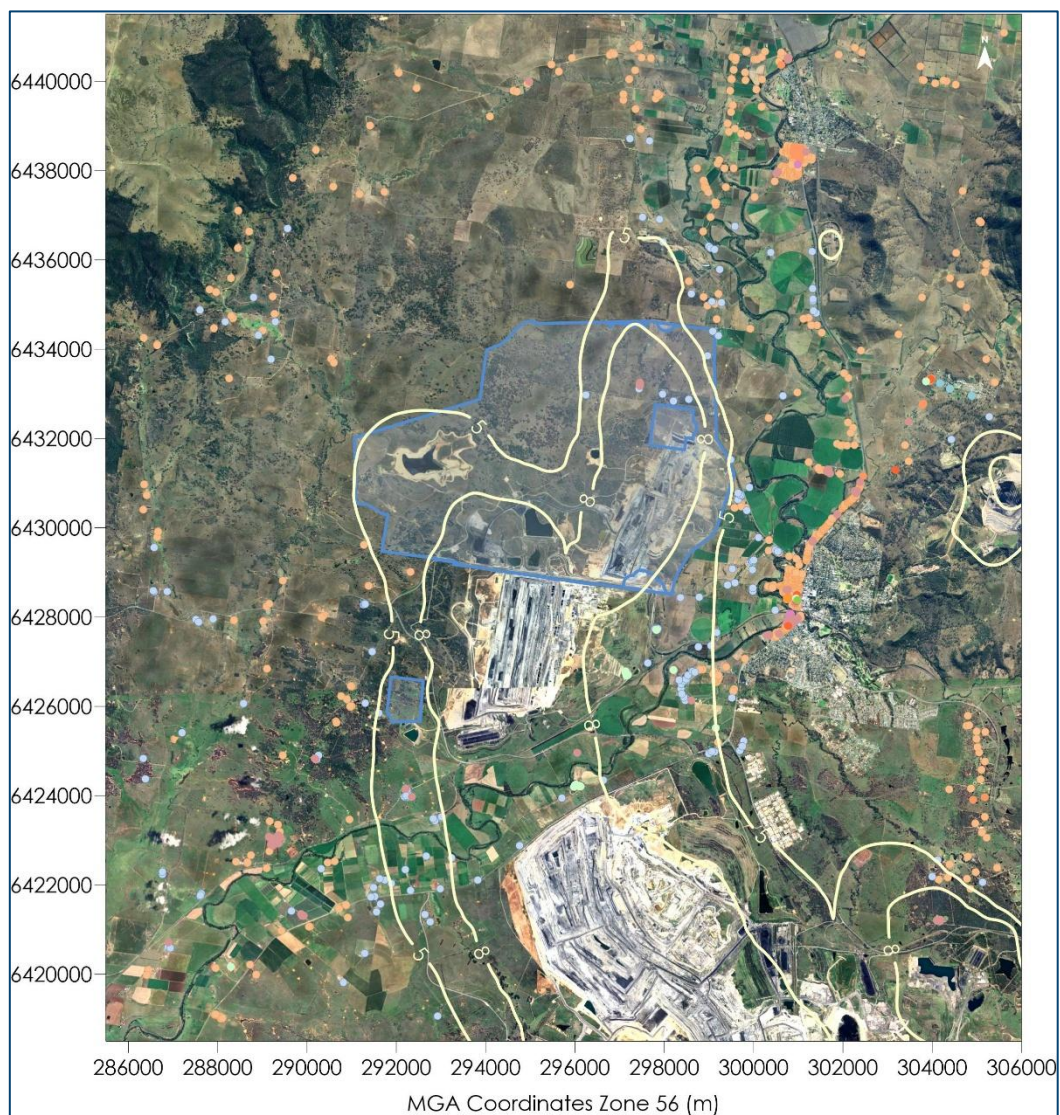




Refer to **Figure 2-1** for receiver legend

**Figure E-12: Predicted annual average  $PM_{2.5}$  concentrations due to emissions from the Modification in Scenario 2 ( $\mu g/m^3$ )**

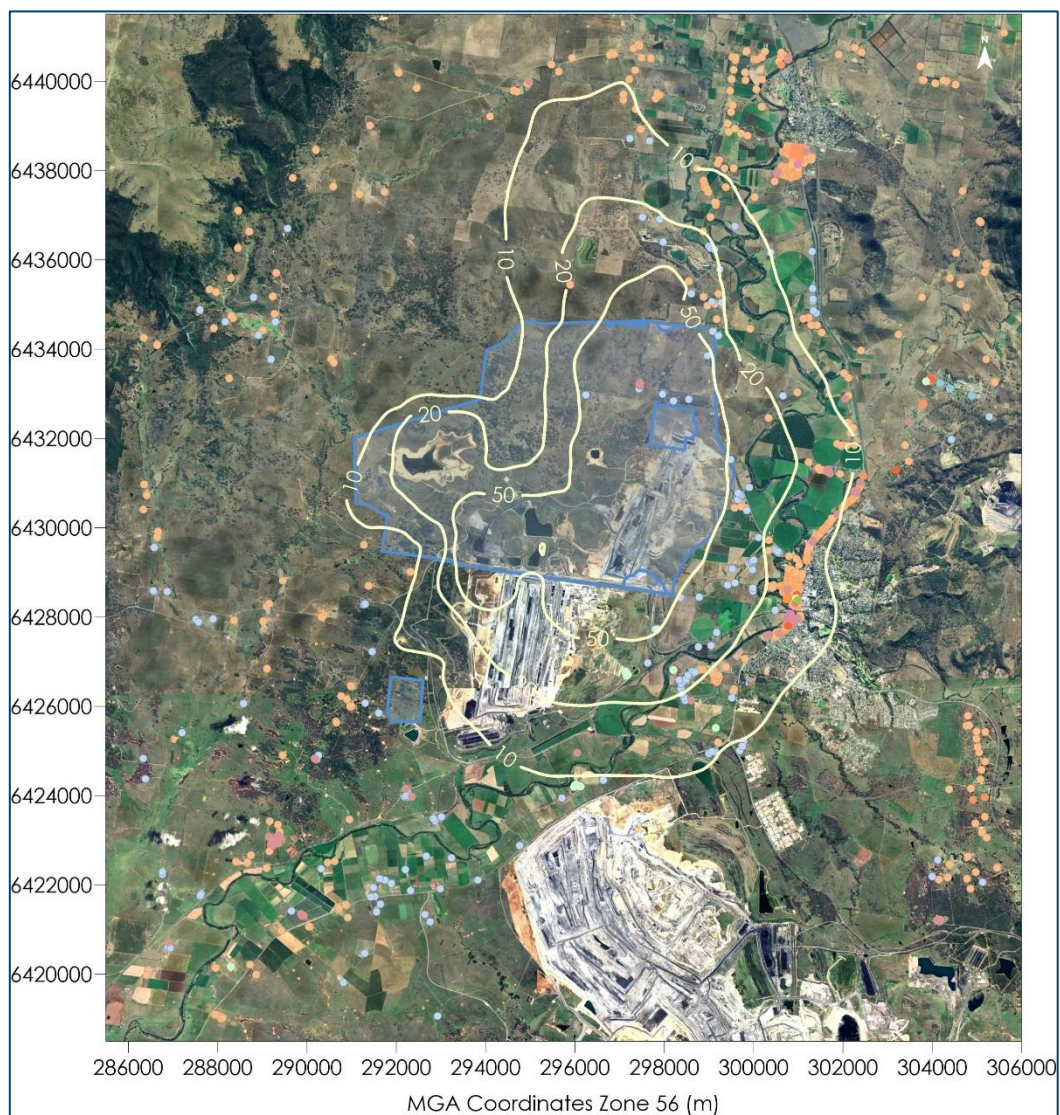




Refer to **Figure 2-1** for receiver legend

**Figure E-13: Predicted annual average PM<sub>2.5</sub> concentrations due to emissions from the Modification and other sources in Scenario 2 (µg/m<sup>3</sup>)**

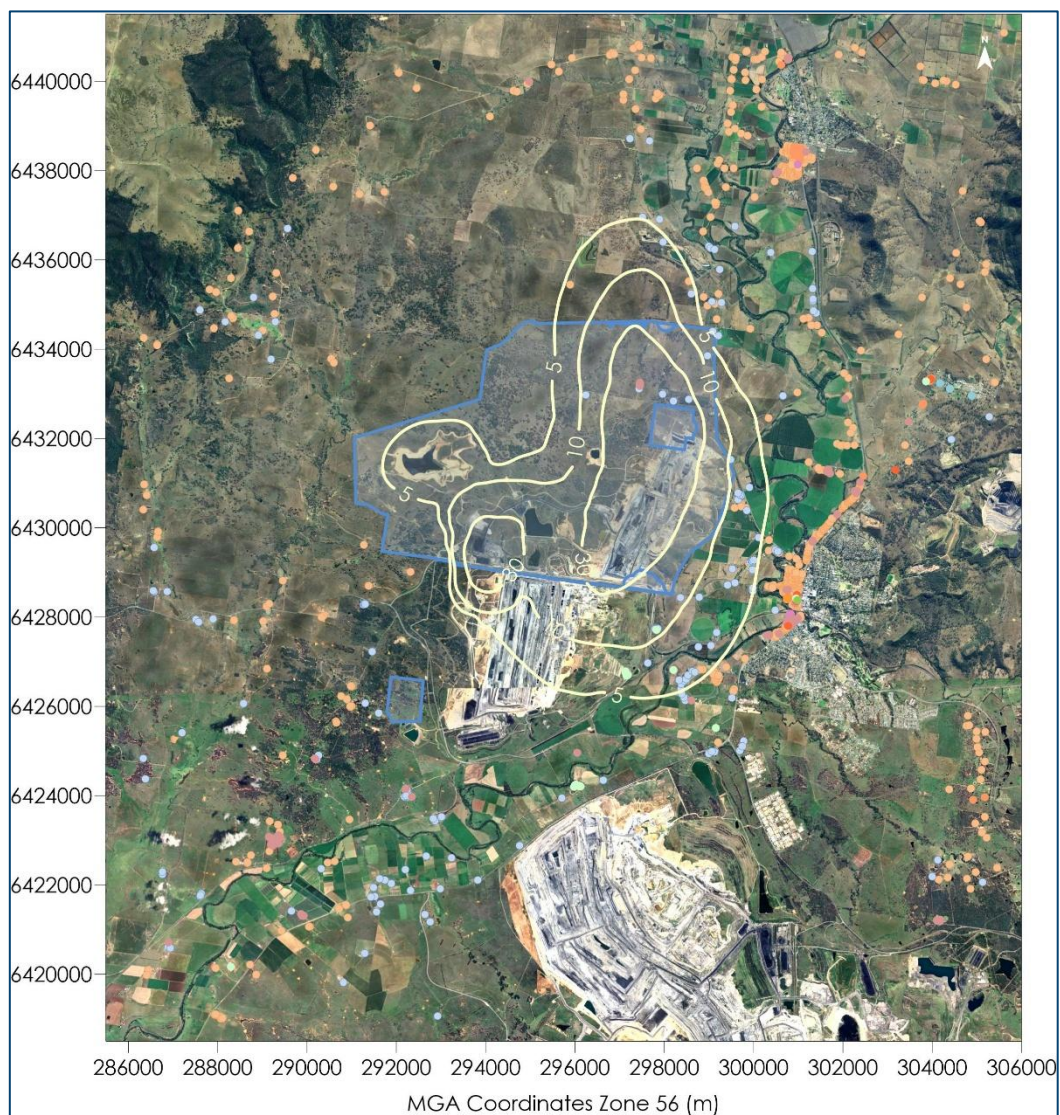




Refer to **Figure 2-1** for receiver legend

**Figure E-14: Predicted maximum 24-hour average PM<sub>10</sub> concentrations due to emissions from the Modification in Scenario 2 ( $\mu\text{g}/\text{m}^3$ )**

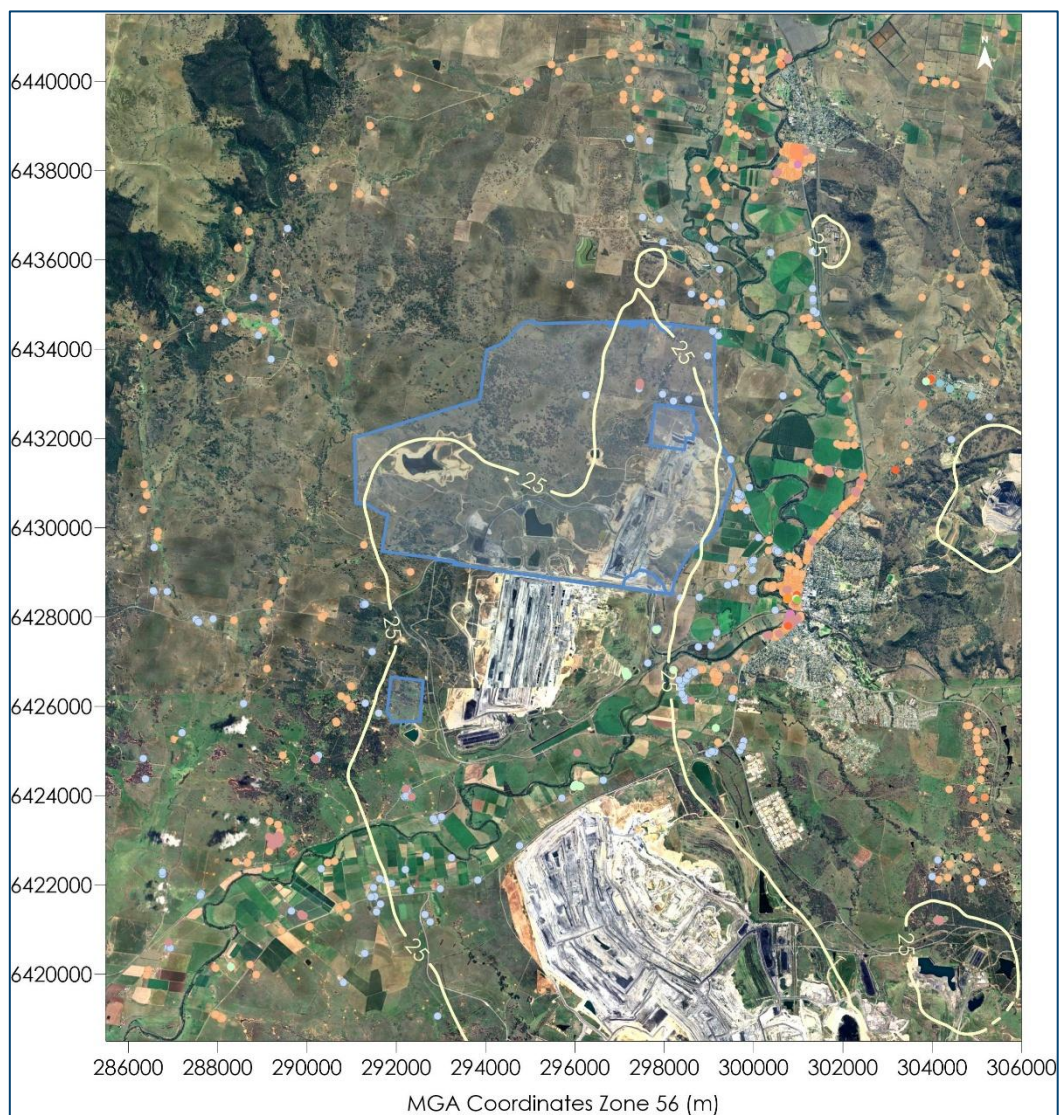




Refer to **Figure 2-1** for receiver legend

**Figure E-15: Predicted annual average  $PM_{10}$  concentrations due to emissions from the Modification in Scenario 2 ( $\mu g/m^3$ )**

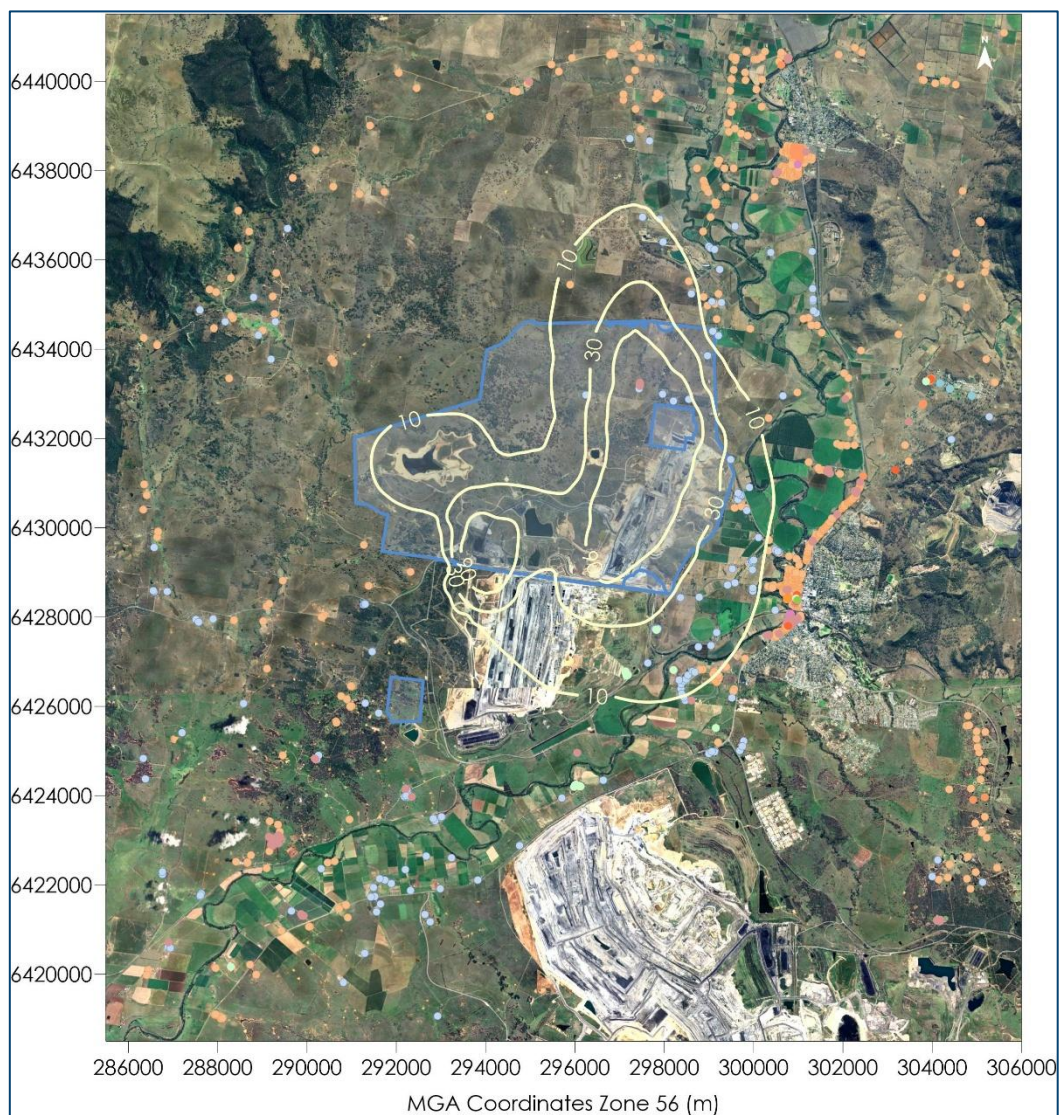




Refer to **Figure 2-1** for receiver legend

**Figure E-16: Predicted annual average PM<sub>10</sub> concentrations due to emissions from the Modification and other sources in Scenario 2 ( $\mu\text{g}/\text{m}^3$ )**

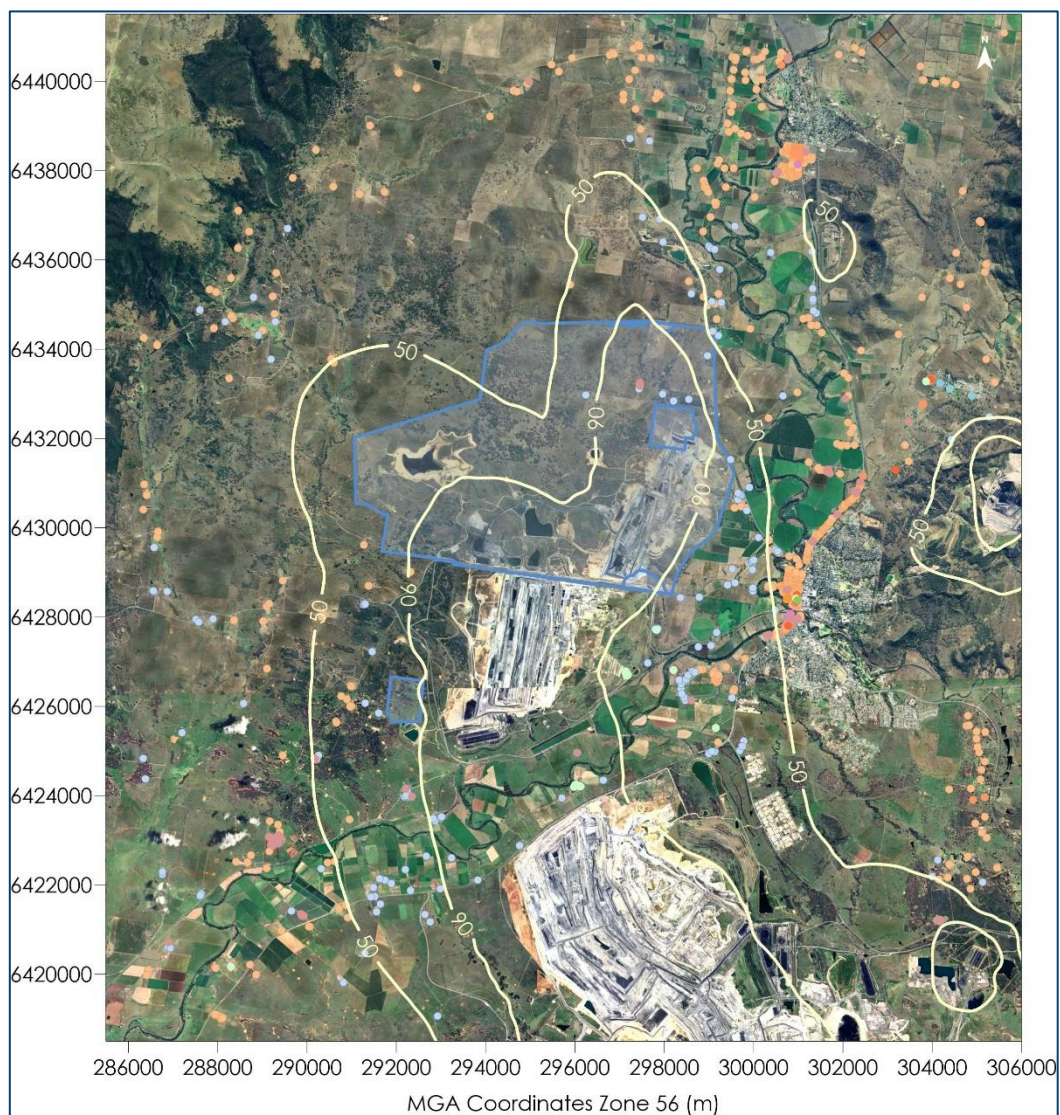




Refer to **Figure 2-1** for receiver legend

**Figure E-17: Predicted annual average TSP concentrations due to emissions from the Modification in Scenario 2 ( $\mu\text{g}/\text{m}^3$ )**

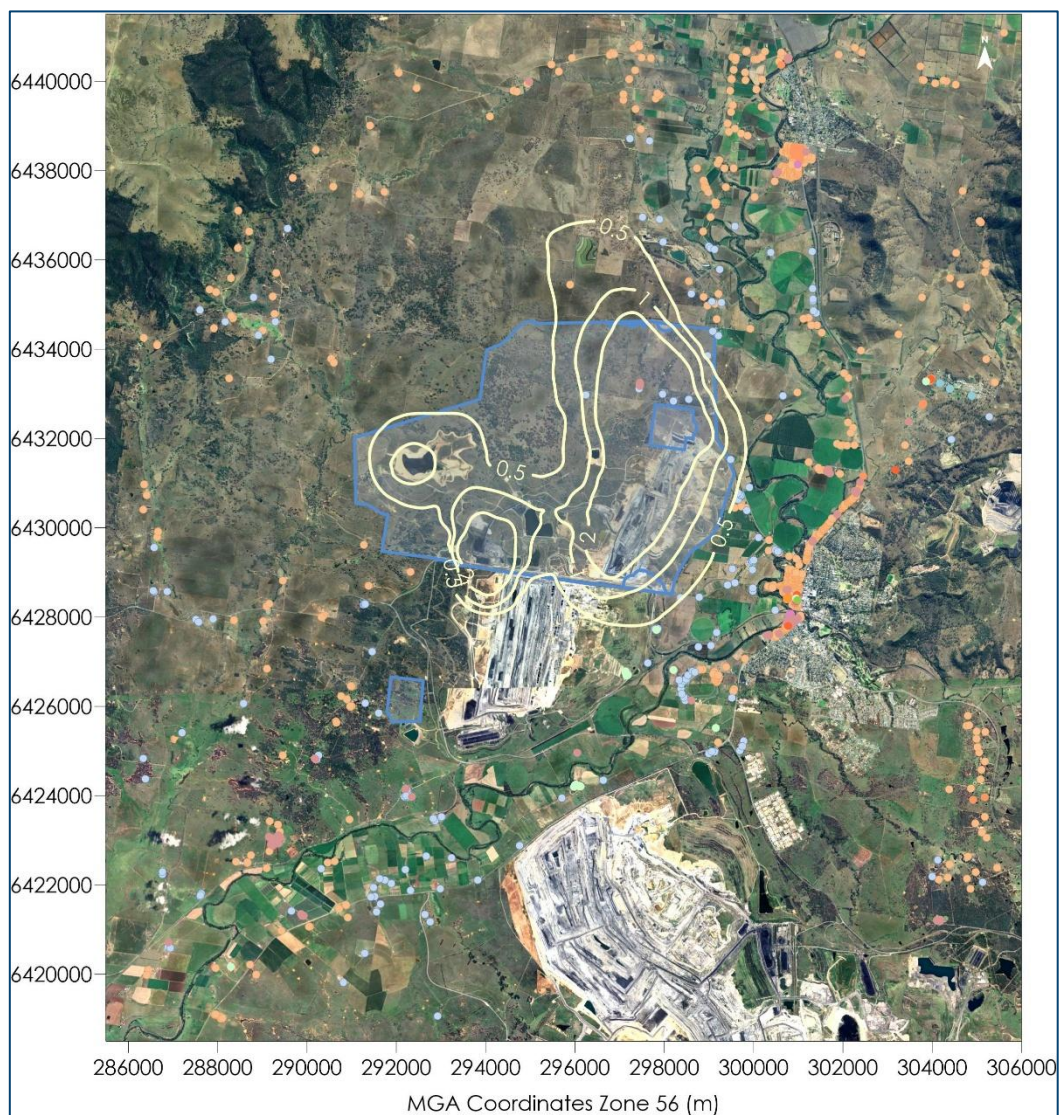




Refer to **Figure 2-1** for receiver legend

**Figure E-18: Predicted annual average TSP concentrations due to emissions from the Modification and other sources in Scenario 2 ( $\mu\text{g}/\text{m}^3$ )**

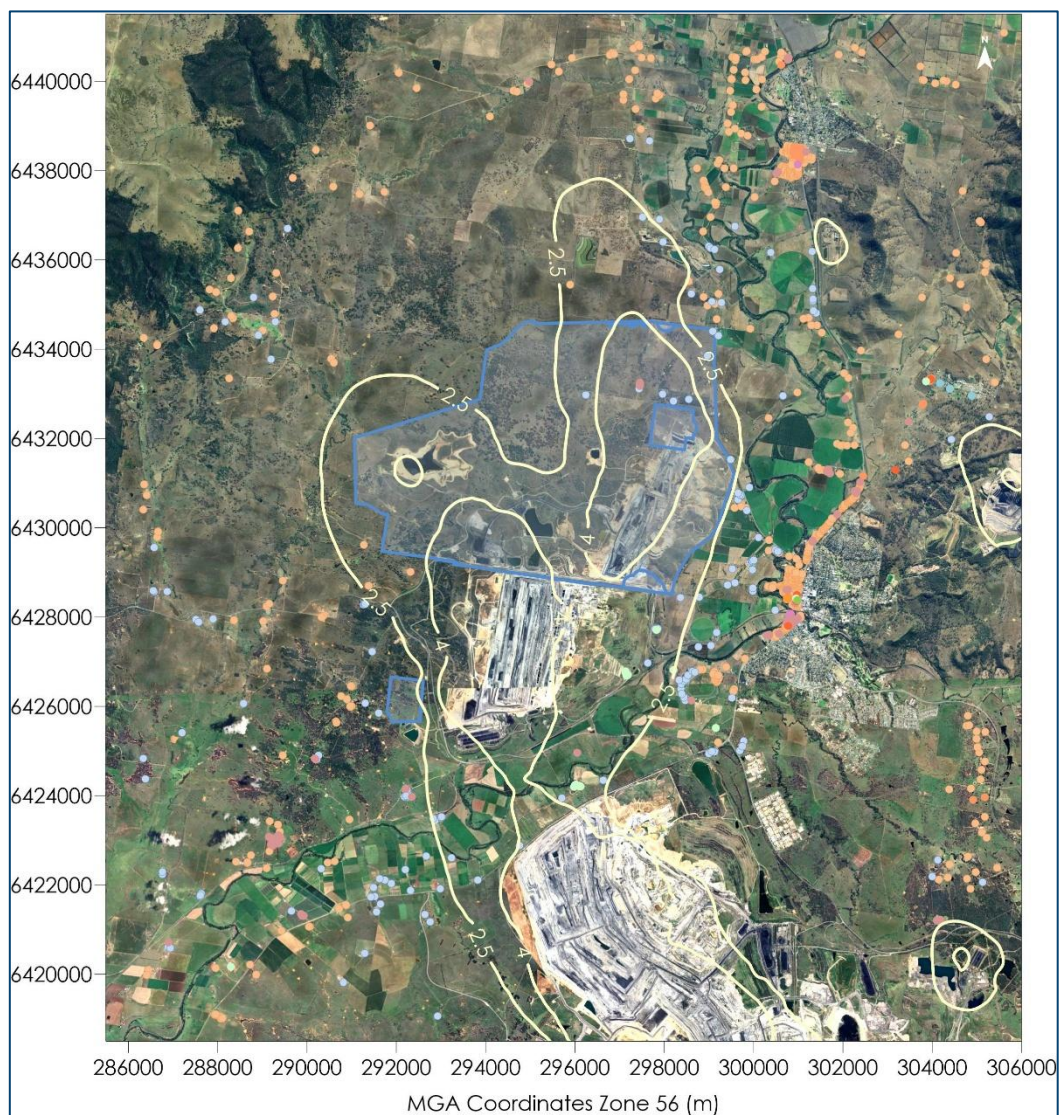




Refer to **Figure 2-1** for receiver legend

**Figure E-19: Predicted annual average dust deposition levels due to emissions from the Modification in Scenario 2 ( $\text{g}/\text{m}^2/\text{month}$ )**

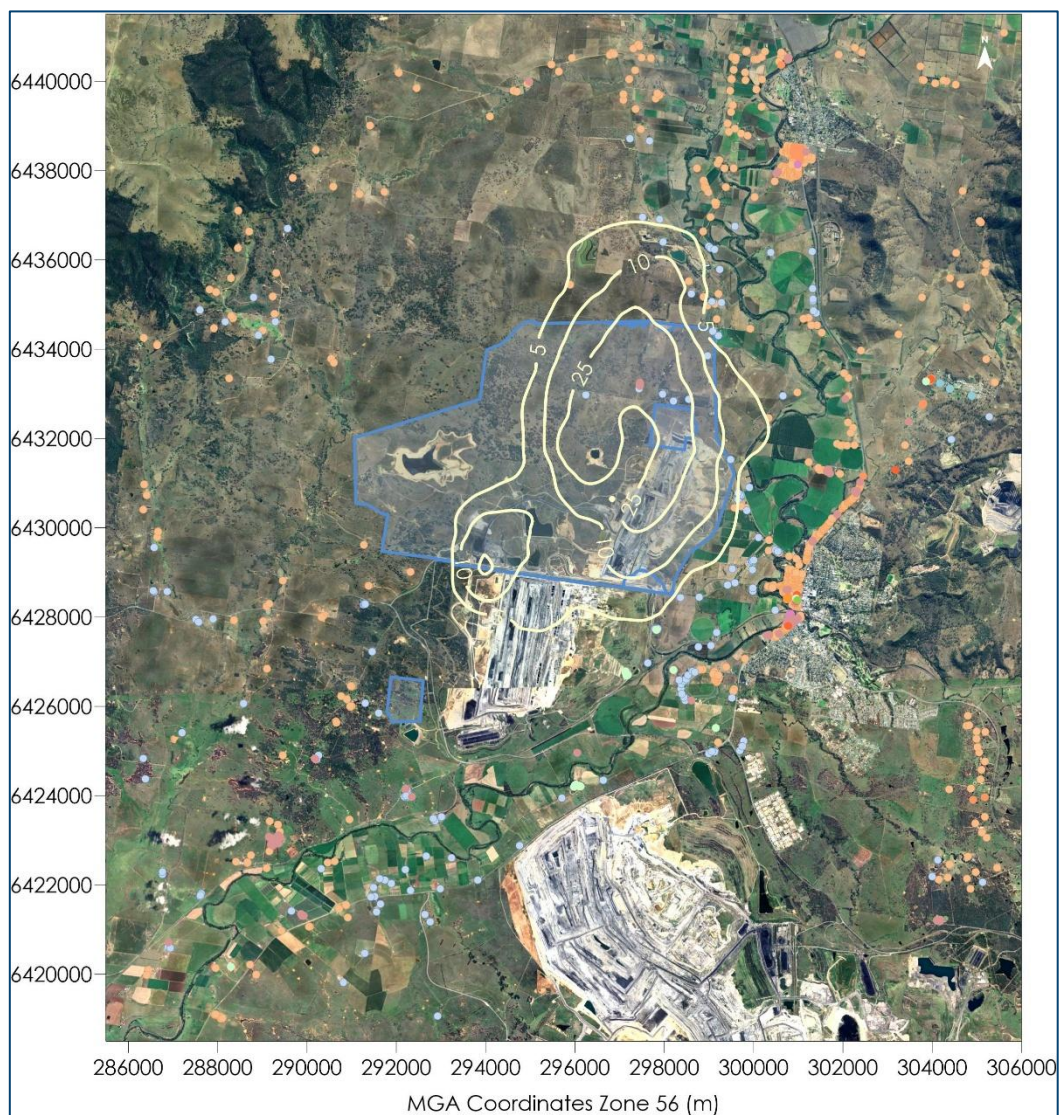




Refer to **Figure 2-1** for receiver legend

**Figure E-20: Predicted annual average dust deposition levels due to emissions from the Modification and other sources in Scenario 2 ( $\text{g}/\text{m}^2/\text{month}$ )**

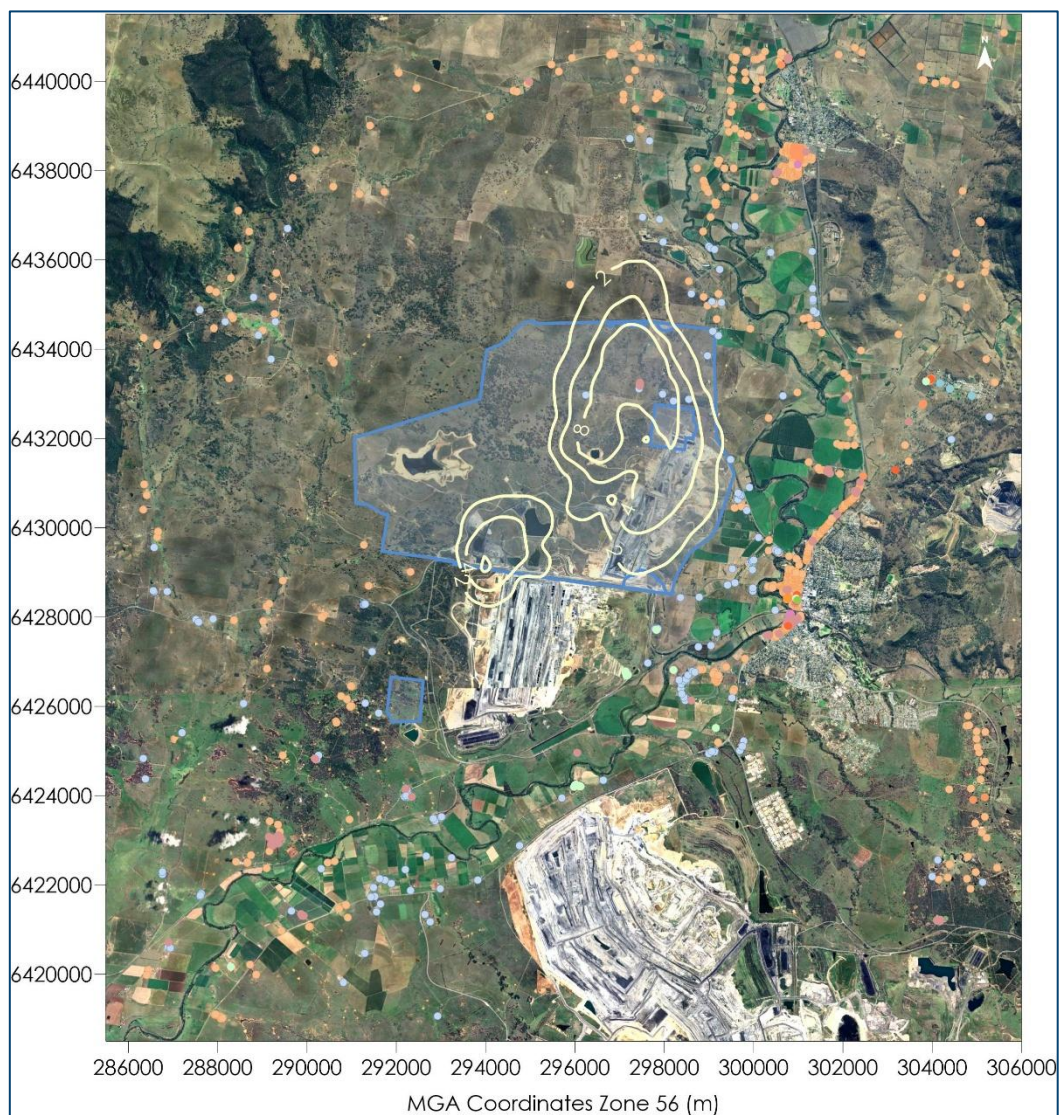




Refer to **Figure 2-1** for receiver legend

**Figure E-21: Predicted maximum 24-hour average  $PM_{2.5}$  concentrations due to emissions from the Modification in Scenario 3 ( $\mu g/m^3$ )**

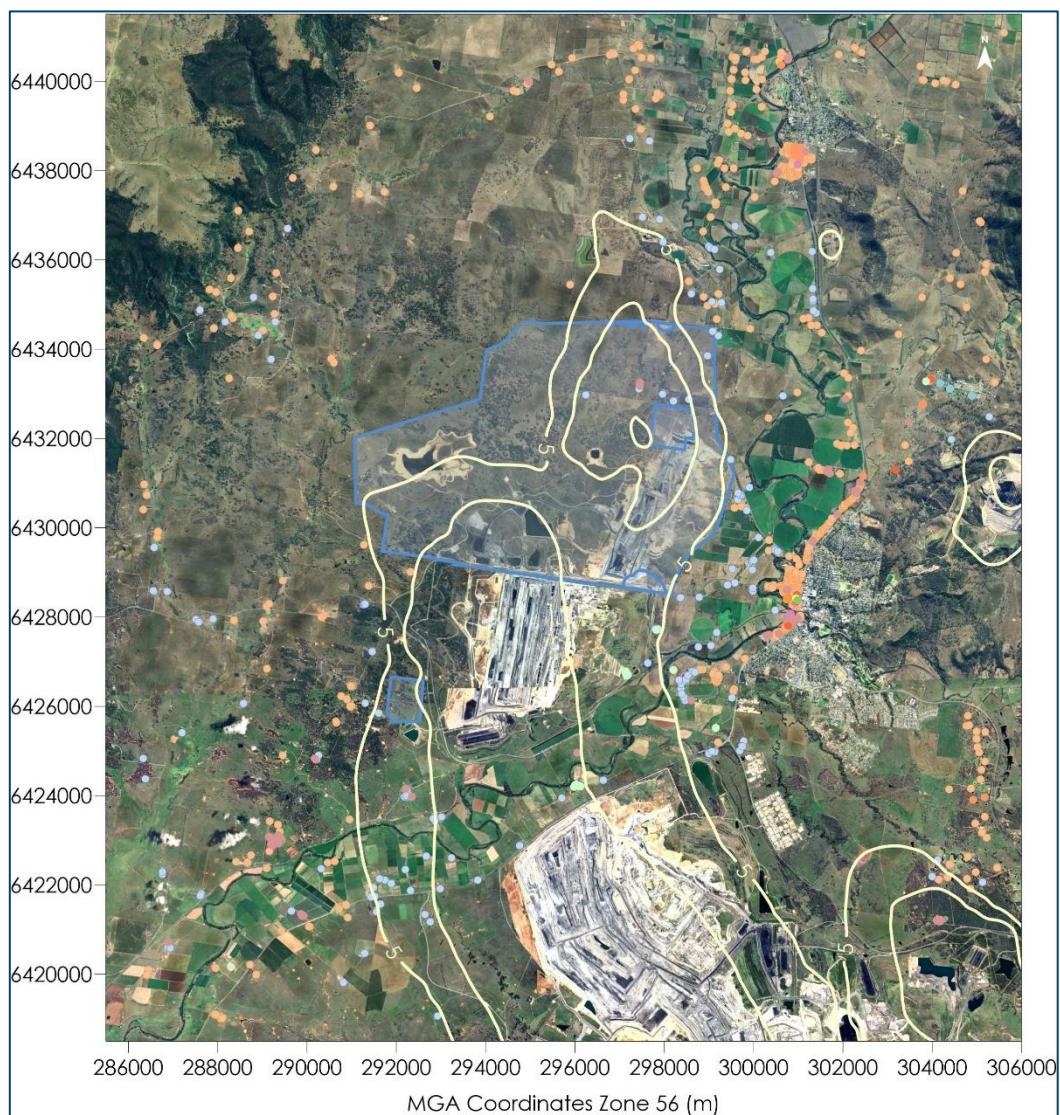




Refer to **Figure 2-1** for receiver legend

**Figure E-22: Predicted annual average  $PM_{2.5}$  concentrations due to emissions from the Modification in Scenario 3 ( $\mu g/m^3$ )**

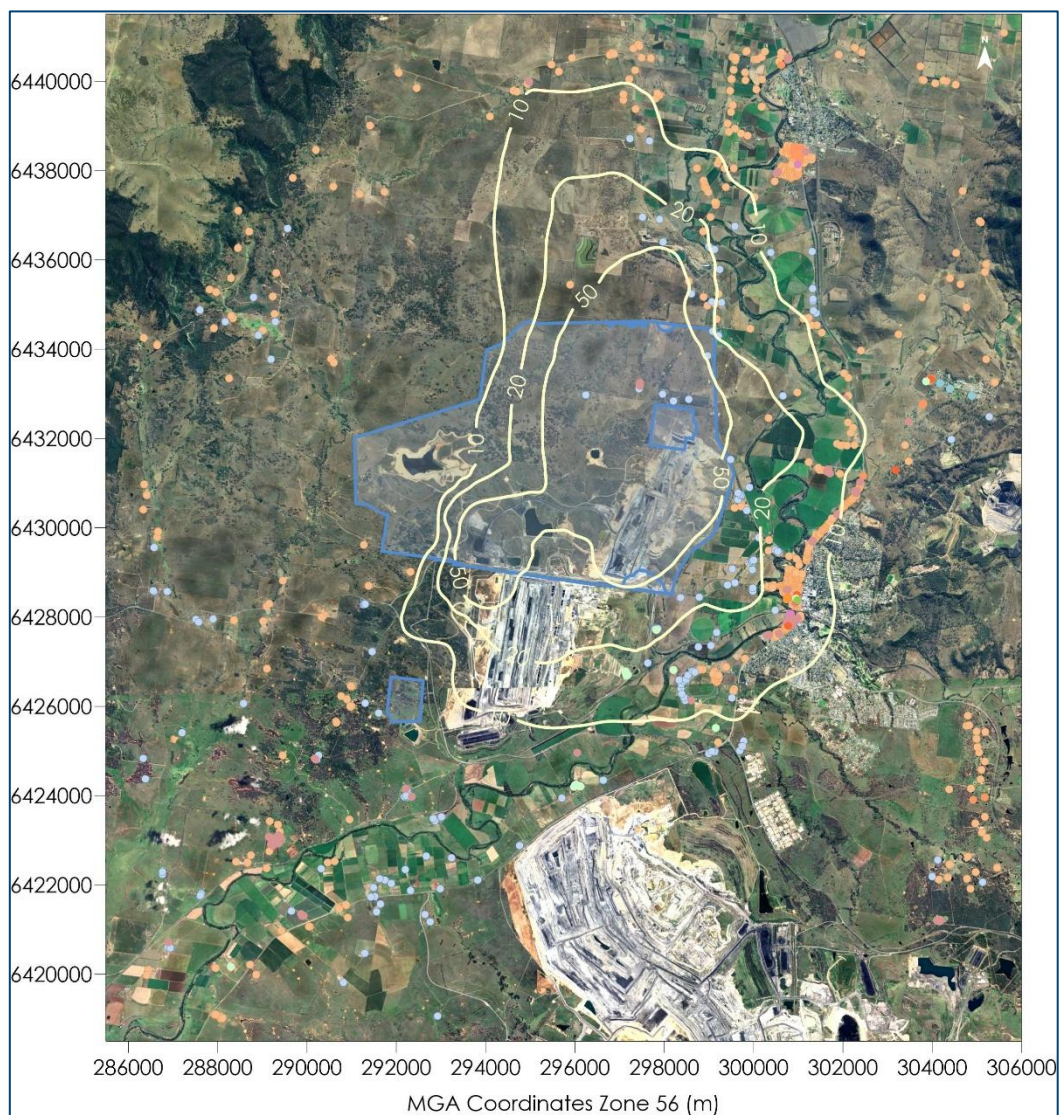




Refer to **Figure 2-1** for receiver legend

**Figure E-23: Predicted annual average  $PM_{2.5}$  concentrations due to emissions from the Modification and other sources in Scenario 3 ( $\mu g/m^3$ )**

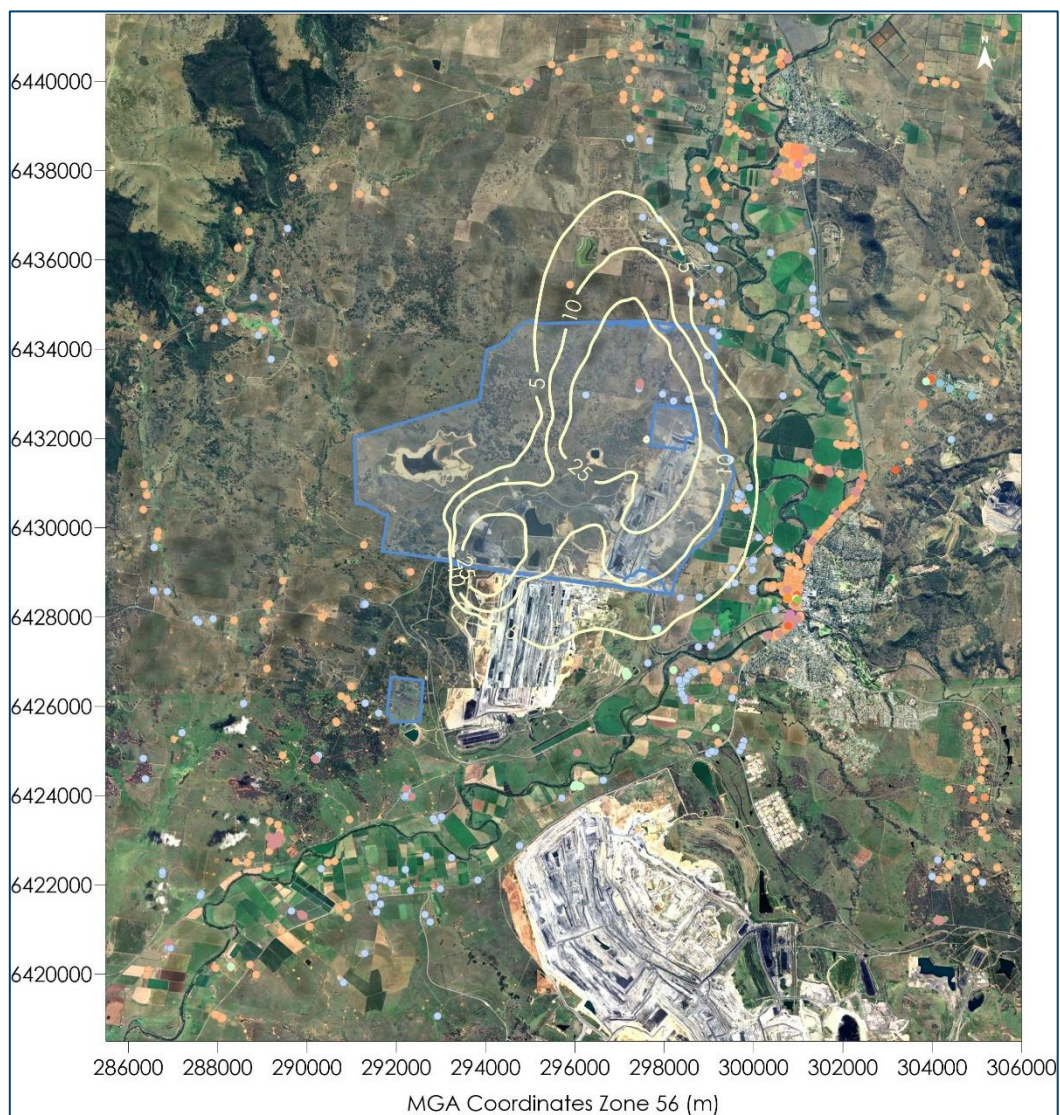




Refer to **Figure 2-1** for receiver legend

**Figure E-24: Predicted maximum 24-hour average PM<sub>10</sub> concentrations due to emissions from the Modification in Scenario 3 ( $\mu\text{g}/\text{m}^3$ )**

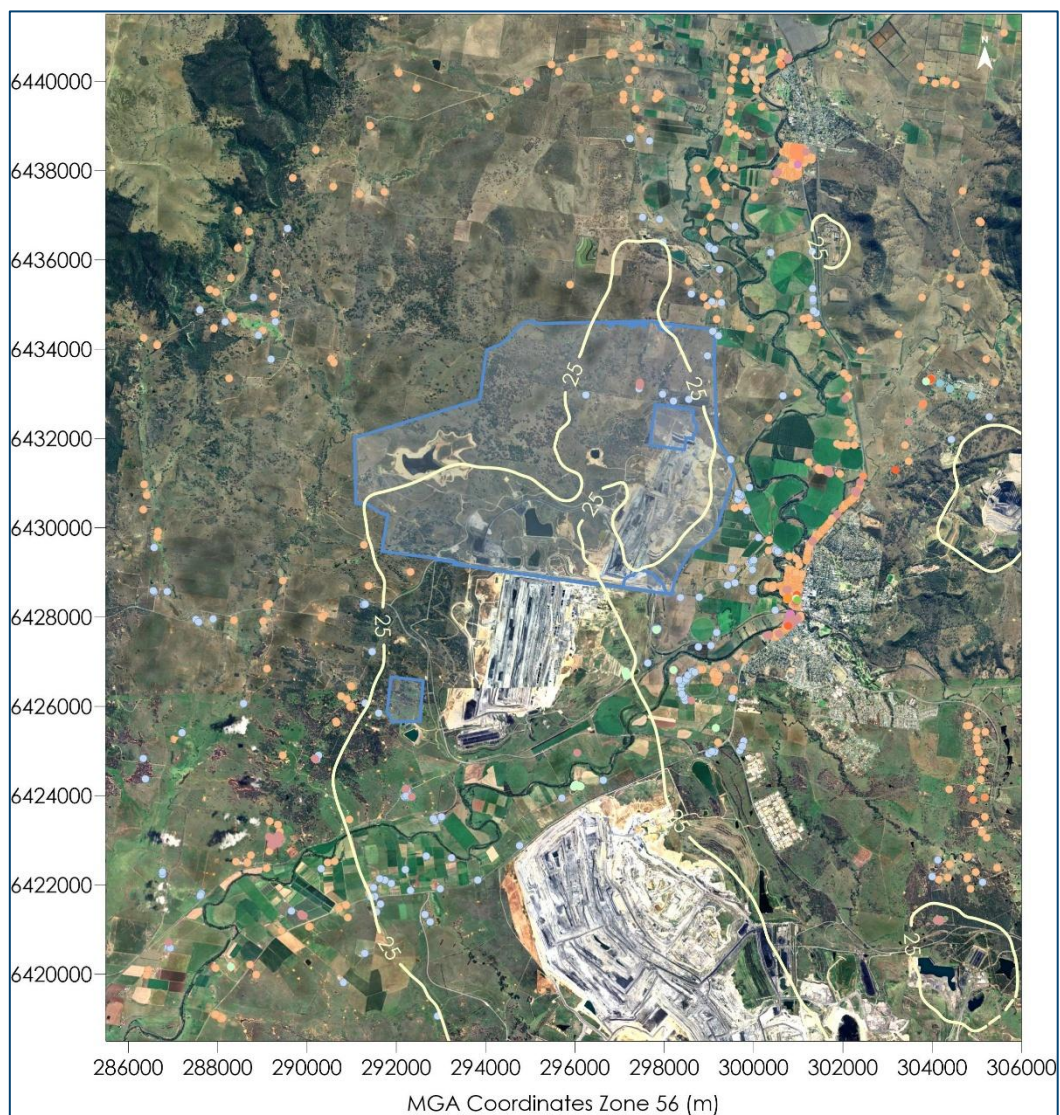




Refer to **Figure 2-1** for receiver legend

**Figure E-25: Predicted annual average  $PM_{10}$  concentrations due to emissions from the Modification in Scenario 3 ( $\mu g/m^3$ )**

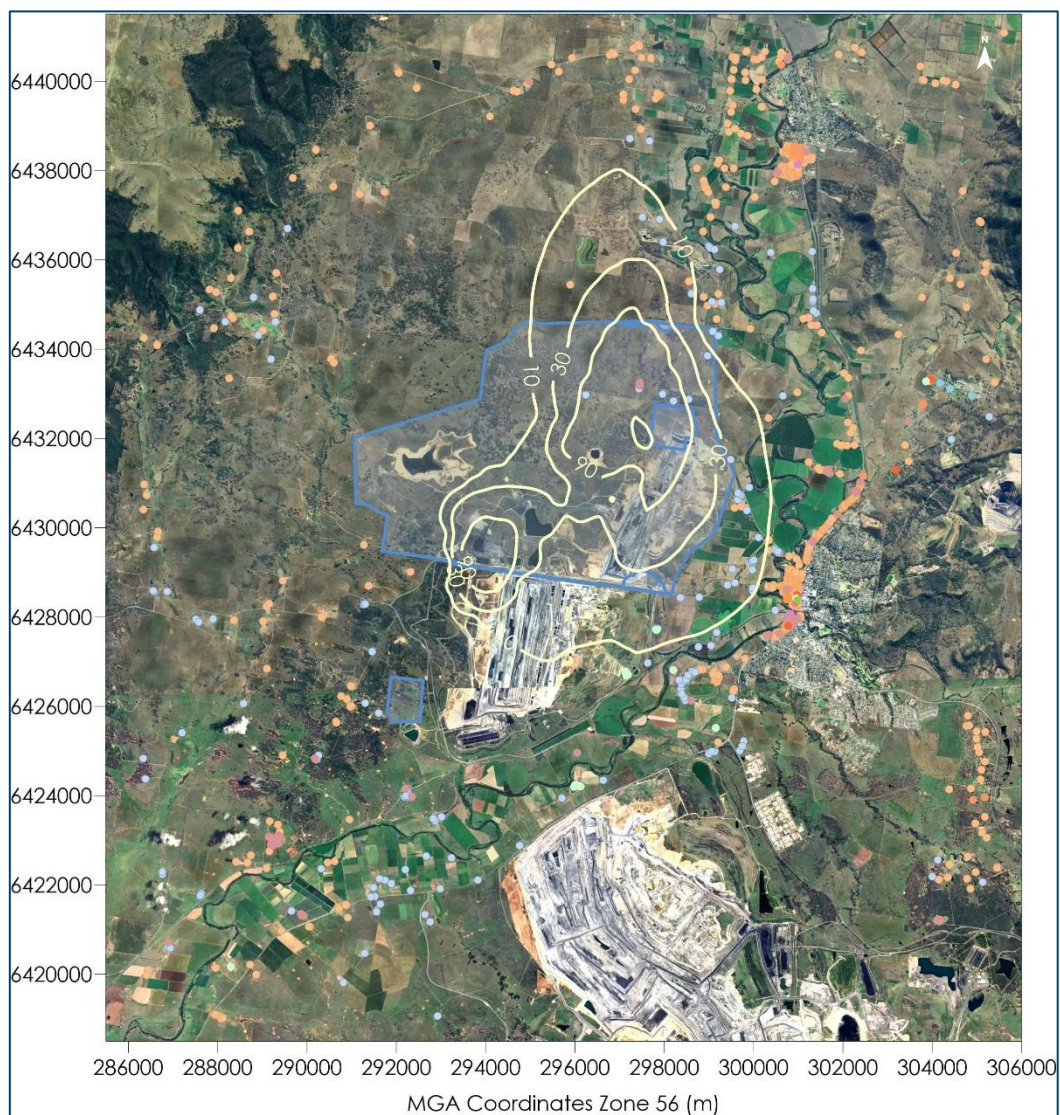




Refer to **Figure 2-1** for receiver legend

**Figure E-26: Predicted annual average PM<sub>10</sub> concentrations due to emissions from the Modification and other sources in Scenario 3 ( $\mu\text{g}/\text{m}^3$ )**

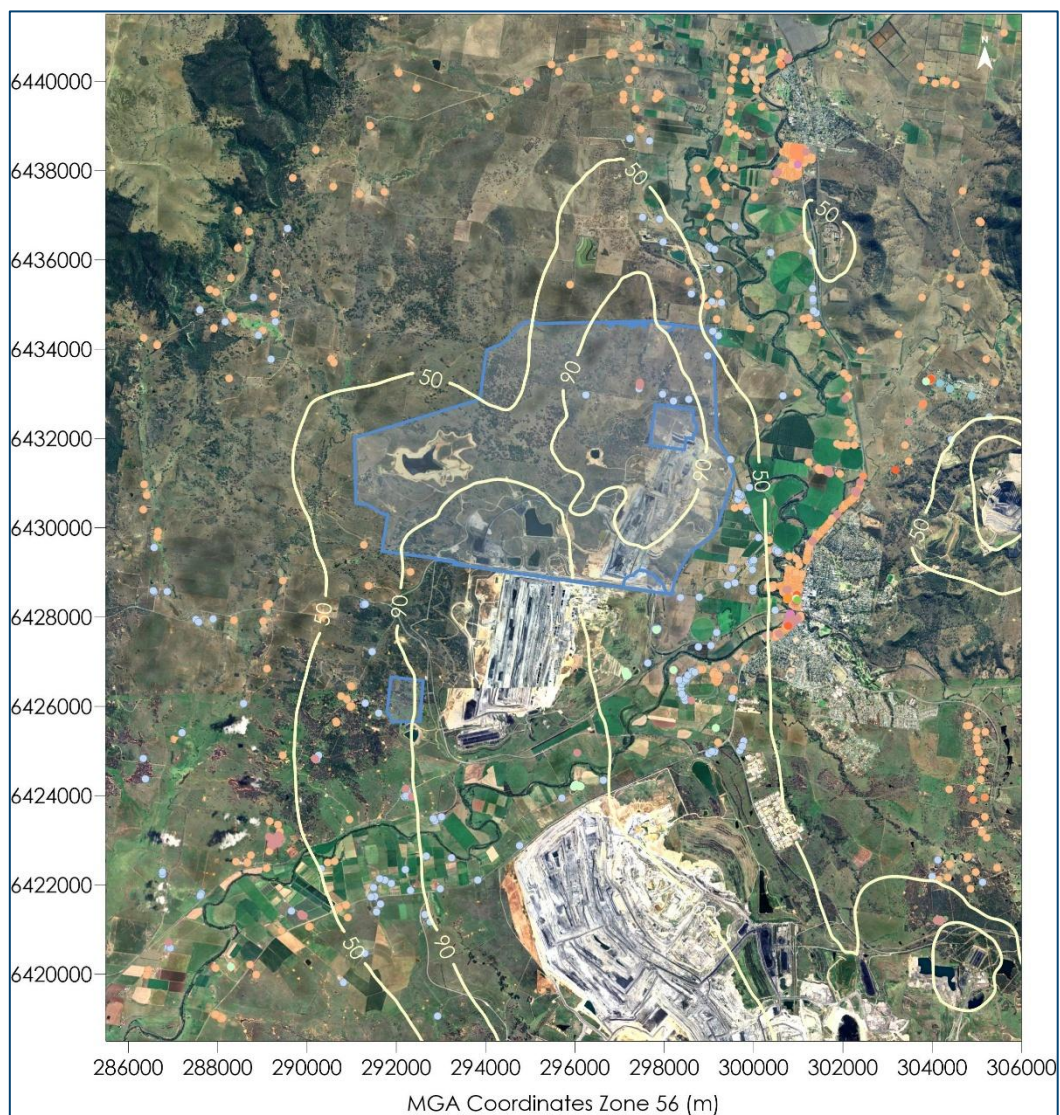




Refer to **Figure 2-1** for receiver legend

**Figure E-27: Predicted annual average TSP concentrations due to emissions from the Modification in Scenario 3 ( $\mu\text{g}/\text{m}^3$ )**

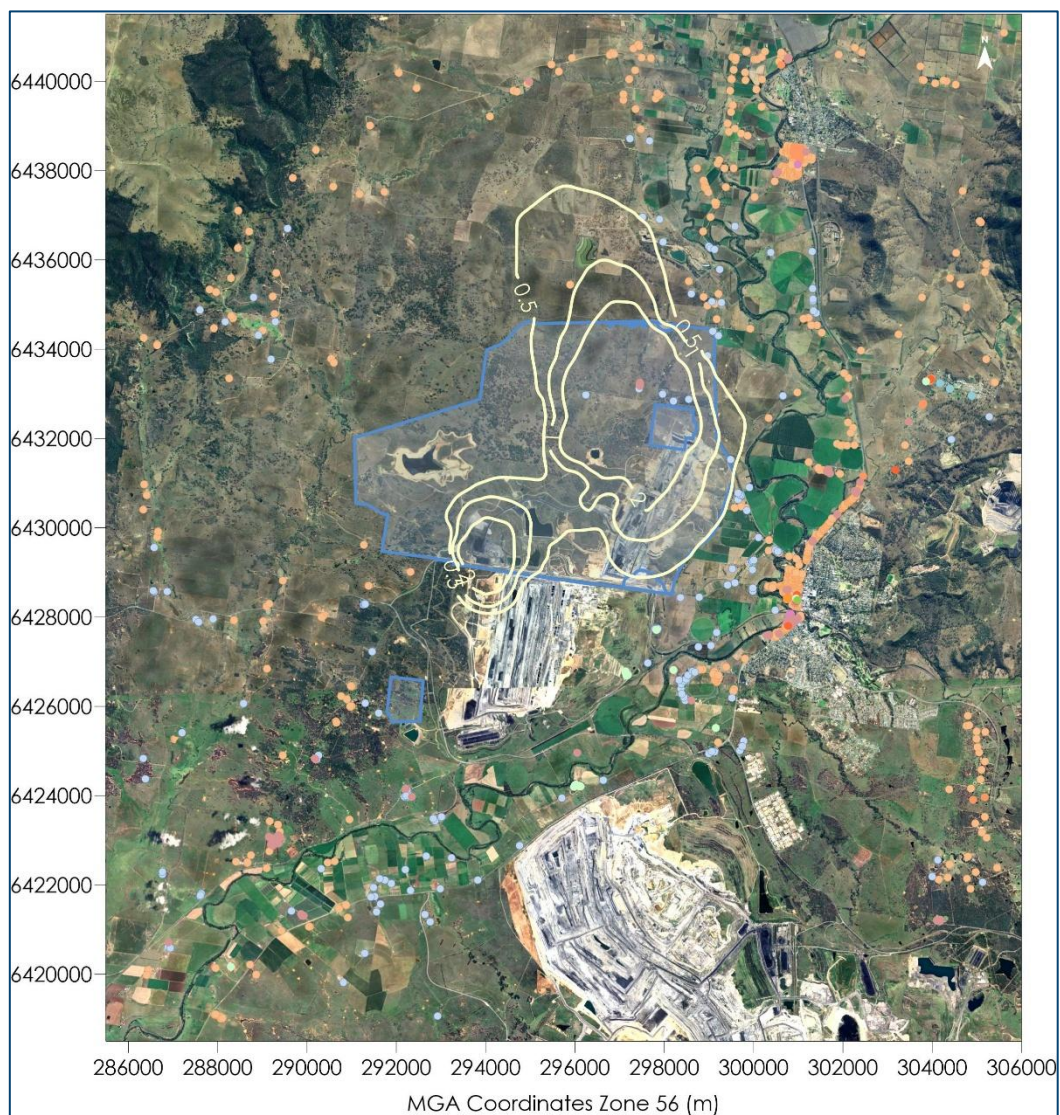




Refer to **Figure 2-1** for receiver legend

**Figure E-28: Predicted annual average TSP concentrations due to emissions from the Modification and other sources in Scenario 3 ( $\mu\text{g}/\text{m}^3$ )**

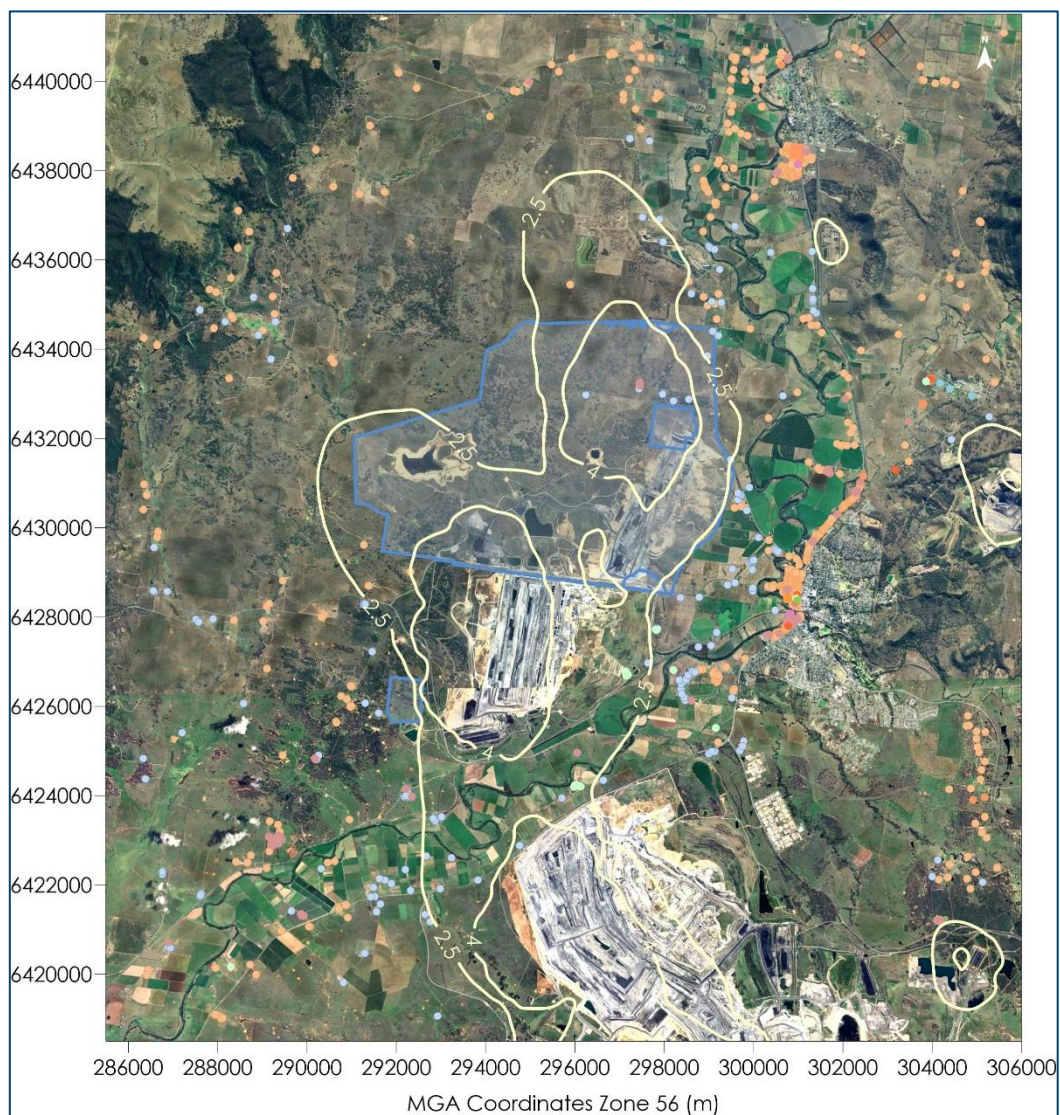




Refer to **Figure 2-1** for receiver legend

**Figure E-29: Predicted annual average dust deposition levels due to emissions from the Modification in Scenario 3 ( $\text{g}/\text{m}^2/\text{month}$ )**





Refer to **Figure 2-1** for receiver legend

**Figure E-30: Predicted annual average dust deposition levels due to emissions from the Modification and other sources in Scenario 3 ( $\text{g}/\text{m}^2/\text{month}$ )**

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## **Appendix F**

### ***Further Detail Regarding 24-hour PM<sub>2.5</sub> Analysis***



Table F-1: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.3                 | 32.5                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 1.2                 | 28.5                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.3                 | 28.0                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.8                 | 26.3                                 | 28/05/2015                                                      | 9.5                       | 3.8                 | 13.3                                 |
| 28/06/2015                                            | 23.6                      | 1.7                 | 25.3                                 | 1/07/2015                                                       | 16.4                      | 3.6                 | 20.0                                 |
| 6/06/2015                                             | 23.2                      | 1.4                 | 24.6                                 | 30/05/2015                                                      | 7.0                       | 3.1                 | 10.1                                 |
| 9/08/2015                                             | 22.9                      | 1.0                 | 23.9                                 | 27/05/2015                                                      | 9.5                       | 3.1                 | 12.6                                 |
| 22/06/2015                                            | 22.0                      | 1.9                 | 23.9                                 | 7/06/2015                                                       | 14.7                      | 3.1                 | 17.8                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 24/04/2015                                                      | 4.1                       | 3.0                 | 7.1                                  |
| 29/07/2015                                            | 21.5                      | 1.5                 | 23.0                                 | 5/07/2015                                                       | 20.9                      | 3.0                 | 23.9                                 |
| 23/07/2015                                            | 21.3                      | 2.8                 | 24.1                                 | 15/07/2015                                                      | 18.2                      | 2.9                 | 21.1                                 |
| 8/07/2015                                             | 21.2                      | 1.0                 | 22.2                                 | 23/07/2015                                                      | 21.3                      | 2.8                 | 24.1                                 |
| 8/08/2015                                             | 21.2                      | 1.2                 | 22.4                                 | 5/09/2015                                                       | 9.1                       | 2.7                 | 11.8                                 |

Table F-2: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 2.1                 | 33.3                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.9                 | 28.2                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 2.0                 | 28.7                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 2.6                 | 27.1                                 | 28/05/2015                                                      | 9.5                       | 5.6                 | 15.1                                 |
| 28/06/2015                                            | 23.6                      | 2.6                 | 26.2                                 | 27/05/2015                                                      | 9.5                       | 5.1                 | 14.6                                 |
| 6/06/2015                                             | 23.2                      | 2.2                 | 25.4                                 | 1/07/2015                                                       | 16.4                      | 5.0                 | 21.4                                 |
| 9/08/2015                                             | 22.9                      | 1.3                 | 24.2                                 | 5/07/2015                                                       | 20.9                      | 4.3                 | 25.2                                 |
| 22/06/2015                                            | 22.0                      | 3.1                 | 25.1                                 | 11/07/2015                                                      | 12.2                      | 4.2                 | 16.4                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 19/06/2015                                                      | 13.1                      | 4.1                 | 17.2                                 |
| 29/07/2015                                            | 21.5                      | 2.1                 | 23.6                                 | 23/04/2015                                                      | 4.5                       | 4.1                 | 8.6                                  |
| 23/07/2015                                            | 21.3                      | 4.0                 | 25.3                                 | 23/07/2015                                                      | 21.3                      | 4.0                 | 25.3                                 |
| 8/07/2015                                             | 21.2                      | 1.4                 | 22.6                                 | 15/07/2015                                                      | 18.2                      | 4.0                 | 22.2                                 |
| 8/08/2015                                             | 21.2                      | 1.4                 | 22.6                                 | 14/01/2015                                                      | 4.7                       | 3.9                 | 8.6                                  |

Table F-3: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.5                 | 31.7                                 |                                                                 |                           |                     |                                      |





| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 21/07/2015                                            | 27.3                      | 0.3                 | 27.6                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.6                 | 28.3                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.1                 | 25.6                                 | 4/09/2015                                                       | 10.7                      | 3.2                 | 13.9                                 |
| 28/06/2015                                            | 23.6                      | 0.5                 | 24.1                                 | 1/07/2015                                                       | 16.4                      | 3.2                 | 19.6                                 |
| 6/06/2015                                             | 23.2                      | 1.7                 | 24.9                                 | 19/06/2015                                                      | 13.1                      | 3.2                 | 16.3                                 |
| 9/08/2015                                             | 22.9                      | 0.3                 | 23.2                                 | 27/05/2015                                                      | 9.5                       | 3.1                 | 12.6                                 |
| 22/06/2015                                            | 22.0                      | 1.0                 | 23.0                                 | 1/06/2015                                                       | 12.8                      | 2.8                 | 15.6                                 |
| 10/03/2015                                            | 21.6                      | 0.2                 | 21.8                                 | 16/07/2015                                                      | 6.2                       | 2.8                 | 9.0                                  |
| 29/07/2015                                            | 21.5                      | 0.4                 | 21.9                                 | 31/01/2015                                                      | 6.8                       | 2.8                 | 9.6                                  |
| 23/07/2015                                            | 21.3                      | 2.4                 | 23.7                                 | 18/08/2015                                                      | 11.3                      | 2.8                 | 14.1                                 |
| 8/07/2015                                             | 21.2                      | 1.1                 | 22.3                                 | 9/06/2015                                                       | 11.0                      | 2.7                 | 13.7                                 |
| 8/08/2015                                             | 21.2                      | 0.9                 | 22.1                                 | 5/04/2015                                                       | 3.2                       | 2.5                 | 5.7                                  |

Table F-4: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.1                 | 31.3                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.5                 | 27.8                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 2.0                 | 28.7                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 0.9                 | 25.4                                 | 16/06/2015                                                      | 14.9                      | 2.1                 | 17.0                                 |
| 28/06/2015                                            | 23.6                      | 0.2                 | 23.8                                 | 27/05/2015                                                      | 9.5                       | 2.1                 | 11.5                                 |
| 6/06/2015                                             | 23.2                      | 0.5                 | 23.7                                 | 21/04/2015                                                      | 1.8                       | 2.1                 | 3.9                                  |
| 9/08/2015                                             | 22.9                      | 0.3                 | 23.2                                 | 22/07/2015                                                      | 26.7                      | 2.0                 | 28.7                                 |
| 22/06/2015                                            | 22.0                      | 0.4                 | 22.4                                 | 3/07/2015                                                       | 20.2                      | 2.0                 | 22.2                                 |
| 10/03/2015                                            | 21.6                      | 0.4                 | 22.0                                 | 25/06/2015                                                      | 9.1                       | 1.7                 | 10.8                                 |
| 29/07/2015                                            | 21.5                      | 0.2                 | 21.7                                 | 31/10/2015                                                      | 7.3                       | 1.7                 | 9.0                                  |
| 23/07/2015                                            | 21.3                      | 0.3                 | 21.6                                 | 2/04/2015                                                       | 4.4                       | 1.7                 | 6.1                                  |
| 8/07/2015                                             | 21.2                      | 1.3                 | 22.5                                 | 9/01/2015                                                       | 6.4                       | 1.6                 | 8.0                                  |
| 8/08/2015                                             | 21.2                      | 0.0                 | 21.2                                 | 1/11/2015                                                       | 9.5                       | 1.6                 | 11.1                                 |

Table F-5: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.0                 | 32.2                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.5                 | 27.8                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 0.5                 | 27.2                                 |                                                                 |                           |                     |                                      |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 30/06/2015                                            | 24.5                      | 1.2                 | 25.7                                 | 16/03/2015                                                      | 5.9                       | 2.9                 | 8.8                                  |
| 28/06/2015                                            | 23.6                      | 1.0                 | 24.6                                 | 4/04/2015                                                       | 2.7                       | 2.7                 | 5.4                                  |
| 6/06/2015                                             | 23.2                      | 0.9                 | 24.1                                 | 2/03/2015                                                       | 5.8                       | 2.5                 | 8.3                                  |
| 9/08/2015                                             | 22.9                      | 0.7                 | 23.6                                 | 9/10/2015                                                       | 5.7                       | 2.4                 | 8.1                                  |
| 22/06/2015                                            | 22.0                      | 1.4                 | 23.4                                 | 25/02/2015                                                      | 4.2                       | 2.3                 | 6.5                                  |
| 10/03/2015                                            | 21.6                      | 1.4                 | 23.0                                 | 19/07/2015                                                      | 21.1                      | 2.3                 | 23.4                                 |
| 29/07/2015                                            | 21.5                      | 0.5                 | 22.0                                 | 14/03/2015                                                      | 5.5                       | 2.3                 | 7.8                                  |
| 23/07/2015                                            | 21.3                      | 0.1                 | 21.4                                 | 21/03/2015                                                      | 5.4                       | 2.2                 | 7.6                                  |
| 8/07/2015                                             | 21.2                      | 2.1                 | 23.3                                 | 4/05/2015                                                       | 6.1                       | 2.1                 | 8.2                                  |
| 8/08/2015                                             | 21.2                      | 0.5                 | 21.7                                 | 12/01/2015                                                      | 9.5                       | 2.1                 | 11.6                                 |

Table F-6: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.3                 | 32.5                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 1.4                 | 28.7                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.4                 | 28.1                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.9                 | 26.4                                 | 28/05/2015                                                      | 9.5                       | 4.0                 | 13.5                                 |
| 28/06/2015                                            | 23.6                      | 1.9                 | 25.5                                 | 24/04/2015                                                      | 4.1                       | 4.0                 | 8.1                                  |
| 6/06/2015                                             | 23.2                      | 1.6                 | 24.8                                 | 1/07/2015                                                       | 16.4                      | 3.5                 | 19.9                                 |
| 9/08/2015                                             | 22.9                      | 0.9                 | 23.8                                 | 23/06/2015                                                      | 18.4                      | 3.3                 | 21.7                                 |
| 22/06/2015                                            | 22.0                      | 2.1                 | 24.1                                 | 27/05/2015                                                      | 9.5                       | 3.3                 | 12.8                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 30/05/2015                                                      | 7.0                       | 3.3                 | 10.3                                 |
| 29/07/2015                                            | 21.5                      | 1.7                 | 23.2                                 | 5/07/2015                                                       | 20.9                      | 3.2                 | 24.1                                 |
| 23/07/2015                                            | 21.3                      | 3.0                 | 24.3                                 | 7/06/2015                                                       | 14.7                      | 3.1                 | 17.8                                 |
| 8/07/2015                                             | 21.2                      | 0.8                 | 22.0                                 | 27/06/2015                                                      | 14.3                      | 3.1                 | 17.4                                 |
| 8/08/2015                                             | 21.2                      | 1.6                 | 22.8                                 | 6/04/2015                                                       | 3.5                       | 3.1                 | 6.6                                  |

Table F-7: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 2.1                 | 33.3                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 1.1                 | 28.4                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 2.1                 | 28.8                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 2.7                 | 27.2                                 | 28/05/2015                                                      | 9.5                       | 6.1                 | 15.6                                 |
| 28/06/2015                                            | 23.6                      | 2.5                 | 26.1                                 | 27/05/2015                                                      | 9.5                       | 5.9                 | 15.3                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/06/2015                                             | 23.2                      | 2.3                 | 25.5                                 | 1/07/2015                                                       | 16.4                      | 5.7                 | 22.1                                 |
| 9/08/2015                                             | 22.9                      | 1.0                 | 23.9                                 | 11/07/2015                                                      | 12.2                      | 4.8                 | 17.0                                 |
| 22/06/2015                                            | 22.0                      | 3.4                 | 25.4                                 | 5/07/2015                                                       | 20.9                      | 4.7                 | 25.6                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 23/07/2015                                                      | 21.3                      | 4.6                 | 25.9                                 |
| 29/07/2015                                            | 21.5                      | 2.2                 | 23.7                                 | 19/06/2015                                                      | 13.1                      | 4.6                 | 17.7                                 |
| 23/07/2015                                            | 21.3                      | 4.6                 | 25.9                                 | 23/06/2015                                                      | 18.4                      | 4.5                 | 22.9                                 |
| 8/07/2015                                             | 21.2                      | 1.2                 | 22.4                                 | 15/07/2015                                                      | 18.2                      | 4.4                 | 22.6                                 |
| 8/08/2015                                             | 21.2                      | 2.3                 | 23.5                                 | 5/06/2015                                                       | 20.2                      | 4.4                 | 24.6                                 |

Table F-8: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.4                 | 31.6                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.3                 | 27.6                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.7                 | 28.4                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.0                 | 25.5                                 | 18/08/2015                                                      | 11.3                      | 4.2                 | 15.5                                 |
| 28/06/2015                                            | 23.6                      | 0.4                 | 24.0                                 | 16/07/2015                                                      | 6.2                       | 3.7                 | 9.9                                  |
| 6/06/2015                                             | 23.2                      | 1.8                 | 25.0                                 | 31/01/2015                                                      | 6.8                       | 3.7                 | 10.5                                 |
| 9/08/2015                                             | 22.9                      | 0.3                 | 23.2                                 | 9/06/2015                                                       | 11.0                      | 3.6                 | 14.6                                 |
| 22/06/2015                                            | 22.0                      | 0.9                 | 22.9                                 | 1/07/2015                                                       | 16.4                      | 3.4                 | 19.8                                 |
| 10/03/2015                                            | 21.6                      | 0.2                 | 21.8                                 | 4/09/2015                                                       | 10.7                      | 3.4                 | 14.1                                 |
| 29/07/2015                                            | 21.5                      | 0.3                 | 21.8                                 | 20/06/2015                                                      | 14.4                      | 3.0                 | 17.4                                 |
| 23/07/2015                                            | 21.3                      | 2.8                 | 24.1                                 | 19/06/2015                                                      | 13.1                      | 3.0                 | 16.1                                 |
| 8/07/2015                                             | 21.2                      | 0.8                 | 22.0                                 | 5/04/2015                                                       | 3.2                       | 3.0                 | 6.2                                  |
| 8/08/2015                                             | 21.2                      | 0.7                 | 21.9                                 | 25/01/2015                                                      | 4.1                       | 2.9                 | 7.0                                  |

Table F-9: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.1                 | 31.3                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.3                 | 27.6                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.6                 | 28.3                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 0.8                 | 25.3                                 | 16/06/2015                                                      | 14.9                      | 2.6                 | 17.5                                 |
| 28/06/2015                                            | 23.6                      | 0.2                 | 23.8                                 | 27/05/2015                                                      | 9.5                       | 2.5                 | 12.0                                 |
| 6/06/2015                                             | 23.2                      | 0.5                 | 23.7                                 | 31/10/2015                                                      | 7.3                       | 2.3                 | 9.6                                  |
| 9/08/2015                                             | 22.9                      | 0.3                 | 23.2                                 | 1/11/2015                                                       | 9.5                       | 2.2                 | 11.7                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 22/06/2015                                            | 22.0                      | 0.4                 | 22.4                                 | 9/01/2015                                                       | 6.4                       | 2.1                 | 8.5                                  |
| 10/03/2015                                            | 21.6                      | 0.3                 | 21.9                                 | 30/01/2015                                                      | 4.9                       | 2.0                 | 6.9                                  |
| 29/07/2015                                            | 21.5                      | 0.1                 | 21.6                                 | 19/03/2015                                                      | 8.5                       | 2.0                 | 10.5                                 |
| 23/07/2015                                            | 21.3                      | 0.3                 | 21.6                                 | 12/03/2015                                                      | 14.2                      | 2.0                 | 16.2                                 |
| 8/07/2015                                             | 21.2                      | 1.2                 | 22.4                                 | 16/12/2015                                                      | 8.1                       | 1.9                 | 10.0                                 |
| 8/08/2015                                             | 21.2                      | 0.1                 | 21.3                                 | 18/09/2015                                                      | 6.3                       | 1.9                 | 8.2                                  |

Table F-10: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.2                 | 32.4                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.5                 | 27.8                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 0.5                 | 27.2                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.3                 | 25.8                                 | 4/04/2015                                                       | 2.7                       | 3.6                 | 6.3                                  |
| 28/06/2015                                            | 23.6                      | 1.1                 | 24.7                                 | 16/03/2015                                                      | 5.9                       | 3.4                 | 9.3                                  |
| 6/06/2015                                             | 23.2                      | 1.0                 | 24.2                                 | 14/03/2015                                                      | 5.5                       | 2.9                 | 8.4                                  |
| 9/08/2015                                             | 22.9                      | 0.8                 | 23.7                                 | 25/02/2015                                                      | 4.2                       | 2.8                 | 7.0                                  |
| 22/06/2015                                            | 22.0                      | 1.7                 | 23.7                                 | 9/10/2015                                                       | 5.7                       | 2.8                 | 8.5                                  |
| 10/03/2015                                            | 21.6                      | 1.6                 | 23.2                                 | 12/01/2015                                                      | 9.5                       | 2.8                 | 12.2                                 |
| 29/07/2015                                            | 21.5                      | 0.7                 | 22.2                                 | 19/07/2015                                                      | 21.1                      | 2.6                 | 23.7                                 |
| 23/07/2015                                            | 21.3                      | 0.1                 | 21.4                                 | 1/05/2015                                                       | 4.4                       | 2.6                 | 7.0                                  |
| 8/07/2015                                             | 21.2                      | 2.4                 | 23.6                                 | 13/03/2015                                                      | 9.3                       | 2.6                 | 11.9                                 |
| 8/08/2015                                             | 21.2                      | 0.5                 | 21.7                                 | 3/04/2015                                                       | 6.9                       | 2.5                 | 9.4                                  |

Table F-11: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.0                 | 32.2                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.7                 | 28.0                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.0                 | 27.7                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.5                 | 26.0                                 | 27/06/2015                                                      | 14.3                      | 3.8                 | 18.1                                 |
| 28/06/2015                                            | 23.6                      | 1.9                 | 25.5                                 | 28/05/2015                                                      | 9.5                       | 3.8                 | 13.3                                 |
| 6/06/2015                                             | 23.2                      | 1.2                 | 24.4                                 | 30/05/2015                                                      | 7.0                       | 3.7                 | 10.7                                 |
| 9/08/2015                                             | 22.9                      | 0.9                 | 23.8                                 | 24/04/2015                                                      | 4.1                       | 3.4                 | 7.5                                  |
| 22/06/2015                                            | 22.0                      | 2.0                 | 24.0                                 | 23/06/2015                                                      | 18.4                      | 3.3                 | 21.7                                 |
| 10/03/2015                                            | 21.6                      | 0.0                 | 21.6                                 | 3/06/2015                                                       | 16.7                      | 3.2                 | 19.9                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 29/07/2015                                            | 21.5                      | 2.0                 | 23.5                                 | 28/07/2015                                                      | 10.9                      | 3.0                 | 13.9                                 |
| 23/07/2015                                            | 21.3                      | 2.2                 | 23.5                                 | 7/08/2015                                                       | 13.7                      | 2.8                 | 16.5                                 |
| 8/07/2015                                             | 21.2                      | 0.6                 | 21.8                                 | 4/06/2015                                                       | 20.2                      | 2.7                 | 22.9                                 |
| 8/08/2015                                             | 21.2                      | 1.2                 | 22.4                                 | 5/07/2015                                                       | 20.9                      | 2.6                 | 23.5                                 |

Table F-12: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 1.4                 | 32.6                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 1.1                 | 28.4                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.5                 | 28.2                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 2.1                 | 26.6                                 | 28/05/2015                                                      | 9.5                       | 5.0                 | 14.5                                 |
| 28/06/2015                                            | 23.6                      | 2.6                 | 26.2                                 | 30/05/2015                                                      | 7.0                       | 4.4                 | 11.4                                 |
| 6/06/2015                                             | 23.2                      | 1.6                 | 24.8                                 | 27/05/2015                                                      | 9.5                       | 4.2                 | 13.6                                 |
| 9/08/2015                                             | 22.9                      | 0.9                 | 23.8                                 | 7/08/2015                                                       | 13.7                      | 4.1                 | 17.8                                 |
| 22/06/2015                                            | 22.0                      | 3.0                 | 25.0                                 | 23/06/2015                                                      | 18.4                      | 4.1                 | 22.5                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 27/06/2015                                                      | 14.3                      | 4.0                 | 18.3                                 |
| 29/07/2015                                            | 21.5                      | 2.3                 | 23.8                                 | 24/04/2015                                                      | 4.1                       | 3.6                 | 7.7                                  |
| 23/07/2015                                            | 21.3                      | 3.0                 | 24.3                                 | 2/06/2015                                                       | 19.6                      | 3.5                 | 23.1                                 |
| 8/07/2015                                             | 21.2                      | 0.9                 | 22.1                                 | 28/07/2015                                                      | 10.9                      | 3.3                 | 14.2                                 |
| 8/08/2015                                             | 21.2                      | 1.8                 | 23.0                                 | 7/06/2015                                                       | 14.7                      | 3.2                 | 17.9                                 |

Table F-13: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.6                 | 31.8                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.2                 | 27.5                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.5                 | 28.2                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 0.9                 | 25.4                                 | 1/07/2015                                                       | 16.4                      | 4.7                 | 21.1                                 |
| 28/06/2015                                            | 23.6                      | 0.4                 | 24.0                                 | 27/05/2015                                                      | 9.5                       | 3.4                 | 12.8                                 |
| 6/06/2015                                             | 23.2                      | 1.7                 | 24.9                                 | 19/06/2015                                                      | 13.1                      | 3.3                 | 16.4                                 |
| 9/08/2015                                             | 22.9                      | 0.2                 | 23.1                                 | 16/07/2015                                                      | 6.2                       | 3.2                 | 9.4                                  |
| 22/06/2015                                            | 22.0                      | 1.1                 | 23.1                                 | 20/06/2015                                                      | 14.4                      | 3.2                 | 17.6                                 |
| 10/03/2015                                            | 21.6                      | 0.1                 | 21.7                                 | 15/07/2015                                                      | 18.2                      | 2.9                 | 21.1                                 |
| 29/07/2015                                            | 21.5                      | 0.2                 | 21.7                                 | 23/07/2015                                                      | 21.3                      | 2.9                 | 24.2                                 |
| 23/07/2015                                            | 21.3                      | 2.9                 | 24.2                                 | 4/09/2015                                                       | 10.7                      | 2.8                 | 13.5                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 8/07/2015                                             | 21.2                      | 0.4                 | 21.6                                 | 31/01/2015                                                      | 6.8                       | 2.8                 | 9.6                                  |
| 8/08/2015                                             | 21.2                      | 1.6                 | 22.8                                 | 11/07/2015                                                      | 12.2                      | 2.6                 | 14.8                                 |

Table F-14: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 0.1                 | 31.3                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.3                 | 27.6                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 1.3                 | 28.0                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 0.5                 | 25.0                                 | 31/01/2015                                                      | 6.8                       | 2.6                 | 9.4                                  |
| 28/06/2015                                            | 23.6                      | 0.1                 | 23.7                                 | 18/08/2015                                                      | 11.3                      | 2.2                 | 13.5                                 |
| 6/06/2015                                             | 23.2                      | 0.5                 | 23.7                                 | 12/03/2015                                                      | 14.2                      | 2.2                 | 16.4                                 |
| 9/08/2015                                             | 22.9                      | 0.2                 | 23.1                                 | 27/05/2015                                                      | 9.5                       | 2.1                 | 11.6                                 |
| 22/06/2015                                            | 22.0                      | 0.3                 | 22.3                                 | 4/09/2015                                                       | 10.7                      | 1.7                 | 12.4                                 |
| 10/03/2015                                            | 21.6                      | 0.3                 | 21.9                                 | 16/06/2015                                                      | 14.9                      | 1.7                 | 16.6                                 |
| 29/07/2015                                            | 21.5                      | 0.1                 | 21.6                                 | 19/06/2015                                                      | 13.1                      | 1.6                 | 14.7                                 |
| 23/07/2015                                            | 21.3                      | 0.4                 | 21.7                                 | 19/03/2015                                                      | 8.5                       | 1.6                 | 10.1                                 |
| 8/07/2015                                             | 21.2                      | 0.6                 | 21.8                                 | 5/03/2015                                                       | 11.4                      | 1.5                 | 12.9                                 |
| 8/08/2015                                             | 21.2                      | 0.0                 | 21.2                                 | 1/06/2015                                                       | 12.8                      | 1.5                 | 14.3                                 |

Table F-15: Cumulative 24-hour average PM<sub>2.5</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 14/06/2015                                            | 31.2                      | 2.2                 | 33.4                                 |                                                                 |                           |                     |                                      |
| 21/07/2015                                            | 27.3                      | 0.7                 | 28.0                                 |                                                                 |                           |                     |                                      |
| 22/07/2015                                            | 26.7                      | 0.6                 | 27.3                                 |                                                                 |                           |                     |                                      |
| 30/06/2015                                            | 24.5                      | 1.8                 | 26.3                                 | 4/04/2015                                                       | 2.7                       | 5.1                 | 7.8                                  |
| 28/06/2015                                            | 23.6                      | 2.0                 | 25.6                                 | 19/07/2015                                                      | 21.1                      | 4.5                 | 25.6                                 |
| 6/06/2015                                             | 23.2                      | 1.6                 | 24.8                                 | 16/03/2015                                                      | 5.9                       | 4.3                 | 10.2                                 |
| 9/08/2015                                             | 22.9                      | 1.5                 | 24.4                                 | 9/10/2015                                                       | 5.7                       | 4.1                 | 9.8                                  |
| 22/06/2015                                            | 22.0                      | 3.2                 | 25.2                                 | 13/09/2015                                                      | 9.1                       | 4.0                 | 13.1                                 |
| 10/03/2015                                            | 21.6                      | 2.0                 | 23.6                                 | 14/03/2015                                                      | 5.5                       | 3.8                 | 9.3                                  |
| 29/07/2015                                            | 21.5                      | 1.0                 | 22.5                                 | 13/01/2015                                                      | 3.9                       | 3.6                 | 7.5                                  |
| 23/07/2015                                            | 21.3                      | 0.1                 | 21.4                                 | 2/03/2015                                                       | 5.8                       | 3.6                 | 9.4                                  |
| 8/07/2015                                             | 21.2                      | 3.1                 | 24.3                                 | 15/06/2015                                                      | 12.9                      | 3.5                 | 16.4                                 |
| 8/08/2015                                             | 21.2                      | 0.8                 | 22.0                                 | 7/07/2015                                                       | 14.9                      | 3.5                 | 18.4                                 |

23071614A\_MountPleasant\_MOD8\_AQIA\_251204.docx



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## **Appendix G**

### ***Further Detail Regarding 24-hour PM<sub>10</sub> Analysis***



Table G-1: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 9.6                 | 82.5                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 8.7                 | 59.6                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.4                 | 49.5                                 | 28/05/2015                                                      | 12.2                      | 22.2                | 34.4                                 |
| 15/12/2015                                            | 42.3                      | 1.4                 | 43.7                                 | 1/07/2015                                                       | 11.1                      | 20.9                | 32.0                                 |
| 12/12/2015                                            | 41.5                      | 1.1                 | 42.6                                 | 30/05/2015                                                      | 9.8                       | 18.6                | 28.4                                 |
| 7/10/2015                                             | 38.3                      | 4.0                 | 42.3                                 | 24/04/2015                                                      | 8.8                       | 18.5                | 27.3                                 |
| 9/03/2015                                             | 37.4                      | 3.0                 | 40.4                                 | 7/06/2015                                                       | 11.0                      | 17.9                | 28.9                                 |
| 11/12/2015                                            | 36.3                      | 13.9                | 50.2                                 | 5/07/2015                                                       | 12.8                      | 17.3                | 30.1                                 |
| 4/03/2015                                             | 35.6                      | 0.4                 | 36.0                                 | 15/07/2015                                                      | 8.4                       | 16.7                | 25.1                                 |
| 9/02/2015                                             | 35.1                      | 0.7                 | 35.8                                 | 27/05/2015                                                      | 13.7                      | 16.7                | 30.4                                 |
| 17/10/2015                                            | 35.0                      | 1.3                 | 36.3                                 | 5/09/2015                                                       | 12.7                      | 15.9                | 28.6                                 |
| 7/03/2015                                             | 34.2                      | 7.0                 | 41.2                                 | 11/07/2015                                                      | 6.4                       | 15.8                | 22.2                                 |

Table G-2: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 10.9                | 83.8                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 11.7                | 62.6                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.8                 | 49.9                                 | 28/05/2015                                                      | 12.2                      | 33.5                | 45.7                                 |
| 15/12/2015                                            | 42.3                      | 2.2                 | 44.5                                 | 1/07/2015                                                       | 11.1                      | 29.3                | 40.4                                 |
| 12/12/2015                                            | 41.5                      | 2.0                 | 43.5                                 | 27/05/2015                                                      | 13.7                      | 28.8                | 42.5                                 |
| 7/10/2015                                             | 38.3                      | 6.1                 | 44.4                                 | 5/07/2015                                                       | 12.8                      | 24.8                | 37.6                                 |
| 9/03/2015                                             | 37.4                      | 2.6                 | 40.0                                 | 11/07/2015                                                      | 6.4                       | 24.6                | 31.0                                 |
| 11/12/2015                                            | 36.3                      | 18.8                | 55.1                                 | 15/07/2015                                                      | 8.4                       | 23.3                | 31.7                                 |
| 4/03/2015                                             | 35.6                      | 0.6                 | 36.2                                 | 19/06/2015                                                      | 9.1                       | 23.2                | 32.3                                 |
| 9/02/2015                                             | 35.1                      | 1.3                 | 36.4                                 | 23/04/2015                                                      | 7.5                       | 23.1                | 30.6                                 |
| 17/10/2015                                            | 35.0                      | 1.7                 | 36.7                                 | 23/07/2015                                                      | 13.5                      | 22.4                | 35.9                                 |
| 7/03/2015                                             | 34.2                      | 11.1                | 45.3                                 | 14/01/2015                                                      | 8.2                       | 22.3                | 30.5                                 |

Table G-3: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 5.2                 | 70.0                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 1.1                 | 47.6                                 | 1/07/2015                                                       | 8.8                       | 19.0                | 27.8                                 |
| 26/11/2015                                            | 45.1                      | 4.8                 | 49.9                                 | 19/06/2015                                                      | 7.3                       | 17.9                | 25.2                                 |





| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 7/10/2015                                             | 41.5                      | 1.1                 | 42.6                                 | 27/05/2015                                                      | 12.1                      | 17.7                | 29.8                                 |
| 15/12/2015                                            | 41.3                      | 0.5                 | 41.8                                 | 4/09/2015                                                       | 9.9                       | 17.6                | 27.5                                 |
| 12/12/2015                                            | 39.7                      | 8.1                 | 47.8                                 | 1/06/2015                                                       | 6.2                       | 17.4                | 23.6                                 |
| 9/02/2015                                             | 33.2                      | 1.1                 | 34.3                                 | 9/06/2015                                                       | 10.0                      | 16.6                | 26.6                                 |
| 11/03/2015                                            | 32.6                      | 1.1                 | 33.7                                 | 18/08/2015                                                      | 10.6                      | 16.6                | 27.2                                 |
| 9/03/2015                                             | 32.3                      | 1.2                 | 33.5                                 | 31/01/2015                                                      | 18.6                      | 16.0                | 34.6                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 16/07/2015                                                      | 5.0                       | 15.6                | 20.6                                 |
| 4/03/2015                                             | 31.0                      | 0.8                 | 31.8                                 | 19/03/2015                                                      | 23.5                      | 13.8                | 37.3                                 |

Table G-4: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.1                 | 64.9                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 2.2                 | 48.7                                 | 21/04/2015                                                      | 2.5                       | 12.8                | 15.3                                 |
| 26/11/2015                                            | 45.1                      | 0.7                 | 45.8                                 | 27/05/2015                                                      | 12.1                      | 12.3                | 24.4                                 |
| 7/10/2015                                             | 41.5                      | 0.2                 | 41.7                                 | 16/06/2015                                                      | 12.9                      | 11.8                | 24.7                                 |
| 15/12/2015                                            | 41.3                      | 0.3                 | 41.6                                 | 25/06/2015                                                      | 8.8                       | 11.5                | 20.3                                 |
| 12/12/2015                                            | 39.7                      | 7.3                 | 47.0                                 | 3/07/2015                                                       | 17.2                      | 11.3                | 28.5                                 |
| 9/02/2015                                             | 33.2                      | 1.7                 | 34.9                                 | 22/07/2015                                                      | 29.2                      | 10.8                | 40.0                                 |
| 11/03/2015                                            | 32.6                      | 2.4                 | 35.0                                 | 31/10/2015                                                      | 19.7                      | 9.9                 | 29.6                                 |
| 9/03/2015                                             | 32.3                      | 2.1                 | 34.4                                 | 2/04/2015                                                       | 17.0                      | 9.4                 | 26.4                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 27/02/2015                                                      | 19.8                      | 9.1                 | 28.9                                 |
| 4/03/2015                                             | 31.0                      | 1.2                 | 32.2                                 | 9/01/2015                                                       | 17.7                      | 8.8                 | 26.5                                 |

Table G-5: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 1 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.0                 | 64.8                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 8.0                 | 54.5                                 | 16/03/2015                                                      | 25.0                      | 17.8                | 42.8                                 |
| 26/11/2015                                            | 45.1                      | 1.3                 | 46.4                                 | 4/04/2015                                                       | 4.6                       | 15.8                | 20.4                                 |
| 7/10/2015                                             | 41.5                      | 6.9                 | 48.4                                 | 9/10/2015                                                       | 24.3                      | 15.3                | 39.6                                 |
| 15/12/2015                                            | 41.3                      | 5.4                 | 46.7                                 | 2/03/2015                                                       | 22.2                      | 14.6                | 36.8                                 |
| 12/12/2015                                            | 39.7                      | 5.2                 | 44.9                                 | 14/03/2015                                                      | 20.9                      | 14.0                | 34.9                                 |
| 9/02/2015                                             | 33.2                      | 7.9                 | 41.1                                 | 25/02/2015                                                      | 15.5                      | 13.9                | 29.4                                 |
| 11/03/2015                                            | 32.6                      | 9.7                 | 42.3                                 | 19/07/2015                                                      | 14.9                      | 13.7                | 28.6                                 |
| 9/03/2015                                             | 32.3                      | 4.2                 | 36.5                                 | 4/05/2015                                                       | 12.1                      | 13.2                | 25.3                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 21/11/2015                                            | 31.8                      | 7.2                 | 39.0                                 | 23/10/2015                                                      | 16.6                      | 13.0                | 29.6                                 |
| 4/03/2015                                             | 31.0                      | 8.7                 | 39.7                                 | 12/01/2015                                                      | 6.8                       | 12.8                | 19.6                                 |

Table G-6: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 11.8                | 84.7                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 6.9                 | 57.8                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.3                 | 49.4                                 | 24/04/2015                                                      | 8.8                       | 23.6                | 32.4                                 |
| 15/12/2015                                            | 42.3                      | 1.1                 | 43.4                                 | 28/05/2015                                                      | 12.2                      | 22.4                | 34.6                                 |
| 12/12/2015                                            | 41.5                      | 0.9                 | 42.4                                 | 1/07/2015                                                       | 11.1                      | 19.2                | 30.3                                 |
| 7/10/2015                                             | 38.3                      | 5.4                 | 43.7                                 | 23/06/2015                                                      | 10.3                      | 18.4                | 28.7                                 |
| 9/03/2015                                             | 37.4                      | 3.3                 | 40.7                                 | 30/05/2015                                                      | 9.8                       | 18.2                | 28.0                                 |
| 11/12/2015                                            | 36.3                      | 12.8                | 49.1                                 | 5/07/2015                                                       | 12.8                      | 17.7                | 30.5                                 |
| 4/03/2015                                             | 35.6                      | 0.4                 | 36.0                                 | 7/06/2015                                                       | 11.0                      | 17.6                | 28.6                                 |
| 9/02/2015                                             | 35.1                      | 0.6                 | 35.7                                 | 6/04/2015                                                       | 7.7                       | 17.3                | 25.0                                 |
| 17/10/2015                                            | 35.0                      | 1.1                 | 36.1                                 | 27/05/2015                                                      | 13.7                      | 17.0                | 30.7                                 |
| 7/03/2015                                             | 34.2                      | 7.9                 | 42.1                                 | 27/06/2015                                                      | 12.6                      | 16.7                | 29.3                                 |

Table G-7: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 11.9                | 84.8                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 9.0                 | 59.9                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.7                 | 49.8                                 | 28/05/2015                                                      | 12.2                      | 34.7                | 46.9                                 |
| 15/12/2015                                            | 42.3                      | 1.6                 | 43.9                                 | 27/05/2015                                                      | 13.7                      | 31.0                | 44.7                                 |
| 12/12/2015                                            | 41.5                      | 1.9                 | 43.4                                 | 1/07/2015                                                       | 11.1                      | 30.7                | 41.8                                 |
| 7/10/2015                                             | 38.3                      | 7.6                 | 45.9                                 | 11/07/2015                                                      | 6.4                       | 26.7                | 33.1                                 |
| 9/03/2015                                             | 37.4                      | 3.2                 | 40.6                                 | 5/07/2015                                                       | 12.8                      | 26.5                | 39.3                                 |
| 11/12/2015                                            | 36.3                      | 18.5                | 54.8                                 | 23/06/2015                                                      | 10.3                      | 25.3                | 35.6                                 |
| 4/03/2015                                             | 35.6                      | 0.6                 | 36.2                                 | 24/04/2015                                                      | 8.8                       | 25.1                | 33.9                                 |
| 9/02/2015                                             | 35.1                      | 1.1                 | 36.2                                 | 6/04/2015                                                       | 7.7                       | 24.7                | 32.4                                 |
| 17/10/2015                                            | 35.0                      | 1.4                 | 36.4                                 | 19/06/2015                                                      | 9.1                       | 24.5                | 33.6                                 |
| 7/03/2015                                             | 34.2                      | 13.3                | 47.5                                 | 23/07/2015                                                      | 13.5                      | 24.3                | 37.8                                 |



Table G-8: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 4.8                 | 69.6                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 0.9                 | 47.4                                 | 18/08/2015                                                      | 10.6                      | 23.4                | 34.0                                 |
| 26/11/2015                                            | 45.1                      | 5.9                 | 51.0                                 | 9/06/2015                                                       | 10.0                      | 20.6                | 30.6                                 |
| 7/10/2015                                             | 41.5                      | 0.9                 | 42.4                                 | 31/01/2015                                                      | 18.6                      | 20.1                | 38.7                                 |
| 15/12/2015                                            | 41.3                      | 0.5                 | 41.8                                 | 1/07/2015                                                       | 8.8                       | 19.6                | 28.4                                 |
| 12/12/2015                                            | 39.7                      | 6.7                 | 46.4                                 | 16/07/2015                                                      | 5.0                       | 19.3                | 24.3                                 |
| 9/02/2015                                             | 33.2                      | 0.9                 | 34.1                                 | 4/09/2015                                                       | 9.9                       | 17.4                | 27.3                                 |
| 11/03/2015                                            | 32.6                      | 1.0                 | 33.6                                 | 25/01/2015                                                      | 18.0                      | 16.5                | 34.5                                 |
| 9/03/2015                                             | 32.3                      | 1.0                 | 33.3                                 | 19/06/2015                                                      | 7.3                       | 16.3                | 23.6                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 4/08/2015                                                       | 6.7                       | 16.2                | 22.9                                 |
| 4/03/2015                                             | 31.0                      | 0.7                 | 31.7                                 | 20/06/2015                                                      | 8.8                       | 15.3                | 24.1                                 |

Table G-9: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.0                 | 64.8                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 1.7                 | 48.2                                 | 27/05/2015                                                      | 12.1                      | 14.8                | 26.9                                 |
| 26/11/2015                                            | 45.1                      | 0.6                 | 45.7                                 | 16/06/2015                                                      | 12.9                      | 13.0                | 25.9                                 |
| 7/10/2015                                             | 41.5                      | 0.2                 | 41.7                                 | 31/10/2015                                                      | 19.7                      | 12.1                | 31.8                                 |
| 15/12/2015                                            | 41.3                      | 0.3                 | 41.6                                 | 1/11/2015                                                       | 16.4                      | 11.2                | 27.6                                 |
| 12/12/2015                                            | 39.7                      | 10.2                | 49.9                                 | 12/03/2015                                                      | 29.9                      | 11.1                | 41.0                                 |
| 9/02/2015                                             | 33.2                      | 1.2                 | 34.4                                 | 30/01/2015                                                      | 13.9                      | 10.9                | 24.8                                 |
| 11/03/2015                                            | 32.6                      | 1.6                 | 34.2                                 | 19/03/2015                                                      | 23.5                      | 10.8                | 34.3                                 |
| 9/03/2015                                             | 32.3                      | 1.6                 | 33.9                                 | 9/01/2015                                                       | 17.7                      | 10.7                | 28.4                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 25/06/2015                                                      | 8.8                       | 10.4                | 19.2                                 |
| 4/03/2015                                             | 31.0                      | 1.2                 | 32.2                                 | 16/12/2015                                                      | 15.4                      | 10.3                | 25.7                                 |

Table G-10: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 2 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.0                 | 64.8                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 9.3                 | 55.8                                 | 4/04/2015                                                       | 4.6                       | 20.6                | 25.2                                 |
| 26/11/2015                                            | 45.1                      | 1.0                 | 46.1                                 | 16/03/2015                                                      | 25.0                      | 19.9                | 44.9                                 |
| 7/10/2015                                             | 41.5                      | 6.0                 | 47.5                                 | 9/10/2015                                                       | 24.3                      | 17.4                | 41.7                                 |
| 15/12/2015                                            | 41.3                      | 5.9                 | 47.2                                 | 14/03/2015                                                      | 20.9                      | 17.3                | 38.2                                 |



| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 12/12/2015                                            | 39.7                      | 6.0                 | 45.7                                 | 12/01/2015                                                      | 6.8                       | 16.5                | 23.3                                 |
| 9/02/2015                                             | 33.2                      | 7.0                 | 40.2                                 | 25/02/2015                                                      | 15.5                      | 16.3                | 31.8                                 |
| 11/03/2015                                            | 32.6                      | 10.2                | 42.8                                 | 1/05/2015                                                       | 8.4                       | 15.7                | 24.1                                 |
| 9/03/2015                                             | 32.3                      | 4.3                 | 36.6                                 | 19/07/2015                                                      | 14.9                      | 15.2                | 30.1                                 |
| 21/11/2015                                            | 31.8                      | 7.8                 | 39.6                                 | 3/04/2015                                                       | 21.7                      | 15.1                | 36.8                                 |
| 4/03/2015                                             | 31.0                      | 9.5                 | 40.5                                 | 23/10/2015                                                      | 16.6                      | 14.9                | 31.5                                 |

Table G-11: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R67

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 8.7                 | 81.6                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 4.1                 | 55.0                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.3                 | 49.4                                 | 27/06/2015                                                      | 12.6                      | 22.7                | 35.3                                 |
| 15/12/2015                                            | 42.3                      | 1.0                 | 43.3                                 | 28/05/2015                                                      | 12.2                      | 22.1                | 34.3                                 |
| 12/12/2015                                            | 41.5                      | 0.2                 | 41.7                                 | 30/05/2015                                                      | 9.8                       | 21.8                | 31.6                                 |
| 7/10/2015                                             | 38.3                      | 5.9                 | 44.2                                 | 24/04/2015                                                      | 8.8                       | 21.4                | 30.2                                 |
| 9/03/2015                                             | 37.4                      | 1.8                 | 39.2                                 | 23/06/2015                                                      | 10.3                      | 19.5                | 29.8                                 |
| 11/12/2015                                            | 36.3                      | 8.4                 | 44.7                                 | 3/06/2015                                                       | 13.3                      | 19.0                | 32.3                                 |
| 4/03/2015                                             | 35.6                      | 0.4                 | 36.0                                 | 28/07/2015                                                      | 10.9                      | 18.6                | 29.5                                 |
| 9/02/2015                                             | 35.1                      | 0.4                 | 35.5                                 | 4/06/2015                                                       | 10.5                      | 17.0                | 27.5                                 |
| 17/10/2015                                            | 35.0                      | 1.2                 | 36.2                                 | 7/08/2015                                                       | 11.0                      | 16.9                | 27.9                                 |
| 7/03/2015                                             | 34.2                      | 8.4                 | 42.6                                 | 29/08/2015                                                      | 5.9                       | 15.9                | 21.8                                 |

Table G-12: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R112

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 72.9                      | 11.4                | 84.3                                 |                                                                 |                           |                     |                                      |
| 26/11/2015                                            | 50.9                      | 4.8                 | 55.7                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 49.1                      | 0.5                 | 49.6                                 | 28/05/2015                                                      | 12.2                      | 29.2                | 41.4                                 |
| 15/12/2015                                            | 42.3                      | 1.3                 | 43.6                                 | 30/05/2015                                                      | 9.8                       | 25.9                | 35.7                                 |
| 12/12/2015                                            | 41.5                      | 0.5                 | 42.0                                 | 7/08/2015                                                       | 11.0                      | 24.7                | 35.7                                 |
| 7/10/2015                                             | 38.3                      | 7.8                 | 46.1                                 | 23/06/2015                                                      | 10.3                      | 23.9                | 34.2                                 |
| 9/03/2015                                             | 37.4                      | 4.1                 | 41.5                                 | 27/06/2015                                                      | 12.6                      | 23.7                | 36.3                                 |
| 11/12/2015                                            | 36.3                      | 11.1                | 47.4                                 | 27/05/2015                                                      | 13.7                      | 23.3                | 37.0                                 |
| 4/03/2015                                             | 35.6                      | 0.5                 | 36.1                                 | 24/04/2015                                                      | 8.8                       | 22.0                | 30.8                                 |
| 9/02/2015                                             | 35.1                      | 0.7                 | 35.8                                 | 2/06/2015                                                       | 11.0                      | 20.5                | 31.5                                 |

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| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 17/10/2015                                            | 35.0                      | 1.6                 | 36.6                                 | 28/07/2015                                                      | 10.9                      | 19.6                | 30.5                                 |
| 7/03/2015                                             | 34.2                      | 12.1                | 46.3                                 | 7/06/2015                                                       | 11.0                      | 19.3                | 30.3                                 |

Table G-13: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R136

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 5.8                 | 70.6                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 0.8                 | 47.3                                 | 1/07/2015                                                       | 8.8                       | 28.2                | 37.0                                 |
| 26/11/2015                                            | 45.1                      | 6.4                 | 51.5                                 | 19/06/2015                                                      | 7.3                       | 18.6                | 25.9                                 |
| 7/10/2015                                             | 41.5                      | 1.1                 | 42.6                                 | 27/05/2015                                                      | 12.1                      | 18.6                | 30.7                                 |
| 15/12/2015                                            | 41.3                      | 0.4                 | 41.7                                 | 16/07/2015                                                      | 5.0                       | 17.7                | 22.7                                 |
| 12/12/2015                                            | 39.7                      | 2.2                 | 41.9                                 | 20/06/2015                                                      | 8.8                       | 16.9                | 25.7                                 |
| 9/02/2015                                             | 33.2                      | 0.6                 | 33.8                                 | 23/07/2015                                                      | 10.3                      | 16.0                | 26.3                                 |
| 11/03/2015                                            | 32.6                      | 0.8                 | 33.4                                 | 31/01/2015                                                      | 18.6                      | 15.7                | 34.3                                 |
| 9/03/2015                                             | 32.3                      | 0.7                 | 33.0                                 | 15/07/2015                                                      | 7.8                       | 15.6                | 23.4                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 4/09/2015                                                       | 9.9                       | 15.0                | 24.9                                 |
| 4/03/2015                                             | 31.0                      | 0.6                 | 31.6                                 | 11/07/2015                                                      | 5.8                       | 14.4                | 20.2                                 |

Table G-14: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R143a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.1                 | 64.9                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 1.5                 | 48.0                                 | 31/01/2015                                                      | 18.6                      | 14.5                | 33.1                                 |
| 26/11/2015                                            | 45.1                      | 1.0                 | 46.1                                 | 18/08/2015                                                      | 10.6                      | 12.8                | 23.4                                 |
| 7/10/2015                                             | 41.5                      | 0.1                 | 41.6                                 | 27/05/2015                                                      | 12.1                      | 12.7                | 24.8                                 |
| 15/12/2015                                            | 41.3                      | 0.3                 | 41.6                                 | 12/03/2015                                                      | 29.9                      | 12.3                | 42.2                                 |
| 12/12/2015                                            | 39.7                      | 5.7                 | 45.4                                 | 1/06/2015                                                       | 6.2                       | 9.5                 | 15.7                                 |
| 9/02/2015                                             | 33.2                      | 0.9                 | 34.1                                 | 4/09/2015                                                       | 9.9                       | 9.4                 | 19.3                                 |
| 11/03/2015                                            | 32.6                      | 1.3                 | 33.9                                 | 19/06/2015                                                      | 7.3                       | 9.3                 | 16.6                                 |
| 9/03/2015                                             | 32.3                      | 1.2                 | 33.5                                 | 19/03/2015                                                      | 23.5                      | 9.0                 | 32.5                                 |
| 21/11/2015                                            | 31.8                      | 0.0                 | 31.8                                 | 5/03/2015                                                       | 26.9                      | 9.0                 | 35.9                                 |
| 4/03/2015                                             | 31.0                      | 1.1                 | 32.1                                 | 16/06/2015                                                      | 12.9                      | 8.7                 | 21.6                                 |



Table G-15: Cumulative 24-hour average PM<sub>10</sub> concentration (µg/m<sup>3</sup>) – Scenario 3 - Receptor R153a

| Ranked by Highest to Lowest Background Concentrations |                           |                     |                                      | Ranked by Highest to Lowest Predicted Incremental Concentration |                           |                     |                                      |
|-------------------------------------------------------|---------------------------|---------------------|--------------------------------------|-----------------------------------------------------------------|---------------------------|---------------------|--------------------------------------|
| Date                                                  | Measured background level | Predicted increment | Total cumulative 24-hr average level | Date                                                            | Measured background level | Predicted increment | Total cumulative 24-hr average level |
| 6/05/2015                                             | 64.8                      | 0.0                 | 64.8                                 |                                                                 |                           |                     |                                      |
| 10/03/2015                                            | 46.5                      | 11.6                | 58.1                                 | 4/04/2015                                                       | 4.6                       | 30.6                | 35.2                                 |
| 26/11/2015                                            | 45.1                      | 1.1                 | 46.2                                 | 19/07/2015                                                      | 14.9                      | 28.0                | 42.9                                 |
| 7/10/2015                                             | 41.5                      | 9.2                 | 50.7                                 | 16/03/2015                                                      | 25.0                      | 26.6                | 51.6                                 |
| 15/12/2015                                            | 41.3                      | 8.4                 | 49.7                                 | 9/10/2015                                                       | 24.3                      | 26.3                | 50.6                                 |
| 12/12/2015                                            | 39.7                      | 7.2                 | 46.9                                 | 14/03/2015                                                      | 20.9                      | 23.8                | 44.7                                 |
| 9/02/2015                                             | 33.2                      | 10.1                | 43.3                                 | 13/09/2015                                                      | 18.5                      | 23.6                | 42.1                                 |
| 11/03/2015                                            | 32.6                      | 14.5                | 47.1                                 | 7/07/2015                                                       | 12.4                      | 23.3                | 35.7                                 |
| 9/03/2015                                             | 32.3                      | 7.3                 | 39.6                                 | 13/01/2015                                                      | 14.0                      | 21.8                | 35.8                                 |
| 21/11/2015                                            | 31.8                      | 9.6                 | 41.4                                 | 15/06/2015                                                      | 16.4                      | 21.7                | 38.1                                 |
| 4/03/2015                                             | 31.0                      | 12.3                | 43.3                                 | 4/05/2015                                                       | 12.1                      | 21.4                | 33.5                                 |

